No. 670
our 46th year
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ALLIED

INDUSTRIAL ELECTRONICS CATALOG·1967

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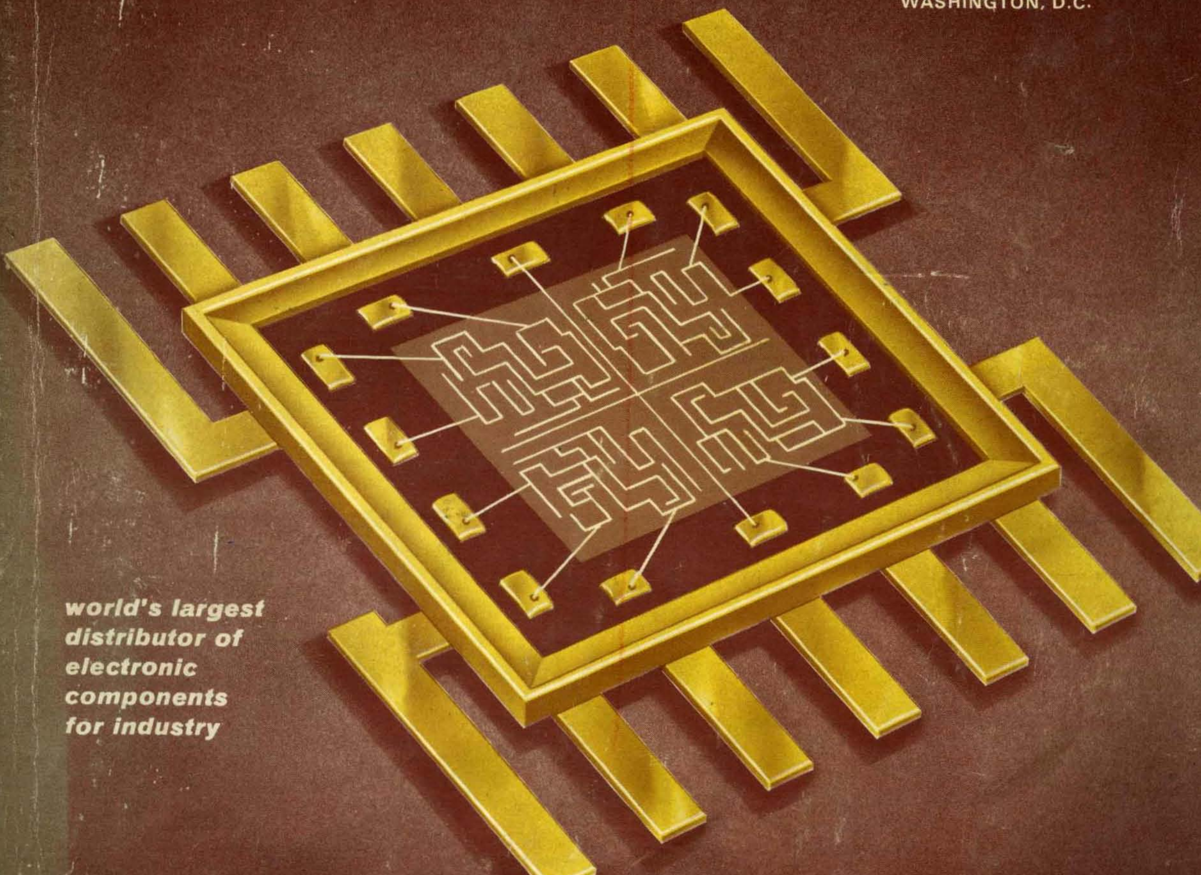

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IF IT'S FROM

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INSTRUMENTS THAT STAY ACCURATE

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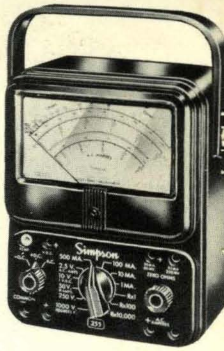
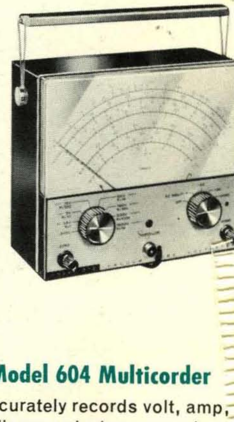
Model 255 Multi-Tester

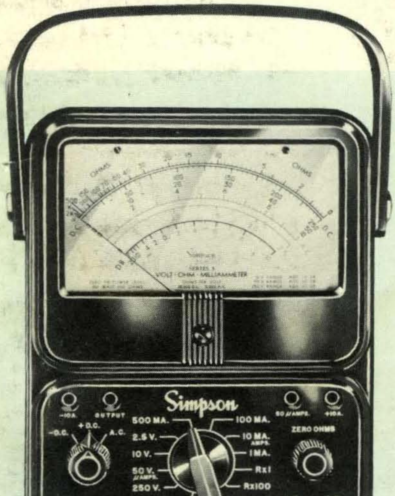


Well suited for servicemen in many industrial and technical fields. All important VOM functions of the famous 250; plus a temperature range of +100° F to +1050° F. Low millivolt drop on DC. 7x5¼x3⅛". With leads, thermocouple, battery. 4 lbs.
51 D 9620.......90.00

Model 312 AC-DC VTVM

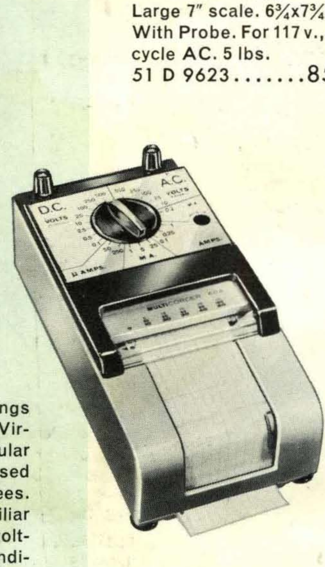


Input resistance of 16 megs—low circuit loading makes meter burnout-proof. Meets solid state testing demands with ½-v. DC range. AC accuracy of ±3% full scale. Large 7" scale. 6¾x7¾x3¾". With Probe. For 117 v., 50-60 cycle AC. 5 lbs.
51 D 9623.......85.00



Model 260-5P VOM

Latest version of the world-famous Model 260 brings you built-in meter protection approaching 100%. Virtually a "goof-proof" VOM, the 260-5P is of particular value in situations where the instrument may be used by inexperienced people, students, or new employees. Technicians also find it ideal for checking unfamiliar equipment, especially where unexpectedly high voltages may be present. Reset button pops out to indicate overload; circuit cannot be reset while overload is present. Internal fuse protects input. See Page 390 for complete specifications. Shpg. wt., 5 lbs.
51 D 5035...........................85.00



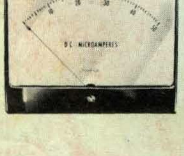
Model 604 Multicorder

Accurately records volt, amp, milliamp and microamp values on pressure sensitive chart. Provides record of range and measured value. Permits visual readout as well as recording action. 3 speeds: 1", 3", 12" per hour. 9¾x4¾x4". For 115 volt, 60-cycle AC. Shpg. wt., 6 lbs.
51 D 9624 X.....200.00

Model 1150 Meter

Simpson's striking new 6" rectangular case meter, available with 1 or 2% full scale tolerance. 1% meters have mirror scale. All have self-shielding movement. See page 417.

Wide-Vue Meters



Popular panel meters with a wide selection of designs for a great variety of applications. Featuring this year a new meter with a specially designed self-shielding taut band movement. See page 415 for the complete selection.

See Pages 415-419 for Complete Listings o Simpson Panel Meters and Test Equipment.

ALLIED ELECTRONICS Handy Reference Directory

ADHESIVES and EPOXIES

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Good-All	999	171
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# of Major Lines Always in Stock

FASTEST SERVICE

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The following lines are stocked in depth. OEM Price Limits vary by type (see pages 105-119).

Amperex	**National Union**
Dumont	**Penta**
Eimac	**RCA**
Electrons	**Raytheon**
GE	**Sylvania**
Machlett	**Thermosen**
Mullard	**Victoreen**
National Electronics	

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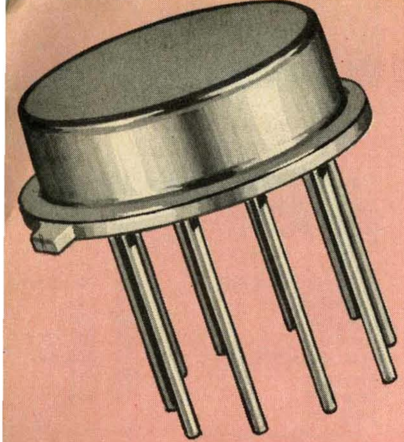
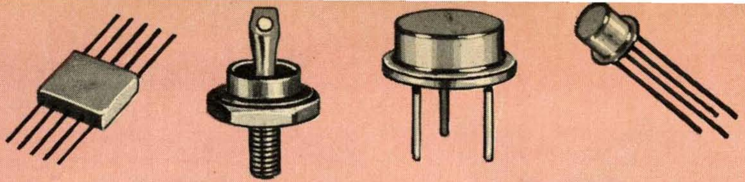
For Complete Manufacturer's Index SEE PAGES 542-544

SEE WHAT'S NEW





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Most types listed in the Directory are accompanied by a page number. This reference gives the location of the specific device in this Catalog, where you'll find useful descriptions and engineering parameters. It's another Allied convenience to assist you in ordering "exactly" what you want.

INTEGRATED CIRCUIT SECTION (PP. 31-33)

Features complete lines of integrated circuits from these leading manufacturers: RCA, Texas Instruments, Motorola, Sylvania, and General Electric Specs. pp. 34-42.

CALL YOUR MAN AT ALLIED FOR PROMPT SHIPMENT

He's an expert on your electronic needs, knows how to serve and advise you. He's backed by the world's most complete and up-to-the-minute stocks. He'll see that your order is shipped promptly at the lowest OEM prices in effect at time of shipment. There are 14 Allied facilities to serve you—see page facing inside front cover for locations, phone and TWX numbers.

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service, specify Department Number, Manufacturer's Type, and Name Key. Example: *49 D 32 1N3010 TI*. Note that Integrated Circuit Department Numbers differ from Semiconductor Department Numbers.

SEMICONDUCTORS

Dept. No.	Key	Manufacturer	Dept. No.	Key	Manufacturer
49 D 22	CO	Conant	49 D 1	RCA	Radio Corp. of America
49 D 3	GE	General Electric	49 D 30	SPR	Sprague
49 D 23	HUG	Hughes Aircraft	49 D 31	ST	Sarkes-Tarzian
49 D 24	IR	International Rectifier	49 D 12	SYL	Sylvania
49 D 36	IRC	Int. Resistance Co.	49 D 32	TI	Texas Instruments
49 D 25	MIC	Microwave Associates	49 D 33	TRW	Pacific Semiconductors,
49 D 26	MOT	Motorola			Thompson Ramo
49 D 37	NAT	National			Woolridge
49 D 29	OHM	Ohmite	49 D 34	VA	Varo

INTEGRATED CIRCUITS

Dept. No.	Key	Manufacturer	Dept. No.	Key	Manufacturer
50 D 3	GE	General Electric	50 D 12	SYL	Sylvania
50 D 26	MOT	Motorola	50 D 32	TI	Texas Instruments
50 D 1	RCA	Radio Corp. of America			

PAGE GUIDE TO ENGINEERING SPECS

We have included the most-often-asked-for specifications on most of the units listed in the Semiconductor and Integrated Circuit Directory.

All Semiconductor and Integrated Circuit Prices Are Billed At Lowest Price in Effect at Time of Shipment

INTEGRATED CIRCUIT ACCESSORIES

We have complete stocks of Augat integrated circuit sockets, breadboards, and test sockets and Cinch-Jones integrated circuit sockets. Augat sockets are listed on pages 290 and 315, Cinch-Jones sockets on page 295. T I sockets on page 89.

See Pages 31-33 in Directory for Integrated Circuits

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N21B	MIC	89	.68	.58	.53
1N21B	SYL	85	.68	.58	.53
1N21BR	MIC	89	1.02	.88	.81
1N21C	MIC	89	1.02	.88	.81
1N21C	SYL	85	1.02	.88	.81
1N21CR	MIC	89	1.41	1.22	1.12
1N21D	SYL	85	2.45	2.10	1.93
1N21E	MIC	89	4.20	3.60	3.30
1N21E	SYL	85	4.20	3.60	3.30
1N21F	MIC	89	8.10	6.90	6.35
1N21F	SYL	85	8.10	6.90	6.35
1N21G	SYL	85	12.60	10.80	9.90
1N21WE	SYL	85	5.25	4.50	4.15
1N21WE/JAN	SYL	..	5.25	4.50	4.15
1N23B	SYL	85	.67	.58	.54
1N23BR	MIC	89	1.02	.88	.81
1N23C	MIC	89	1.02	.88	.81
1N23C	SYL	85	1.02	.88	.81
1N23D	SYL	85	2.45	2.10	1.93
1N23E	MIC	89	4.20	3.60	3.30
1N23E	SYL	85	4.20	3.60	3.30
1N23ER	MIC	89	6.30	5.40	4.95
1N23F	MIC	89	8.10	6.90	6.35
1N23F	SYL	85	8.10	6.90	6.35
1N23G	SYL	85	12.60	10.80	9.90
1N23WE	MIC	89	5.25	4.50	4.15
1N23WE	SYL	85	5.25	4.50	4.15
1N23WE/JAN	SYL	..	5.25	4.50	4.15
1N23WEM	MIC	89	13.10	11.25	10.40
1N25	SYL	85	3.53	3.03	2.74
1N25/JAN	SYL	..	3.53	3.03	2.74
1N26	SYL	85	6.50	5.60	5.10
1N26A	SYL	..	7.75	6.60	6.05
1N26C	SYL	85	31.15	27.80	25.50
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1N34	OHM	85	.22	.22	.17
1N34A	OHM	85	.24	.24	.18
1N34A	SYL	84	.30	.30	.23
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1N38A	OHM	85	.50	.50	.38
1N38A	SYL	84	.49	.49	.38
1N38B	SYL	84	.49	.49	.38
1N48	OHM	85	.28	.28	.21
1N48	SYL	84	.30	.30	.20
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1N55A	SYL	84	.40	.31
1N56A	OHM	85	.38	.29
1N58A	SYL	84	.55	.41
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1N65	SYL	84	.48	.35
1N67A	GE	..	.32	.21
1N67A	IR	..	.40	.30
1N67A	SYL	84	.28	.21
1N68A	SYL	84	.28	.21
1N69	GE	..	.35	.23
1N69A	SYL	84	.30	.23
1N70	GE	..	.57	.38
1N70A	SYL	84	.48	.38

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1N78A	SYL	85	5.00	4.28	3.93
1N78AR	MIC	..	7.50	6.40	5.80
1N78B	SYL	85	7.00	6.00	5.50
1N78C	SYL	85	14.00	12.00	11.00
1N81A	SYL	84	.48	.48	.36
1N82A	SYL	85	.70	.70	.55
1N82A	GE	..	.87	.87	......
1N82AG	SYL	85	.91	.91	.71
1N87A	GE	..	.24	.24	.16
1N90	GE	..	.33	.33	.22
1N90	SYL	84	.33	.33	.22
1N91	GE	69	.90	.90	.60
1N91	MOT	..	.82	.82	.55
1N92	GE	69	1.95	1.95	1.30
1N92	MOT	..	1.95	1.95	1.30
1N93	GE	69	2.70	2.70	1.80
1N93	MOT	..	2.70	2.70	1.80
1N95	HUG	88	.50	.50	.33
1N96	HUG	88	.59	.59	.44

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N96A	HUG	88	.59	.44
1N98	SYL	84	.31	.24
1N99	OHM	85	.45	.34
1N99	SYL	84	.50	.39
1N100	OHM	85	.23	.19
1N100	SYL	84	.32	.27
1N115	SYL	84	.64	.50
1N116	GE	..	.54	.36
1N116	SYL	84	.49	.36
1N117	SYL	84	.51	.38
1N118	SYL	88	.23	.20
1N118A	HUG	88	.63	.47
1N126	SYL	..	.30	.24
1N126A	GE	..	.36	.24
1N127A	SYL	84	.42	.28
1N128	SYL	84	.32	.25

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N150	MIC	89	3.13	2.82	2.50
1N150R	MIC	89	4.70	4.23	3.76
1N151	GE	..	2.70	2.70	2.15
1N153	GE	..	4.45	4.45	3.55
1N158	GE	..	6.10	6.10	5.00
1N160	MIC	89	2.78	2.50	2.22

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N191	GE	..	.42	.28
1N191	OHM	85	.34	.26
1N191	SYL	84	.35	.28
1N192	SYL	84	.34	.26
1N198	OHM	85	.34	.26
1N198	SYL	84	.35	.28
1N198A	GE	..	.42	.28
1N198B	SYL	84	1.03	.78
1N248A	GE	..	1.65	1.10
1N248B	MOT	53	1.35	.90
1N248C	MOT	53	1.65	1.10
1N248C	RCA	75	1.65	1.10
1N248RC	RCA	75	1.65	1.10
1N249	GE	..	1.73	1.15
1N249A	GE	..	1.73	1.15
1N249B	MOT	53	1.72	1.15
1N249B/JAN	RCA	..	2.89	2.00
1N249C	MOT	53	2.02	1.35
1N249C	RCA	75	2.06	1.38
1N249RC	RCA	75	2.06	1.38
1N250B	MOT	53	2.45	1.65
1N250C	GE	70	2.78	1.85
1N250C	MOT	53	2.75	1.85
1N250C	RCA	75	2.72	1.82
1N250RC	RCA	75	2.72	1.82
1N251	GE	68	.65	.43
1N251	SYL	84	.65	.43
1N251	TI	63	.65	.43
1N251/JAN	SYL	..	.72	.48
1N252	SYL	84	.65	.43
1N253	GE	..	1.05	.70
1N253	TI	59	1.05	.70
1N253R	TI	59	1.05	.70
1N254	TI	59	1.12	.75
1N255	TI	59	1.58	1.05
1N255R	TI	59	1.72	1.15
1N256	TI	59	2.16	1.44
1N270	OHM	85	.31	.23
1N270	SYL	84	.32	.25
1N270	SYL	84	1M-5M Ea.	.11
1N270/JAN	SYL	..	.32	.25
1N273	HUG	88	.68	.51
1N276	OHM	85	.31	.23
1N276	SYL	84	.31	.24
1N277	OHM	85	.34	.26
1N277	SYL	84	.34	.26
1N277	SYL	84	1M-5M Ea.	.14
1N279	GE	..	.33	.22
1N279	SYL	84	.29	.22
1N281	GE	..	.36	.24
1N281	SYL	84	.31	.24
1N281	SYL	84	1M-5M Ea.	.14
1N283	SYL	84	.51	.40

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1M-5M
1N292	HUG	..	.60	.45	......
1N294	SYL	84	.34	.26	.15
1N295	GE	..	.41	.27	......
1N295	SYL	84	.35	.27	.15
1N295A	GE	..	.41	.27	......
1N315	GE	69	3.00	2.00	......
1N332	TI	..	1.72	1.15	......
1N333	TI	..	1.72	1.15	......

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N334	TI	..	1.42	.95
1N335	TI	..	1.42	.95
1N336	TI	..	1.12	.75
1N337	TI	..	1.12	.75
1N338	TI	..	1.05	.70
1N339	TI	..	1.05	.70
1N340	TI	..	1.05	.70

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 1N3010 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N341	TI	..	1.72	1.15
1N342	TI	..	1.72	1.15
1N343	TI	..	1.42	.95
1N344	TI	..	1.42	.95
1N345	TI	..	1.12	.75
1N346	TI	..	1.12	.75
1N347	TI	..	1.05	.70
1N348	TI	..	1.05	.70
1N349	TI	..	1.05	.70

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N358A	SYL	85	19.25	16.50	15.15
1N415E	MIC	89	4.20	3.60	3.30
1N415G	SYL	85	12.60	10.80	9.90
1N416E	MIC	89	4.20	3.60	3.30
1N416G	SYL	85	12.60	10.80	9.90

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N429	IR	..	5.00	4.10
1N429	MOT	54	5.45	4.10
1N429/JAN	MOT	..	7.30	5.50
1N430	IR	..	15.50	12.40
1N430A	IR	..	23.20	19.95
1N440B	GE	69	.66	.44
1N440B	RCA	74	.66	.44
1N440B	TI	..	.66	.44
1N441B	GE	69	.69	.46
1N441B	RCA	74	.70	.47
1N441B	TI	..	.69	.46
1N442B	GE	69	.79	.53
1N442B	RCA	74	.80	.53
1N442B	TI	..	.79	.53
1N443B	GE	69	.98	.65
1N443B	RCA	74	.98	.65
1N443B	TI	..	.97	.65
1N444B	GE	69	1.05	.70
1N444B	RCA	74	1.06	.71
1N444B	TI	..	1.05	.70
1N445B	GE	69	1.43	.95
1N445B	RCA	74	1.42	.95
1N445B	TI	..	1.42	.95
1N456	SYL	84	.42	.28
1N456	SYL	84	1M-5M Ea.	.18
1N456A	SYL	84	.42	.28
1N456A	SYL	84	1M-5M Ea.	.18
1N457	SYL	84	.45	.30
1N457	SYL	84	1M-5M Ea.	.19
1N457/JAN	SYL	..	.45	.30
1N457A	SYL	84	.45	.30
1N457A	SYL	84	1M-5M Ea.	.19
1N458	SYL	84	.48	.32
1N458	SYL	81	1M-5M Ea.	.21
1N458/JAN	SYL	..	.48	.32
1N458A	SYL	84	.48	.32
1N458A	SYL	84	1M-5M Ea.	.21
1N459	SYL	84	.51	.34
1N459	SYL	84	1M-5M Ea.	.21
1N459/JAN	SYL	..	.51	.34
1N459A	SYL	84	.51	.34
1N459A	SYL	84	1M-5M Ea.	.21
1N461	SYL	84	.42	.28
1N461	SYL	84	1M-5M Ea.	.18
1N461A	SYL	84	.42	.28
1N461A	SYL	84	1M-5M Ea.	.18
1N462	SYL	84	.44	.2[illegible]

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N462	SYL	84	1M-5M Ea.	.19
1N462A	SYL	84	.44	.29
1N462A	SYL	84	1M-5M Ea.	.19
1N463	SYL	84	.54	.36
1N463	SYL	84	1M-5M Ea.	.22
1N463	TI	62	.46	.36
1N463A	SYL	84	.54	.36
1N463A	SYL	84	1M-5M Ea.	.22
1N464	SYL	84	.53	.35
1N464	SYL	84	1M-5M Ea.	.21
1N464	TI	62	.45	.35
1N464A	SYL	84	.53	.35
1N464A	SYL	84	1M-5M Ea.	.21
1N465	HUG	88	3.00	2.25
1N465A	HUG	88	3.50	2.60
1N466	HUG	88	3.00	2.25
1N466A	HUG	88	3.50	2.60
1N467	HUG	88	3.00	2.25
1N467A	HUG	88	3.50	2.60
1N468	HUG	88	3.00	2.25
1N468A	HUG	88	3.50	2.60
1N469	HUG	88	3.00	2.25
1N469A	HUG	88	3.50	2.60
1N470	HUG	88	3.00	2.25
1N470A	HUG	88	3.50	2.60
1N482	SYL	84	.66	.44
1N482	SYL	84	1M-5M Ea.	.19
1N482A	SYL	84	.69	.46
1N482A	SYL	84	1M-5M Ea.	.19
1N482B	SYL	84	.69	.46
1N482B	SYL	84	1M-5M Ea.	.19
1N482B	TI	62	.59	.46
1N483	SYL	84	.70	.47
1N483	SYL	84	1M-5M Ea.	.19
1N483A	SYL	84	.70	.47
1N483A	SYL	84	1M-5M Ea.	.19
1N483B	SYL	84	.70	.47
1N483B	SYL	84	1M-5M Ea.	.19
1N484	SYL	84	.70	.47
1N484	SYL	84	1M-5M Ea.	.22
1N484A	SYL	84	.70	.47
1N484A	SYL	84	1M-5M Ea.	.22
1N484B	SYL	84	.70	.47
1N484B	SYL	84	1M-5M Ea.	.22
1N484B	TI	62	.71	.55
1N485	SYL	84	.90	.60
1N485	SYL	84	1M-5M Ea.	.24
1N485A	SYL	84	.90	.60
1N485A	SYL	84	1M-5M Ea.	.24
1N485B	SYL	84	.90	.60
1N485B	SYL	84	1M-5M Ea.	.24
1N485B	TI	62	.86	.60
1N486A	SYL	84	.90	.60
1N486A	SYL	84	1M-5M Ea.	.26
1N486B	SYL	84	.90	.60
1N486B	SYL	84	1M-5M Ea.	.26
1N486B	TI	62	1.25	.98
1N487	SYL	84	1.05	.70
1N487	SYL	84	1M-5M Ea.	.35
1N487A	SYL	84	1.41	.94
1N487A	SYL	84	1M-5M Ea.	.38
1N488	SYL	84	1.17	.78
1N488	SYL	84	1M-5M Ea.	.45
1N488	TI	62	2.50	1.95
1N488A	SYL	84	1.78	1.19
1N488A	SYL	84	1M-5M Ea.	.49
1N497	OHM	85	.38	.29
1N497	SYL	84	.39	.30
1N498	SYL	84	.44	.35
1N500	SYL	84	.53	.41
1N530	TI	..	Use 1N4364	
1N531	TI	..	Use 1N4365	
1N532	TI	..	Use 1N4366	
1N533	TI	..	Use 1N4367	
1N534	TI	..	Use 1N4368	
1N535	TI	..	Use 1N4369	
1N536	GE	69	.45	.30
1N536	RCA	74	.45	.30
1N536	TI	59	.45	.30
1N537	GE	69	.50	.33
1N537	RCA	74	.50	.33
1N537	TI	59	.49	.33
1N538	GE	69	.53	.35
1N538/JAN	GE	..	.72	.48
1N538	RCA	74	.53	.36
1N538	TI	59	.52	.35
1N539	GE	69	.60	.40
1N539	RCA	74	.60	.40
1N539	TI	59	.60	.40
1N540	GE	69	.68	.45
1N540/JAN	GE	..	.90	.60
1N540	RCA	74	.68	.46
1N540	TI	59	.67	.45
1N541	GE	..	.30	.20
1N541	IR	..	.40	.30
1N542	GE	..	.62	.41
1N547	GE	69	.96	.64
1N547/JAN	GE	..	1.28	.85
1N547	RCA	74	.96	.64
1N547	TI	59	.96	.64
1N550	TI	..	1.05	.70
1N551	TI	..	1.12	.75

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N552	TI	..	1.42	.95
1N553	TI	..	1.72	1.15
1N554	TI	..	1.80	1.20
1N555	TI	..	2.40	1.60
1N560	GE	69	1.80	1.20
1N560	TI	59	1.50	1.00
1N561	TI	59	2.70	1.80
1N588	TI	59	6.30	4.25
1N589	TI	59	6.30	4.25
1N597	IR	..	6.00	......
1N599	GE	..	.47	.31
1N599A	GE	..	.54	.36
1N600	GE	..	.49	.33
1N600A	GE	..	.63	.42
1N601	GE	..	.52	.35
1N602	GE	..	.52	.35
1N602A	GE	..	.66	.44
1N603	GE	..	.60	.40
1N603A	GE	..	.66	.44
1N604	GE	..	.67	.45
1N605	GE	..	.76	.51
1N605A	GE	..	1.43	.95
1N606	GE	..	.96	.64
1N607A	TI	..	1.00	.67
1N609A	TI	..	1.05	.70
1N610	GE	..	1.12	.75
1N611A	TI	..	1.42	.95
1N613A	TI	..	1.80	1.20
1N625	SYL	84	.43	.29
1N625	TI	63	.43	.29
1N626	SYL	84	.45	.30
1N626	TI	63	.43	.30
1N627	SYL	84	.60	.39
1N627	TI	63	.72	.47
1N628	SYL	84	.72	.47
1N628	TI	63	.72	.47
1N629	SYL	84	.81	.54
1N629	TI	63	.86	.55
1N634	SYL	84	.52	.41
1N636	SYL	..	.37	.26
1N643	TI	63	1.33	1.00
1N643/USA	TI	..	2.20	1.62
1N643A	SYL	84	1.50	1.00
1N645	GE	69	1.40	.93
1N645/JAN	GE	..	2.40	1.60
1N645	TRW	87	1.40	.85
1N645	TI	63	1.40	.85
1N645A	GE	69	1.65	1.10
1N645A	TI	63	1.65	1.10
1N645/JAN	TRW	..	2.07	1.33
1N646	GE	69	1.65	1.10
1N646	TI	63	1.65	1.10
1N647	GE	69	1.80	1.20
1N647/JAN	GE	..	4.05	2.70
1N647	TI	63	1.80	1.20
1N647	TRW	87	1.80	1.20
1N647/JAN	TRW	..	3.95	2.65
1N648	GE	69	1.95	1.30
1N648	TI	63	1.95	1.30
1N649	GE	69	2.50	1.65
1N649/JAN	GE	..	5.25	3.50
1N649	TI	63	2.50	1.65
1N649	TRW	87	2.50	1.65
1N649/JAN	TRW	..	5.20	3.45
1N658	SYL	84	1.76	1.20
1N658	TI	63	1.75	1.20
1N659	SYL	84	.58	.39
1N659	TI	63	.58	.39
1N660	TI	63	.69	.46
1N661	TI	63	1.75	1.30
1N662	SYL	84	.92	.44
1N662	TI	63	.66	.44
1N662A	HUG	88	1.96	1.47
1N663	SYL	84	1.20	.80
1N663	TI	63	1.20	.80
1N676	GE	..	.93	.62
1N677	GE	69	1.05	.70
1N678	GE	..	1.23	.82
1N682	GE	69	1.65	1.10
1N684	GE	69	1.88	1.25
1N686	GE	69	2.25	1.50
1N687	GE	..	2.40	1.60
1N689	GE	69	2.50	1.65
1N695	SYL	84	.30	.24
1N695A	HUG	88	.98	.74

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100 Ass't	EACH 100-999
1N702	IR	82	1.50	1.38	1.25
1N702	TI	62	2.10	......	1.60
1N702	TRW	..	2.00	......	1.50
1N702A	IR	82	1.75	1.63	1.50
1N702A	TI	62	2.80	......	2.10
1N703	IR	82	1.50	1.38	1.25
1N703	TI	62	2.10	......	1.60
1N703A	IR	82	1.75	1.63	1.50
1N703A	TI	62	2.80	......	2.10
1N704	IR	82	1.50	1.38	1.25
1N704	TI	62	2.10	......	1.60
1N704A	IR	82	1.75	1.63	1.50
1N704A	TI	62	2.80	......	2.10
1N705	IR	82	1.50	1.38	1.25
1N705	TI	62	2.10	......	1.60
1N705A	IR	82	1.75	1.63	1.50
1N705A	TI	62	2.80	......	2.10
1N706	IR	82	1.50	1.38	1.25
1N706	TI	62	2.10	......	1.60
1N706A	IR	82	1.75	1.63	1.50
1N706A	TI	62	2.80	......	2.10
1N707	IR	82	1.50	1.38	1.25
1N707	TI	62	2.10	......	1.60
1N707A	IR	82	1.75	1.63	1.50
1N707A	TI	62	2.80	......	2.10
1N708	IR	82	1.50	1.38	1.25
1N708A	IR	82	1.75	1.63	1.50

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
1N709	IR	82	1.50	1.50	1.25
1N709	IR	82	100-Ass't. Ea.		1.38
1N709	TI	62	2.10	2.10	1.60
1N709A	IR	82	1.75	1.75	1.50
1N709A	IR	82	100-Ass't. Ea.		1.63
1N709A	TI	62	2.80	2.80	2.10
1N710	IR	82	1.50	1.50	1.25
1N710	IR	82	100-Ass't. Ea.		1.38
1N710	TI	62	2.10	2.10	1.60
1N710A	IR	82	1.75	1.75	1.50
1N710A	IR	82	100-Ass't. Ea.		1.63
1N710A	TI	62	2.80	2.80	2.10
1N711	IR	82	1.50	1.50	1.25
1N711	IR	82	100-Ass't. Ea.		1.38
1N711	TI	62	2.10	2.10	1.60
1N711A	IR	82	1.75	1.75	1.50
1N711A	IR	82	100-Ass't. Ea.		1.63
1N711A	TI	62	2.80	2.80	2.10
1N712	IR	82	1.50	1.50	1.25
1N712	IR	82	100-Ass't. Ea.		1.38
1N712	TI	62	2.10	2.10	1.60
1N712A	IR	82	1.75	1.75	1.50
1N712A	IR	82	100-Ass't. Ea.		1.63
1N712A	TI	62	2.80	2.80	2.10
1N713	IR	82	1.50	1.50	1.25
1N713	IR	82	100-Ass't. Ea.		1.30
1N713	TI	62	2.10	2.10	1.60
1N713A	IR	82	1.75	1.75	1.50
1N713A	IR	82	100-Ass't. Ea.		1.63
1N713A	TI	62	2.80	2.80	2.10
1N714	IR	82	1.50	1.50	1.25
1N714	IR	82	100-Ass't. Ea.		1.38
1N714	TI	62	2.10	2.10	1.60
1N714A	IR	82	1.75	1.75	1.50
1N714A	IR	82	100-Ass't. Ea.		1.63
1N714A	TI	62	2.80	2.80	2.10
1N715	IR	82	1.50	1.50	1.25
1N715	IR	82	100-Ass't. Ea.		1.38
1N715	TI	62	2.10	2.10	1.60
1N715A	IR	82	1.75	1.75	1.50
1N715A	IR	82	100-Ass't. Ea.		1.63
1N715A	TI	62	2.80	2.80	2.10
1N716	TI	62	2.10	2.10	1.60
1N716A	TI	62	2.80	2.80	2.10
1N717	TI	62	2.35	2.35	1.75
1N717A	TI	62	2.95	2.95	2.20
1N718	IR	82	1.50	1.50	1.25
1N718	IR	82	100-Ass't Ea.		1.38
1N718	TI	62	2.35	2.35	1.75
1N718A	IR	82	1.75	1.75	1.50
1N718A	IR	82	100-Ass't. Ea.		1.63
1N718A	TI	62	2.95	2.95	2.20
1N719	TI	62	2.35	2.35	1.75
1N719A	TI	62	2.95	2.95	2.20
1N720	TI	62	2.35	2.35	1.75
1N720	TRW	..	2.00	2.00	1.50
1N720A	TI	62	2.95	2.95	2.20
1N720A	TRW	..	2.70	2.70	2.05
1N721	IR	82	1.50	1.50	1.25
1N721	IR	82	100-Ass't. Ea.		1.38
1N721	TI	62	2.35	2.35	1.75
1N721A	IR	82	1.75	1.75	1.50
1N721A	IR	82	100-Ass't. Ea.		1.63
1N721A	TI	62	2.95	2.95	2.20
1N722	IR	82	1.50	1.50	1.25
1N722	IR	82	100-Ass't. Ea.		1.38
1N722	TI	62	2.35	2.35	1.75
1N722A	IR	82	1.75	1.75	1.50
1N722A	IR	82	100-Ass't. Ea.		1.63
1N722A	TI	62	2.95	2.95	2.20
1N723	IR	82	1.50	1.50	1.25
1N723	IR	82	100-Ass't. Ea.		1.38
1N723	TI	62	2.35	2.35	1.75
1N723A	IR	82	1.75	1.75	1.50
1N723A	IR	82	100-Ass't. Ea.		1.63
1N723A	TI	62	2.95	2.95	2.20
1N724	TI	62	2.35	2.35	1.75
1N724A	TI	62	2.95	2.95	2.20
1N724A	TRW	..	2.70	2.70	2.05
1N725	TI	62	2.35	2.35	1.75
1N725A	TI	62	2.95	2.95	2.20
1N726	TI	62	2.35	2.35	1.75
1N726A	ST	..	2.25	1.93	1.80
1N726A	TI	62	2.95	2.95	2.20
1N727A	TRW	..	2.70	2.70	2.05

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N746	IR	82	1.50	1.38	1.25
1N746	MOT	43	2.00	1.70	1.50
1N746	TI	62	1.50	......	1.10
1N746A	IR	82	1.75	1.63	1.50
1N746A	MOT	43	2.75	2.35	2.05
1N746A	TI	62	2.05	......	1.51
1N747	IR	82	1.50	1.38	1.25
1N747	MOT	43	2.00	1.70	1.50
1N747	TI	62	1.50	......	1.10
1N747A	IR	82	1.75	1.63	1.50
1N747A	MOT	43	2.75	2.35	2.05
1N747A	TI	62	2.05	......	1.51
1N748	IR	82	1.50	1.38	1.25
1N748	MOT	43	2.00	1.70	1.50
1N748	TI	62	1.50	......	1.10
1N748A	IR	82	1.75	1.63	1.50
1N748A	MOT	43	2.75	2.35	2.05
1N748A	TI	62	2.05	......	1.51
1N749	IR	82	1.50	1.38	1.25
1N749	MOT	43	2.00	1.70	1.50
1N749	TI	62	1.50	......	1.10
1N749A	IR	82	1.75	1.63	1.50
1N749A	MOT	43	2.75	2.35	2.05
1N749A	TI	62	2.05	....	1.51
1N749A/JAN	TI	..	2.15	....	1.65
1N750	IR	82	1.50	1.38	1.25
1N750	MOT	43	2.00	1.70	1.50
1N750	TI	62	1.50	....	1.10
1N750A	IR	82	1.75	1.63	1.50
1N750A	MOT	43	2.75	2.35	2.05
1N750A	TI	62	2.05	....	1.51
1N751	IR	82	1.50	1.38	1.25
1N751	MOT	43	2.00	1.70	1.50
1N751	TI	62	1.50	......	1.10
1N751A	IR	82	1.75	1.63	1.50
1N751A	MOT	43	2.75	2.35	2.05
1N751A	TI	62	2.05	......	1.51
1N752	IR	..	1.50	1.38	1.25
1N752	MOT	43	2.00	1.70	1.50
1N752	TI	62	1.50	......	1.10
1N752A	IR	82	1.75	1.63	1.50
1N752A	MOT	42	2.75	2.35	2.05
1N752A	TI	62	2.05	....	1.51
1N753	IR	82	1.50	1.38	1.25
1N753	MOT	43	2.00	1.70	1.50
1N753	TI	62	1.50	....	1.10
1N753A	IR	82	1.75	1.63	1.50
1N753A	MOT	43	2.75	2.35	2.05
1N753A/USN	MOT	..	2.95	2.55	2.20
1N753A	TI	62	2.05	....	1.51
1N754	IR	82	1.50	1.38	1.25
1N754	MOT	43	2.00	1.70	1.50
1N754	TI	62	1.50	....	1.10
1N754A	IR	82	1.75	1.63	1.50
1N754A	MOT	43	2.75	2.35	2.05
1N754A	TI	62	2.05	....	1.51
1N755	IR	82	1.50	1.38	1.25
1N755	MOT	43	2.00	1.70	1.50
1N755	TI	62	1.50	....	1.10
1N755A	IR	82	1.75	1.63	1.50
1N755A	MOT	43	2.75	2.35	2.05
1N755A	TI	62	2.05	....	1.51
1N756	IR	82	1.50	1.38	1.25
1N756	MOT	43	2.00	1.70	1.50
1N756	TI	62	1.50	....	1.10
1N756A	IR	82	1.75	1.63	1.50
1N756A	MOT	43	2.75	2.35	2.05
1N756A/USN	MOT	..	2.95	2.55	2.20
1N756A	TI	62	2.05	....	1.51
1N757	IR	82	1.50	1.38	1.25
1N757	MOT	43	2.00	1.70	1.50
1N757	TI	62	1.50	....	1.10
1N757A	IR	82	1.75	1.63	1.50
1N757A	MOT	43	2.75	2.35	2.05
1N757A	TI	62	2.05	....	1.51
1N758	IR	82	1.50	1.38	1.25
1N758	MOT	43	2.00	1.70	1.50
1N758	TI	62	1.50	....	1.10
1N758A	IR	82	1.75	1.63	1.50
1N758A	MOT	43	2.75	2.35	2.05
1N758A	TI	62	2.05	....	1.51
1N759	IR	82	1.50	1.38	1.25
1N759	MOT	43	2.00	1.70	1.50
1N759	TI	62	1.50	....	1.10
1N759A	IR	82	1.75	1.63	1.50
1N759A	MOT	43	2.75	2.35	2.05
1N759A	TI	62	2.05	....	1.51

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N761	TI	62	1.90	1.40
1N762	TI	62	1.90	1.40
1N763	TI	62	1.90	1.40
1N763	TRW	..	2.00	1.50
1N764	TI	62	1.90	1.40
1N765	TI	62	1.90	1.40
1N766	TI	62	1.90	1.40
1N767	HUG	..	1.98	1.49
1N767	TI	62	2.10	1.60
1N768	HUG	..	1.98	1.49
1N768	TI	62	2.10	1.60
1N769	HUG	..	1.87	1.40
1N769	TI	62	2.10	1.60
1N770	SYL	84	.48	.38
1N811	GE	68	.82	.54
1N812	GE	68	1.18	.79
1N813	GE	..	1.05	.70
1N814	GE	..	.80	.53
1N815	GE	..	.80	.53
1N816	SYL	84	.52	.35

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
*10 per type, 100 total per order					
1N821	IR	82	3.45	3.45	2.30
1N821	IR	82	*100 Ass't Ea.		2.85
1N821	MOT	54	2.75	2.35	1.90
1N821	MOT	54	*100 Ass't Ea.		2.10
1N821	TRW	87	3.50	3.10	2.35
1N821A	MOT	54	3.05	2.60	2.10
1N821A	MOT	54	*100 Ass't Ea.		2.30
1N821A/JAN	MOT	..	2.95	2.55	2.05
1N821A/JAN	MOT	..	*100 Ass't Ea.		2.25
1N821A	TRW	87	4.40	3.85	3.10
1N823	IR	82	4.60	4.60	3.05
1N823	IR	82	*100 Ass't Ea.		3.80
1N823	MOT	54	3.60	3.10	2.50
1N823	MOT	54	*100 Ass't Ea.		2.75
1N823	TRW	87	4.00	3.50	3.00
1N823A	MOT	54	3.90	3.35	2.70
1N823A	MOT	54	*100 Ass't Ea.		2.95
1N823A/JAN	MOT	..	4.35	3.75	3.00
1N823A/JAN	MOT	..	*100 Ass't Ea.		3.30
1N823A	TRW	87	6.00	5.25	4.50
1N825	IR	82	6.10	6.10	4.05
1N825	IR	82	*100 Ass't Ea.		5.05
1N825	MOT	54	5.80	5.00	4.00
1N825	MOT	54	*100 Ass't Ea.		4.40
1N825	TRW	87	6.40	5.60	4.80
1N825A	MOT	54	6.50	5.60	4.50
1N825A	MOT	54	*100 Ass't Ea.		4.95
1N825A/JAN	MOT	..	7.10	6.10	4.90
1N825A/JAN	MOT	..	*100 Ass't Ea.		5.40
1N825A	TRW	87	9.00	7.90	6.75
1N827	IR	82	10.00	10.00	7.50
1N827	IR	82	*100 Ass't Ea.		8.75
1N827	MOT	54	10.85	9.35	7.50
1N827	MOT	54	*100 Ass't Ea.		8.25
1N827	TRW	87	12.25	10.70	9.20
1N827/USN	MOT	..	14.50	12.50	10.00
1N827/USN	MOT	..	*100 Ass't Ea.		11.00
1N827A	MOT	54	13.05	11.25	9.00
1N827A	MOT	54	*100 Ass't Ea.		9.90
1N827A	TRW	87	16.30	14.25	13.75
1N829	MOT	54	16.30	14.05	11.25
1N829	MOT	54	*100 Ass't Ea.		12.35
1N829	TRW	87	25.00	23.50	22.00
1N829/USN	MOT	..	28.25	24.35	19.50
1N829/USN	MOT	..	*100 Ass't Ea.		21.45
1N829A	MOT	54	19.55	16.85	13.50
1N829A	MOT	54	*100 Ass't Ea.		14.85
1N829A	TRW	87	36.55	35.00	34.00

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N830A	SYL	85	3.85	3.30	3.00
1N831	SYL	85	6.85	5.87	5.40
1N833A	MIC	..	13.95	11.95	10.95
1N833A	SYL	..	13.95	11.95	10.95
1N891	GE	..	1.32	1.32	.88
1N903	GE	68	1.02	1.02	.68
1N903A	GE	68	1.17	1.17	.78
1N903A	SYL	84	1.02	1.02	.68
1N904	GE	68	.99	.99	.66
1N904	HUG	88	1.33	1.33	1.00
1N904A	GE	68	1.14	1.14	.76
1N904A	HUG	88	1.40	1.40	1.05
1N905	GE	68	1.14	1.14	.76
1N905A	GE	68	1.55	1.55	1.09
1N905A	SYL	84	1.55	1.55	1.09
1N906	GE	68	.90	.90	.60
1N906	SYL	84	.90	.90	.60
1N906A	GE	68	1.13	1.13	.75
1N906A	SYL	84	1.13	1.13	.75
1N907	GE	68	.89	.89	.59
1N907A	GE	68	1.52	1.52	1.01
1N907A	HUG	88	1.12	1.12	.84
1N908	GE	68	.87	.87	.58
1N908A	SYL	84	1.02	1.02	.68
1N914	GE	68	.45	.45	.30
1N914	SYL	84	.45	.45	.30
1N914	TI	63	.45	.45	.30
1N914/JAN	TI	..	.45	.45	.30
1N914/JAN	GE	..	.45	.45	.30
1N914A	GE	68	.50	.50	.33
1N914A	SYL	84	.50	.50	.33
1N914A	TI	63	.50	.50	.33
1N914B	GE	68	1.35	1.35	.90
1N914B	HUG	88	2.45	2.45	1.84
1N914B	SYL	84	1.35	1.35	.90
1N914B	TI	63	1.35	1.35	.90
1N915	TI	63	.95	.95	.60
1N916	GE	68	.67	.67	.44
1N916	TI	63	.67	.67	.44
1N916A	GE	68	.75	.75	.50
1N916A	SYL	84	.75	.75	.50
1N916A	TI	63	.75	.75	.50
1N916B	GE	68	.92	.92	.61
1N916B	SYL	84	.92	.92	.61
1N916B	TI	63	.92	.92	.61
1N917	GE	68	2.05	2.05	1.73
1N917	TI	63	2.05	2.05	1.37

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
*10 per type, 100 total per order					
1N935	MOT	54	2.30	2.00	1.60
1N935	MOT	54	*100 Ass't Ea.		1.75
1N935A	MOT	54	2.60	2.25	1.80
1N935A	MOT	54	*100 Ass't Ea.		2.00

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 26 1N3010 MOT

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
*10 per type, 100 total per order					
1N935B	MOT	54	3.55	3.05	2.45
1N935B	MOT	54	*100 Ass't Ea.		2.70
1N935B/USN	MOT	..	5.30	4.55	3.65
1N935B/USN	MOT	..	*100 Ass't Ea.		4.00
1N936	MOT	54	2.75	2.35	1.90
1N936	MOT	54	*100 Ass't Ea.		2.10
1N936A	MOT	54	3.55	3.05	2.45
1N936A	MOT	54	*100 Ass't Ea.		2.70
1N936B	MOT	54	4.20	3.60	2.90
1N936B	MOT	54	*100 Ass't Ea.		3.20
1N937	MOT	54	5.35	4.60	3.70
1N937	MOT	54	*100 Ass't Ea.		4.05
1N937A	MOT	54	6.15	5.30	4.25
1N937A	MOT	54	*100 Ass't Ea.		4.65
1N937B	MOT	54	7.10	6.10	4.90
1N937B	MOT	54	*100 Ass't Ea.		5.40
1N937B/USN	MOT	..	9.30	8.00	6.40
1N937B/USN	MOT	..	*100 Ass't Ea.		7.05
1N938	MOT	54	6.95	6.00	4.80
1N938	MOT	54	*100 Ass't Ea.		5.30
1N938A	MOT	54	7.65	6.50	5.20
1N938A	MOT	54	*100 Ass't Ea.		5.70
1N938B	MOT	54	10.00	8.60	6.90
1N938B	MOT	54	*100 Ass't Ea.		7.60
1N938B/USN	MOT	..	13.35	11.75	9.40
1N938B/USN	MOT	..	*100 Ass't Ea.		10.35
1N939	MOT	54	18.00	15.50	12.40
1N939	MOT	54	*100 Ass't Ea.		13.65
1N939A	MOT	54	18.00	15.50	12.40
1N939A	MOT	54	*100 Ass't Ea.		13.65
1N939B	MOT	54	27.35	23.55	18.85
1N939B	MOT	54	*100 Ass't Ea.		20.75
1N939B/JAN	MOT	..	29.80	26.70	21.35
1N939B/JAN	MOT	..	*100 Ass't Ea.		23.50
1N941	MOT	54	3.20	2.75	2.20
1N941	MOT	54	*100 Ass't Ea.		2.40
1N941A	MOT	54	3.40	2.90	2.34
1N941A	MOT	54	*100 Ass't Ea.		2.55
1N941B	MOT	54	3.60	3.10	2.50
1N941B	MOT	54	*100 Ass't Ea.		2.75
1N941B/USN	MOT	..	7.45	6.70	5.35
1N941B/USN	MOT	..	*100 Ass't Ea.		5.90
1N942	MOT	54	3.50	3.00	2.40
1N942	MOT	54	*100 Ass't Ea.		2.65
1N942A	MOT	54	4.35	3.75	3.00
1N942A	MOT	54	*100 Ass't Ea.		3.30
1N942B	MOT	54	4.95	4.25	3.40
1N942B	MOT	54	*100 Ass't Ea.		3.75
1N943	MOT	54	6.90	5.95	4.75
1N943	MOT	54	*100 Ass't Ea.		5.20
1N943A	MOT	54	6.95	6.00	4.80
1N943A	MOT	54	*100 Ass't Ea.		5.30
1N943B	MOT	54	7.15	6.20	4.95
1N943B	MOT	54	*100 Ass't Ea.		5.30
1N943B/USN	MOT	..	12.80	11.55	9.25
1N943B/USN	MOT	..	*100 Ass't Ea.		10.15
1N944	MOT	54	10.15	8.75	7.00
1N944	MOT	54	*100 Ass't Ea.		7.70
1N944A	MOT	54	13.05	11.25	9.00
1N944A	MOT	54	*100 Ass't Ea.		9.90
1N944B	MOT	54	17.30	14.95	11.95
1N944B	MOT	54	*100 Ass't Ea.		13.13
1N944B/USN	MOT	..	17.30	15.60	12.50
1N944B/USN	MOT	..	*100 Ass't Ea.		13.75
1N945	MOT	54	26.70	23.00	18.40
1N945	MOT	54	*100 Ass't Ea.		20.25
1N945A	MOT	54	36.40	31.35	25.10
1N945A	MOT	54	*100 Ass't Ea.		27.60
1N945B	MOT	54	40.90	35.25	28.20
1N945B	MOT	54	*100 Ass't Ea.		31.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N950	HUG	88	12.00	9.00
1N951	HUG	88	12.00	9.00

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N952	HUG	88	6.00	4.50
1N953	HUG	88	4.50	3.25
1N954	HUG	88	3.00	2.25
1N955	HUG	88	3.00	2.25
1N956	HUG	88	3.50	2.50

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	EACH *100 Ass't	EACH 100-999
1N957	IR	82	1.40	1.28	1.15
1N957	MOT	43	2.15	1.85	1.60
1N957A	IR	82	1.50	1.38	1.25
1N957A	MOT	43	2.35	2.00	1.75
1N957B	IR	82	1.75	1.63	1.50
1N957B	MOT	43	2.95	2.55	2.20
1N957B	TI	62	1.70	....	1.20
1N958	IR	82	1.40	1.28	1.15
1N958	MOT	43	2.15	1.85	1.60
1N958A	IR	82	1.50	1.38	1.25
1N958A	MOT	43	2.35	2.00	1.75
1N958B	IR	82	1.75	1.63	1.50
1N958B	MOT	43	2.95	2.55	2.20
1N958B	TI	62	1.70	....	1.20
1N959	IR	82	1.40	1.28	1.15
1N959	MOT	43	2.15	1.85	1.60
1N959A	IR	82	1.50	1.38	1.25
1N959A	MOT	43	2.35	2.00	1.75
1N959B	IR	82	1.75	1.63	1.50
1N959B	MOT	43	2.95	2.55	2.20
1N959B	TI	62	1.70	....	1.20
1N960	IR	82	1.40	1.28	1.15
1N960	MOT	43	2.15	1.85	1.60
1N960A	IR	82	1.50	1.30	1.25
1N960A	MOT	43	2.35	2.00	1.75
1N960B	IR	82	1.75	1.63	1.50
1N960B	MOT	43	2.95	2.55	2.20
1N960B	TI	62	1.70	....	1.20
1N961	IR	82	1.40	1.28	1.15
1N961	MOT	43	2.15	1.85	1.60
1N961A	IR	82	1.50	1.38	1.25
1N961A	MOT	43	2.35	2.00	1.75
1N961B	IR	82	1.75	1.63	1.50
1N961B	MOT	43	2.95	2.55	2.20
1N961B	TI	62	1.70	....	1.20
1N962	IR	82	1.40	1.28	1.15
1N962	MOT	43	2.15	1.85	1.60
1N962A	IR	82	1.50	1.38	1.25
1N962A	MOT	43	2.35	2.00	1.75
1N962B	IR	82	1.75	1.63	1.50
1N962B	MOT	43	2.95	2.55	2.20
1N962B	TI	62	1.70	....	1.20
1N963	IR	82	1.40	1.28	1.15
1N963	MOT	43	2.15	1.85	1.60
1N963A	IR	82	1.50	1.38	1.25
1N963A	MOT	43	2.35	2.00	1.75
1N963B	IR	82	1.75	1.63	1.50
1N963B	MOT	43	2.95	2.55	2.20
1N963B	TI	62	1.70	....	1.20
1N964	IR	82	1.40	1.28	1.15
1N964	MOT	43	2.15	1.85	1.60
1N964A	IR	82	1.50	1.38	1.25
1N964A	MOT	43	2.35	2.00	1.75
1N964B	IR	82	1.75	1.63	1.50
1N964B	MOT	43	2.95	2.55	2.20
1N964B	TI	62	1.70	....	1.20
1N965	IR	82	1.40	1.28	1.15
1N965	MOT	43	2.15	1.85	1.60
1N965A	IR	82	1.50	1.38	1.25
1N965A	MOT	43	2.35	2.00	1.75
1N965B	IR	82	1.75	1.63	1.50
1N965B	MOT	43	2.95	2.55	2.20
1N965B	TI	62	1.70	....	1.20
1N966	IR	82	1.40	1.28	1.15
1N966	MOT	43	2.15	1.85	1.60
1N966A	IR	82	1.50	1.38	1.25
1N966A	MOT	43	2.35	2.00	1.75
1N966B	IR	82	1.75	1.63	1.50
1N966B	MOT	43	2.95	2.55	2.20
1N966B	TI	62	1.70	....	1.20
1N967	IR	82	1.40	1.28	1.15
1N967	MOT	43	2.15	1.85	1.60
1N967A	IR	82	1.50	1.38	1.25
1N967A	MOT	43	2.35	2.00	1.75
1N967B	IR	82	1.75	1.63	1.50
1N967B	MOT	43	2.95	2.55	2.20
1N967B	TI	62	1.70	....	1.20
1N968	IR	82	1.40	1.28	1.15
1N968	MOT	43	2.15	1.85	1.60
1N968A	IR	82	1.50	1.38	1.25
1N968A	MOT	43	2.35	2.00	1.75
1N968B	IR	82	1.75	1.63	1.50
1N968B	MOT	43	2.95	2.55	2.20
1N968B	TI	62	2.95	....	2.20
1N969	IR	82	1.40	1.28	1.15
1N969	MOT	43	2.15	1.86	1.60
1N969A	IR	82	1.50	1.38	1.25
1N969A	MOT	43	2.35	2.00	1.75
1N969B	IR	82	1.75	1.63	1.50
1N969B	MOT	43	2.95	2.55	2.20
1N969B	TI	62	1.70	....	1.20
1N970	IR	82	1.40	1.28	1.15

Type No.	Mfr.	Page No.	EACH 1-99	EACH *100 Ass't	EACH 100-999
*10 per type, 100 total per order					
1N970	MOT	43	2.15	1.85	1.60
1N970A	IR	82	1.50	1.38	1.25
1N970A	MOT	43	2.35	2.00	1.75
1N970B	IR	82	1.75	1.63	1.50
1N970B	MOT	43	2.95	2.55	2.20
1N970B	TI	62	1.70	....	1.20
1N971	IR	82	1.40	1.28	1.15
1N971	MOT	43	2.15	1.85	1.60
1N971A	IR	82	1.50	1.38	1.25
1N971A	MOT	43	2.35	2.00	1.75
1N971B	IR	82	1.75	1.63	1.50
1N971B	MOT	43	2.95	2.55	2.20
1N971B	TI	62	1.70	....	1.20
1N972	IR	82	1.40	1.28	1.15
1N972	MOT	43	2.15	1.85	1.60
1N972A	IR	82	1.50	1.38	1.25
1N972A	MOT	43	2.35	2.00	1.75
1N972B	IR	82	1.75	1.63	1.50
1N972B	MOT	43	2.95	2.55	2.20
1N972B	TI	62	1.70	....	1.20
1N973	IR	82	1.40	1.28	1.15
1N973	MOT	43	2.15	1.85	1.60
1N973A	IR	82	1.50	1.38	1.25
1N973A	MOT	43	2.35	2.00	1.75
1N973B	IR	82	1.75	1.63	1.50
1N973B	MOT	43	2.95	2.55	2.20
1N973B	TI	62	1.70	....	1.20
1N974	MOT	43	2.15	1.85	1.60
1N974A	MOT	43	2.35	2.00	1.75
1N974B	MOT	43	2.95	2.55	2.20
1N974B	TI	62	2.95	....	2.20
1N975	MOT	43	2.15	1.85	1.60
1N975A	MOT	43	2.35	2.00	1.75
1N975B	MOT	43	2.95	2.55	2.20
1N975B	TI	62	2.95	....	2.20
1N976	MOT	43	2.15	1.85	1.60
1N976A	MOT	43	2.35	2.00	1.75
1N976B	MOT	43	2.95	2.55	2.20
1N976B	TI	62	2.95	....	2.20
1N977	MOT	43	2.15	1.85	1.60
1N977A	MOT	43	2.35	2.00	1.75
1N977B	MOT	43	2.95	2.55	2.20
1N977B	TI	62	2.95	....	2.20
1N978	MOT	43	2.15	1.85	1.60
1N978A	MOT	43	2.35	2.00	1.75
1N978B	MOT	43	2.95	2.55	2.20
1N978B	TI	62	2.95	....	2.20
1N979	MOT	43	2.15	1.85	1.60
1N979A	MOT	43	2.35	2.00	1.75
1N979B	MOT	43	2.95	2.55	2.20
1N979B	TI	62	2.95	....	2.20
1N980	MOT	43	2.15	1.85	1.60
1N980A	MOT	43	2.35	2.00	1.75
1N980B	MOT	43	2.95	2.55	2.20
1N980B	TI	62	2.95	....	2.20
1N981	MOT	43	2.15	1.85	1.60
1N981A	MOT	43	2.35	2.00	1.75
1N981B	MOT	43	2.95	2.55	2.20
1N981B	TI	62	2.95	....	2.20
1N982	MOT	43	2.15	1.85	1.60
1N982A	MOT	43	2.35	2.00	1.75
1N982B	MOT	43	2.95	2.55	2.20
1N982B	TI	62	2.95	....	2.20
1N983	MOT	43	2.15	1.85	1.60
1N983A	MOT	43	2.35	2.00	1.75
1N983B	MOT	43	2.95	2.55	2.20
1N983B	TI	62	2.95	....	2.20
1N984	MOT	43	2.15	1.85	1.60
1N984A	MOT	43	2.35	2.00	1.75
1N984B	MOT	43	2.95	2.55	2.20
1N984B	TI	62	2.95	....	2.20
1N985	MOT	43	2.60	2.25	1.95
1N985A	MOT	43	3.00	2.60	2.25
1N985B	MOT	43	3.65	3.15	2.75
1N986	MOT	43	2.60	2.25	1.95
1N986A	MOT	43	3.00	2.60	2.25
1N986B	MOT	43	3.65	3.15	2.75
1N987	MOT	43	2.60	2.25	1.95
1N987A	MOT	43	3.00	2.60	2.25
1N987B	MOT	43	3.65	3.15	2.75
1N988	MOT	43	2.60	2.25	1.95
1N988A	MOT	43	3.00	2.60	2.25
1N988B	MOT	43	3.65	3.15	2.75
1N989	MOT	43	2.60	2.25	1.95
1N989A	MOT	43	3.00	2.60	2.25
1N989B	MOT	43	3.65	3.15	2.75
1N990	MOT	43	2.60	2.25	1.95
1N990A	MOT	43	3.00	2.60	2.25
1N990B	MOT	43	3.65	3.15	2.75
1N991	MOT	43	2.60	2.25	1.95
1N991A	MOT	43	3.00	2.60	2.25
1N991B	MOT	43	3.65	3.15	2.75
1N992	MOT	43	2.60	2.25	1.95
1N992A	MOT	43	3.00	2.60	2.25
1N992B	MOT	43	3.65	3.15	2.75

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N995	HUG	88	.60	.45
1N995	SYL	84	.60	.45
1N995	SYL	84	1M-5M Ea.	.18
1N997	GE	68	.98	.65

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-499
1N1081	ST	86	.60	.55	.51
1N1082	ST	86	.65	.57	.53
1N1083	ST	..	.70	.61	.57
1N1084	ST	86	.75	.63	.59
1N1085A	ST	86	3.34	2.86	2.66
1N1086A	ST	86	4.00	3.43	3.20
1N1088A	ST	86	5.35	4.67	4.27

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N1095	GE	69	.77	.51
1N1095	RCA	74	.88	.59
1N1095	TI	..	.76	.51
1N1096	GE	69	.96	.64
1N1096	TI	..	.97	.64

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-499
1N1108	ST	86	3.15	2.71	2.54
1N1109	ST	86	4.00	3.43	3.20
1N1110	ST	86	4.75	4.15	3.86
1N1111	ST	86	5.65	4.86	4.53
1N1112	ST	86	6.50	5.57	5.20
1N1113	ST	86	7.35	6.30	5.87

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N1115	GE	70	1.05	.70
1N1115	TI	59	1.05	.70
1N1116	GE	70	1.12	.75
1N1116	TI	59	1.12	.75
1N1117	GE	70	1.43	.95
1N1117	TI	59	1.42	.95
1N1118	GE	70	1.73	1.15
1N1118	TI	59	1.72	1.15
1N1119	GE	70	1.80	1.20
1N1119	TI	59	1.80	1.20
1N1120	GE	70	2.40	1.60
1N1120	TI	59	2.40	1.60
1N1124	TI	59	2.10	1.40
1N1124A	GE	70	1.86	1.24
1N1124A	TI	59	1.86	1.24
1N1124R	TI	59	2.10	1.40
1N1125	GE	..	2.55	1.70
1N1125	TI	59	2.55	1.70
1N1125A	TI	59	2.27	1.51
1N1125R	TI	59	2.55	1.70
1N1126	TI	59	3.90	2.60
1N1126A	GE	70	3.45	2.30
1N1126A	TI	59	3.45	2.30
1N1127	GE	..	4.98	3.32
1N1127A	TI	59	4.43	2.95
1N1127R	TI	..	5.25	3.50
1N1128	TI	59	6.00	4.00
1N1128A	GE	70	5.20	3.47
1N1128R	TI	59	6.00	4.00
1N1130	TI	59	5.70	3.80
1N1131	TI	59	5.70	3.80

Type No.	Mfr.	Page No.	EACH 1-9	EACH 10-99	EACH 100-999
1N1132	SYL	..	20.00	17.20	15.70

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-499
1N1150A	ST	..	12.00	10.30	9.60
1N1159	ST	..	4.34	3.72	3.46
1N1183	GE	70	1.95	1.95	1.30
1N1183	MOT	53	1.95	1.95	1.30
1N1183	ST	86	2.60	2.22	2.06

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N1183A	RCA	75	2.15	1.43
1N1183RA	RCA	75	2.15	1.43
1N1184	GE	70	2.40	1.60
1N1184	MOT	53	2.40	1.60
1N1184A	RCA	75	2.48	1.65
1N1184RA	RCA	75	2.48	1.65
1N1185	GE	70	2.93	1.95
1N1185	MOT	53	2.90	1.95

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
1N1185	ST	86	3.10	2.66	2.48

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N1186	GE	70	3.45	2.30
1N1186	MOT	53	3.45	2.30
1N1186A	RCA	75	3.55	2.37

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1186RA	RCA	75	3.55	2.37
1N1187	GE	70	5.13	3.42
1N1187	MOT	53	5.10	3.40
1N1187A	RCA	75	4.95	3.30
1N1187RA	RCA	75	4.95	3.30
1N1188	GE	70	5.85	3.90
1N1188	MOT	53	5.85	3.90
1N1188	ST	86	4.45	3.56
1N1188A	RCA	75	6.19	4.13
1N1188RA	RCA	75	6.19	4.13
1N1189	GE	70	6.45	4.30
1N1189	MOT	53	6.45	4.30
1N1189A	RCA	75	7.43	4.95
1N1189RA	RCA	75	7.43	4.95
1N1190	GE	70	6.90	4.60
1N1190	MOT	53	6.90	4.60

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N1190	ST	86	6.40	5.50	5.14
1N1190A	RCA	75	8.65	8.65	5.80
1N1190RA	RCA	75	8.65	8.65	5.80
1N1191	MOT	53	1.35	1.35	.90
1N1192	MOT	53	1.72	1.72	1.15
1N1193	MOT	53	2.10	2.10	1.40
1N1194	MOT	53	2.45	2.45	1.65
1N1195	MOT	53	4.05	4.05	2.70
1N1195A	GE	70	4.02	4.02	2.68
1N1195A	MOT	53	4.35	4.35	2.90
1N1195A	RCA	75	3.88	3.88	2.59
1N1195RA	RCA	75	3.88	3.88	2.59
1N1196	MOT	53	4.95	4.95	3.30
1N1196A	GE	70	4.95	4.95	3.30
1N1196A	MOT	53	5.25	5.25	3.50
1N1196A	RCA	75	4.95	4.95	3.30
1N1196RA	RCA	75	4.95	4.95	3.30
1N1197	MOT	53	6.15	6.15	4.10
1N1197A	GE	70	6.15	6.15	4.10
1N1197A	MOT	53	6.45	6.45	4.30
1N1197A	RCA	75	5.94	5.94	3.96
1N1197RA	RCA	75	5.94	5.94	3.96
1N1198	MOT	53	7.50	7.50	5.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1198A	GE	70	7.50	5.00
1N1198A	MOT	53	7.80	5.20
1N1198A	RCA	75	7.01	4.68
1N1198RA	RCA	75	7.01	4.68
1N1199	IR	81	1.25	.83
1N1199A	GE	70	1.25	.83
1N1199A	RCA	75	1.24	.83
1N1199A	TI	59	1.25	.83
1N1199RA	RCA	75	1.24	.83
1N1200	IR	81	1.40	.94

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N1200A	GE	70	1.41	1.41	.94
1N1200A	RCA	75	1.40	1.40	.94
1N1200A	TI	59	1.40	1.40	.94
1N1200RA	RCA	75	1.41	1.41	.94
1N1201	IR	81	1.80	1.80	1.20
1N1201A	GE	70	1.82	1.82	1.21
1N1201A	TI	59	1.80	1.80	1.21
1N1202	IR	81	2.60	2.60	1.75
1N1202	ST	86	1.12	.96	.89
1N1202A	GE	70	2.63	2.63	1.75
1N1202A	RCA	75	2.48	2.48	1.65
1N1202A	TI	59	2.63	2.63	1.75
1N1202RA	RCA	75	2.48	2.48	1.65
1N1203	IR	81	3.50	3.50	2.35
1N1203A	GE	70	3.60	3.60	2.40
1N1203A	RCA	75	3.47	3.47	2.31
1N1203A	TI	59	3.60	3.60	2.40
1N1203RA	RCA	75	3.47	3.47	2.31
1N1204	IR	81	4.50	4.50	3.00
1N1204	ST	86	1.67	1.43	1.33
1N1204A	GE	70	4.58	4.58	3.05
1N1204A	RCA	75	4.46	4.46	2.97
1N1204A	TI	59	4.58	4.58	3.05
1N1204RA	RCA	75	4.46	4.46	2.97
1N1205	IR	81	5.25	5.25	3.50
1N1205A	GE	70	5.33	5.33	3.55
1N1205A	RCA	75	5.36	5.36	3.58
1N1205A	TI	59	5.33	5.33	3.55
1N1205RA	RCA	75	5.36	5.36	3.58
1N1206	IR	81	6.10	6.10	4.10
1N1206	ST	86	2.34	2.00	1.86
1N1206A	GE	70	6.38	6.38	4.25
1N1206A	RCA	75	6.19	6.19	4.13
1N1206A	TI	59	6.38	6.38	4.25
1N1206RA	RCA	75	6.19	6.19	4.13
1N1218	GE	..	.42	.42	.28

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-Up
1N1237	ST	..	12.00	10.30	9.60
1N1238	ST	..	12.00	10.30	9.60
1N1239	ST	..	18.10	15.50	14.45

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N1313	HUG	88	3.00	....	2.25
1N1313	MOT	43	3.10	2.70	2.35
1N1313A	HUG	88	3.50	....	2.60
1N1313A	MOT	43	5.45	4.70	4.10
1N1314	HUG	88	3.00	....	2.25
1N1314	MOT	43	3.10	2.70	2.35
1N1314A	HUG	88	3.50	....	2.60
1N1314A	MOT	43	5.45	4.70	4.10
1N1315	HUG	88	3.00	....	2.25
1N1315	MOT	43	3.10	2.70	2.35
1N1315A	HUG	88	3.50	....	2.60
1N1315A	MOT	43	5.45	4.70	4.10
1N1316	HUG	88	3.00	....	2.25
1N1316	MOT	43	3.10	2.70	2.35
1N1316A	HUG	88	3.50	....	2.60
1N1316A	MOT	43	5.45	4.70	4.10
1N1317	HUG	88	3.00	....	2.20
1N1317	MOT	43	3.10	2.70	2.35
1N1317A	HUG	88	3.50	....	2.60
1N1317A	MOT	43	5.45	4.70	4.10
1N1318	HUG	88	3.00	....	2.25
1N1318	MOT	43	3.10	2.70	2.35
1N1318A	HUG	88	3.50	....	2.60
1N1318A	MOT	43	5.45	4.70	4.10
1N1319	HUG	88	3.00	....	2.25
1N1319	MOT	43	3.10	2.70	2.35
1N1319A	HUG	88	3.50	....	2.60
1N1319A	MOT	43	5.45	4.70	4.10
1N1320	MOT	43	3.10	2.70	2.35
1N1320A	MOT	43	5.45	4.70	4.10
1N1321	MOT	43	3.10	2.70	2.35
1N1321A	MOT	43	5.45	4.70	4.10
1N1322	MOT	43	3.10	2.70	2.35
1N1322A	MOT	43	5.45	4.70	4.10
1N1323	MOT	43	3.10	2.70	2.35
1N1323A	MOT	43	5.45	4.70	4.10
1N1324	MOT	43	3.10	2.70	2.35
1N1324A	MOT	43	5.45	4.70	4.10
1N1325	MOT	43	3.10	2.70	2.35
1N1325A	MOT	43	5.45	4.70	4.10
1N1326	MOT	43	3.10	2.70	2.35
1N1326A	MOT	43	5.45	4.70	4.10
1N1327	MOT	43	3.10	2.70	2.35
1N1327A	MOT	43	5.45	4.70	4.10

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N1341	IR	81	1.13	1.13	.75
1N1341	ST	86	1.20	1.03	.96
1N1341A	GE	70	1.13	1.13	.75
1N1341B	RCA	75	1.16	1.16	.77
1N1341BR	RCA	75	1.16	1.16	.77
1N1342	IR	81	1.25	1.25	.85
1N1342A	GE	70	1.28	1.28	.85
1N1342B	RCA	75	1.32	1.32	.88
1N1342BR	RCA	75	1.32	1.32	.88
1N1343	IR	81	1.60	1.60	1.10
1N1343	ST	..	1.25	1.07	1.00
1N1343A	GE	70	1.64	1.64	1.09
1N1344	IR	81	2.20	2.20	1.46
1N1344A	GE	70	2.22	2.22	1.48
1N1344B	RCA	75	2.15	2.15	1.43
1N1344BR	RCA	75	2.15	2.15	1.43
1N1345	IR	81	3.15	3.15	2.08
1N1345A	GE	70	3.17	3.17	2.11
1N1345B	RCA	75	3.05	3.05	2.04
1N1345BR	RCA	75	3.05	3.05	2.04
1N1346	IR	81	4.10	4.10	2.70
1N1346	ST	86	1.95	1.67	1.56
1N1346A	GE	70	4.11	4.11	2.74
1N1346B	RCA	75	3.96	3.96	2.64
1N1346BR	RCA	75	3.96	3.96	2.64
1N1347	IR	81	4.70	4.70	3.10
1N1347A	GE	70	4.97	4.97	3.31
1N1347B	RCA	75	4.79	4.79	3.19
1N1347BR	RCA	75	4.79	4.79	3.19
1N1348	IR	81	5.50	5.50	3.65
1N1348	ST	86	2.70	2.32	2.16
1N1348A	GE	70	5.93	5.93	3.95
1N1348B	RCA	75	5.78	5.78	3.85
1N1348BR	RCA	75	5.78	5.78	3.85

Type No.	Mfr.	Page No.	EACH 1-99	100 Ass't	100-999
1N1351	IR	82	4.90	4.25	3.60
1N1351A	IR	82	5.10	4.45	3.80
1N1352	IR	82	4.90	4.25	3.60
1N1352A	IR	82	5.10	4.45	3.80
1N1353	IR	82	4.90	4.25	3.60
1N1353A	IR	82	5.10	4.45	3.80
1N1354	IR	82	4.90	4.25	3.60
1N1354A	IR	82	5.10	4.45	3.80
1N1355	IR	82	4.90	4.25	3.60
1N1355A	IR	82	5.10	4.45	3.80
1N1356	IR	82	4.90	4.25	3.60
1N1356A	IR	82	5.10	4.45	3.80
1N1357	IR	82	4.90	4.25	3.60
1N1357A	IR	82	5.10	4.45	3.80
1N1358	IR	82	4.90	4.25	3.60
1N1358A	IR	82	5.10	4.45	3.80
1N1359	IR	82	4.90	4.25	3.60
1N1359A	IR	82	5.10	4.45	3.80
1N1360	IR	82	4.90	4.25	3.60
1N1360A	IR	82	5.10	4.45	3.80
1N1361	IR	82	4.90	4.25	3.60
1N1361A	IR	82	5.10	4.45	3.80
1N1362	IR	82	4.90	4.25	3.60
1N1362A	IR	82	5.10	4.45	3.80
1N1363	IR	82	4.90	4.25	3.60
1N1363A	IR	82	5.10	4.45	3.80
1N1364	IR	82	4.90	4.25	3.60
1N1364A	IR	82	5.10	4.45	3.80
1N1365	IR	82	4.90	4.25	3.60
1N1365A	IR	82	5.10	4.45	3.80
1N1366	IR	82	4.90	4.25	3.60
1N1366A	IR	82	5.10	4.45	3.80
1N1367	IR	82	4.90	4.25	3.60
1N1367A	IR	82	5.10	4.45	3.80
1N1368	IR	82	4.90	4.25	3.60
1N1368A	IR	82	5.10	4.45	3.80
1N1369	IR	82	4.90	4.25	3.60
1N1369A	IR	82	5.10	4.45	3.80
1N1370	IR	82	4.90	4.25	3.60
1N1370A	IR	82	5.10	4.45	3.80
1N1371	IR	82	4.90	4.25	3.60
1N1371A	IR	82	5.10	4.45	3.80
1N1372	IR	82	4.90	4.25	3.60
1N1372A	IR	82	5.10	4.45	3.80
1N1373	IR	82	4.90	4.25	3.60
1N1373A	IR	82	5.10	4.45	3.80
1N1374	IR	82	4.90	4.25	3.60
1N1374A	IR	82	5.10	4.45	3.80

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 1 1N1187A RCA

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1487	GE	69	.53	.35
1N1487	TI	..	Use 1N4364	
1N1488	GE	69	.63	.42
1N1488	TI	..	Use 1N4365	
1N1489	GE	69	.66	.44
1N1489	TI	..	Use 1N4366	
1N1490	GE	69	.81	.54
1N1490	TI	..	Use 1N4367	
1N1491	GE	69	.90	.60
1N1491	TI	..	Use 1N4368	
1N1492	GE	69	1.19	.79
1N1492	TI	..	Use 1N4369	

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N1507	IR	82	2.75	2.45	2.10
1N1507A	IR	82	3.45	3.05	2.65
1N1508	IR	82	2.75	2.45	2.10
1N1508A	IR	82	3.45	3.05	2.65
1N1509	IR	82	2.75	2.45	2.10
1N1509A	IR	82	3.45	3.05	2.65
1N1510	IR	82	2.75	2.45	2.10
1N1510A	IR	82	3.45	3.05	2.65
1N1511	IR	82	2.75	2.45	2.10
1N1511A	IR	82	3.45	3.05	2.65
1N1512	IR	82	2.75	2.45	2.10
1N1512A	IR	82	3.45	3.05	2.65
1N1513	IR	82	2.75	2.45	2.10
1N1513A	IR	82	3.45	3.05	2.65
1N1514	IR	82	2.75	2.45	2.10
1N1514A	IR	82	3.45	3.05	2.65
1N1515	IR	82	2.75	2.45	2.10
1N1515A	IR	82	3.45	3.05	2.65
1N1516	IR	82	2.75	2.45	2.10
1N1516A	IR	82	3.45	3.05	2.65
1N1517	IR	82	2.75	2.45	2.10
1N1517A	IR	82	3.45	3.05	2.65
1N1518	IR	82	3.00	2.70	2.40
1N1518A	IR	82	3.65	3.50	2.90
1N1519	IR	82	3.00	2.70	2.40
1N1519A	IR	82	3.65	3.50	2.90
1N1520	IR	82	2.95	2.63	2.30
1N1520A	IR	82	3.60	3.20	2.80
1N1521	IR	82	2.95	2.63	2.30
1N1521A	IR	82	3.60	3.20	2.8

 SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1522	IR	82	2.95	2.63	2.30
1N1522A	IR	82	3.60	3.20	2.80
1N1523	IR	82	2.95	2.63	2.30
1N1523A	IR	82	3.60	3.20	2.80
1N1524	IR	82	2.95	2.63	2.30
1N1524A	IR	82	3.60	3.20	2.80
1N1525	IR	82	2.95	2.63	2.30
1N1525A	IR	82	3.60	3.20	2.80
1N1526	IR	82	2.95	2.63	2.30
1N1526A	IR	82	3.60	3.20	2.80
1N1527	IR	82	2.95	2.63	2.30
1N1527A	IR	82	3.60	3.20	2.80
1N1528	IR	82	2.95	2.63	2.30
1N1528A	IR	82	3.60	3.20	2.80
1N1530	IR	..	15.60	.....	12.40
1N1530	MOT	54	16.55	14.30	12.45
1N1530A	MOT	54	24.85	21.50	18.70

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1563	MOT	53	1.35	.90
1N1563A	MOT	53	1.65	1.10
1N1564	MOT	53	1.50	1.00
1N1564A	MOT	53	1.87	1.25
1N1565	MOT	53	1.65	1.10
1N1565A	MOT	53	2.17	1.45
1N1566	MOT	53	1.80	1.20
1N1566A	MOT	53	2.40	1.60
1N1567	MOT	53	2.10	1.40
1N1567A	MOT	53	2.85	1.90
1N1568	MOT	53	3.30	2.20
1N1568A	MOT	53	4.40	2.95
1N1581	TI	..	1.10	.72
1N1582	TI	..	1.20	.80
1N1583	TI	..	2.25	1.50
1N1584	TI	..	3.30	2.20
1N1585	TI	..	4.05	2.70

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1588	IR	..	3.85	3.45	3.05
1N1588A	IR	..	4.60	4.10	3.65
1N1589	IR	..	3.85	3.45	3.05
1N1590	IR	..	3.75	3.30	3.00
1N1590A	IR	..	4.50	4.00	3.60
1N1591	IR	..	3.75	3.30	3.00
1N1591A	IR	..	4.50	4.00	3.60
1N1592	IR	..	3.75	3.30	3.00
1N1592A	IR	..	4.50	4.00	3.60
1N1593	IR	..	3.75	3.30	3.00
1N1593A	IR	..	4.50	4.00	3.60
1N1594	IR	..	3.75	3.30	3.00
1N1594A	IR	..	4.50	4.00	3.60
1N1595	IR	..	3.75	3.30	3.00
1N1595A	IR	..	4.50	4.00	3.60
1N1596	IR	..	3.75	3.30	3.00
1N1596A	IR	..	4.50	4.00	3.60
1N1597	IR	..	3.75	3.30	3.00
1N1597A	IR	..	4.50	4.00	3.60
1N1598	IR	..	3.75	3.30	3.00
1N1598A	IR	..	4.50	4.00	3.60
1N1599	IR	82	5.50	5.00	4.50
1N1599A	IR	82	7.25	6.75	6.25
1N1600	IR	82	5.50	5.00	4.50
1N1600A	IR	82	7.25	6.75	6.25
1N1601	IR	82	5.00	4.35	3.70
1N1601A	IR	82	5.50	4.80	4.07
1N1602	IR	82	5.00	4.35	3.70
1N1602A	IR	82	5.50	4.80	4.07
1N1603	IR	82	5.00	4.35	3.70
1N1603A	IR	82	5.50	4.80	4.07
1N1604	IR	82	5.00	4.35	3.70
1N1604A	IR	82	5.50	4.80	4.07
1N1605	IR	82	5.00	4.35	3.70
1N1605A	IR	82	5.50	4.80	4.07
1N1606	IR	82	5.00	4.35	3.70
1N1606A	IR	82	5.50	4.80	4.07
1N1607	IR	82	5.00	4.35	3.70
1N1607A	IR	82	5.50	4.80	4.07
1N1608	IR	82	5.00	4.35	3.70
1N1608A	IR	82	5.50	4.80	4.07
1N1609	IR	82	5.00	4.35	3.70
1N1609A	IR	82	5.50	4.80	4.07

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1612	GE	70	1.08	.72
1N1612	RCA	74	1.07	.72
1N1612	TI	59	1.10	.72
1N1612R	RCA	74	1.07	.72
1N1613	GE	70	1.25	.83
1N1613	RCA	74	1.24	.83
1N1613	TI	59	1.20	.80
1N1613R	RCA	74	1.24	.83
1N1614	GE	70	1.91	1.27
1N1614	RCA	74	1.90	1.27

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1614	TI	59	1.87	1.25
1N1614R	RCA	74	1.90	1.27
1N1615	GE	70	3.75	2.50
1N1615	RCA	74	3.71	2.48
1N1615	TI	59	3.71	2.48
1N1615R	RCA	74	3.71	2.48
1N1616	GE	70	5.55	3.70
1N1616	RCA	74	5.36	3.58
1N1616	TI	59	5.36	3.58
1N1616R	RCA	74	5.36	3.58
1N1616R	TI	59	5.77	3.85

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
1N1621	ST	..	2.24	1.92	1.80
1N1622	ST	..	2.80	2.40	2.24
1N1623	ST	..	3.45	2.96	2.67
1N1624	ST	..	4.24	3.62	3.40

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1642	IR	..	.54	.37
1N1692	GE	69	.45	.30
1N1692	TI	59	.49	.33
1N1693	GE	69	.48	.32
1N1693	TI	59	.52	.35
1N1694	GE	69	.56	.37
1N1694	TI	59	.60	.40
1N1695	GE	69	.66	.44
1N1695	TI	59	.67	.45
1N1696	GE	69	.72	.48
1N1696	TI	59	.76	.51
1N1697	GE	69	.93	.62
1N1697	TI	59	.97	.64
1N1702	IR	..	.87	.58

Type No.	Mfr.	Page No.	EACH 1-9	10-29
1N1730	GE	71	4.48	3.68

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1730	MOT	53	4.30	3.75	3.25

Type No.	Mfr.	Page No.	EACH 1-9	10-29
1N1731	GE	71	6.30	5.18

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1731	MOT	53	5.30	4.60	4.00
1N1731A/JAN	TRW	..	7.05	....	6.35

Type No.	Mfr.	Page No.	EACH 1-9	10-29
1N1732	GE	71	8.12	6.67

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1732	MOT	53	6.00	5.15	4.50

Type No.	Mfr.	Page No.	EACH 1-9	10-29
1N1733	GE	71	11.76	9.66

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1733	MOT	53	6.90	6.00	5.20

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N1733A/JAN	TRW	..	11.10	11.10	10.00

Type No.	Mfr.	Page No.	EACH 1-9	10-29
1N1734	GE	71	19.04	15.64

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N1734	MOT	53	10.30	8.90	7.75
1N1734A/JAN	TRW	..	15.80	....	14.20

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1735	IR	..	4.65	....	3.95
1N1735	MOT	54	5.40	4.65	4.0
1N1736	IR	..	6.52	....	5.55
1N1736	MOT	54	8.75	7.60	6.60
1N1736A	IR	..	9.05	....	7.70
1N1736A	MOT	54	10.70	9.25	8.05
1N1737	IR	..	10.12	....	8.62
1N1737	MOT	54	10.50	9.10	7.90
1N1737A	IR	..	15.54	....	13.20
1N1737A	MOT	54	12.30	10.65	9.25
1N1738	IR	..	13.10	....	11.07
1N1738	MOT	54	14.15	12.25	10.65
1N1738A	IR	..	20.40	....	17.35
1N1738A	MOT	54	16.20	14.05	12.20
1N1739	MOT	54	17.50	15.10	13.15
1N1739A	MOT	54	20.60	17.80	15.50
1N1740	MOT	54	20.30	17.55	15.25
1N1740A	MOT	54	24.60	21.25	18.50
1N1741	MOT	54	24.35	21.05	18.30
1N1741A	MOT	54	28.60	24.70	21.50
1N1742	MOT	54	27.65	23.90	20.80
1N1742A	MOT	54	32.60	27.85	24.20
1N1763A	RCA	74	.42	....	.29
1N1764A	RCA	74	.58	....	.40
1N1765	GE	70	2.40	....	1.60
1N1766	GE	70	2.40	....	1.60
1N1767	GE	70	2.40	....	1.60
1N1768	GE	70	2.40	....	1.60
1N1769	GE	70	3.00	....	2.00
1N1770	GE	70	3.00	....	2.00
1N1771	GE	70	3.00	....	2.00
1N1772	GE	70	3.00	....	2.00
1N1773	GE	70	3.00	....	2.00
1N1774	GE	70	3.00	....	2.00
1N1775	GE	70	3.00	....	2.00
1N1776	GE	70	3.00	....	2.00
1N1777/USA	IR	..	6.50	....	5.60
1N1781/USA	IR	..	7.85	....	6.65
1N1805	IR	82	4.90	4.25	3.60
1N1805A	IR	82	5.10	4.45	3.80
1N1806	IR	82	4.90	4.25	3.60
1N1806A	IR	82	5.10	4.45	3.80
1N1807	IR	82	4.90	4.25	3.60
1N1807A	IR	82	5.10	4.45	3.80
1N1808	IR	82	4.90	4.25	3.60
1N1808A	IR	82	5.10	4.45	3.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N1816	TI	62	5.10	4.50
1N1817	TI	62	5.10	4.50
1N1818	TI	62	5.10	4.50
1N1819	TI	62	5.10	4.50
1N1820	TI	62	5.10	4.50
1N1821	TI	62	5.10	4.50
1N1822	TI	62	5.10	4.50
1N1823	TI	62	5.10	4.50
1N1824	TI	62	5.10	4.50
1N1825	TI	62	5.10	4.50
1N1826	TI	62	5.10	4.50
1N1827	TI	62	5.10	4.50
1N1828	TI	62	5.10	4.50
1N1829	TI	62	5.10	4.50
1N1830	TI	62	5.10	4.50
1N1831	TI	62	5.10	4.50
1N1832	TI	62	5.10	4.50
1N1833	TI	62	5.10	4.50
1N1834	TI	62	5.10	4.50
1N1835	TI	62	5.10	4.50
1N1836	TI	62	5.10	4.50

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N1929	HUG	..	2.20	....	1.65
1N1931	HUG	..	2.09	....	1.57
1N1933	HUG	..	2.09	....	1.57
1N1935	HUG	..	1.98	....	1.49
1N1937	HUG	..	2.20	....	1.65
1N1956	IR	..	2.08	1.88	1.68
1N1959	IR	..	2.08	1.88	1.68
1N1983	HUG	88	3.00	....	2.25
1N1984	HUG	88	3.00	....	2.25
1N1985	HUG	88	3.00	....	2.25
1N1986	HUG	88	3.00	....	2.25
1N1987	HUG	88	3.00	....	2.25
1N1988	HUG	88	3.00	....	2.25
1N1989	HUG	88	3.00	....	2.25
1N1990	HUG	88	3.00	....	2.25
1N1991	HUG	88	3.00	....	2.25

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N2008	TI	62	5.10	4.50
1N2009	TI	62	5.10	4.50
1N2010	TI	62	5.10	4.50
1N2011	TI	62	5.10	4.50

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N2054	IR	81	12.40	....
1N2055	IR	81	13.90	....
1N2056	IR	81	16.60	....
1N2057	IR	81	18.90	....
1N2058	IR	81	21.00	....
1N2059	IR	81	22.10	....
1N2060	IR	81	22.85	....
1N2061	IR	81	23.95	....
1N2062	IR	81	25.60	....
1N2063	IR	81	30.10	....
1N2064	IR	81	36.00	....
1N2069	IR	80	.50	.33

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-Up
1N2069	SYL	84	.65	.43	.29
1N2069	TI	55	.49	.33	...
1N2069A	SYL	84	.67	.45	.30
1N2070	IR	80	.68	.45	...
1N2070	SYL	84	.71	.47	.31
1N2070	TI	55	.67	.49	...
1N2070A	SYL	84	.72	.47	.31
1N2071	IR	80	.87	.58	...
1N2071	SYL	84	.87	.50	.33
1N2071	TI	55	.87	.58	...
1N2071A	SYL	84	.92	.59	.39
1N2103	IR	81	.50	.45	....
1N2104	IR	81	.54	.48	....
1N2105	IR	81	.60	.53	....
1N2106	IR	81	.68	.60	....
1N2107	IR	81	.76	.67	....
1N2108	IR	81	.85	.75	...

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N2128	IR	81	2.40	....
1N2129	IR	81	3.05	....
1N2129A	IR	..	3.20	....
1N2130	IR	81	3.80	....
1N2131	IR	81	4.50	....
1N2132	IR	81	5.20	....
1N2133	IR	81	6.35	....
1N2134	IR	81	6.50	....
1N2135	IR	81	6.70	....
1N2136	IR	81	7.00	....
1N2137	IR	81	7.30	....
1N2138	IR	81	8.00	....
1N2154	GE	70	2.39	1.59
1N2155	GE	70	3.00	2.00
1N2155R	GE	..	3.00	2.00
1N2156	GE	70	4.38	2.92
1N2157	GE	70	5.25	3.50
1N2157R	GE	..	5.25	3.50
1N2158	GE	70	5.92	3.95
1N2158R	GE	..	5.92	3.95
1N2159	GE	70	6.15	4.10
1N2159R	GE	..	6.15	4.10
1N2160	GE	70	6.30	4.20
1N2175	TI	63	11.50	8.00
1N2326	RCA	79	.50	.33

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N2382	GE	71	11.00	9.90	9.90
1N2382	MOT	53	8.65	7.45	6.50
1N2383	MOT	53	12.65	10.90	9.50
1N2384	MOT	53	15.30	13.20	11.50
1N2385	GE	53	26.60	23.94	23.94
1N2385	MOT	71	18.60	16.10	14.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N2389	ST	86	6.10	5.23	4.87
1N2482	ST	86	.35	.32	.29
1N2482	SYL	84	.65	.43	.29
1N2483	ST	40	.40	.36	.33
1N2483	SYL	84	.69	.46	.31
1N2484	ST	86	.45	.40	.37
1N2484	SYL	84	.71	.47	.31
1N2486	ST	..	.44	.39	.36
1N2488	ST	..	.50	.43	.40
1N2489	ST	Use 1N2615			
1N2490	ST	86	12.00	10.30	9.60
1N2498	TI	..	5.10	5.10	4.50
1N2500	TI	..	5.10	5.10	4.50
1N2610	GE	70	1.02	1.02	.68
1N2610	ST	86	.35	.33	.31
1N2611	GE	70	1.14	1.14	.76
1N2611	ST	86	.40	.36	.33
1N2612	GE	70	1.52	1.52	1.01
1N2613	GE	70	1.71	1.71	1.14
1N2613	ST	86	.45	.40	.37
1N2614	GE	70	1.92	1.92	1.28
1N2615	GE	70	2.30	2.30	1.53
1N2615	ST	86	.55	.45	.42
1N2616	GE	70	3.38	3.38	2.25
1N2617	GE	70	5.25	5.25	3.50

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N2620	MOT	54	4.10	3.55	3.05
1N2620A	MOT	54	4.35	3.75	3.25
1N2620B	MOT	54	4.90	4.20	3.65
1N2621	MOT	54	4.60	3.95	3.45
1N2621A	MOT	54	5.55	4.80	4.15
1N2621B	MOT	54	6.75	5.85	5.05
1N2622	MOT	54	7.60	6.55	5.70
1N2622A	MOT	54	8.15	7.05	6.10
1N2622B	MOT	54	9.35	8.05	7.00
1N2623	MOT	54	8.80	7.60	6.60
1N2623A	MOT	54	10.05	8.70	7.55
1N2623B	MOT	54	13.50	11.65	10.15
1N2624	MOT	54	22.00	19.00	16.55
1N2624A	MOT	54	28.80	24.90	21.65
1N2624B	MOT	54	38.50	33.30	28.95

Type No.	Mfr.	Page No.	EACH 1-9	10-99
1N2630	IR	80	9.97	8.90
1N2631	IR	80	9.97	8.90
1N2632	IR	80	14.79	13.20
1N2633	IR	80	9.97	8.90
1N2634	IR	80	9.97	8.90
1N2635	IR	80	9.97	8.90
1N2636	IR	80	9.97	8.90
1N2637	IR	80	22.25	21.00

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N2767	MOT	54	9.05	7.80	6.80
1N2767A	MOT	54	11.70	10.10	8.80
1N2768	MOT	54	11.15	9.65	8.40
1N2768A	MOT	54	14.15	12.25	10.65
1N2769	MOT	54	13.70	11.85	10.30
1N2769A	MOT	54	17.15	14.85	12.90
1N2770	MOT	54	15.75	13.65	11.85
1N2770A	MOT	54	20.70	17.90	15.55
1N2804	MOT	45	5.65	4.90	4.25
1N2804A	MOT	45	7.65	6.60	5.75
1N2804B	MOT	45	10.65	9.20	8.00
1N2805	MOT	45	5.65	4.90	4.25
1N2805A	MOT	45	7.65	6.60	5.75
1N2805B	MOT	45	10.65	9.20	8.00
1N2806	MOT	45	5.65	4.90	4.25
1N2806A	MOT	45	7.65	6.60	5.75
1N2806B	MOT	45	10.65	9.20	8.00
1N2807	MOT	45	5.65	4.90	4.25
1N2807A	MOT	45	7.65	6.60	5.75
1N2807B	MOT	45	10.65	9.20	8.00
1N2808	MOT	45	5.65	4.90	4.25
1N2808A	MOT	45	7.65	6.60	5.75
1N2808B	MOT	45	10.65	9.20	8.00
1N2809	MOT	45	5.65	4.90	4.25
1N2809A	MOT	45	7.65	6.60	5.75
1N2809B	MOT	45	10.65	9.20	8.00
1N2810	MOT	45	5.65	4.90	4.25
1N2810A	MOT	45	7.65	6.60	5.75
1N2810B	MOT	45	10.65	9.20	8.00
1N2811	MOT	45	5.65	4.90	4.25
1N2811A	MOT	45	7.65	6.60	5.75
1N2811B	MOT	45	10.65	9.20	8.00
1N2812	MOT	45	5.65	4.90	4.25
1N2812A	MOT	45	7.65	6.60	5.75
1N2812B	MOT	45	10.65	9.20	8.00
1N2813	MOT	45	5.65	4.90	4.25
1N2813A	MOT	45	7.65	6.60	5.75
1N2813B	MOT	45	10.65	9.20	8.00
1N2814	MOT	45	5.65	4.90	4.25
1N2814A	MOT	45	7.65	6.60	5.75
1N2814B	MOT	45	10.65	9.20	8.00
1N2815	MOT	45	5.65	4.90	4.25
1N2815A	MOT	45	7.65	6.60	5.75
1N2815B	MOT	45	10.65	9.20	8.00
1N2816	MOT	45	5.65	4.90	4.25
1N2816A	MOT	45	7.65	6.60	5.75
1N2816B	MOT	45	10.65	9.20	8.00
1N2817	MOT	45	5.65	4.90	4.25
1N2817A	MOT	45	7.65	6.60	5.75
1N2817B	MOT	45	10.65	9.20	8.00
1N2818	MOT	45	5.65	4.90	4.25
1N2818A	MOT	45	7.65	6.60	5.75
1N2818B	MOT	45	10.65	9.20	8.00
1N2819	MOT	45	5.65	4.90	4.25
1N2819A	MOT	45	7.65	6.60	5.75
1N2819B	MOT	45	10.65	9.20	8.00
1N2820	MOT	45	5.65	4.90	4.25
1N2820A	MOT	45	7.65	6.60	5.75
1N2820B	MOT	45	10.65	9.20	8.00
1N2821	MOT	45	5.65	4.90	4.25
1N2821A	MOT	45	7.65	6.60	5.75
1N2821B	MOT	45	10.65	9.20	8.00
1N2822	MOT	45	5.65	4.90	4.25
1N2822A	MOT	45	7.65	6.60	5.75
1N2822B	MOT	45	10.65	9.20	8.00
1N2823	MOT	45	5.65	4.90	4.25
1N2823A	MOT	45	7.65	6.60	5.75
1N2823B	MOT	45	10.65	9.20	8.00
1N2824	MOT	45	5.65	4.90	4.25
1N2824A	MOT	45	7.65	6.60	5.75
1N2824B	MOT	45	10.65	9.20	8.00
1N2825	MOT	45	5.65	4.90	4.25
1N2825A	MOT	45	7.65	6.60	5.75
1N2825B	MOT	45	10.65	9.20	8.00
1N2826	MOT	45	5.65	4.90	4.25
1N2826A	MOT	45	7.65	6.60	5.75
1N2826B	MOT	45	10.65	9.20	8.00
1N2827	MOT	45	5.65	4.90	4.25
1N2827A	MOT	45	7.65	6.60	5.75

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 3 1N2154 GE

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N2827B	MOT	45	10.65	9.20	8.00
1N2828	MOT	45	5.65	4.90	4.25
1N2828A	MOT	45	7.65	6.60	5.75
1N2828B	MOT	45	10.65	9.20	8.00
1N2829	MOT	45	5.65	4.90	4.25
1N2829A	MOT	45	7.65	6.60	5.75
1N2829B	MOT	45	10.65	9.20	8.00
1N2830	MOT	45	5.65	4.90	4.25
1N2830A	MOT	45	7.65	6.60	5.75
1N2830B	MOT	45	10.65	9.20	8.00
1N2831	MOT	45	5.65	4.90	4.25
1N2831A	MOT	45	7.65	6.60	5.75
1N2831B	MOT	45	10.65	9.20	8.00
1N2832	MOT	45	5.65	4.90	4.25
1N2832A	MOT	45	7.65	6.60	5.75
1N2832B	MOT	45	10.65	9.20	8.00
1N2833	MOT	45	5.65	4.90	4.25
1N2833A	MOT	45	7.65	6.60	5.75
1N2833B	MOT	45	10.65	9.20	8.00
1N2834	MOT	45	5.65	4.90	4.25
1N2834A	MOT	45	7.65	6.60	5.75
1N2834B	MOT	54	10.65	9.20	8.00
1N2835	MOT	45	5.65	4.90	4.25
1N2835A	MOT	45	7.65	6.60	5.75
1N2835B	MOT	45	10.65	9.20	8.00
1N2836	MOT	45	5.65	4.90	4.25
1N2836A	MOT	45	7.65	6.60	5.75
1N2836B	MOT	45	10.65	9.20	8.00
1N2837	MOT	45	5.65	4.90	4.25
1N2837A	MOT	45	7.65	6.60	5.75
1N2837B	MOT	45	10.65	9.20	8.00
1N2838	MOT	45	5.65	4.90	4.25
1N2838A	MOT	45	7.65	6.60	5.75
1N2838B	MOT	45	10.65	9.20	8.00
1N2839	MOT	45	6.80	5.85	5.10
1N2839A	MOT	45	11.30	9.75	8.50
1N2939B	MOT	45	17.95	15.50	13.50
1N2840	MOT	45	6.80	5.85	5.10
1N2840A	MOT	45	11.30	9.75	8.50
1N2840B	MOT	45	17.95	15.50	13.50
1N2841	MOT	45	6.80	5.85	5.10
1N2841A	MOT	45	11.30	9.75	8.50
1N2841B	MOT	45	17.95	15.50	13.50
1N2842	MOT	45	6.80	5.85	5.10
1N2842A	MOT	45	11.30	9.75	8.50
1N2842B	MOT	45	17.95	15.50	13.50
1N2843	MOT	45	6.80	5.85	5.10
1N2843A	MOT	45	11.30	9.75	8.50
1N2843B	MOT	45	17.95	15.50	13.50
1N2844	MOT	45	6.80	5.85	5.10
1N2844A	MOT	45	11.30	9.75	8.50
1N2844B	MOT	45	17.95	15.50	13.50
1N2845	MOT	45	6.80	5.85	5.10
1N2845A	MOT	45	11.30	9.75	8.50
1N2845B	MOT	45	17.95	15.50	13.50
1N2846	MOT	45	6.80	5.85	5.10
1N2846A	MOT	45	11.30	9.75	8.50
1N2846B	MOT	45	17.95	15.50	13.50

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N2858A	RCA	74	.37	.25
1N2859A	RCA	74	.38	.27
1N2860A	RCA	74	.40	.28
1N2861A	RCA	74	.43	.30
1N2862A	RCA	74	.61	.43
1N2863A	RCA	74	.66	.46
1N2864A	RCA	74	.83	.57
1N2939	GE	..	7.50	5.00
1N2940	GE	..	5.65	3.75
1N2941	GE	..	4.70	3.15
1N2969	GE	..	5.25	3.50

SEE PAGE 31 FOR INTEGRATED CIRCUITS

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
1N2970	MOT	45	5.45	5.45	*4.70
1N2970	MOT	45	100-499 Ea.		4.10
1N2970	TI	62	3.60	3.60	....
1N2970	TI	62	100-999 Ea.		2.40
1N2970A	MOT	45	5.85	5.85	*5.05
1N2970A	MOT	45	100-499 Ea.		4.40
1N2970A	TI	62	3.98	3.98	....
1N2970A	TI	62	100-999 Ea.		2.65
1N2970B	IRC	..	5.20	5.20	....
1N2970B	IRC	..	100-499 Ea.		3.95
1N2970B	MOT	45	7.30	7.30	*6.30
1N2970B	MOT	45	100-499 Ea.		5.50
1N2970B	TI	62	4.95	4.95	....
1N2970B	TI	62	100-999 Ea.		3.30
1N2971	MOT	45	5.45	5.45	*4.70
1N2971	MOT	45	100-499 Ea.		4.10
1N2971	TI	62	3.60	3.60	....
1N2971	TI	62	100-999 Ea.		2.40
1N2971A	MOT	45	5.85	5.85	*5.05
1N2971A	MOT	45	100-499 Ea.		4.40
1N2971A	TI	62	3.98	3.98	....
1N2971A	TI	62	100-999 Ea.		2.65
1N2971B	IRC	..	5.20	5.20	....
1N2971B	IRC	..	100-999 Ea.		3.95
1N2971B	MOT	45	7.30	7.30	*6.30
1N2971B	MOT	45	100-499 Ea.		5.50
1N2971B	TI	62	4.95	4.95	....
1N2971B	TI	62	100-999 Ea.		3.30
1N2972	MOT	45	5.45	5.45	*4.70
1N2972	MOT	45	100-499 Ea.		4.10
1N2972	TI	62	3.60	3.60	....
1N2972	TI	62	100-999 Ea.		2.40
1N2972A	MOT	45	5.85	5.85	*5.05
1N2972A	MOT	45	100-499 Ea.		4.40
1N2972A	TI	62	3.98	3.98	....
1N2972A	TI	62	100-999 Ea.		2.65
1N2972B	IRC	..	5.20	5.20	....
1N2972B	IRC	..	100-999 Ea.		3.95
1N2972B	MOT	45	7.30	7.30	*6.30
1N2972B	MOT	45	100-499 Ea.		5.50
1N2972B	TI	62	4.95	4.95	....
1N2972B	TI	62	100-999 Ea.		3.30
1N2973	MOT	45	5.45	5.45	*4.70
1N2973	MOT	45	100-499 Ea.		4.10
1N2973	TI	62	3.60	3.60	....
1N2973	TI	62	100-999 Ea.		2.40
1N2973A	MOT	45	5.85	5.85	*5.05
1N2973A	MOT	45	100-499 Ea.		4.40
1N2973A	TI	62	3.98	3.98	....
1N2973A	TI	62	100-999 Ea.		2.65
1N2973B	IRC	..	5.20	5.20	....
1N2973B	IRC	..	100-999 Ea.		3.95
1N2973B	MOT	45	7.30	7.30	*6.30
1N2973B	MOT	45	100-499 Ea.		5.50
1N2973B	TI	62	4.95	4.95	....
1N2973B	TI	62	100-999 Ea.		3.30
1N2974	MOT	45	5.45	5.45	*4.70
1N2974	MOT	45	100-499 Ea.		4.10
1N2974	TI	62	3.60	3.60	....
1N2974	TI	62	100-999 Ea.		2.40
1N2974A	MOT	45	5.85	5.85	*5.05
1N2974A	MOT	45	100-499 Ea.		4.40
1N2974A	TI	62	3.98	3.98	....
1N2974A	TI	62	100-999 Ea.		2.65
1N2974B	IRC	..	5.50	5.50	....
1N2974B	IRC	..	100-999 Ea.		3.95
1N2974B	MOT	45	7.30	7.30	*6.30
1N2974B	MOT	45	100-499 Ea.		5.50
1N2974B	TI	62	4.95	4.95	....
1N2974B	TI	62	100-999 Ea.		3.30
1N2975	MOT	45	5.45	5.45	*4.70
1N2975	MOT	45	100-499 Ea.		4.10
1N2975	TI	62	3.60	3.60	....
1N2975	TI	62	100-999 Ea.		2.40
1N2975A	MOT	45	5.85	5.85	*5.05
1N2975A	MOT	45	100-499 Ea.		4.40
1N2975A	TI	62	3.98	3.98	....
1N2975A	TI	62	100-999 Ea.		2.65
1N2975B	IRC	..	5.20	5.20	....
1N2975B	IRC	..	100-999 Ea.		3.95
1N2975B	MOT	45	7.30	7.30	*6.30
1N2975B	MOT	45	100-499 Ea.		5.50
1N2975B	TI	62	4.95	4.95	....
1N2975B	TI	62	100-999 Ea.		3.30
1N2976	MOT	45	5.45	5.45	*4.70
1N2976	MOT	45	100-499 Ea.		4.10
1N2976	TI	62	3.60	3.60	....
1N2976	TI	62	100-999 Ea.		2.40
1N2976A	MOT	45	5.85	5.85	*5.85
1N2976A	MOT	45	100-499 Ea.		4.40
1N2976A	TI	62	3.98	3.98	....
1N2976A	TI	62	100-999 Ea.		2.65
1N2976B	MOT	45	7.30	7.30	*6.30
1N2976B	MOT	45	100-499 Ea.		5.50
1N2976B	IRC	..	5.20	5.20	....
1N2976B	IRC	..	100-999 Ea.		3.95
1N2976B	TI	62	4.95	4.95	....
1N2976B	TI	62	100-999 Ea.		3.30
1N2977	MOT	45	5.45	5.45	*4.70
1N2977	MOT	45	100-499 Ea.		4.10

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100- Ass't
1N2977	TI	62	3.60	3.60	....
1N2977	TI	62	100-999 Ea.		2.40
1N2977A	MOT	45	5.85	5.85	*5.05
1N2977A	MOT	45	100-499 Ea.		4.40
1N2977A	TI	62	3.98	3.98	....
1N2977A	TI	62	100-999 Ea.		2.65
1N2977B	IRC	..	5.20	5.20	....
1N2977B	IRC	..	100-999 Ea.		3.95
1N2977B	MOT	45	7.30	7.30	*6.30
1N2977B	MOT	45	100-499 Ea.		5.50
1N2977B	TI	62	4.95	4.95	....
1N2977B	TI	62	100-999 Ea.		3.30
1N2978	MOT	45	5.45	5.45	*4.70
1N2978	MOT	45	100-499 Ea.		4.10
1N2978	TI	62	3.60	3.60	....
1N2978	TI	62	100-999 Ea.		2.40
1N2978A	MOT	45	5.85	5.85	*5.05
1N2978A	MOT	45	100-499 Ea.		4.40
1N2978A	TI	62	3.98	3.98	....
1N2978A	TI	62	100-999 Ea.		2.65
1N2978B	IRC	..	5.20	5.20	....
1N2978B	IRC	..	100-999 Ea.		3.95
1N2978B	MOT	45	7.30	7.30	*6.30
1N2978B	MOT	45	100-499 Ea.		5.50
1N2978B	TI	62	4.95	4.95	....
1N2978B	TI	62	100-999 Ea.		3.30
1N2979	MOT	45	5.45	5.45	*4.70
1N2979	MOT	45	100-499 Ea.		4.10
1N2979	TI	62	3.60	3.60	....
1N2979	TI	62	100-999 Ea.		2.40
1N2979A	MOT	45	5.85	5.85	*5.05
1N2979A	MOT	45	100-499 Ea.		4.40
1N2979A	TI	62	3.98	3.98	....
1N2979A	TI	62	100-999 Ea.		2.65
1N2979B	IRC	..	5.20	5.20	....
1N2979B	IRC	..	100-999 Ea.		3.95
1N2979B	MOT	45	7.30	7.30	*6.30
1N2979B	MOT	45	100-499 Ea.		5.50
1N2979B	TI	62	4.95	4.95	....
1N2979B	TI	62	100-999 Ea.		3.30
1N2980	MOT	45	5.45	5.45	*4.70
1N2980	MOT	45	100-499 Ea.		4.10
1N2980	TI	62	3.60	3.60	....
1N2980	TI	62	100-999 Ea.		2.40
1N2980A	MOT	45	5.85	5.85	*5.05
1N2980A	MOT	45	100-499 Ea.		4.40
1N2980A	TI	62	3.98	3.98	....
1N2980A	TI	62	100-999 Ea.		2.65
1N2980B	IRC	..	5.20	5.20	....
1N2980B	IRC	..	100-999 Ea.		3.95
1N2980B	MOT	45	7.30	7.30	*6.30
1N2980B	MOT	45	100-499 Ea.		5.50
1N2980B	TI	62	4.95	4.95	....
1N2980B	TI	62	100-999 Ea.		3.30
1N2981	MOT	45	5.45	5.45	*4.70
1N2981	MOT	45	100-499 Ea.		4.10
1N2981	TI	62	3.60	3.60	....
1N2981	TI	62	100-999 Ea.		2.40
1N2981A	MOT	45	5.85	5.85	*5.05
1N2981A	MOT	45	100-499 Ea.		4.40
1N2981A	TI	62	3.98	3.98	....
1N2981A	TI	62	100-999 Ea.		2.65
1N2981B	IRC	..	5.20	5.20	....
1N2981B	IRC	..	100-999 Ea.		3.95
1N2981B	MOT	45	7.30	7.30	*6.30
1N2981B	MOT	45	100-499 Ea.		5.50
1N2981B	TI	62	4.95	4.95	....
1N2981B	TI	62	100-999 Ea.		3.30
1N2982	MOT	45	5.45	5.45	*4.70
1N2982	MOT	45	100-499 Ea.		4.10
1N2982	TI	62	3.60	3.60	....
1N2982	TI	62	100-999 Ea.		2.40
1N2982A	MOT	45	5.85	5.85	*5.05
1N2982A	MOT	45	100-499 Ea.		4.40
1N2982A	TI	62	3.98	3.98	....
1N2982A	TI	62	100-999 Ea.		2.65
1N2982B	IRC	..	5.20	5.20	....
1N2982B	IRC	..	100-999 Ea.		3.95
1N2982B	MOT	45	7.30	7.30	*6.30
1N2982B	MOT	45	100-499 Ea.		5.50
1N2982B	TI	62	4.95	4.95	....
1N2982B	TI	62	100-999 Ea.		3.30
1N2983	MOT	45	5.45	5.45	*4.70
1N2983	MOT	45	100-499 Ea.		4.10
1N2983	TI	62	3.60	3.60	....
1N2983	TI	62	100-999 Ea.		2.40
1N2983A	MOT	45	5.85	5.85	*5.05
1N2983A	MOT	45	100-499 Ea.		4.40
1N2983A	TI	62	3.98	3.98	....
1N2983A	TI	62	100-999 Ea.		2.65
1N2983B	IRC	..	5.20	5.20	....
1N2983B	IRC	..	100-999 Ea.		3.95
1N2983B	MOT	45	7.30	7.30	*6.30
1N2983B	MOT	45	100-499 Ea.		5.50
1N2983B	TI	62	4.95	4.95	....
1N2983B	TI	62	100-999 Ea.		3.30
1N2984	MOT	45	5.45	5.45	*4.70
1N2984	MOT	45	100-499 Ea.		4.10
1N2984	TI	62	3.60	3.60	....
1N2984	TI	62	100-999 Ea.		2.40
1N2984A	MOT	45	5.85	5.85	*5.05
1N2984A	MOT	45	100-499 Ea.		4.40
1N2984A	TI	62	3.98	3.98	....

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
1N2984A	TI	62	100-999 Ea.		2.65
1N2984B	IRC	..	5.20	5.20	....
1N2984B	IRC	..	100-999 Ea.		3.95
1N2984B	MOT	45	7.30	7.30	*6.30
1N2984B	MOT	45	100-499 Ea.		5.50
1N2984B	TI	62	4.95	4.95	....
1N2984B	TI	62	100-999 Ea.		3.30
1N2985	MOT	45	5.45	5.45	*4.70
1N2985	MOT	45	100-499 Ea.		4.10
1N2985	TI	62	3.60	3.60	....
1N2985	TI	62	100-999 Ea.		2.40
1N2985A	MOT	45	5.85	5.85	*5.05
1N2985A	MOT	45	100-499 Ea.		4.40
1N2985A	TI	62	3.98	3.98	....
1N2985A	TI	62	100-999 Ea.		2.65
1N2985B	IRC	..	5.20	5.20	....
1N2985B	IRC	..	100-999 Ea.		3.95
1N2985B	MOT	45	7.30	7.30	*6.30
1N2985B	MOT	45	100-499 Ea.		5.50
1N2985B	TI	62	4.95	4.95	....
1N2985B	TI	62	100-999 Ea.		3.30
1N2986	MOT	45	5.45	5.45	*4.70
1N2986	MOT	45	100-499 Ea.		4.10
1N2986	TI	62	3.60	3.60	....
1N2986	TI	62	100-999 Ea.		2.40
1N2986A	MOT	45	5.85	5.85	*5.05
1N2986A	MOT	45	100-499 Ea.		4.40
1N2986A	TI	62	3.98	3.98	....
1N2986A	TI	62	100-999 Ea.		2.65
1N2986B	IRC	..	5.20	5.20	....
1N2986B	IRC	..	100-999 Ea.		3.95
1N2986B	MOT	45	7.30	7.30	*6.30
1N2986B	MOT	45	100-499 Ea.		5.50
1N2986B	TI	62	4.95	4.95	....
1N2986B	TI	62	100-999 Ea.		3.30
1N2987	MOT	45	5.45	5.45	*4.70
1N2987	MOT	45	100-499 Ea.		4.10
1N2987A	MOT	45	5.85	5.85	*5.05
1N2987A	MOT	45	100-499 Ea.		4.40
1N2987B	IRC	..	5.20	5.20	....
1N2987B	IRC	..	100-999 Ea.		3.95
1N2987B	MOT	45	7.30	7.30	*6.30
1N2987B	MOT	45	100-499 Ea.		5.50
1N2988	MOT	45	5.45	5.45	*4.70
1N2988	MOT	45	100-499 Ea.		4.10
1N2988	TI	62	3.60	3.60	....
1N2988	TI	62	100-999 Ea.		2.40
1N2988A	MOT	45	5.85	5.85	*5.05
1N2988A	MOT	45	100-499 Ea.		4.40
1N2988A	TI	62	3.98	3.98	....
1N2988A	TI	62	100-999 Ea.		2.65
1N2988B	IRC	..	5.20	5.20	....
1N2988B	IRC	..	100-999 Ea.		3.95
1N2988B	MOT	45	7.30	7.30	*6.30
1N2988B	MOT	45	100-499 Ea.		5.50
1N2988B	TI	62	4.95	4.95	....
1N2988B	TI	62	100-999 Ea.		3.30
1N2989	MOT	45	5.45	5.45	*4.70
1N2989	MOT	45	100-499 Ea.		4.10
1N2989	TI	62	3.60	3.60	....
1N2989	TI	62	100-999 Ea.		2.40
1N2989A	MOT	45	5.85	5.85	*5.05
1N2989A	MOT	45	100-499 Ea.		4.40
1N2989A	TI	62	3.98	3.98	....
1N2989A	TI	62	100-999 Ea.		2.65
1N2989B	IRC	..	5.20	5.20	....
1N2989B	IRC	..	100-999 Ea.		3.95
1N2989B	MOT	45	7.30	7.30	*6.30
1N2989B	MOT	45	100-499 Ea.		5.50
1N2989B	TI	62	4.95	4.95	....
1N2989B	TI	62	100-999 Ea.		3.30
1N2990	MOT	45	5.45	5.45	*4.70
1N2990	MOT	45	100-499 Ea.		4.10
1N2990	TI	62	3.60	3.60	....
1N2990	TI	62	100-999 Ea.		2.40
1N2990A	MOT	45	5.85	5.85	*5.05
1N2990A	MOT	45	100-499 Ea.		4.40
1N2990A	TI	62	3.98	3.98	....
1N2990A	TI	62	100-999 Ea.		2.65
1N2990B	IRC	..	5.20	5.20	....
1N2990B	IRC	..	100-499 Ea.		3.95
1N2990B	MOT	45	7.30	7.30	*6.30
1N2990B	MOT	45	100-499 Ea.		5.50
1N2990B	TI	62	4.95	4.95	....
1N2990B	TI	62	100-999 Ea.		3.30
1N2991	MOT	45	5.45	5.45	*4.70
1N2991	MOT	45	100-499 Ea.		4.10
1N2991	TI	62	3.60	3.60	....
1N2991	TI	62	100-999 Ea.		2.40
1N2991A	MOT	45	5.85	5.85	*5.05
1N2991A	MOT	45	100-499 Ea.		4.40
1N2991A	TI	62	3.98	3.98	....
1N2991A	TI	62	100-999 Ea.		2.65
1N2991B	IRC	..	5.20	5.20	....
1N2991B	IRC	..	100-999 Ea.		3.95
1N2991B	MOT	45	7.30	7.30	*6.30
1N2991B	MOT	45	100-499 Ea.		5.50
1N2991B	TI	62	4.95	4.95	....
1N2991B	TI	62	100-999 Ea.		3.30
1N2992	MOT	45	5.45	5.45	*4.70
1N2992	MOT	45	100-499 Ea.		4.10
1N2992	TI	62	3.60	3.60	....

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
*10 per type, 100 total per order					
1N2992	TI	62	100-999 Ea.		2.40
1N2992A	MOT	45	5.85	5.85	*5.05
1N2992A	MOT	45	100-499 Ea.		4.40
1N2992A	TI	62	3.98	3.98	....
1N2992A	TI	62	100-999 Ea.		2.65
1N2992B	IRC	..	5.20	5.20	....
1N2992B	IRC	.	100-999 Ea.		3.95
1N2992B	MOT	45	7.30	7.30	*6.30
1N2992B	MOT	45	100-499 Ea.		5.50
1N2992B	TI	62	4.95	4.95	....
1N2992B	TI	62	100-999 Ea.		3.30
1N2993	MOT	45	5.45	5.45	*4.70
1N2993	MOT	45	100-499 Ea.		4.10
1N2993	TI	62	3.60	3.60	...
1N2993	TI	62	100-999 Ea.		2.40
1N2993A	MOT	45	5.85	5.85	*5.05
1N2993A	MOT	45	100-999 Ea.		4.40
1N2993A	TI	62	3.98	3.98	....
1N2993A	TI	62	100-999 Ea.		2.65
1N2993B	IRC	.	5.20	5.20	...
1N2993B	IRC	..	100-999 Ea.		3.95
1N2993B	MOT	45	7.30	7.30	*6.30
1N2993B	MOT	45	100-499 Ea.		5.50
1N2993B	TI	62	4.95	4.95	....
1N2993B	TI	62	100-999 Ea.		3.30
1N2994	MOT	45	5.45	5.45	*4.70
1N2994	MOT	45	100-499 Ea.		4.10
1N2994	TI	62	3.60	3.60	....
1N2994	TI	62	100-999 Ea.		2.40
1N2994A	MOT	45	5.85	5.85	*5.05
1N2994A	MOT	45	100-499 Ea.		4.40
1N2994A	TI	62	3.98	3.98	...
1N2994A	TI	62	100-999 Ea.		2.65
1N2994B	IRC	.	5.20	5.20	....
1N2994B	IRC		100-999 Ea.		3.95
1N2994B	MOT	45	7.30	7.30	*6.30
1N2994B	MOT	45	100-999 Ea.		5.50
1N2994B	TI	62	4.95	4.95	....
1N2994B	TI	62	100-999 Ea.		3.30
1N2995	MOT	45	5.45	5.45	*4.70
1N2995	MOT	45	100-499 Ea.		4.10
1N2995	TI	62	3.60	3.60	....
1N2995	TI	62	100-999 Ea.		2.40
1N2995A	MOT	45	5.85	5.85	*5.05
1N2995A	MOT	45	100-499 Ea.		4.40
1N2995A	TI	62	3.98	3.98	....
1N2995A	TI	62	100-999 Ea.		2.65
1N2995B	IRC	..	5.20	5.20	....
1N2995B	IRC	..	100-999 Ea.		3.95
1N2995B	MOT	45	7.30	7.30	*6.30
1N2995B	MOT	45	100-499 Ea.		5.50
1N2995B	TI	62	4.95	4.95	....
1N2995B	TI	62	100-999 Ea.		3.30
1N2996	MOT	45	5.45	5.45	*4.70
1N2996	MOT	45	100-499 Ea.		4.10
1N2996A	MOT	45	5.85	5.85	*5.05
1N2996A	MOT	45	100-499 Ea.		4.40
1N2996B	IRC	..	5.20	5.20	...
1N2996B	IRC		100-499 Ea.		3.95
1N2996B	MOT	45	7.30	7.30	*6.30
1N2996B	MOT	45	100-499 Ea.		5.50
1N2997	MOT	45	5.45	5.45	*4.70
1N2997	MOT	45	100-499 Ea.		4.10
1N2997	TI	62	3.60	3.60	..
1N2997	TI	62	100-999 Ea.		2.40
1N2997A	MOT	45	5.85	5.85	*5.05
1N2997A	MOT	45	100-499 Ea.		4.40
1N2997A	TI	62	3.98	3.98	...
1N2997A	TI	62	100-999 Ea.		2.65
1N2997B	IRC	..	5.20	5.20	.
1N2997B	IRC	..	100-999 Ea.		3.95
1N2997B	MOT	45	7.30	7.30	*6.30
1N2997B	MOT	45	100-499 Ea.		5.50
1N2997B	TI	62	4.95	4.95	....
1N2997B	TI	62	100-999 Ea.		3.30
1N2998	MOT	45	5.45	5.45	*4.70
1N2998	MOT	45	100-499 Ea.		4.10
1N2998	TI	62	3.60	3.60	....
1N2998	TI	62	100-999 Ea.		2.40
1N2998A	MOT	45	5.85	5.85	*5.05
1N2998A	MOT	45	100-499 Ea.		4.40
1N2998A	TI	62	3.98	3.98	...
1N2998A	TI	62	100-999 Ea.		2.65
1N2998B	IRC		5.20	5.20	...
1N2998B	IRC	.	100-999 Ea.		3.95
1N2998B	MOT	45	7.30	7.30	*6.30
1N2998B	MOT	45	100-499 Ea.		5.50
1N2998B	TI	62	4.95	4.95	..
1N2998B	TI	62	100-999 Ea.		3.30
1N2999	MOT	45	5.45	5.45	*4.70
1N2999	MOT	45	100-499 Ea.		4.10
1N2999	TI	62	3.60	3.60	....
1N2999	TI	62	100-999 Ea.		2.40
1N2999A	MOT	45	5.85	5.85	*5.05
1N2999A	MOT	45	100-499 Ea.		4.40
1N2999A	TI	62	3.98	3.98	....
1N2999A	TI	62	100-999 Ea.		2.65
1N2999B	IRC	..	5.20	5.20	....
1N2999B	IRC	..	100-999 Ea.		3.95
1N2999B	MOT	45	7.30	7.30	*6.30
1N2999B	MOT	45	100-499 Ea.		5.50
1N2999B	TI	62	4.95	4.95	....
1N2999B	TI	62	100-999 Ea.		3.30
1N3000	MOT	45	5.45	5.45	*4.70
1N3000	MOT	45	100-499 Ea.		4.10
1N3000	TI	62	3.60	3.60	....
1N3000	TI	62	100-999 Ea.		2.40
1N3000A	MOT	45	5.85	5.85	*5.05
1N3000A	MOT	45	100-499 Ea.		4.40
1N3000A	TI	62	3.98	3.98	....
1N3000A	TI	62	100-999 Ea.		2.65
1N3000B	IRC	..	5.20	5.20	....
1N3000B	IRC	..	100-999 Ea.		3.95
1N3000B	MOT	45	7.30	7.30	*6.30
1N3000B	MOT	45	100-499 Ea.		5.50
1N3000B	TI	62	4.95	4.95	....
1N3000B	TI	62	100-999 Ea.		3.30
1N3001	MOT	45	5.45	5.45	*4.70
1N3001	MOT	45	100-499 Ea.		4.10
1N3001	TI	62	3.60	3.60	....
1N3001	TI	62	100-999 Ea.		2.40
1N3001A	MOT	45	5.85	5.85	*5.05
1N3001A	MOT	45	100-499 Ea.		4.40
1N3001A	TI	62	3.98	3.98	....
1N3001A	TI	62	100-999 Ea.		2.65
1N3001B	IRC	..	5.20	5.20	....
1N3001B	IRC	..	100-999 Ea.		3.95
1N3001B	MOT	45	7.30	7.30	*6.30
1N3001B	MOT	45	100-499 Ea.		5.50
1N3001B	TI	62	4.95	4.95	...
1N3001B	TI	62	100-999 Ea.		3.30
1N3002	MOT	45	5.45	5.45	*4.70
1N3002	MOT	45	100-499 Ea.		4.10
1N3002	TI	62	3.60	3.60	....
1N3002	TI	62	100-999 Ea.		2.40
1N3002A	MOT	45	5.85	5.85	*5.05
1N3002A	MOT	45	100-499 Ea.		4.40
1N3002A	TI	62	3.98	3.98	....
1N3002A	TI	62	100-999 Ea.		2.65
1N3002B	IRC	..	5.20	5.20	....
1N3002B	IRC	..	100-999 Ea.		3.95
1N3002B	MOT	45	7.30	7.30	*6.30
1N3002B	MOT	45	100-499 Ea.		5.50
1N3002B	TI	62	4.95	4.95	....
1N3002B	TI	62	100-999 Ea.		3.30
1N3003	MOT	45	5.45	5.45	*4.70
1N3003	MOT	45	100-499 Ea.		4.10
1N3003	TI	62	3.60	3.60	....
1N3003	TI	62	100-999 Ea.		2.40
1N3003A	MOT	45	5.85	5.85	*5.05
1N3003A	MOT	45	100-499 Ea.		4.40
1N3003A	TI	62	3.98	3.98	....
1N3003A	TI	62	100-999 Ea.		2.65
1N3003B	IRC	..	5.20	5.20	....
1N3003B	IRC	..	100-999 Ea.		3.95
1N3003B	MOT	45	7.30	7.30	*6.30
1N3003B	MOT	45	100-499 Ea.		5.50
1N3003B	TI	62	4.95	4.95	..
1N3003B	TI	62	100-999 Ea.		3.30
1N3004	MOT	45	5.45	5.45	*4.70
1N3004	MOT	45	100-499 Ea.		4.10
1N3004	TI	62	3.60	3.60	...
1N3004	TI	62	100-999 Ea.		2.40
1N3004A	MOT	45	5.85	5.85	2.40
1N3004A	MOT	45	100-499 Ea.		4.40
1N3004A	TI	62	3.98	3.98	....
1N3004A	TI	62	100-999 Ea.		2.65
1N3004B	IRC	.	5.20	5.20	...
1N3004B	IRC	.	100-999 Ea.		3.95
1N3004B	MOT	45	7.30	7.30	*6.30
1N3004B	MOT	45	100-499 Ea.		5.50
1N3004B	TI	62	4.95	4.95	...
1N3004B	TI	62	100-999 Ea.		3.30
1N3005	MOT	45	5.45	5.45	*4.70
1N3005	MOT	45	100-499 Ea.		4.10
1N3005	TI	62	3.60	3.60	...
1N3005	TI	62	100-999 Ea.		2.40
1N3005A	MOT	45	5.85	5.85	*5.05
1N3005A	MOT	45	100-499 Ea.		4.40
1N3005A	TI	62	3.98	3.98	....
1N3005A	TI	62	100-999 Ea.		2.65
1N3005B	IRC	..	5.20	5.20	...
1N3005B	IRC	..	100-999 Ea.		3.95
1N3005B	MOT	45	7.30	7.30	*6.30
1N3005B	MOT	45	100-499 Ea.		5.50
1N3005B	TI	62	4.95	4.95	....
1N3005B	TI	62	100-999 Ea.		3.30
1N3006	MOT	45	5.45	5.45	*4.70
1N3006	MOT	45	100-499 Ea.		4.10
1N3006A	MOT	45	5.85	5.85	*5.05
1N3006A	MOT	45	100-499 Ea.		4.40
1N3006B	IRC	..	5.20	5.20	.
1N3006B	IRC	.	100-999 Ea.		3.95
1N3006B	MOT	45	7.30	7.30	*6.30
1N3006B	MOT	45	100-499 Ea.		5.50
1N3007	MOT	45	5.45	5.45	*4.70
1N3007	MOT	45	100-499 Ea.		4.10
1N3007	TI	62	3.60	3.60	...
1N3007	TI	62	100-999 Ea.		2.40
1N3007A	MOT	45	5.85	5.85	*5.05
1N3007A	MOT	45	100-499 Ea.		4.40
1N3007A	TI	62	3.98	3.98	...
1N3007A	TI	62	100-999 Ea.		2.65
1N3007B	IRC	..	5.20	5.20	
1N3007B	IRC		100-999 Ea.		3.95
1N3007B	MOT	45	7.30	7.30	*6.30
1N3007B	MOT	45	100-499 Ea.		5.50
1N3007B	TI	62	4.95	4.95	..
1N3007B	TI	62	100-999 Ea.		3.30
1N3008	MOT	45	5.45	5.45	*4.70
1N3008	MOT	45	100-499 Ea.		4.10
1N3008	TI	62	3.60	3.60	....

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 1N3010 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Asst
*10 per type, 100 total per order					
1N3008	TI	62	100-999 Ea.		2.40
1N3008A	MOT	45	5.85	5.85	*5.05
1N3008A	MOT	45	100-499 Ea.		4.40
1N3008A	TI	62	3.98	3.98	....
1N3008A	TI	62	100-999 Ea.		2.65
1N3008B	IRC	.	5.20	5.20	...
1N3008B	IRC	.	100-999 Ea.		3.95
1N3008B	MOT	45	7.30	7.30	*6.30
1N3008B	MOT	45	100-499 Ea.		5.50
1N3008B	TI	62	4.95	4.95	....
1N3008B	TI	62	100-999 Ea.		3.30
1N3009	MOT	45	5.45	5.45	*4.70
1N3009	MOT	45	100-499 Ea.		4.10
1N3009	TI	62	3.60	3.60	....
1N3009	TI	62	100-999 Ea.		2.40
1N3009A	MOT	45	5.85	5.85	*5.05
1N3009A	MOT	45	100-499 Ea.		4.40
1N3009A	TI	62	3.98	3.98	....
1N3009A	TI	62	100-999 Ea.		2.65
1N3009B	IRC	..	5.20	5.20	...
1N3009B	IRC	..	100-999 Ea.		3.95
1N3009B	MOT	45	7.30	7.30	*6.30
1N3009B	MOT	45	100-499 Ea.		5.50
1N3009B	TI	62	4.95	4.95	..
1N3009B	TI	62	100-999 Ea.		3.30
1N3010	MOT	45	5.45	5.45	*4.70
1N3010	MOT	45	100-499 Ea.		4.10
1N3010	TI	62	3.60	3.60	....
1N3010	TI	62	100-999 Ea.		2.40
1N3010A	MOT	45	5.85	5.85	*5.05
1N3010A	MOT	45	100-499 Ea.		4.40
1N3010A	TI	62	3.98	3.98	...
1N3010A	TI	62	100-999 Ea.		2.65
1N3010B	IRC	..	5.20	5.20	..
1N3010B	IRC	..	100-999 Ea.		3.95
1N3010B	MOT	45	7.30	7.30	*6.30
1N3010B	MOT	45	100-499 Ea.		5.50
1N3010B	TI	62	4.95	4.95	..
1N3010B	TI	62	100-999 Ea.		3.30
1N3011	MOT	45	5.45	5.45	*4.70
1N3011	MOT	45	100-499 Ea.		4.10
1N3011	TI	62	3.60	3.60	...
1N3011	TI	62	100-999 Ea.		2.40
1N3011A	MOT	45	5.85	5.85	*5.05
1N3011A	MOT	45	100-499 Ea.		4.40
1N3011A	TI	62	3.98	3.98	...
1N3011A	TI	62	100-999 Ea.		2.65
1N3011B	IRC	.	5.20	5.20	.
1N3011B	IRC	.	100-999 Ea.		3.95
1N3011B	MOT	45	7.30	7.30	*6.30
1N3011B	MOT	45	100-499 Ea.		5.50
1N3011B	TI	62	4.95	4.95	..
1N3011B	TI	62	100-999 Ea.		3.30
1N3012	MOT	45	6.00	6.00	*5.15
1N3012	MOT	45	100-499 Ea.		4.50
1N3012	TI	..	4.05	4.05	...
1N3012	TI	..	100-999 Ea.		2.70
1N3012A	MOT	45	9.00	9.00	7.75
1N3012A	MOT	45	100-499 Ea.		6.75
1N3012A	TI	..	5.85	5.85	
1N3012A	TI	.	100-999 Ea.		3.90
1N3012B	IRC	..	6.50	6.50	....
1N3012B	IRC	..	100-999 Ea.		5.40
1N3012B	MOT	45	13.75	13.75	*11.90
1N3012B	MOT	45	100-499 Ea.		10.35
1N3012B	TI	.	9.30	9.30	....
1N3012B	TI	..	100-999 Ea.		6.20
1N3013	MOT	45	6.00	6.00	*5.15
1N3013	MOT	45	100-499 Ea.		4.50
1N3013A	MOT	45	9.00	9.00	*7.75
1N3013A	MOT	45	100-499 Ea.		6.75

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
1N3013B	IRC	..	6.50	6.50	....
1N3013B	IRC	..	100-999 Ea.		5.40
1N3013B	MOT	45	13.75	13.75	*11.90
1N3013B	MOT	45	100-499 Ea.		10.35
1N3014	MOT	45	6.00	6.00	*5.15
1N3014	MOT	45	100-499 Ea.		4.50
1N3014	TI	..	4.05	4.05	....
1N3014	TI	..	100-999 Ea.		2.70
1N3014A	MOT	45	9.00	9.00	*7.75
1N3014A	MOT	45	100-499 Ea.		6.75
1N3014A	TI	..	5.85	5.85	....
1N3014A	TI	..	100-999 Ea.		3.90
1N3014B	IRC	..	6.50	6.50	....
1N3014B	IRC	..	100-999 Ea.		5.40
1N3014B	MOT	45	13.75	13.75	*11.90
1N3014B	MOT	45	100-499 Ea.		10.35
1N3014B	TI	..	9.30	9.30	....
1N3014B	TI	..	100-999 Ea.		6.20
1N3015	MOT	45	6.00	6.00	*5.15
1N3015	MOT	45	100-499 Ea.		4.50
1N3015	TI	..	4.05	4.05	....
1N3015	TI	..	100-999 Ea.		2.70
1N3015A	MOT	45	9.00	9.00	*7.75
1N3015A	MOT	45	100-499 Ea.		6.75
1N3015A	TI	..	5.85	5.85	....
1N3015A	TI	..	100-999 Ea.		3.90
1N3015B	IRC	..	6.50	6.50	....
1N3015B	IRC	..	100-999 Ea.		5.40
1N3015B	MOT	45	13.75	13.75	*11.90
1N3015B	MOT	45	100-499 Ea.		10.35
1N3015B	TI	..	9.30	9.30	....
1N3015B	TI	..	100-999 Ea.		6.20
1N3016	MOT	44	2.85	2.85	*2.45
1N3016	MOT	44	100-999 Ea.		2.15
1N3016	TI	61	2.36	2.36	....
1N3016	TI	61	100-999 Ea.		2.05
1N3016A	MOT	44	3.20	3.20	*2.75
1N3016A	MOT	44	100-999 Ea.		2.40
1N3016A	TI	61	2.59	2.59	....
1N3016A	TI	61	100-999 Ea.		2.25
1N3016B	IR	82	3.40	3.40	3.05
1N3016B	IR	82	100-999 Ea.		2.70
1N3016B	MOT	44	3.70	3.70	*3.20
1N3016B	MOT	44	100-999 Ea.		2.80
1N3016B	TI	61	2.89	2.89	....
1N3016B	TI	61	100-999 Ea.		2.60
1N3017	MOT	44	2.85	2.85	*2.45
1N3017	MOT	44	100-999 Ea.		2.15
1N3017	TI	61	2.36	2.36	....
1N3017	TI	61	100-999 Ea.		2.05
1N3017A	MOT	44	3.20	3.20	*2.75
1N3017A	MOT	44	100-999 Ea.		2.40
1N3017A	TI	61	2.59	2.59	....
1N3017A	TI	61	100-999 Ea.		2.25
1N3017B	IR	82	3.40	3.40	3.05
1N3017B	IR	82	100-999 Ea.		2.70
1N3017B	MOT	44	3.70	3.70	*3.20
1N3017B	MOT	44	100-999 Ea.		2.80
1N3017B	TI	61	2.89	2.89	....
1N3017B	TI	61	100-999 Ea.		2.60
1N3018	MOT	44	2.85	2.45	2.15
1N3018	TI	61	2.36	2.36	....
1N3018	TI	61	100-999 Ea.		2.05
1N3018A	MOT	44	3.20	2.75	2.40
1N3018A	TI	61	2.59	2.59	....
1N3018A	TI	61	100-999 Ea.		2.25
1N3018B	IR	82	3.40	3.40	3.05
1N3018B	IR	82	100-999 Ea.		2.70
1N3018B	MOT	44	3.70	3.70	*3.20
1N3018B	MOT	44	100-999 Ea.		2.80
1N3018B	TI	61	2.89	2.89	....
1N3018B	TI	61	100-999 Ea.		2.60
1N3019	MOT	44	2.85	2.85	2.45
1N3019	MOT	44	100-999 Ea.		2.15
1N3019	TI	61	2.36	2.36	....
1N3019	TI	61	100-999 Ea.		2.05
1N3019A	MOT	44	3.20	3.20	2.75
1N3019A	MOT	44	100-999 Ea.		2.40
1N3019A	TI	61	2.59	2.59	....
1N3019A	TI	61	100-999 Ea.		2.25
1N3019B	IR	82	3.40	3.40	3.05
1N3019B	IR	82	100-999 Ea.		2.70
1N3019B	MOT	44	3.70	3.70	*3.20
1N3019B	MOT	44	100-999 Ea.		2.80
1N3019B	TI	61	2.89	2.89	....
1N3019B	TI	61	100-999 Ea.		2.60
1N3020	MOT	44	2.85	2.85	*2.45
1N3020	MOT	44	100-999 Ea.		2.15
1N3020	TI	61	2.36	2.36	....
1N3020	TI	61	100-999 Ea.		2.05
1N3020A	MOT	44	3.20	3.20	2.75
1N3020A	MOT	44	100-999 Ea.		2.40
1N3020A	TI	61	2.59	2.59	....
1N3020A	TI	61	100-999 Ea.		2.25
1N3020B	IR	82	3.40	3.40	3.05
1N3020B	IR	82	100-999 Ea.		2.70
1N3020B	MOT	44	3.70	3.70	*3.20
1N3020B	MOT	44	100-999 Ea.		2.80
1N3020B	TI	61	2.89	2.89	....
1N3020B	TI	61	100-999 Ea.		2.60
1N3021	MOT	44	2.85	2.85	2.45
1N3021	MOT	44	100-999 Ea.		2.40
1N3021	TI	61	2.36	2.36	....
1N3021	TI	61	100-999 Ea.		2.05
1N3021A	MOT	44	3.20	3.20	*2.75
1N3021A	MOT	44	100-999 Ea.		2.40
1N3021A	TI	61	2.59	2.59	....
1N3021A	TI	61	100-999 Ea.		2.25
1N3021B	IR	82	3.40	3.40	3.05
1N3021B	IR	82	100-999 Ea.		2.70
1N3021B	MOT	44	3.70	3.70	*3.20
1N3021B	MOT	44	100-999 Ea.		2.80
1N3021B	TI	61	2.89	2.89	....
1N3021B	TI	61	100-999 Ea.		2.60
1N3022	MOT	44	2.85	2.85	*2.45
1N3022	MOT	44	100-999 Ea.		2.15
1N3022	TI	61	2.36	2.36	....
1N3022	TI	61	100-999 Ea.		2.05
1N3022A	MOT	44	3.20	3.20	*2.75
1N3022A	MOT	44	100-999 Ea.		2.40
1N3022A	TI	61	2.59	2.59	....
1N3022A	TI	61	100-999 Ea.		2.25
1N3022B	IR	82	3.40	3.40	3.05
1N3022B	IR	82	100-999 Ea.		2.70
1N3022B	MOT	44	3.70	3.70	*3.20
1N3022B	MOT	44	100-999 Ea.		2.80
1N3022B	TI	61	2.89	2.89	...
1N3022B	TI	61	100-999 Ea.		2.60
1N3023	MOT	44	2.85	2.85	*2.45
1N3023	MOT	44	100-999 Ea.		2.15
1N3023	TI	61	2.36	2.36	....
1N3023	TI	61	100-999 Ea.		2.05
1N3023A	MOT	44	3.20	3.20	*2.75
1N3023A	MOT	44	100-999 Ea.		2.40
1N3023A	TI	61	2.59	2.59	....
1N3023A	TI	61	100-999 Ea.		2.25
1N3023B	IR	82	3.40	3.40	3.05
1N3023B	IR	82	100-999 Ea.		2.70
1N3023B	MOT	44	3.70	3.70	*3.20
1N3023B	MOT	44	100-999 Ea.		2.80
1N3023B	TI	61	2.89	2.89	..
1N3023B	TI	61	100-999 Ea.		2.60
1N3024	MOT	44	2.85	2.85	*2.45
1N3024	MOT	44	100-999 Ea.		2.15
1N3024	TI	61	2.36	2.36	....
1N3024	TI	61	100-999 Ea.		2.05
1N3024A	MOT	44	3.20	3.20	*2.75
1N3024A	MOT	44	100-999 Ea.		2.40
1N3024A	TI	61	2.59	2.59	....
1N3024A	TI	61	100-999 Ea.		2.25
1N3024B	IR	82	3.40	3.40	3.05
1N3024B	IR	82	100-999 Ea.		2.70
1N3024B	MOT	44	3.70	3.70	*3.20
1N3024B	MOT	44	100-999 Ea.		2.80
1N3024B	TI	61	2.89	2.89	....
1N3024B	TI	61	100-999 Ea.		2.60
1N3025	MOT	44	2.85	2.85	*2.45
1N3025	MOT	44	100-999 Ea.		2.15
1N3025	TI	61	2.36	2.36	....
1N3025	TI	61	100-999 Ea.		2.05
1N3025A	MOT	44	3.20	3.20	*2.75
1N3025A	MOT	44	100-999 Ea.		2.40
1N3025A	TI	61	2.59	2.59	....
1N3025A	TI	61	100-999 Ea.		2.25
1N3025B	IR	82	3.40	3.40	3.05
1N3025B	IR	82	100-999 Ea.		2.70
1N3025B	MOT	44	3.70	3.70	*3.20
1N3025B	MOT	44	100-999 Ea.		2.80
1N3025B	TI	61	2.89	2.89	...
1N3025B	TI	61	100-999 Ea.		2.60
1N3026	MOT	44	2.85	2.85	*2.45
1N3026	MOT	44	100-999 Ea.		2.15
1N3026	TI	61	2.36	2.36	....
1N3026	TI	61	100-999 Ea.		2.05
1N3026A	MOT	44	3.20	3.20	*2.75
1N3026A	MOT	44	100-999 Ea.		2.40
1N3026A	TI	61	2.59	2.59	....
1N3026A	TI	61	100-999 Ea.		2.25
1N3026B	IR	82	3.40	3.40	3.05
1N3026B	IR	82	100-999 Ea.		2.70
1N3026B	MOT	44	3.70	3.70	*3.20
1N3026B	MOT	44	100-999 Ea.		2.80
1N3026B	TI	61	2.89	2.89	....
1N3026B	TI	61	100-999 Ea.		2.60
1N3027	MOT	44	2.85	2.85	*2.45
1N3027	MOT	44	100-999 Ea.		2.15
1N3027	TI	61	2.36	2.36	....
1N3027	TI	61	100-999 Ea.		2.05
1N3027A	MOT	44	3.20	3.20	*2.75
1N3027A	MOT	44	100-999 Ea.		2.40
1N3027A	TI	61	2.59	2.59	....
1N3027A	TI	61	100-999 Ea.		2.25
1N3027B	IR	82	3.40	3.40	3.05
1N3027B	IR	82	100-999 Ea.		2.70
1N3027B	MOT	44	3.70	3.70	*3.20
1N3027B	MOT	44	100-999 Ea.		2.80
1N3027B/USN	MOT	..	4.00	4.00	*3.45
1N3027B/USN	MOT	..	100-999 Ea.		3.00
1N3027B	TI	61	2.89	2.89	....
1N3027B	TI	61	100-999 Ea.		2.60
1N3028	TI	61	2.36	2.36	....
1N3028	TI	61	100-999 Ea.		2.05
1N3028	MOT	44	2.85	2.85	*2.45
1N3028	MOT	44	100-999 Ea.		2.15
1N3028A	MOT	44	3.20	3.20	*2.75
1N3028A	MOT	44	100-999 Ea.		2.40
1N3028A	TI	61	2.59	2.59	....
1N3028A	TI	61	100-999 Ea.		2.25
1N3028B	IR	82	3.40	3.40	3.05
1N3028B	IR	82	100-999 Ea.		2.70
1N3028B	MOT	44	3.70	3.70	*3.20
1N3028B	MOT	44	100-999 Ea.		2.80
1N3028B	TI	61	2.89	2.89	....
1N3028B	TI	61	100-999 Ea.		2.60
1N3029	MOT	44	2.85	2.85	*2.45
1N3029	MOT	44	100-999 Ea.		2.15
1N3029	TI	61	2.36	2.36	....
1N3029	TI	61	100-999 Ea.		2.05
1N3029A	MOT	44	3.20	3.20	*2.75
1N3029A	MOT	44	100-999 Ea.		2.40
1N3029A	TI	61	2.59	2.59	....
1N3029A	TI	61	100-999 Ea.		2.25
1N3029B	IR	82	3.40	3.40	3.05
1N3029B	IR	82	100-999 Ea.		2.70
1N3029B	MOT	44	3.70	3.70	*3.20
1N3029B	MOT	44	100-999 Ea.		2.80
1N3029B	TI	61	2.89	2.89	...
1N3029B	TI	61	100-999 Ea.		2.60
1N3030	MOT	44	2.85	2.85	*2.45
1N3030	MOT	44	100-999 Ea.		2.15
1N3030	TI	61	2.36	2.36	....
1N3030	TI	61	100-999 Ea.		2.05
1N3030A	MOT	44	3.20	3.20	*2.75
1N3030A	MOT	44	100-999 Ea.		2.40
1N3030A	TI	61	2.59	2.59	....
1N3030A	TI	61	100-999 Ea.		2.25
1N3030B	IR	82	3.40	3.40	3.05
1N3030B	IR	82	100-999 Ea.		2.70
1N3030B	MOT	44	3.70	3.70	*3.20
1N3030B	MOT	44	100-999 Ea.		2.80
1N3030B	TI	61	2.89	2.89	....
1N3030B	TI	61	100-999 Ea.		2.60
1N3031	MOT	44	2.85	2.85	*2.45
1N3031	MOT	44	100-999 Ea.		2.15
1N3031	TI	61	2.36	2.36	....
1N3031	TI	61	100-999 Ea.		2.05
1N3031A	MOT	44	3.20	3.20	*2.75
1N3031A	MOT	44	100-999 Ea.		2.40
1N3031A	TI	61	2.59	2.59	....
1N3031A	TI	61	100-999 Ea.		2.25
1N3031B	IR	82	3.40	3.40	3.05
1N3031B	IR	82	100-999 Ea.		2.70
1N3031B	MOT	44	3.70	3.70	*3.20
1N3031B	MOT	44	100-999 Ea.		2.80
1N3031B	TI	61	2.89	2.89	....
1N3031B	TI	61	100-999 Ea.		2.60
1N3032	MOT	44	2.85	2.85	*2.45
1N3032	MOT	44	100-999 Ea.		2.15
1N3032	TI	61	2.36	2.36	...
1N3032	TI	61	100-999 Ea.		2.05
1N3032A	MOT	44	3.20	3.20	*2.75
1N3032A	MOT	44	100-999 Ea.		2.40
1N3032A	TI	61	2.59	2.59	....
1N3032A	TI	61	100-999 Ea.		2.25
1N3032B	IR	82	3.40	3.40	3.05
1N3032B	IR	82	100-999 Ea.		2.70
1N3032B	MOT	44	3.70	3.70	*3.20
1N3032B	MOT	44	100-999 Ea.		2.80
1N3032B	TI	61	2.89	2.89	....
1N3032B	TI	61	100-999 Ea.		2.60
1N3033	MOT	44	2.85	2.85	*2.45
1N3033	MOT	44	100-999 Ea.		2.15
1N3033	TI	61	2.36	2.36	....
1N3033	TI	61	100-999 Ea.		2.05
1N3033A	MOT	44	3.20	3.20	*2.75
1N3033A	MOT	44	100-999 Ea.		2.40
1N3033A	TI	61	2.59	2.59	....
1N3033A	TI	61	100-999 Ea.		2.25
1N3033B	IR	82	3.40	3.40	3.05
1N3033B	IR	82	100-999 Ea.		2.70
1N3033B	MOT	44	3.70	3.70	*3.20
1N3033B	MOT	44	100-999 Ea.		2.80
1N3033B	TI	61	2.89	2.89	....
1N3033B	TI	61	100-999 Ea.		2.60
1N3034	MOT	44	2.85	2.85	*2.45
1N3034	MOT	44	100-999 Ea.		2.15
1N3034	TI	61	2.36	2.36	....
1N3034	TI	61	100-999 Ea.		2.05
1N3034A	MOT	44	3.20	3.20	*2.75
1N3034A	MOT	44	100-999 Ea.		2.40
1N3034A	TI	61	2.59	2.59	....
1N3034A	TI	61	100-999 Ea.		2.25
1N3034B	IR	82	3.40	3.40	3.05
1N3034B	IR	82	100-999 Ea.		2.70
1N3034B	MOT	44	3.70	3.70	*3.20
1N3034B	MOT	44	100-999 Ea.		2.80
1N3034B	TI	61	2.89	2.89	....
1N3034B	TI	61	100-999 Ea.		2.60
1N3035	MOT	44	2.85	2.85	*2.45
1N3035	MOT	44	100-999 Ea.		2.15
1N3035	TI	61	2.36	2.36	....
1N3035	TI	61	100-999 Ea.		2.05
1N3035A	MOT	44	3.20	3.20	*2.75

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
*10 per type, 100 total per order					
1N3035A	MOT	44	100-999 Ea.		2.40
1N3035A	TI	61	2.59	2.59	....
1N3035A	TI	61	100-999 Ea.		2.25
1N3035B	IR	82	3.40	3.40	3.05
1N3035B	IR	82	100-999 Ea.		2.70
1N3035B	MOT	44	3.70	3.70	*3.20
1N3035B	MOT	44	100-999 Ea.		2.80
1N3035B	TI	61	2.89	2.89	....
1N3035B	TI	61	100-999 Ea.		2.60
1N3036	MOT	44	2.85	2.85	2.45
1N3036	MOT	44	100-999 Ea.		2.15
1N3036	TI	61	2.36	2.36	....
1N3036	TI	61	100-999 Ea.		2.05
1N3036A	MOT	44	3.20	3.20	*2.75
1N3036A	MOT	44	100-999 Ea.		2.40
1N3036A	TI	61	2.59	2.59	....
1N3036A	TI	61	100-999 Ea.		2.25
1N3036B	IR	82	3.40	3.40	3.05
1N3036B	IR	82	100-999 Ea.		2.70
1N3036B	MOT	44	3.70	3.70	*3.20
1N3036B	MOT	44	100-999 Ea.		2.80
1N3036B	TI	61	2.89	2.89	....
1N3036B	TI	61	100-999 Ea.		2.60
1N3037	MOT	44	2.85	2.85	*2.45
1N3037	MOT	44	100-999 Ea.		2.15
1N3037	TI	61	2.36	2.36	....
1N3037	TI	61	100-999 Ea.		2.05
1N3037A	MOT	44	3.20	3.20	*2.75
1N3037A	MOT	44	100-999 Ea.		2.40
1N3037A	TI	61	2.59	2.59	....
1N3037A	TI	61	100-999 Ea.		2.25
1N3037B	IR	82	3.40	3.40	3.05
1N3037B	IR	82	100-999 Ea.		2.70
1N3037B	MOT	44	3.70	3.70	*3.20
1N3037B	MOT	44	100-999 Ea.		2.80
1N3037B	TI	61	2.89	2.89	....
1N3037B	TI	61	100-999 Ea.		2.60
1N3038	MOT	44	2.85	2.85	*2.45
1N3038	MOT	44	100-999 Ea.		2.15
1N3038	TI	61	2.36	2.36	....
1N3038	TI	61	100-999 Ea.		2.05
1N3038A	MOT	44	3.20	3.20	*2.75
1N3038A	MOT	44	100-999 Ea.		2.40
1N3038A	TI	61	2.59	2.59	....
1N3038A	TI	61	100-999 Ea.		2.25
1N3038B	IR	82	3.40	3.05	....
1N3038B	IR	82	100-999 Ea.		2.70
1N3038B	MOT	44	3.70	3.70	*3.20
1N3038B	MOT	44	100-999 Ea.		2.80
1N3038B	TI	61	2.89	2.89	....
1N3038B	TI	61	100-999 Ea.		2.60
1N3039	MOT	44	2.85	2.85	*2.45
1N3039	MOT	44	100-999 Ea.		2.15
1N3039	TI	61	2.36	2.36	....
1N3039	TI	61	100-999 Ea.		2.05
1N3039A	MOT	44	3.20	3.20	*2.75
1N3039A	MOT	44	100-999 Ea.		2.40
1N3039A	TI	61	2.59	2.59	....
1N3039A	TI	61	100-999 Ea.		2.25
1N3039B	IR	82	3.40	3.40	3.05
1N3039B	IR	82	100-999 Ea.		2.70
1N3039B	MOT	44	3.70	3.70	*3.20
1N3039B	MOT	44	100-999 Ea.		2.80
1N3039B	TI	61	2.89	2.89	....
1N3039B	TI	61	100-999 Ea.		2.60
1N3040	MOT	44	2.85	2.85	*2.45
1N3040	MOT	44	100-999 Ea.		2.15
1N3040	TI	61	2.36	2.36	....
1N3040	TI	61	100-999 Ea.		2.05
1N3040A	MOT	44	3.20	3.20	*2.75
1N3040A	MOT	44	100-999 Ea.		2.40
1N3040A	TI	61	2.59	2.59	....
1N3040A	TI	61	100-999 Ea.		2.25
1N3040B	IR	82	3.40	3.40	3.05
1N3040B	IR	82	100-999 Ea.		2.70
1N3040B	MOT	44	3.70	3.70	*3.20
1N3040B	MOT	44	100-999 Ea.		2.80
1N3040B	TI	61	2.89	2.89	....
1N3040B	TI	61	100-999 Ea.		2.60
1N3041	MOT	44	2.85	2.85	*2.45
1N3041	MOT	44	100-999 Ea.		2.15
1N3041	TI	61	2.36	2.36	....
1N3041	TI	61	100-999 Ea.		2.05
1N3041A	MOT	44	3.20	3.20	2.75
1N3041A	MOT	44	100-999 Ea.		2.40
1N3041A	TI	61	2.59	2.59	....
1N3041A	TI	61	100-999 Ea.		2.25
1N3041B	IR	82	3.40	3.40	3.05
1N3041B	IR	82	100-999 Ea.		2.70
1N3041B	MOT	44	3.70	3.70	*3.20
1N3041B	MOT	44	100-999 Ea.		2.80
1N3041B	TI	61	2.89	2.89	....
1N3041B	TI	61	100-999 Ea.		2.60
1N3042	MOT	44	2.85	2.85	*2.45
1N3042	MOT	44	100-999 Ea.		2.15
1N3042	TI	61	2.36	2.36	....
1N3042	TI	61	100-999 Ea.		2.05
1N3042A	MOT	44	3.20	3.20	*2.75
1N3042A	MOT	44	100-999 Ea.		2.40
1N3042A	TI	61	2.59	2.59	....
1N3042A	TI	61	100-999 Ea.		2.25
1N3042B	IR	82	3.40	3.40	3.05
1N3042B	IR	82	100-999 Ea.		2.70
1N3042B	MOT	44	3.70	3.70	*3.20
1N3042B	MOT	44	100-999 Ea.		2.80
1N3042B	TI	61	2.89	2.89	....
1N3042B	TI	61	100-999 Ea.		2.60
1N3043	MOT	44	2.85	2.85	*2.45
1N3043	MOT	44	100-999 Ea.		2.15

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100 Ass't
*10 per type, 100 total per order					
1N3043	TI	61	2.36	2.36	....
1N3043	TI	61	100-999 Ea.		2.05
1N3043A	MOT	44	3.20	2.75	2.40
1N3043A	TI	61	2.59	2.59	....
1N3043A	TI	61	100-999 Ea.		2.25
1N3043B	IR	82	3.40	3.40	3.05
1N3043B	IR	82	100-999 Ea.		2.70
1N3043B	MOT	44	3.70	3.70	*3.20
1N3043B	MOT	44	100-999 Ea.		2.80
1N3043B	TI	61	2.89	2.89	....
1N3043B	TI	61	100-999 Ea.		2.60
1N3044	MOT	44	2.85	2.45	2.15
1N3044	TI	61	2.36	2.36	....
1N3044	TI	61	100-999 Ea.		2.05
1N3044A	MOT	44	3.20	2.75	2.40
1N3044A	TI	61	2.59	2.59	....
1N3044A	TI	61	100-999 Ea.		2.25
1N3044B	IR	82	3.40	3.40	3.05
1N3044B	IR	82	100-999 Ea.		2.70
1N3044B	MOT	44	3.70	3.70	*3.20
1N3044B	MOT	44	100-999 Ea.		2.80
1N3044B	TI	61	2.89	2.89	....
1N3044B	TI	61	100-999 Ea.		2.60
1N3045	MOT	44	2.95	2.55	2.20
1N3045	TI	61	2.55	2.55	....
1N3045	TI	61	100-999 Ea.		2.20
1N3045A	MOT	44	3.25	2.80	2.45
1N3045A	TI	61	2.80	2.80	....
1N3045A	TI	61	100-999 Ea.		2.45
1N3045B	IR	82	4.20	4.20	3.75
1N3045B	IR	82	100-999 Ea.		3.35
1N3045B	MOT	44	4.65	4.65	*4.05
1N3045B	MOT	44	100-999 Ea.		3.50
1N3045B	TI	61	4.05	4.05	....
1N3045B	TI	61	100-999 Ea.		3.50
1N3046	MOT	44	2.95	2.55	2.20
1N3046	TI	61	2.55	2.55	....
1N3046	TI	61	100-999 Ea.		2.20
1N3046A	MOT	44	3.25	2.80	2.45
1N3046A	TI	61	2.80	2.80	....
1N3046A	TI	61	100-999 Ea.		2.45
1N3046B	IR	82	4.20	4.20	3.75
1N3046B	IR	82	100-999 Ea.		3.35
1N3046B	MOT	44	4.65	4.65	*4.05
1N3046B	MOT	44	100-999 Ea.		3.50
1N3046B	TI	61	2.55	2.55	....
1N3046B	TI	61	100-999 Ea.		2.20
1N3047	MOT	44	2.95	2.55	2.20
1N3047	TI	61	2.55	2.55	....
1N3047	TI	61	100-999 Ea.		2.20
1N3047A	MOT	44	3.25	2.80	2.45
1N3047A	TI	61	2.80	2.80	....
1N3047A	TI	61	100-999 Ea.		2.45
1N3047B	IR	82	4.20	4.20	3.75
1N3047B	IR	82	100-999 Ea.		3.35
1N3047B	MOT	44	4.65	4.65	*4.05
1N3047B	MOT	44	100-999 Ea.		3.50
1N3047B	TI	61	4.05	4.05	....
1N3047B	TI	61	100-999 Ea.		3.50
1N3048	MOT	44	2.95	2.55	2.20
1N3048	TI	61	2.55	2.55	....
1N3048	TI	61	100-999 Ea.		2.20
1N3048A	MOT	44	3.25	2 80	2.45
1N3048A	TI	61	2.80	2.80	....
1N3048A	TI	61	100-999 Ea.		2.45
1N3048B	IR	82	4.20	4.20	3.75
1N3048B	IR	82	100-999 Ea.		3.35
1N3048B	MOT	44	4.65	4.65	*4.05
1N3048B	MOT	44	100-999 Ea.		3.50
1N3048B	TI	61	4.05	4.05	....
1N3048B	TI	61	100-999 Ea.		3.50
1N3049	MOT	44	2.95	2.55	2.20
1N3049	TI	61	2.55	2.55	....
1N3049	TI	61	100-999 Ea.		2.20
1N3049A	MOT	44	3.25	2.80	2.45
1N3049A	TI	61	2.80	2.80	....
1N3049A	TI	61	100-999 Ea.		2.45
1N3049B	IR	82	4.20	4.20	3.75
1N3049B	IR	82	100-999 Ea.		3.35
1N3049B	MOT	44	4.65	4.65	*4.05
1N3049B	MOT	44	100-999 Ea.		3.50
1N3049B	TI	61	4.05	4.05	....
1N3049B	TI	61	100-999 Ea.		3.50
1N3050	MOT	44	2.95	2.55	2.20
1N3050	TI	61	2.55	2.55	....
1N3050	TI	61	100-999 Ea.		2.20
1N3050A	MOT	44	3.25	2.80	2.45
1N3050A	TI	61	2.80	2.80	....
1N3050A	TI	61	100-999 Ea.		2.45
1N3050B	IR	82	4.20	4.20	3.75
1N3050B	IR	82	100-999 Ea.		3.35
1N3050B	MOT	44	4.65	4.65	*4.05
1N3050B	MOT	44	100-999 Ea.		3.50
1N3050B	TI	61	4.05	4.05	....
1N3050B	TI	61	100-999 Ea.		3.50
1N3051	MOT	44	2.95	2.55	2.20
1N3051	TI	61	2.55	2.55	....
1N3051	TI	61	100-999 Ea.		2.20
1N3051A	MOT	44	3.25	2.80	2.45
1N3051A	TI	61	2.80	2.80	....
1N3051A	TI	61	100-999 Ea.		2.45
1N3051B	IR	82	4.20	4.20	3.75
1N3051B	IR	82	100-999 Ea.		3.35
1N3051B	MOT	44	4.65	4.65	*4.05
1N3051B	MOT	44	100-999 Ea.		3.50
1N3051B	TI	61	4.05	4.05	....
1N3051B	TI	61	100-999 Ea.		3.50

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 1N3045 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3063	GE	68	.67	.44
1N3064	GE	68	.67	.44
1N3064	TI	63	.67	.44
1N3067	GE	68	.83	.56
1N3068	GE	68	.62	.41
1N3069	HUG	88	1.40	1.05
1N3070	TI	63	5.25	3.50
1N3085	IR	81	8.00	....
1N3086	IR	81	14.00	....
1N3087	IR	81	17.75	....
1N3088	IR	81	20.00	....
1N3089	IR	81	22.50	....
1N3090	IR	81	24.25	....
1N3091	IR	81	30.10	....
1N3092	IR	81	42.00	....
1N3111	IR	81	7.00	....
1N3118	GE	..	9.15	6.10
1N3128	RCA	76	6.35	4.39
1N3129	RCA	76	7.59	5.24
1N3130	RCA	76	8.17	5.64

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N3143	SYL	85	5.60	4.70	4.40
1N3149	GE	..	4.70	4.70	3.15
1N3150	GE	..	4.70	4.70	3.15

Type No.	Mfr.	Page No.	EACH 1-24	25-99	*100 Ass't
*10 per type, 100 total per order					
1N3154	MOT	54	2.60	2.25	2.00
1N3154	MOT	54	100-999 Ea.		1.80
1N3154/JAN	MOT	..	3.50	3.00	2.65
1N3154/JAN	MOT	..	100-999 Ea.		2.40
1N3154A	MOT	54	3.60	3.10	2.75
1N3154A	MOT	54	100-999 Ea.		2.50
1N3155	MOT	54	3.55	3.05	2.70
1N3155	MOT	54	100-999 Ea.		2.45
1N3155/JAN	MOT	..	9.55	8.25	7.25
1N3155/JAN	MOT	..	100-999 Ea.		6.60
1N3155A	MOT	54	4.35	3.75	3.30
1N3155A	MOT	54	100-999 Ea.		3.00
1N3156	MOT	54	6.15	5.30	4.65
1N3156	MOT	54	100-999 Ea.		4.25
1N3156/JAN	MOT	..	9.55	8.25	7.25
1N3156/JAN	MOT	..	100-999 Ea.		6.60
1N3156A	MOT	54	7.10	6.10	5.40
1N3156A	MOT	54	100-999 Ea.		4.90
1N3157	MOT	54	7.60	6.55	5.75
1N3157	MOT	54	100-999 Ea.		5.25
1N3157/JAN	MOT	..	12.75	11.00	9.70
1N3157/JAN	MOT	..	100-999 Ea.		8.80
1N3157A	MOT	54	11.10	9.55	8.40
1N3157A	MOT	54	100-999 Ea.		7.65

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N3161	ST	86	14.20	12.19	11.36
1N3163	ST	86	15.80	13.50	12.60
1N3167	ST	86	24.40	20.95	19.52
1N3170	ST	86	42.40	36.20	33.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3189	GE	70	2.70	1.80
1N3190	GE	70	3.75	2.50
1N3191	GE	70	6.00	4.00
1N3193	RCA	74	.35	.24
1N3194	RCA	74	.38	.27
1N3195	RCA	74	.66	.46

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N3196	RCA	74	.91	.63
1N3208	GE	70	1.73	1.15
1N3208	MOT	53	1.15	.79
1N3209	GE	70	1.77	1.18
1N3209	MOT	53	1.30	.89
1N3209R	GE	..	1.77	1.18
1N3210	GE	70	1.82	1.21
1N3210	MOT	53	1.75	1.19
1N3211	GE	70	2.40	1.60
1N3211	MOT	53	2.40	1.60
1N3212	GE	70	2.90	1.93
1N3212	MOT	53	2.90	1.93
1N3213	GE	70	3.53	2.35
1N3213	MOT	53	5.40	3.60
1N3214	GE	70	4.20	2.80
1N3214	MOT	53	6.75	4.50
1N3253	RCA	74	.40	.28
1N3254	RCA	74	.45	.31
1N3255	RCA	74	.70	.48
1N3256	RCA	74	.94	.65
1N3282	MOT	53	2.25	1.50
1N3283	MOT	53	2.90	1.95
1N3284	MOT	53	7.95	5.30
1N3285	MOT	53	10.05	6.70
1N3289	GE	71	12.95	10.15
1N3290	GE	71	14.15	10.80
1N3291	GE	71	15.40	11.90
1N3292	GE	71	17.10	13.20
1N3293	GE	71	20.10	15.50
1N3294	GE	71	25.40	19.50
1N3295	GE	71	30.20	23.20
1N3296	GE	71	34.50	26.40

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100 Ass't	EACH 100-999
1N3305	IR	..	5.50	4.87	4.25
1N3305	MOT	45	5.65	*4.90	4.25
1N3305A	MOT	45	7.65	*6.60	5.75
1N3305B	MOT	45	10.65	*9.20	8.00
1N3306	IR	82	5.50	4.87	4.25
1N3306	MOT	45	5.65	*4.90	4.25
1N3306A	MOT	45	7.65	*6.60	5.75
1N3306B	MOT	45	10.65	*9.20	8.00
1N3307	IR	82	5.50	4.87	4.25
1N3307	MOT	45	5.65	*4.90	4.25
1N3307A	MOT	45	7.65	*6.60	5.75
1N3307B	MOT	45	10.65	*9.20	8.00
1N3308	IR	82	5.50	4.87	4.25
1N3308	MOT	45	5.65	*4.90	4.25
1N3308A	MOT	45	7.65	*6.60	5.75
1N3308B	MOT	45	10.65	*9.20	8.00
1N3309	IR	82	5.50	4.87	4.25
1N3309	MOT	45	5.65	*4.90	4.25
1N3309A	MOT	45	7.65	*6.60	5.75
1N3309B	MOT	45	10.65	*9.20	8.00
1N3310	IR	82	5.50	4.87	4.25
1N3310	MOT	45	5.65	*4.90	4.25
1N3310A	MOT	45	7.65	*6.60	5.75
1N3310B	MOT	45	10.65	*9.20	8.00
1N3311	IR	82	5.50	4.87	4.25
1N3311	MOT	45	5.65	*4.90	4.25
1N3311A	MOT	45	7.65	*6.60	5.75
1N3311B	MOT	45	10.65	*9.20	8.00
1N3312	IR	82	5.50	4.87	4.25
1N3312	MOT	45	5.65	*4.90	4.25
1N3312A	MOT	45	7.65	*6.60	5.75
1N3312B	MOT	45	10.65	*9.20	8.00
1N3313	IR	82	5.50	4.87	4.25
1N3313	MOT	45	5.65	*4.90	4.25
1N3313A	MOT	45	7.65	*6.60	5.75
1N3313B	MOT	45	10.65	*9.20	8.00
1N3314	IR	82	5.50	4.87	4.25
1N3314	MOT	45	5.65	*4.90	4.25
1N3314A	MOT	45	7.65	*6.60	5.75
1N3314B	MOT	45	10.65	*9.20	8.00
1N3315	IR	..	5.50	4.87	4.25
1N3315	MOT	45	5.65	*4.90	4.25
1N3315A	MOT	45	7.65	*6.60	5.75
1N3315B	MOT	45	10.65	*9.20	8.00
1N3316	IR	..	5.50	4.87	4.25
1N3316	MOT	45	5.65	*4.90	4.25
1N3316A	MOT	45	7.65	*6.60	5.75
1N3316B	MOT	45	10.65	*9.20	8.00
1N3317	IR	82	5.50	4.87	4.25
1N3317	MOT	45	5.65	*4.90	4.25
1N3317A	MOT	45	7.65	*6.60	5.75
1N3317B	MOT	45	10.65	*9.20	8.00
1N3318	IR	82	5.50	4.87	4.25
1N3318	MOT	45	5.65	*4.90	4.25
1N3318A	MOT	45	7.65	*6.60	5.75
1N3318B	MOT	45	10.65	*9.20	8.00
1N3319	IR	..	5.50	4.87	4.25
1N3319	MOT	45	5.65	*4.90	4.25
1N3319A	MOT	45	7.65	*6.60	5.75
1N3319B	MOT	45	10.65	*9.20	8.00
1N3320	IR	..	5.50	4.87	4.25
1N3320	MOT	45	5.65	*4.90	4.25
1N3320A	MOT	45	7.65	*6.60	5.75
1N3320B	MOT	45	10.65	*9.20	8.00
1N3321	IR	82	5.50	4.87	4.25

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100 Ass't	EACH 100-999
1N3321	MOT	45	5.65	*4.90	4.25
1N3321A	MOT	45	7.65	*6.60	5.75
1N3321B	MOT	45	10.65	*9.20	8.00
1N3322	IR	..	5.50	4.87	4.25
1N3322	MOT	45	5.65	*4.90	4.25
1N3322A	MOT	45	7.65	*6.60	5.75
1N3322B	MOT	45	10.65	*9.20	8.00
1N3323	IR	82	5.50	4.87	4.25
1N3323	MOT	45	5.65	*4.90	4.25
1N3323A	MOT	45	7.65	*6.60	5.75
1N3323B	MOT	45	10.65	*9.20	8.00
1N3324	IR	82	5.50	4.87	4.25
1N3324	MOT	45	5.65	*4.90	4.25
1N3324A	MOT	45	7.65	*6.60	5.75
1N3324B	MOT	45	10.65	*9.20	8.00
1N3325	IR	82	5.50	4.87	4.25
1N3325	MOT	45	5.65	*4.90	4.25
1N3325A	MOT	45	7.65	*6.60	5.75
1N3325B	MOT	45	10.65	*9.20	8.00
1N3326	IR	82	5.50	4.87	4.25
1N3326	MOT	45	5.65	*4.90	4.25
1N3326A	MOT	45	7.65	*6.60	5.75
1N3326B	MOT	45	10.65	*9.20	8.00
1N3327	IR	..	5.50	4.87	4.25
1N3327	MOT	45	5.65	*4.90	4.25
1N3327A	MOT	45	7.65	*6.60	5.75
1N3327B	MOT	45	10.65	*9.20	8.00
1N3328	IR	..	5.50	4.87	4.25
1N3328	MOT	45	5.65	*4.90	4.25
1N3328A	MOT	45	7.65	*6.60	5.75
1N3328B	MOT	45	10.65	*9.20	8.00
1N3329	MOT	45	5.65	*4.90	4.25
1N3329A	MOT	45	7.65	*6.60	5.75
1N3329B	MOT	45	10.65	*9.20	8.00
1N3330	IR	..	5.50	4.87	4.25
1N3330	MOT	45	5.65	*4.90	4.25
1N3330A	MOT	45	7.65	*6.60	5.75
1N3330B	MOT	45	10.65	*9.20	8.00
1N3331	IR	82	5.50	4.87	4.25
1N3331	MOT	45	5.65	*4.90	4.25
1N3331A	MOT	45	7.65	*6.60	5.75
1N3331B	MOT	45	10.65	*9.20	8.00
1N3332	IR	..	5.50	4.87	4.25
1N3332	MOT	45	5.65	*4.90	4.25
1N3332A	MOT	45	7.65	*6.60	5.75
1N3332B	MOT	45	10.65	*9.20	8.00
1N3334	IR	..	5.50	4.87	4.25
1N3334	MOT	45	5.65	*4.90	4.25
1N3334A	MOT	45	7.65	*6.60	5.75
1N3334B	MOT	45	10.65	*9.20	8.00
1N3335	IR	..	5.50	4.87	4.25
1N3335	MOT	45	5.65	*4.90	4.25
1N3335A	MOT	45	7.65	*6.60	5.75
1N3335B	MOT	45	10.65	*9.20	8.00
1N3336	IR	..	5.50	4.87	4.25
1N3336	MOT	45	5.65	*4.90	4.25
1N3336A	MOT	45	7.65	*6.60	5.75
1N3336B	MOT	45	10.65	*9.20	8.00
1N3337	IR	..	5.50	4.87	4.25
1N3337	MOT	45	5.65	*4.90	4.25
1N3337A	MOT	45	7.65	*6.60	5.75
1N3337B	MOT	45	10.65	*9.20	8.00
1N3338	IR	..	5.50	4.87	4.25
1N3338	MOT	45	5.65	*4.90	4.25
1N3338A	MOT	45	7.65	*6.60	5.75
1N3338B	MOT	45	10.65	*9.20	8.00
1N3339	IR	..	5.50	4.87	4.25
1N3339	MOT	45	5.65	*4.90	4.25
1N3339A	MOT	45	7.65	*6.60	5.75
1N3339B	MOT	45	10.65	*9.20	8.00
1N3340	IR	82	5.50	4.87	4.25
1N3340	MOT	45	5.65	*4.90	4.25
1N3340A	MOT	45	7.65	*6.60	5.75
1N3340B	MOT	45	10.65	*9.20	8.00
1N3341	MOT	45	6.80	*5.85	5.10
1N3341A	MOT	45	11.30	*9.75	8.50
1N3341B	MOT	45	17.95	*15.50	13.50
1N3342	MOT	45	6.80	*5.85	5.10
1N3342A	MOT	45	11.30	*9.75	8.50
1N3342B	MOT	45	17.95	*15.50	13.50
1N3343	MOT	45	6.80	*5.85	5.10
1N3343A	MOT	45	11.30	*9.75	8.50
1N3343B	MOT	45	17.95	*15.50	13.50
1N3344	MOT	45	6.80	*5.85	5.10
1N3344A	MOT	45	11.30	*9.75	8.50
1N3344B	MOT	45	17.95	*15.50	13.50
1N3346	MOT	45	6.80	*5.85	5.10
1N3346A	MOT	45	11.30	*9.75	8.50
1N3346B	MOT	45	17.95	*15.50	13.50
1N3347	MOT	45	6.80	*5.85	5.10
1N3347A	MOT	45	11.30	*9.75	8.50
1N3347B	MOT	45	17.95	*15.50	13.50
1N3348	MOT	45	6.80	*5.85	5.10
1N3348A	MOT	45	11.30	*9.75	8.50
1N3348B	MOT	45	17.95	*15.50	13.50
1N3349	MOT	45	6.80	*5.85	5.10
1N3349A	MOT	45	11.30	*9.75	8.50
1N3349B	MOT	45	17.95	*15.50	13.50
1N3350	MOT	45	6.80	*5.85	5.10
1N3350A	MOT	45	11.30	*9.75	8.50
1N3350B	MOT	45	17.95	*15.50	13.50

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N3491	MOT	53	.67	.45
1N3492	MOT	53	.76	.51
1N3493	MOT	53	1.11	.74
1N3494	MOT	53	1.27	.85
1N3495	MOT	53	1.48	.99
1N3506	TI	62	2.80	2.10
1N3507	TI	62	2.80	2.10
1N3508	TI	62	2.80	2.10
1N3509	TI	62	2.80	2.10
1N3510	TI	62	2.80	2.10
1N3511	TI	62	2.80	2.10
1N3512	TI	62	2.80	2.10
1N3513	TI	62	2.80	2.10
1N3514	TI	62	2.80	2.10
1N3515	TI	62	2.80	2.10
1N3516	TI	62	2.80	2.10
1N3517	TI	62	2.80	2.10
1N3518	TI	62	2.80	2.10
1N3519	TI	62	2.80	2.10
1N3520	TI	62	2.80	2.10
1N3521	TI	62	2.95	2.20
1N3522	TI	62	2.95	2.20
1N3523	TI	62	2.95	2.20
1N3524	TI	62	2.95	2.20
1N3525	TI	62	2.95	2.20
1N3526	TI	62	2.95	2.20
1N3527	TI	62	2.95	2.20
1N3528	TI	62	2.95	2.20
1N3529	TI	62	2.95	2.20
1N3530	TI	62	2.95	2.20
1N3563	RCA	74	1.65	1.14
1N3569	GE	70	1.34	.89
1N3570	GE	70	1.62	1.08
1N3571	GE	70	2.10	1.40
1N3572	GE	70	2.55	1.71
1N3573	GE	70	3.82	2.55
1N3574	GE	70	5.50	3.65

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	EACH *100 Ass't	EACH 100-999
1N3580	MOT	54	4.90	4.20	3.65
1N3580A	MOT	54	5.20	4.50	3.90
1N3580B	MOT	54	6.00	5.20	4.50
1N3581	MOT	54	5.55	4.80	4.15
1N3581A	MOT	54	6.45	5.60	4.85
1N3581B	MOT	54	7.75	6.70	5.80
1N3582	MOT	54	8.95	7.75	6.70
1N3582A	MOT	54	9.80	8.45	7.35
1N3582B	MOT	54	10.90	9.40	8.20
1N3583	MOT	54	10.90	9.40	8.20
1N3583A	MOT	54	11.80	10.20	8.85
1N3583B	MOT	54	15.65	13.55	11.75
1N3584	MOT	54	25.30	21.85	19.00
1N3584A	MOT	54	32.80	28.35	24.65
1N3584B	MOT	54	36.80	31.80	27.65

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
1N3600	GE	68	3.75	2.50
1N3604	GE	68	.83	.56
1N3605	GE	68	.72	.48
1N3605	SYL	84	.48	.26
1N3606	GE	68	1.00	.67
1N3611/JAN	MOT	..	1.20	.80
1N3612/JAN	MOT	..	1.65	1.10
1N3613/JAN	MOT	..	2.10	1.40
1N3615	IR	81	1.38	.94
1N3616	IR	81	1.54	1.05
1N3617	IR	81	1.98	1.38
1N3618	IR	81	3.03	2.04
1N3619	IR	81	4.10	2.60
1N3620	IR	81	4.90	3.15
1N3621	IR	81	5.60	3.60
1N3622	IR	81	6.70	4.30
1N3623	IR	81	9.00	5.80
1N3624	IR	81	10.70	6.90
1N3639	GE	70	.57	.38
1N3639	IR	81	.60	.40
1N3640	GE	70	.72	.48
1N3640	IR	81	.73	.49
1N3641	GE	70	1.05	.70
1N3641	IR	81	1.05	.69
1N3642	GE	70	1.46	.97
1N3642	IR	81	1.45	.96
1N3649	TI	59	2.88	1.92
1N3650	TI	59	3.60	2.40
1N3659	MOT	53	.90	.60
1N3660	MOT	53	.99	.66
1N3661	MOT	53	1.33	.89
1N3662	MOT	53	1.48	.99
1N3663	MOT	53	1.70	1.14
1N3670	IR	81	7.80	5.25
1N3670A	GE	70	9.06	6.04
1N3671	IR	81	8.70	5.85
1N3671A	GE	70	9.50	6.34
1N3672	IR	81	9.40	6.30
1N3672A	GE	70	9.88	6.59
1N3673	IR	81	9.80	6.60
1N3673A	GE	70	10.20	6.80

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N3675	MOT	44	3.45	3.00	2.60
1N3675A	MOT	44	4.10	3.55	3.10
1N3675B	MPT	44	4.90	4.25	3.70
1N3676	MOT	44	3.45	3.00	2.60
1N3676A	MOT	44	4.10	3.55	3.10
1N3676B	MOT	44	4.90	4.25	3.70
1N3677	MOT	44	3.45	3.00	2.60
1N3677A	MOT	44	4.10	3.55	3.10
1N3677B	MOT	44	4.90	4.25	3.70
1N3678	MOT	44	3.45	3.00	2.60
1N3678A	MOT	44	4.10	3.55	3.10
1N3678B	MOT	44	4.90	4.25	3.70
1N3679	MOT	44	3.45	3.00	2.60
1N3679A	MOT	44	4.10	3.55	3.10
1N3679B	MOT	44	4.90	4.25	3.70
1N3680	MOT	44	3.45	3.00	2.60
1N3680A	MOT	44	4.10	3.55	3.10
1N3680B	MOT	44	4.90	4.25	3.70
1N3681	MOT	44	3.45	3.00	2.60
1N3681A	MOT	44	4.10	3.55	3.10
1N3681B	MOT	44	4.90	4.25	3.70
1N3682	MOT	44	3.45	3.00	2.60
1N3682A	MOT	44	4.10	3.55	3.10
1N3682B	MOT	44	4.90	4.25	3.70
1N3683	MOT	44	3.45	3.00	2.60
1N3683A	MOT	44	4.10	3.55	3.10
1N3683B	MOT	44	4.90	4.25	3.70
1N3684	MOT	44	3.45	3.00	2.60
1N3684A	MOT	44	4.10	3.55	3.10
1N3684B	MOT	44	4.90	4.25	3.70
1N3685	MOT	44	3.45	3.00	2.60
1N3685A	MOT	44	4.10	3.55	3.10
1N3685B	MOT	44	4.90	4.25	3.70
1N3686	MOT	44	3.45	3.00	2.60
1N3686A	MOT	44	4.10	3.55	3.10
1N3686B	MOT	44	4.90	4.25	3.70
1N3687	MOT	44	3.45	3.00	2.60
1N3687A	MOT	44	4.10	3.55	3.10
1N3687B	MOT	44	4.90	4.25	3.70
1N3688	MOT	44	3.45	3.00	2.60
1N3688A	MOT	44	4.10	3.55	3.10
1N3688B	MOT	44	4.90	4.25	3.70
1N3689	MOT	44	3.45	3.00	2.60
1N3689A	MOT	44	4.10	3.55	3.10
1N3689B	MOT	44	4.90	4.25	3.70
1N3690	MOT	44	3.45	3.00	2.60
1N3690A	MOT	44	4.10	3.55	3.10
1N3690B	MOT	44	4.90	4.25	3.70
1N3691	MOT	44	3.45	3.00	2.60
1N3691A	MOT	44	4.10	3.55	3.10
1N3691B	MOT	44	4.90	4.25	3.70
1N3692	MOT	44	3.45	3.00	2.60
1N3692A	MOT	44	4.10	3.55	3.10
1N3692B	MOT	44	4.90	4.25	3.70
1N3693	MOT	44	3.45	3.00	2.60
1N3693A	MOT	44	4.10	3.55	3.10
1N3693B	MOT	44	4.90	4.25	3.70
1N3694	MOT	44	3.45	3.00	2.60
1N3694A	MOT	44	4.10	3.55	3.10
1N3694B	MOT	44	4.90	4.25	3.70
1N3695	MOT	44	3.45	3.00	2.60
1N3695A	MOT	44	4.10	3.55	3.10
1N3695B	MOT	44	4.90	4.25	3.70
1N3696	MOT	44	3.45	3.00	2.60
1N3696A	MOT	44	4.10	3.55	3.10
1N3696B	MOT	44	4.90	4.25	3.70
1N3697	MOT	44	3.45	3.00	2.60
1N3697A	MOT	44	4.10	3.55	3.10
1N3697B	MOT	44	4.90	4.25	3.70
1N3698	MOT	44	3.45	3.00	2.60
1N3698A	MOT	44	4.10	3.55	3.10
1N3698B	MOT	44	4.90	4.25	3.70
1N3699	MOT	44	3.45	3.00	2.60
1N3699A	MOT	44	4.10	3.55	3.10
1N3699B	MOT	44	4.90	4.25	3.70
1N3700	MOT	44	3.45	3.00	2.60
1N3700A	MOT	44	4.10	3.55	3.10
1N3700B	MOT	44	4.90	4.25	3.70
1N3701	MOT	44	3.45	3.00	2.60
1N3701A	MOT	44	4.10	3.55	3.10
1N3701B	MOT	44	4.90	4.25	3.70
1N3702	MOT	44	3.45	3.00	2.60
1N3702A	MOT	44	4.10	3.55	3.10
1N3702B	MOT	44	4.90	4.25	3.70
1N3703	MOT	44	3.45	3.00	2.60
1N3703A	MOT	44	4.10	3.55	3.10
1N3703B	MOT	44	4.90	4.25	3.70

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3712	GE	68	3.30	2.20
1N3713	GE	68	5.00	3.30
1N3714	GE	68	2.90	1.95
1N3715	GE	68	4.60	3.05
1N3716	GE	68	2.25	1.50
1N3717	GE	69	3.90	2.60
1N3718	GE	69	2.25	1.50
1N3719	GE	69	3.90	2.60
1N3720	GE	69	1.60	1.05
1N3721	GE	69	3.90	2.60

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N3731	SYL	84	.85	.85	.68
1N3736	GE	71	29.40	22.60	....
1N3737	GE	71	34.20	26.30	....
1N3738	GE	71	37.00	28.40	....
1N3739	GE	71	46.60	35.90	....
1N3740	GE	71	55.50	42.60	....
1N3741	GE	71	70.00	55.00	....
1N3742	GE	71	84.00	60.00	....

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3754	RCA	74	.32	.22
1N3755	RCA	74	.32	.22
1N3756	RCA	74	.35	.24
1N3765	GE	70	10.95	7.30
1N3766	GE	70	11.70	7.80
1N3767	GE	70	12.30	8.20
1N3768	GE	70	12.90	8.60
1N3775	TI	59	5.85	3.90
1N3775R	TI	..	6.39	4.26

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N3785	MOT	44	3.75	3.20	2.80
1N3785A	MOT	44	5.30	4.60	4.00
1N3785B	MOT	44	6.95	6.00	5.25
1N3786	MOT	44	3.75	3.20	2.80
1N3786A	MOT	44	5.30	4.60	4.00
1N3786B	MOT	44	6.95	6.00	5.25
1N3787	MOT	44	3.75	3.20	2.80
1N3787A	MOT	44	5.30	4.60	4.00
1N3787B	MOT	44	6.95	6.00	5.25
1N3788	MOT	44	3.75	3.20	2.80
1N3788A	MOT	44	5.30	4.60	4.00
1N3788B	MOT	44	6.95	6.00	5.25
1N3789	MOT	44	3.75	3.20	2.80
1N3789A	MOT	44	5.30	4.60	4.00
1N3789B	MOT	44	6.95	6.00	5.25
1N3790	MOT	44	3.75	3.20	2.80
1N3790A	MOT	44	5.30	4.60	4.00
1N3790B	MOT	44	6.95	6.00	5.25
1N3791	MOT	44	3.75	3.20	2.80
1N3791A	MOT	44	5.30	4.60	4.00
1N3791B	MOT	44	6.95	6.00	5.25
1N3792	MOT	44	3.75	3.20	2.80
1N3792A	MOT	44	5.30	4.60	4.00
1N3792B	MOT	44	6.95	6.00	5.25
1N3793	MOT	44	3.75	3.20	2.80
1N3793A	MOT	44	5.30	4.60	4.00
1N3793B	MOT	44	6.95	6.00	5.25
1N3794	MOT	44	3.75	3.20	2.80
1N3794A	MOT	44	5.30	4.60	4.00
1N3794B	MOT	44	6.95	6.00	5.25
1N3795	MOT	44	3.75	3.20	2.80
1N3795A	MOT	44	5.30	4.60	4.00
1N3795B	MOT	44	6.95	6.00	5.25
1N3796	MOT	44	3.75	3.20	2.80
1N3796A	MOT	44	5.30	4.60	4.00
1N3796B	MOT	44	6.95	6.00	5.25
1N3797	MOT	44	3.75	3.20	2.80
1N3797A	MOT	44	5.30	4.60	4.00
1N3797B	MOT	44	6.95	6.00	5.25
1N3798	MOT	44	3.75	3.20	2.80
1N3798A	MOT	44	5.30	4.60	4.00
1N3798B	MOT	44	6.95	6.00	5.25
1N3799	MOT	44	3.75	3.20	2.80
1N3799A	MOT	44	5.30	4.60	4.00
1N3799B	MOT	44	6.95	6.00	5.25
1N3800	MOT	44	3.75	3.20	2.80
1N3800A	MOT	44	5.30	4.60	4.00
1N3800B	MOT	44	6.95	6.00	5.25
1N3801	MOT	44	3.75	3.20	2.80
1N3801A	MOT	44	5.30	4.60	4.00
1N3801B	MOT	44	6.95	6.00	5.25
1N3802	MOT	44	3.75	3.20	2.80
1N3802A	MOT	44	5.30	4.60	4.00
1N3802B	MOT	44	6.95	6.00	5.25
1N3803	MOT	44	3.75	3.20	2.80
1N3803A	MOT	44	5.30	4.60	4.00
1N3803B	MOT	44	6.95	6.00	5.25
1N3804	MOT	44	3.75	3.20	2.80
1N3804A	MOT	44	5.30	4.60	4.00
1N3804B	MOT	44	6.95	6.00	5.25
1N3805	MOT	44	3.75	3.20	2.80
1N3805A	MOT	44	5.30	4.60	4.00
1N3805B	MOT	44	6.95	6.00	5.25
1N3806	MOT	44	3.75	3.20	2.80
1N3806A	MOT	44	5.30	4.60	4.00
1N3806B	MOT	44	6.95	6.00	5.25
1N3807	MOT	44	3.75	3.20	2.80
1N3807A	MOT	44	5.30	4.60	4.00
1N3807B	MOT	44	6.95	6.00	5.25
1N3808	MOT	44	3.75	3.20	2.80
1N3808A	MOT	44	5.30	4.60	4.00
1N3808B	MOT	44	6.95	6.00	5.25
1N3809	MOT	44	3.75	3.20	2.80
1N3809A	MOT	44	5.30	4.60	4.00
1N3809B	MOT	44	6.95	6.00	5.25
1N3810	MOT	44	3.75	3.20	2.80
1N3810A	MOT	44	5.30	4.60	4.00
1N3810B	MOT	44	6.95	6.00	5.25
1N3811	MOT	45	3.75	3.20	2.80
1N3811A	MOT	45	5.30	4.60	4.00
1N3811B	MOT	45	6.95	6.00	5.25
1N3812	MOT	45	3.75	3.20	2.80
1N3812A	MOT	45	5.30	4.60	4.00
1N3812B	MOT	45	6.95	6.00	5.25
1N3813	MOT	45	3.75	3.20	2.80

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 1N3775 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N3813A	MOT	45	5.30	4.60	4.00
1N3813B	MOT	45	6.95	6.00	5.25
1N3814	MOT	45	4.75	4.10	3.55
1N3814A	MOT	45	6.45	5.60.	4.85
1N3814B	MOT	45	8.35	7.20	6.30
1N3815	MOT	45	4.75	4.10	3.55
1N3815A	MOT	45	6.45	5.60	4.85
1N3815B	MOT	45	8.35	7.20	6.30
1N3816	MOT	45	4.75	4.10	3.55
1N3816A	MOT	45	6.45	5.60	4.85
1N3816B	MOT	45	8.35	7.20	6.30
1N3817	MOT	45	4.75	4.10	3.55
1N3817A	MOT	45	7.05	6.10	5.30
1N3817B	MOT	45	8.80	7.20	6.60
1N3818	MOT	45	4.75	4.10	3.55
1N3818A	MOT	45	7.05	6.10	5.30
1N3818B	MOT	45	8.80	7.60	6.60
1N3819	MOT	45	4.75	4.10	3.55
1N3819A	MOT	45	7.05	6.10	5.30
1N3819B	MOT	45	8.80	7.60	6.60
1N3820	MOT	45	4.75	4.10	3.55
1N3820A	MOT	45	7.05	6.10	5.30
1N3820B	MOT	45	8.80	7.60	6.60
1N3821	MOT	44	2.10	1.85	1.60
1N3821A	MOT	44	2.65	2.30	2.00
1N3822	MOT	44	2.10	1.85	1.60
1N3822A	MOT	44	2.65	2.30	2.00
1N3823	MOT	44	2.10	1.85	1.60
1N3823A	MOT	44	2.65	2.30	2.00
1N3824	MOT	44	2.10	1.85	1.60
1N3824A	MOT	44	2.65	2.30	2.00
1N3825	MOT	44	2.10	1.85	1.60
1N3825A	MOT	44	2.65	2.30	2.00
1N3826	MOT	44	2.10	1.85	1.60
1N3826A	MOT	44	2.65	2.30	2.00
1N3827	MOT	44	2.10	1.85	1.60
1N3827A	MOT	44	2.65	2.30	2.00
1N3828	MOT	44	2.10	1.85	1.60
1N3828A	MOT	44	2.65	2.30	2.00
1N3829	MOT	44	2.10	1.85	1.60
1N3829A	MOT	44	2.65	2.30	2.00
1N3830	MOT	44	2.10	1.85	1.60
1N3830A	MOT	44	2.65	2.30	2.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3847	RCA	76	4.95	3.42
1N3848	RCA	76	4.95	3.42
1N3849	RCA	76	4.95	3.42
1N3850	RCA	76	4.95	3.42
1N3851	RCA	76	4.95	3.42
1N3852	RCA	76	6.35	4.39
1N3853	RCA	76	5.94	4.10
1N3854	RCA	76	7.59	5.24
1N3855	RCA	76	8.17	5.64
1N3856	RCA	76	8.17	5.64
1N3857	RCA	76	8.58	5.95
1N3858	RCA	76	6.52	4.50
1N3859	RCA	76	8.17	5.64
1N3860	RCA	76	10.73	7.40
1N3861	RCA	..	6.19	4.28
1N3862	RCA	..	7.67	5.30
1N3863	RCA	..	9.41	6.50
1N3873	GE	68	1.65	1.10

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N3874	TI	59	7.50	7.50	5.00
1N3875	TI	59	8.03	8.03	5.35
1N3876	TI	59	10.50	10.50	7.00
1N3877	TI	59	14.62	14.62	9.75
1N3878	TI	59	17.28	17.28	11.50

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1N3879	GE	70	5.25	5.25	3.50
1N3879	MOT	53	5.25	5.25	3.50
1N3879	TI	59	5.25	5.25	3.50
1N3880	GE	70	5.77	5.77	3.85
1N3880	MOT	53	5.75	5.75	3.85
1N3880	TI	59	5.77	5.77	3.85
1N3881	GE	70	8.25	8.25	5.50
1N3881	MOT	53	8.25	8.25	5.50
1N3881	TI	59	8.25	8.25	5.50
1N3882	GE	70	12.38	12.38	8.25
1N3882	MOT	53	12.75	12.75	8.50
1N3882	TI	59	12.38	12.38	8.25
1N3883	GE	70	15.00	15.00	10.00
1N3883	MOT	53	14.70	14.70	9.80
1N3883	TI	59	15.00	15.00	10.00
1N3884	TI	59	8.55	8.55	5.70
1N3885	TI	59	9.00	9.00	6.00
1N3887	TI	59	16.90	16.90	11.25
1N3888	TI	59	19.90	19.90	13.25
1N3889	GE	70	6.30	6.30	4.20
1N3889	MOT	53	6.30	6.30	4.20
1N3889	TI	59	6.30	6.30	4.20
1N3890	GE	70	6.75	6.75	4.50
1N3890	MOT	53	6.75	6.75	4.50
1N3890	TI	59	6.75	6.75	4.50
1N3891	GE	70	9.75	9.75	6.50
1N3891	MOT	53	9.75	9.75	6.50
1N3891	TI	59	7.75	7.75	6.50
1N3892	GE	70	14.65	14.65	9.75
1N3892	MOT	53	14.60	14.60	9.75
1N3892	TI	59	14.65	14.65	9.75
1N3893	GE	70	17.60	17.60	11.75
1N3893	MOT	53	17.60	17.60	11.75
1N3893	TI	59	17.60	17.60	11.75
1N3899	GE	71	18.00	28.00	12.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N3900	GE	71	22.40	14.95
1N3901	GE	71	27.90	18.60
1N3902	GE	71	31.90	21.25
1N3903	GE	71	36.00	24.00
1N3909	GE	71	29.30	19.50
1N3909	TI	59	30.00	22.60
1N3910	GE	71	39.00	25.95
1N3910	TI	59	41.50	31.20
1N3911	GE	71	47.50	31.60
1N3911	TI	59	51.00	38.20
1N3912	GE	71	53.80	35.90
1N3912	TI	59	57.00	44.10
1N3913	GE	71	60.00	40.00
1N3913	TI	59	64.00	48.00
1N3958	GE	70	1.49	.99
1N3959	GE	70	1.80	1.20
1N3960	GE	70	2.33	1.55
1N3961	GE	70	2.85	1.90
1N3962	GE	70	4.28	2.85
1N3963	GE	70	6.15	4.10
1N3987	IR	81	8.25	5.61
1N3988	IR	81	9.10	6.19
1N3989	IR	81	11.05	7.51
1N3990	IR	81	12.00	8.16

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N3993	MOT	45	5.65	4.90	4.25
1N3993A	MOT	45	7.70	6.65	5.80
1N3994	MOT	45	5.65	4.90	4.25
1N3994A	MOT	45	7.70	6.65	5.80
1N3995	MOT	45	5.65	4.90	4.25
1N3995A	MOT	45	7.70	6.65	5.80
1N3996	MOT	45	5.65	4.90	4.25
1N3996A	MOT	45	7.70	6.65	5.80
1N3997	MOT	45	5.65	4.90	4.25
1N3997A	MOT	45	7.70	6.65	5.80
1N3998	MOT	45	5.65	4.90	4.25
1N3998A	MOT	45	7.70	6.65	5.80
1N3999	MOT	45	5.65	4.90	4.25
1N3999A	MOT	45	7.70	6.65	5.80
1N4000	MOT	45	5.65	4.90	4.25
1N4000A	MOT	45	7.70	6.65	5.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4001	MOT	53	.45	.30
1N4001	TI	55	.45	.30
1N4002	MOT	53	.49	.33
1N4002	TI	55	.49	.33
1N4003	MOT	53	.60	.40
1N4003	TI	55	.60	.40
1N4004	MOT	53	.67	.45
1N4004	TI	55	.67	.45
1N4005	MOT	53	.81	.54
1N4005	TI	55	.96	.54
1N4006	MOT	53	1.12	.75
1N4006	TI	55	2.25	1.70
1N4007	MOT	53	1.80	1.20
1N4007	TI	55	5.10	3.40

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4009	GE	68	.42	.28
1N4009	HUG	88	1.68	1.26
1N4090	GE	69	3.35	2.20
1N4092	HUG	88	.63	.47

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N4099	MOT	43	5.05	4.35	3.80
1N4099	TI	62	5.05	....	3.80
1N4100	MOT	43	5.05	4.35	3.80
1N4100	TI	62	5.05	....	3.80
1N4101	MOT	43	5.05	4.35	3.80
1N4101	TI	62	5.05	....	3.80
1N4102	MOT	43	5.05	4.35	3.80
1N4102	TI	62	5.05	....	3.80
1N4103	MOT	43	5.05	4.35	3.80
1N4103	TI	62	5.05	....	3.80
1N4104	MOT	43	5.05	4.35	3.80
1N4104	TI	62	5.05	....	3.80
1N4105	MOT	43	5.05	4.35	3.80
1N4105	TI	62	5.05	....	3.80
1N4106	MOT	43	5.05	4.35	3.80
1N4106	TI	62	5.05	....	3.80
1N4107	MOT	43	5.05	4.35	3.80
1N4108	MOT	43	5.05	4.35	3.80
1N4109	MOT	43	5.05	4.35	3.80
1N4110	MOT	43	5.05	4.35	3.80
1N4111	MOT	43	5.05	4.35	3.80
1N4112	MOT	43	5.05	4.35	3.80
1N4113	MOT	43	5.05	4.35	3.80
1N4114	MOT	43	5.05	4.35	3.80
1N4115	MOT	43	5.05	4.35	3.80
1N4116	MOT	43	5.05	4.35	3.80
1N4117	MOT	43	5.05	4.35	3.80
1N4118	MOT	43	5.05	4.35	3.80
1N4119	MOT	43	5.05	4.35	3.80
1N4120	MOT	43	5.05	4.35	3.80
1N4121	MOT	43	5.05	4.35	3.80
1N4122	MOT	43	5.05	4.35	3.80
1N4123	MOT	43	5.05	4.35	3.80
1N4124	MOT	43	5.05	4.35	3.80
1N4125	MOT	43	5.05	4.35	3.80
1N4126	MOT	43	5.05	4.35	3.80
1N4127	MOT	43	5.05	4.35	3.80
1N4128	MOT	43	5.05	4.35	3.80
1N4129	MOT	43	5.05	4.35	3.80
1N4130	MOT	43	5.05	4.35	3.80
1N4131	MOT	43	5.05	4.35	3.80
1N4132	MOT	43	5.05	4.35	3.80
1N4133	MOT	43	5.05	4.35	3.80
1N1434	MOT	43	5.05	4.35	3.80
1N4135	MOT	43	5.05	4.35	3.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4148	GE	68	.45	.30
1N4149	GE	68	.67	.44
1N4150	GE	68	4.90	3.30
1N4151	GE	68	.83	.56
1N4152	GE	68	.72	.48
1N4153	GE	68	1.00	.67
1N4154	GE	68	.42	.28
1N4156	GE	68	.75	.50
1N4157	GE	68	1.04	.69
1N4305	GE	68	1.34	.88
1N4306	GE	68	8.25	5.50
1N4307	GE	68	16.50	11.00
1N4360	TI	62	2.80	2.10
1N4364	TI	59	.45	.30
1N4365	TI	59	.48	.32
1N4366	TI	59	.56	.37
1N4367	TI	59	.66	.44
1N4368	TI	59	.72	.48
1N4369	TI	59	.90	.60

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N4370	MOT	43	2.00	1.70	1.50
1N4370A	MOT	43	2.70	2.35	2.05
1N4370A	TI	62	2.80	....	2.10
1N4371	MOT	43	2.00	1.70	1.50
1N4371A	MOT	43	2.70	2.35	2.05
1N4371A	TI	62	2.80	....	2.10
1N4372	MOT	43	2.00	1.70	1.50
1N4372A	MOT	43	2.70	2.35	2.05
1N4372A	TI	62	2.80	....	2.10

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4374	TI	59	7.50	5.00
1N4383	TI	..	.67	.45
1N4384	TI	..	.73	.49
1N4385	TI	..	.81	.54

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
1N4386	MOT	51	42.00	35.00	28.00
1N4387	MOT	51	42.00	35.00	28.00
1N4388	MOT	51	42.00	35.00	28.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4389	HUG	88	1.05	.80
1N4390	HUG	88	2.85	2.15
1N4391	HUG	88	2.15	1.60
1N4392	HUG	88	1.55	1.20
1N4436	VA	88	4.15	3.05
1N4436/S	VA	85	4.45	3.30
1N4436/T	VA	85	4.40	3.25
1N4437	VA	85	5.45	4.00
1N4437/S	VA	85	5.75	4.25
1N4437/T	VA	85	5.70	4.20
1N4444	GE	68	1.56	1.04
1N4446	GE	68	.50	.33
1N4447	GE	68	.75	.50
1N4448	GE	68	1.35	.90
1N4449	GE	68	.92	.61
1N4450	GE	68	1.48	.97
1N4451	GE	68	1.54	1.03
1N4452	GE	68	1.95	1.30
1N4453	GE	68	1.90	1.40
1N4454	GE	68	.67	.44
1N4506	GE	71	5.10	3.40
1N4507	GE	71	6.90	4.60
1N4508	GE	71	9.18	6.12
1N4509	GE	71	10.20	6.80
1N4510	GE	71	10.20	6.80
1N4511	GE	62	14.40	9.60
1N4525	GE	62	6.45	4.30
1N4526	GE	62	8.78	5.85
1N4527	GE	62	10.70	6.90
1N4528	GE	62	12.30	8.20
1N4529	GE	71	13.50	9.00
1N4530	GE	71	17.25	11.50
1N4531	GE	68	.59	.39
1N4532	GE	68	.78	.52
1N4533	GE	68	.96	.63
1N4534	GE	68	1.20	.80
1N4536	GE	68	.59	.39
1N4537	TI	59	8.70	5.80
1N4538	TI	59	18.75	12.10
1N4540	TI	59	22.90	15.30
1N4548	GE	..	1.85	.95

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
1N4549	MOT	45	6.05	5.25	4.55
1N4549A	MOT	45	8.00	6.90	6.00
1N4549B	MOT	45	11.50	9.95	8.65
1N4550	MOT	45	6.05	5.25	4.55
1N4550A	MOT	45	8.00	6.90	6.00
1N4550B	MOT	45	11.50	9.95	8.65
1N4551	MOT	45	6.05	5.25	4.55
1N4551A	MOT	45	8.00	6.90	6.00
1N4551B	MOT	45	11.50	9.95	8.65
1N4552	MOT	45	6.05	5.25	4.55
1N4552A	MOT	45	8.00	6.90	6.00
1N4552B	MOT	45	11.50	9.95	8.65
1N4553	MOT	45	6.05	5.25	4.55
1N4553A	MOT	45	8.00	6.90	6.00
1N4553B	MOT	45	11.50	9.95	8.65
1N4554	MOT	45	6.05	5.25	4.55
1N4554A	MOT	45	8.00	6.90	6.00
1N4554B	MOT	45	11.50	9.95	8.65
1N4555	MOT	45	6.05	5.25	4.55
1N4555A	MOT	45	8.00	6.90	6.00
1N4555B	MOT	45	11.50	9.95	8.65
1N4556	MOT	45	6.05	5.25	4.55
1N4556A	MOT	45	8.00	6.90	6.00
1N4556B	MOT	45	11.50	9.95	8.65
1N4557	MOT	45	6.05	5.25	4.55
1N4557A	MOT	45	8.00	6.90	6.00
1N4557B	MOT	45	11.50	9.95	8.65
1N4558	MOT	45	6.05	5.25	4.55
1N4558A	MOT	45	8.00	6.90	6.00
1N4558B	MOT	45	11.50	9.95	8.65
1N4559	MOT	45	6.05	5.25	4.55
1N4559A	MOT	45	8.00	6.90	6.00
1N4559B	MOT	45	11.50	9.95	8.65
1N4560	MOT	45	6.05	5.25	4.55
1N4560A	MOT	45	8.00	6.90	6.00
1N4560B	MOT	45	11.50	9.95	8.65
1N4561	MOT	45	6.05	5.25	4.55
1N4561A	MOT	45	8.00	6.90	6.00
1N4561B	MOT	45	11.50	9.95	8.65
1N4562	MOT	45	6.05	5.25	4.55
1N4562A	MOT	45	8.00	6.90	6.00
1N4562B	MOT	45	11.50	9.95	8.65
1N4563	MOT	45	6.05	5.25	4.55
1N4563A	MOT	45	8.00	6.90	6.00
1N4563B	MOT	45	11.50	9.95	8.65
1N4564	MOT	45	6.05	5.25	4.55
1N4564A	MOT	45	8.00	6.90	6.00
1N4564B	MOT	45	11.50	9.95	8.65
1N4565	MOT	..	8.65	7.45	6.50
1N4565A	MOT	..	9.70	8.40	7.30
1N4566	MOT	..	11.70	10.10	8.80
1N4566A	MOT	..	13.05	11.25	9.80
1N4567	MOT	..	23.80	20.60	17.90
1N4567A	MOT	..	26.45	22.90	19.90
1N4568	MOT	..	41.10	35.55	30.90
1N4568A	MOT	..	45.75	39.55	34.40
1N4569	MOT	..	89.50	77.40	67.30
1N4569A	MOT	..	99.50	86.00	74.80
1N4570	MOT	..	5.85	5.05	4.40
1N4570A	MOT	..	6.50	5.65	4.90

Type No.	Mfr.	Page No.	EACH 1-99	*100 Asst	100-999
*10 per type, 100 total per order					
1N4571	MOT	..	7.30	6.30	5.50
1N4571A	MOT	..	8.10	7.00	6.10
1N4572	MOT	..	13.25	11.45	9.95
1N4572A	MOT	..	14.75	12.75	11.10
1N4573	MOT	..	24.25	21.00	18.25
1N4573A	MOT	..	27.00	23.35	20.30
1N4574	MOT	..	56.50	48.85	42.50
1N4574A	MOT	..	63.15	54.60	47.50

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4606	GE	68	1.32	.88
1N4607	GE	68	1.42	.95
1N4608	GE	68	1.49	.99
1N4649	TRW	87	3.50	2.75
1N4650	TRW	87	3.50	2.75
1N4651	TRW	87	3.50	2.75
1N4652	TRW	87	3.50	2.75
1N4653	TRW	87	3.50	2.75
1N4654	TRW	87	3.50	2.75
1N4655	TRW	87	3.50	2.75
1N4656	TRW	87	3.50	2.75
1N4657	TRW	87	3.50	2.75
1N4658	TRW	87	3.50	2.75
1N4659	TRW	87	3.50	2.75
1N4660	TRW	87	3.50	2.75
1N4661	TRW	87	3.50	2.75
1N4719	MOT	53	.55	.37
1N4720	MOT	53	.60	.40
1N4721	MOT	53	.67	.45
1N4722	MOT	53	.97	.65
1N4723	MOT	53	1.33	.89
1N4724	MOT	53	4.10	2.75
1N4725	MOT	53	6.35	4.25
1N4726	GE	68	.42	.28
1N4727	GE	68	.42	.28

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N4728	MOT	44	1.26	1.09	.95
1N4728A	MOT	44	1.93	1.66	1.45
1N4729	MOT	44	1.26	1.09	.95
1N4729A	MOT	44	1.93	1.66	1.45
1N4730	MOT	44	1.26	1.09	.95
1N4730A	MOT	44	1.93	1.66	1.45
1N4731	MOT	44	1.26	1.09	.95
1N4731A	MOT	44	1.93	1.66	1.45
1N4732	MOT	44	1.26	1.09	.95
1N4732A	MOT	44	1.93	1.66	1.45
1N4733	MOT	44	1.26	1.09	.95
1N4733A	MOT	44	1.93	1.66	1.45
1N4734	MOT	44	1.26	1.09	.95
1N4734A	MOT	44	1.93	1.66	1.45
1N4735	MOT	44	1.26	1.09	.95
1N4735A	MOT	44	1.93	1.66	1.45
1N4736	MOT	44	1.26	1.09	.95
1N4736A	MOT	44	1.93	1.66	1.45
1N4737	MOT	44	1.26	1.09	.95
1N4737A	MOT	44	1.93	1.66	1.45
1N4738	MOT	44	1.26	1.09	.95
1N4738A	MOT	44	1.93	1.66	1.45
1N4739	MOT	44	1.26	1.09	.95
1N4739A	MOT	44	1.93	1.66	1.45
1N4740	MOT	44	1.26	1.09	.95
1N4740A	MOT	44	1.93	1.66	1.45
1N4741	MOT	44	1.26	1.09	.95
1N4741A	MOT	44	1.93	1.66	1.45
1N4742	MOT	44	1.26	1.09	.95
1N4742A	MOT	44	1.93	1.66	1.45
1N4743	MOT	44	1.26	1.09	.95
1N4743A	MOT	44	1.93	1.66	1.45
1N4744	MOT	44	1.26	1.09	.95
1N4744A	MOT	44	1.93	1.66	1.45
1N4745	MOT	44	1.26	1.09	.95
1N4745A	MOT	44	1.93	1.66	1.45
1N4746	MOT	44	1.26	1.09	.95
1N4746A	MOT	44	1.93	1.66	1.45
1N4747	MOT	44	1.26	1.09	.95
1N4747A	MOT	44	1.93	1.66	1.45
1N4748	MOT	44	1.26	1.09	.95
1N4748A	MOT	44	1.93	1.66	1.45
1N4749	MOT	44	1.26	1.09	.95
1N4749A	MOT	44	1.93	1.66	1.45
1N4750	MOT	44	1.26	1.09	.95
1N4750A	MOT	44	1.93	1.66	1.45
2N4751	MOT	44	1.26	1.09	.95
1N4751A	MOT	44	1.93	1.66	1.45
1N4752	MOT	44	1.26	1.09	.95
1N4752A	MOT	44	1.93	1.66	1.45
1N4753	MOT	44	1.26	1.09	.95
1N4753A	MOT	44	1.93	1.66	1.45
1N4754	MOT	44	1.26	1.09	.95
1N4754A	MOT	44	1.93	1.66	1.45
1N4755	MOT	44	1.26	1.09	.95
1N4755A	MOT	44	1.93	1.66	1.45
1N4756	MOT	44	1.26	1.09	.95
1N4756A	MOT	44	1.93	1.66	1.45
1N4757	MOT	44	1.26	1.09	.95
1N4757A	MOT	44	1.93	1.66	1.45
1N4758	MOT	44	1.26	1.09	.95
1N4758A	MOT	44	1.93	1.66	1.45
1N4759	MOT	44	1.26	1.09	.95
1N4759A	MOT	44	1.93	1.66	1.45
1N4760	MOT	44	1.26	1.09	.95
1N4760A	MOT	44	1.93	1.66	1.45
1N4761	MOT	44	1.26	1.09	.95
1N4761A	MOT	44	1.93	1.66	1.45
1N4762	MOT	44	1.26	1.09	.95

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
*10 per type, 100 total per order					
1N4762A	MOT	44	1.93	1.66	1.45
1N4763	MOT	44	1.26	1.09	.95
1N4763A	MOT	44	1.93	1.66	1.45
1N4764	MOT	44	1.26	1.09	.95
1N4764A	MOT	44	1.93	1.66	1.45
1N4765	MOT	..	8.65	7.45	6.50
1N4765A	MOT	..	9.70	8.40	7.30
1N4766	MOT	..	11.70	10.10	8.80
1N4766A	MOT	..	13.05	11.25	9.80
1N4767	MOT	..	23.80	20.60	17.90
1N4767A	MOT	..	26.45	22.90	19.90
1N4768	MOT	..	41.10	35.55	30.90
1N4768A	MOT	..	45.75	39.55	34.40
1N4769	MOT	..	89.50	77.40	67.30
1N4769A	MOT	..	99.50	86.00	74.80
1N4770	MOT	..	5.85	5.05	4.40
1N4770A	MOT	..	6.50	5.65	4.90
1N4771	MOT	..	7.30	6.30	5.50
1N4771A	MOT	..	8.10	7.00	6.10
1N4772	MOT	..	13.25	11.45	9.95
1N4772A	MOT	..	14.75	12.75	11.10
1N4773	MOT	..	24.25	21.00	18.25
1N4773A	MOT	..	27.00	23.35	20.30
1N4774	MOT	..	56.50	48.85	42.50
1N4774A	MOT	..	63.15	54.60	47.50
1N4775	MOT	..	8.65	7.45	6.50
1N4775A	MOT	..	9.70	8.40	7.30
1N4776	MOT	..	11.70	10.10	8.80
1N4776A	MOT	..	13.05	11.55	9.80
1N4777	MOT	..	23.80	20.60	17.90
1N4777A	MOT	..	26.45	22.90	19.90
1N4778	MOT	..	41.10	35.55	30.90
1N4778A	MOT	..	45.75	39.55	34.40
1N4779	MOT	..	89.50	77.40	67.30
1N4779A	MOT	..	99.50	86.00	74.80
1N4780	MOT	..	5.85	5.08	4.40
1N4780A	MOT	..	6.50	5.65	4.90
1N4781	MOT	..	7.30	6.30	5.50
1N4781A	MOT	..	8.10	7.00	6.10
1N4782	MOT	..	13.25	11.45	9.95
1N4782A	MOT	..	14.75	12.75	11.10
1N4783	MOT	..	24.25	21.00	18.25
1N4783A	MOT	..	27.00	23.35	20.30
1N4784	MOT	..	56.50	48.85	42.50
1N4784A	MOT	..	63.15	54.60	47.50
1N4785	RCA	..	1.08	....	.75

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1N4828	GE	68	.45	.30
1N4929	GE	68	.69	.46
1N4830	GE	68	.93	.62
1N4863	GE	68	.96	.64
1N4864	GE	68	1.35	.90
1N4951	GE	66	.42	.28
1N4952	GE	66	.48	.32
1N4997	MOT	53	.55	.37
1N4998	MOT	53	.60	.40
1N4999	MOT	53	.67	.45
1N5000	MOT	53	.97	.65
1N5001	MOT	53	1.33	.89
1N5002	MOT	53	4.10	2.75
1N5003	MOT	53	6.35	4.25
1N5059	GE	69	.46	.31
1N5060	GE	69	.56	.37
1N5061	GE	69	.75	.50
1N5062	GE	69	1.12	.75
1N5139	MOT	51	5.85	3.90
1N5139A	MOT	51	6.45	4.30
1N5140	MOT	51	5.85	3.90
1N5140A	MOT	51	6.45	4.30
1N5141	MOT	51	5.85	3.90
1N5141A	MOT	51	6.45	4.30
1N5142	MOT	51	5.85	3.90
1N5142A	MOT	51	6.45	4.30
1N5143	MOT	51	5.85	3.90
1N5143A	MOT	51	6.45	4.30
1N5144	MOT	51	5.85	3.90
1N5144A	MOT	51	6.45	4.30
1N5145	MOT	51	5.85	3.90
1N5145A	MOT	51	6.45	4.30
1N5146	MOT	51	5.85	3.90
1N5146A	MOT	51	6.45	4.30
1N5147	MOT	51	5.85	3.90
1N5147A	MOT	51	6.45	4.30
1N5148	MOT	51	5.85	3.90
1N5148A	MOT	51	6.45	4.30
1N5149	MOT	51	27.00	18.00
1N5150	MOT	51	42.00	28.00
1N5151	MOT	51	42.00	28.00
1N5152	MOT	51	42.00	28.00
1N5153	MOT	51	42.00	28.00
1N5154	MOT	51	42.00	28.00
1N5155	MOT	51	42.00	28.00
2N43	GE	..	4.13	2.75
2N43A	GE	67	4.13	2.75
2N43A/JAN	GE	..	5.00	3.33
2N44	GE	67	2.95	1.95
2N78	GE	68	2.49	1.66
2N78A	GE	68	2.75	1.83
2N94	SYL	85	1.08	.72
2N94A	SYL	85	1.41	.94
2N104	RCA	78	1.65	1.14
2N107	GE	..	.75	.44
2N109	RCA	78	.60	.41
2N117	TI	57	8.15	5.45
2N118A	TI	57	8.15	5.45
2N119	TI	57	11.05	7.35
2N123	GE	..	3.65	2.45

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 2N250A TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N128	SPR	..	6.30	4.60
2N139	RCA	79	1.16	.80
2N140	RCA	79	1.24	.86
2N167	GE	..	5.16	3.44
2N167A	GE	68	5.16	3.44
2N169	GE	68	1.59	1.06
2N169A	GE	68	2.42	1.61
2N170	GE	..	1.02	.61
2N173	MOT	48	3.40	2.50
2N173	RCA	76	3.75	2.59
2N174	MOT	48	3.60	2.67
2N174A/JAN	MOT	..	4.30	3.18
2N174	RCA	76	4.01	2.77
2N174A	MOT	48	3.80	2.79
2N175	RCA	78	1.64	1.13
2N176	MOT	51	1.20	.87
2N176	RCA	78	1.31	.90
2N178	MOT	51	1.10	.80
2N187A	GE	67	1.50	1.00
2N188A	GE	67	1.65	1.10
2N189	GE	67	.78	.52
2N190	GE	67	.83	.55
2N191	GE	67	.90	.60
2N192	GE	67	1.59	1.06
2N194	SYL	85	.99	.67
2N212	SYL	85	1.50	1.00
2N213	SYL	84	.91	.61
2N214	SYL	84	1.15	.77
2N215	RCA	78	1.73	1.20
2N216	SYL	85	1.75	1.17
2N217	RCA	78	.52	.36
2N218	RCA	79	1.16	.80
2N219	RCA	79	1.24	.86
2N220	RCA	78	1.52	1.05
2N228	SYL	84	1.59	1.05
2N229	SYL	84	.50	.33
2N233	SYL	85	.50	.33
2N233A	SYL	85	1.13	.76
2N240	SPR	..	5.60	4.10
2N241A	GE	67	.98	.65
2N242	MOT	48	1.65	1.10
2N243	TI	57	13.75	9.15
2N244	TI	57	20.45	13.60
2N250	TI	61	1.90	1.25
2N250A	TI	61	1.90	1.15
2N251	TI	61	2.25	1.50
2N251A	TI	61	2.25	1.25
2N270	RCA	78	.70	.48
2N274	RCA	79	1.24	.86
2N277	MOT	48	2.25	1.66
2N277	RCA	76	2.72	1.88
2N278	MOT	48	2.80	2.07
2N278	RCA	76	3.10	2.14
2N292	GE	68	.83	.55
2N293	GE	68	.90	.60
2N297A	MOT	48	1.60	1.17
2N297A/JAN	MOT	..	2.40	1.78
2N306	SYL	84	.67	.45
2N307	MOT	48	1.12	.75
2N307A	MOT	48	1.87	1.25
2N319	GE	67	.44	.29
2N319	MOT	49	.44	.29
2N320	GE	67	.59	.39
2N320	MOT	49	.59	.39
2N321	GE	67	.65	.43
2N321	MOT	49	.65	.43
2N322	GE	67	.42	.28
2N322	MOT	49	.42	.28
2N323	GE	67	.59	.39
2N323	MOT	49	.59	.39
2N324	GE	67	.72	.48
2N324	MOT	49	.63	.42
2N327A	HUG	88	2.45	1.84
2N327A	TI	..	2.25	1.50
2N328A	HUG	88	5.75	4.31
2N328A	TI	58	4.50	3.00
2N328B	TI	58	4.85	3.25

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N329A	HUG	88	10.95	8.21
2N329A	TI	58	6.50	4.35
2N329B	TI	58	6.90	4.60
2N331	MOT	49	1.50	1.00
2N331/JAN	MOT	..	1.80	1.20
2N332	GE	66	4.65	3.10
2N332	TI	57	4.65	3.10
2N332A	GE	66	4.95	3.30
2N332A	TI	57	4.90	3.30
2N333	GE	66	4.65	3.10
2N333	TI	57	4.65	3.10
2N333A	GE	66	4.95	3.30
2N333A	TI	57	4.90	3.30
2N334	GE	66	4.65	3.10
2N334	TI	57	4.65	3.10
2N334A	GE	66	4.95	3.30
2N334A	TI	57	4.90	3.30
2N335	GE	66	4.95	3.30
2N335	TI	57	4.90	3.30
2N335A	GE	66	5.25	3.50
2N335A	TI	57	5.20	3.50
2N335B	GE	66	8.90	5.95
2N336	GE	66	6.00	4.00
2N336/JAN	GE	..	6.30	4.20
2N336	TI	57	4.90	3.30
2N336A	GE	66	6.30	4.20
2N336A	TI	57	6.25	4.20
2N337	GE	66	4.85	3.20
2N337/JAN	GE	..	5.15	3.40
2N337	TI	57	4.85	3.20
2N337A	GE	66	5.15	3.40
2N338	GE	66	5.50	3.65
2N338/JAN	GE	..	5.80	3.85
2N338	TI	..	5.50	3.65
2N338A	GE	66	5.80	3.85
2N339	TI	57	10.15	6.75
2N340	TI	57	10.80	7.20
2N341	TI	57	17.50	11.65
2N342/JAN	TI	..	14.55	9.65
2N342A	TI	57	11.90	7.95
2N343	TI	57	18.40	12.25
2N343/JAN	TI	..	21.75	14.45
2N350A	MOT	51	1.65	1.10
2N351	RCA	78	1.73	1.20
2N351A	MOT	51	1.70	1.15
2N370	RCA	79	.81	.56
2N371	RCA	79	.80	.55
2N372	RCA	79	.80	.55
2N375	MOT	48	2.20	1.65
2N376	RCA	78	1.88	1.30
2N376A	MOT	51	1.85	1.25
2N378	MOT	48	1.80	1.20
2N380	MOT	48	1.70	1.26
2N381	MOT	49	.82	.55
2N382	MOT	49	1.12	.75
2N383	MOT	49	1.42	.95
2N384	RCA	78	1.65	1.14
2N388	RCA	77	.50	.35
2N388	TI	60	.60	.40
2N388/JAN	TI	..	.61	.41
2N388A	RCA	77	1.04	.72
2N388A	TI	60	1.03	.69
2N389A	TI	59	21.00	14.00
2N394A	GE	67	.60	.40
2N395	RCA	77	.50	.33
2N395	TI	60	.50	.33
2N396	RCA	77	.61	.41
2N396	TI	60	.61	.41
2N396A	GE	..	.62	.41
2N396A/JAN	GE	..	.74	.49
2N397	RCA	77	1.11	.74
2N397	TI	60	1.11	.74
2N398	MOT	49	1.30	.87
2N398/JAN	MOT	..	1.47	.98
2N398	RCA	77	.99	.69
2N398	TI	60	1.24	.83
2N398A	MOT	49	1.30	.87
2N398A	RCA	77	1.08	.75
2N398A	TI	60	1.24	.83
2N398B	RCA	77	1.24	.86
2N404	GE	67	.47	.31
2N404	RCA	77	.42	.28
2N404/JAN	RCA	..	.43	.30
2N404	TI	60	.46	.31
2N404A	GE	67	.66	.44
2N404A	RCA	77	.58	.39
2N404A	TI	60	.66	.44
2N405	RCA	78	.37	.25
2N406	RCA	78	.33	.23
2N407	RCA	78	.42	.29
2N408	RCA	78	.38	.27
2N409	RCA	79	.43	.30
2N410	RCA	79	.40	.28
2N411	RCA	79	.47	.32
2N412	RCA	79	.43	.30
2N413	GE	67	.42	.29
2N414	GE	67	.42	.29
2N414	RCA	77	.42	.28
2N424A	TI	59	16.50	11.00
2N426	TI	60	.72	.48
2N427	TI	60	.92	.61
2N428	TI	60	1.23	.82
2N441	MOT	48	1.85	1.25
2N441	RCA	76	2.23	1.54
2N442	MOT	48	1.95	1.30
2N442	RCA	76	2.31	1.60
2N443	MOT	48	1.90	1.39
2N443	RCA	76	2.39	1.65
2N450	GE	..	2.10	1.40
2N456A	MOT	48	1.80	1.20
2N456A	TI	61	1.80	1.20
2N456B	TI	61	1.80	1.20
2N457A	MOT	48	2.20	1.45
2N457A	TI	61	2.65	1.45
2N457B	TI	61	2.65	1.45
2N458A	MOT	48	2.65	1.75
2N458A	TI	61	2.80	1.75
2N458B	TI	61	2.80	1.75
2N459	MOT	48	4.35	2.90
2N459A	MOT	48	4.65	3.10
2N460	MOT	49	1.50	1.00
2N461	MOT	49	1.52	1.01
2N461/AF	MOT	..	1.92	1.28
2N464	MOT	49	1.50	1.00
2N465	MOT	49	1.50	1.00
2N465/JAN	MOT	..	1.80	1.20
2N465/USA	MOT	..	1.80	1.20
2N466	MOT	49	1.65	1.10
2N466/JAN	MOT	..	1.95	1.30
2N467	MOT	49	2.10	1.40
2N467/JAN	MOT	..	2.25	1.50
2N467/USA	MOT	..	2.25	1.50
2N478	GE	..	3.60	2.40
2N479	GE	..	6.95	4.60
2N480	GE	..	9.30	6.20
2N489	GE	67	7.10	4.75
2N489/JAN	GE	..	7.80	5.20
2N489	TI	58	7.10	4.75
2N489A	GE	67	7.65	5.10
2N489A	TI	58	7.65	5.10
2N489B	GE	67	9.15	6.10
2N489B	TI	58	9.15	6.10
2N490	GE	67	7.80	5.20
2N490	TI	58	7.80	5.20
2N490A	GE	67	8.35	5.55
2N490A	TI	58	8.35	5.55
2N490B	GE	67	9.85	6.55
2N490B	TI	58	9.85	6.55
2N490C	GE	67	11.85	7.90
2N491	GE	67	8.40	5.60
2N491/JAN	GE	..	9.15	6.10
2N491	TI	58	8.40	5.60
2N491A	GE	67	8.90	5.95
2N491A	TI	58	8.90	5.95
2N491B	GE	67	10.40	6.95
2N491B	TI	58	10.40	6.95
2N492	GE	67	9.90	6.60
2N492	TI	58	9.80	6.55
2N492A	GE	67	10.40	6.95
2N492A	TI	58	10.40	6.95
2N492B	GE	67	11.90	7.95
2N492B	TI	58	11.90	7.95
2N492C	GE	67	13.90	9.28
2N493	GE	67	10.75	7.20
2N493	TI	58	10.75	7.20
2N493A	GE	67	11.20	7.50
2N493A	TI	58	11.20	7.50
2N493B	GE	67	12.75	8.50
2N493B	TI	58	12.75	8.50
2N494	GE	67	10.90	7.30
2N494/JAN	GE	..	11.60	7.70
2N494	TI	58	10.90	7.30
2N494A	GE	67	11.40	7.60
2N494A	TI	58	11.40	7.60
2N494B	GE	67	12.90	8.60
2N494B	TI	58	12.90	8.60
2N494C	GE	67	14.95	9.95
2N494C	TI	58	14.95	9.90
2N497	GE	66	1.89	1.26
2N497	TI	59	1.89	1.26
2N497A	GE	66	2.05	1.37
2N497A	TI	59	2.05	1.37
2N498	GE	66	2.12	1.41
2N498/JAN	GE	..	2.18	1.46
2N498	TI	59	2.12	1.41
2N498A	GE	66	3.45	2.30
2N498A	TI	59	3.45	2.30
2N501	SPR	..	6.35	4.65
2N501/1S	SYL	84	3.52	2.35
2N502	SPR	..	2.90	2.15
2N502A	SPR	..	3.45	2.50
2N508	GE	67	.69	.46
2N508	MOT	49	.69	.46
2N508A	GE	67	.81	.54
2N508A	MOT	49	.73	.49
2N511	TI	61	4.05	2.70
2N511A	TI	61	4.75	3.15
2N511B	TI	61	5.20	3.45
2N512	TI	61	4.75	3.15
2N512A	TI	61	5.40	3.60
2N512B	TI	61	7.10	4.75
2N513	TI	61	6.00	4.00
2N513A	TI	61	6.65	4.45
2N513B	TI	61	8.70	5.80
2N514	TI	61	8.25	5.50
2N514A	TI	61	8.40	5.60
2N514B	TI	61	12.00	8.00
2N524	GE	68	1.02	.68
2N524	MOT	49	1.02	.68
2N524A	MOT	49	1.32	.88
2N525	GE	68	1.02	.68
2N525	MOT	49	1.02	.68
2N525A	MOT	49	1.32	.88
2N526	GE	68	1.04	.69
2N526/JAN	GE	..	1.10	.73
2N526	MOT	49	1.04	.69
2N526/JAN	MOT	..	1.10	.73
2N526A	MOT	49	1.33	.89
2N527	GE	68	1.23	.82
2N527	MOT	49	1.23	.82
2N527A	MOT	49	1.39	.93
2N541	GE	..	6.00	4.00
2N542	GE	..	6.20	4.10
2N542	TI	57	6.30	4.20
2N543	GE	..	7.95	5.30
2N543	TI	57	8.10	5.40
2N554	MOT	51	.60	.40
2N555	MOT	51	.75	.50
2N581	RCA	77	.50	.35
2N582	RCA	77	.91	.63
2N585	RCA	77	.99	.69
2N586	RCA	77	1.73	1.20
2N588	SPR	..	1.45	1.05
2N591	RCA	78	.48	.34
2N594	TI	60	2.75	1.83
2N595	TI	60	4.25	2.83
2N596	TI	60	5.65	3.77
2N618	MOT	48	2.45	1.82
2N627	MOT	48	2.85	1.90
2N628	MOT	48	3.35	2.25
2N629	MOT	48	5.30	3.55
2N630	MOT	48	6.05	4.05
2N647	RCA	78	1.08	.75
2N649	RCA	78	.86	.60
2N650	MOT	49	1.65	1.10
2N650A	MOT	49	1.64	1.13
2N650A/USN	MOT	..	2.90	1.95
2N650A	TI	60	1.69	1.13
2N651	MOT	49	1.65	1.10
2N651A	MOT	49	1.69	1.13
2N651A/JAN	MOT	..	2.82	1.88
2N651A	TI	60	1.69	1.13
2N652	MOT	49	2.17	1.45
2N652A	MOT	49	2.55	1.50
2N652A/JAN	MOT	..	3.33	2.22
2N652A	TI	60	2.25	1.50
2N653	MOT	49	1.65	1.10
2N654	MOT	49	1.80	1.20
2N655	MOT	49	1.95	1.30
2N655/JAN	MOT	..	8.90	6.60
2N656	GE	66	2.03	1.35
2N656	TI	59	2.03	1.35
2N656/JAN	TI	..	2.10	1.40
2N656A	GE	66	2.40	1.60
2N656A	TI	59	2.40	1.60
2N657	GE	66	2.20	1.47
2N657/JAN	GE	..	2.28	1.52
2N657	TI	59	2.20	1.47
2N657A	GE	66	2.92	1.94
2N657A	TI	59	9.00	6.00
2N658	TI	60	1.28	.85
2N659	TI	60	1.30	.87
2N660	TI	60	1.48	.99
2N661	TI	60	1.71	1.14
2N662	TI	60	1.40	.93
2N669	MOT	51	1.42	.95
2N681	GE	73	6.50	4.35
2N681	IR	80	7.65	4.50
2N681	MOT	47	5.70	3.80
2N681	RCA	76	3.30	2.20
2N681A	TI	64	3.58	2.42
2N682	GE	73	7.30	4.85
2N682	IR	80	8.35	5.00
2N682	MOT	47	6.20	4.15
2N682	RCA	76	4.13	2.75
2N682A	TI	64	4.55	3.03
2N683	GE	73	8.05	5.35
2N683	IR	80	9.20	5.45
2N683	MOT	47	6.95	4.65
2N683	RCA	76	6.19	4.13
2N683A	TI	64	6.80	4.55
2N684	GE	73	9.40	6.25
2N684	IR	80	11.50	6.30
2N684	MOT	47	8.45	5.65
2N684	RCA	76	6.35	4.24
2N684A	TI	64	7.00	4.65
2N685	GE	73	11.10	7.40
2N685	IR	80	12.80	7.48
2N685	MOT	47	9.95	6.65
2N685	RCA	76	6.60	4.40
2N685A	TI	64	7.25	4.84
2N685M/JAN	GE	..	12.25	8.15
2N686	GE	73	12.45	8.30
2N686	IR	80	16.20	8.35
2N686	MOT	47	14.40	9.60
2N686	RCA	76	7.01	4.68
2N686A	TI	64	7.70	5.15
2N687	GE	73	14.60	9.75
2N687	IR	80	18.35	10.10
2N687	MOT	47	16.80	11.20
2N687	RCA	76	7.43	4.95
2N687A	TI	64	16.00	10.70
2N688	GE	73	17.10	11.40
2N688	IR	80	23.00	11.45

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N688	MOT	47	23.60	15.75
2N688	RCA	76	8.65	5.80
2N688A	TI	64	18.80	12.50
2N689	GE	73	20.60	13.75
2N689	IR	80	28.70	13.95
2N689	MOT	47	28.70	19.15
2N689	RCA	76	10.30	6.90
2N689A	TI	64	22.60	15.10
2N690	GE	73	23.25	15.50
2N690	IR	80	33.70	15.50
2N690	RCA	76	11.95	8.00
2N691	GE	73	31.50	21.00
2N691	IR	80	38.50	21.75
2N692	GE	73	36.00	24.00
2N692	IR	80	44.00	24.00
2N696	GE	65	.93	.62
2N696	TI	57	.93	.62
2N697	GE	65	.93	.62
2N697	MOT	50	2.07	1.38
2N697	RCA	77	.81	.56
2N697	TI	57	1.12	.75
2N697/JAN	TI	..	1.35	.91
2N698	GE	65	2.50	1.67
2N698	TI	57	1.57	1.05
2N699	GE	65	1.68	1.12
2N699	RCA	79	1.57	1.05
2N699	TI	57	1.73	1.15
2N699B	TRW	87	6.00	5.40
2N700	MOT	52	7.35	4.90
2N700A	MOT	52	11.85	8.70
2N702	TI	..	6.75	4.50
2N703	TI	..	6.75	4.50
2N703/USA	TI	..	7.85	5.25
2N705	MOT	50	1.80	1.20
2N705/USN	MOT	..	2.45	1.65
2N705	TI	60	1.04	.69
2N706	GE	..	.90	.60
2N706	MOT	50	.98	.65
2N706	RCA	77	.99	.66
2N706	TI	56	.99	.66
2N706A	GE	..	.97	.64
2N706A	MOT	50	1.18	.79
2N706A	RCA	77	1.19	.80
2N706A	TI	56	1.19	.79
2N706B	GE	..	1.49	.99
2N706B	MOT	50	1.48	.99
2N706B	TI	56	1.49	.99
2N707	MOT	52	6.30	4.20
2N707A	MOT	52	22.50	15.00
2N708	GE	..	1.08	.72
2N708	MOT	50	1.28	.85
2N708	RCA	77	1.32	.88
2N708	TI	56	1.32	.88
2N709	GE	65	2.50	1.65
2N709	RCA	77	1.65	1.14
2N709	SYL	84	1.15	.77
2N709	TI	56	2.48	1.65
2N709A	GE	65	4.87	3.25
2N709A	SYL	84	1.42	.94
2N710	MOT	50	1.57	1.05
2N710	TI	60	1.34	.89
2N711	MOT	50	1.12	.75
2N711	TI	60	.89	.59
2N711A	MOT	50	1.35	.90
2N711A	TI	60	.89	.59
2N711B	MOT	50	1.42	.95
2N711B	TI	60	.94	.63
2N717	GE	65	.99	.66
2N717	TI	57	.99	.66
2N718	GE	65	1.30	.86
2N718	MOT	50	1.29	.86
2N718	TI	57	1.30	.86
2N718A	GE	65	1.52	1.01
2N718A	MOT	50	1.51	1.01
2N718A	RCA	78	1.08	.72
2N718A	TI	57	2.00	1.33
2N719	GE	65	2.35	1.56
2N719	TI	57	2.35	1.56
2N719A	GE	65	2.50	1.67
2N719A	TI	57	2.50	1.67
2N720	GE	65	1.83	1.22
2N720	TI	57	1.83	1.22
2N720A	RCA	79	1.32	.88
2N721	TI	57	5.60	3.75
2N722	HUG	88	6.00	4.50
2N722	MOT	51	5.60	3.75
2N722	TI	57	5.60	3.75
2N726	TI	56	3.00	2.00
2N727	TI	56	3.15	2.10
2N730	TI	57	.99	.66
2N731	TI	57	1.30	.86
2N735	TI	57	2.50	1.65
2N736	TI	57	2.50	1.65
2N736A	TI	57	2.50	1.65
2N738	TI	57	2.70	1.80
2N739	TI	57	2.70	1.80
2N740	TI	57	2.70	1.80
2N741	MOT	52	2.18	1.45
2N741A	MOT	52	3.30	2.20
2N743	GE	65	6.20	4.15
2N743	TI	56	6.20	4.15
2N743A	GE	65	6.65	4.45
2N744	GE	65	2.90	1.95
2N744	MOT	50	2.90	1.95
2N744	TI	56	2.90	1.95
2N744A	GE	65	3.40	2.25
2N753	MOT	50	1.97	1.31
2N753	TI	56	1.97	1.31
2N759	GE	65	1.75	1.17
2N760	GE	65	1.80	1.20
2N760	TI	56	2.50	1.60

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N760A	GE	65	1.83	1.22
2N760A	TI	56	2.70	1.80
2N769	SPR	..	6.75	4.95
2N779A	SPR	..	3.50	2.55
2N780	TI	56	7.50	5.00
2N782	SYL	84	2.40	1.60
2N797	TI	60	4.27	2.85
2N827	MOT	50	2.50	1.65
2N828	MOT	50	3.30	2.20
2N828A	MOT	50	3.75	2.50
2N829	MOT	50	4.45	2.95
2N834	GE	65	2.58	1.72
2N834	MOT	50	2.00	1.35
2N834	RCA	77	3.05	2.04
2N835	MOT	50	1.50	1.00
2N838	MOT	50	5.40	3.60
2N849	TI	56	6.00	4.00
2N850	TI	56	7.10	4.75
2N851	TI	56	8.45	5.65
2N852	TI	56	9.43	6.30
2N859	SPR	..	9.35	6.95
2N861	SPR	..	6.00	4.40
2N863	SPR	..	4.50	3.30
2N869	MOT	52	5.85	3.90
2N870	GE	65	5.25	3.50
2N870	TI	57	5.25	3.50
2N871	GE	65	5.33	3.56
2N871	TI	57	5.33	3.56
2N876	TI	64	7.20	5.40
2N877	GE	72	7.55	5.05
2N877	TI	64	10.00	6.70
2N878	GE	72	8.85	5.90
2N878	TI	64	13.00	8.90
2N879	GE	72	11.10	7.40
2N879	TI	64	17.77	11.85
2N880	GE	72	15.00	10.00
2N880	TI	64	28.25	18.90
2N881	GE	72	19.15	12.75
2N881	TI	64	30.00	20.00
2N884	TI	64	9.00	6.00
2N885	GE	72	9.00	6.00
2N885	TI	64	11.25	7.50
2N886	GE	72	11.00	7.30
2N886	TI	64	14.70	9.80
2N887	GE	72	13.35	8.90
2N887	TI	64	21.60	14.40
2N888	GE	72	19.15	12.75
2N888	TI	64	33.00	22.00
2N889	GE	72	22.50	15.00
2N889	TI	64	36.00	24.00
2N910	GE	65	2.37	1.58
2N910	TI	57	2.61	1.74
2N911	TI	57	5.55	3.70
2N912	TI	57	5.30	4.00
2N914	GE	65	1.40	.93
2N914	MOT	50	1.57	1.05
2N914	RCA	77	1.57	1.05
2N914	TI	56	1.04	.84
2N915	GE	65	5.08	3.39
2N915	MOT	50	5.85	3.90
2N916	GE	65	3.65	2.90
2N916	MOT	50	4.95	3.30
2N916	TI	56	3.65	2.90
2N917	GE	65	4.95	3.30
2N917	RCA	79	2.48	1.65
2N917	TI	56	4.95	3.30
2N918	GE	65	5.25	3.50
2N918	MOT	52	5.25	3.50
2N918/JAN	MOT	..	6.75	4.50
2N918	RCA	79	3.30	2.20
2N918	TI	56	5.25	3.50
2N929	GE	65	3.67	2.44
2N929	MOT	50	4.10	2.75
2N929	SPR	..	4.50	3.00
2N929	TI	56	3.60	2.40
2N930	GE	65	4.00	2.67
2N930	MOT	50	4.50	3.00
2N930	SPR	..	6.00	4.00
2N930	TI	56	3.87	2.65
2N941	SPR	83	6.60	4.40
2N942	SPR	83	5.30	3.55
2N943	SPR	83	7.85	5.25
2N944	SPR	83	5.70	3.80
2N945	SPR	83	3.75	2.50
2N946	SPR	83	6.45	4.30
2N956	GE	65	2.17	1.44
2N956	MOT	50	2.16	1.44
2N956	TI	57	2.60	1.73
2N960	MOT	50	1.26	.84
2N960	TI	60	.96	.64
2N961	MOT	50	1.21	.81
2N961	TI	60	.91	.61
2N962	MOT	50	1.18	.79
2N962/JAN	MOT	..	1.57	1.25
2N962	TI	60	.86	.57
2N963	MOT	50	1.08	.72
2N963	TI	60	.83	.55
2N964	MOT	50	1.57	1.04
2N964	TI	60	.99	.66
2N964A	MOT	50	5.25	3.50
2N964/JAN	MOT	..	2.71	1.81
2N965	MOT	50	1.44	.96
2N965	TI	60	.94	.63
2N966	MOT	50	1.40	.93
2N966	TI	60	.89	.59
2N967	MOT	50	1.25	.83
2N967	TI	60	.87	.58
2N968	MOT	50	1.53	1.02
2N968	TI	60	.90	.60
2N969	MOT	50	1.24	.83
2N969	TI	60	.84	.56

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 26 2N970 MOT

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N970	MOT	50	.89	.59
2N970	TI	60	.81	.54
2N971	MOT	50	.84	.56
2N971	TI	60	.80	.53
2N972	MOT	50	1.60	1.07
2N972	TI	60	.93	.62
2N973	MOT	50	1.35	.90
2N973	TI	60	.89	.59
2N974	MOT	50	.94	.63
2N974	TI	60	.83	.55
2N975	MOT	50	.89	.59
2N975	TI	60	.81	.54
2N976	SPR	..	4.35	3.20
2N984	SPR	..	1.00	.75
2N985	MOT	50	2.88	1.92
2N985	TI	60	2.83	1.89
2N995	MOT	52	5.85	3.90
2N997	GE	67	14.90	9.95
2N997	SPR	83	13.50	9.00
2N997	TI	58	15.00	10.00
2N998	GE	67	14.65	9.80
2N999	GE	67	15.85	10.55
2N1008	MOT	49	.75	.50
2N1008A	MOT	49	.83	.55
2N1008B	MOT	49	.92	.61
2N1010	RCA	78	2.89	2.00
2N1011	MOT	48	1.95	1.45
2N1011/USA	MOT	..	2.65	1.94
2N1021	MOT	48	3.10	2.05
2N1021	TI	61	3.55	2.05
2N1021A	TI	61	3.55	2.05
2N1022	MOT	48	3.60	2.40
2N1022	TI	61	4.15	2.40
2N1022A	TI	61	4.15	2.40
2N1023	RCA	79	2.72	1.88
2N1035	NSC	..	4.05	2.70
2N1038	SYL	84	2.80	1.90
2N1038	TI	61	2.85	1.90
2N1039	SYL	84	3.75	2.50
2N1039	TI	61	3.75	2.50
2N1039/JAN	TI	..	4.50	3.00
2N1040	SYL	84	5.70	3.80
2N1040	TI	61	5.70	3.80
2N1041	TI	61	7.50	5.00
2N1041/USN	TI	..	8.25	5.50
2N1042	TI	61	4.50	3.00
2N1043	TI	61	5.85	3.90
2N1044	TI	61	8.80	5.65
2N1045	TI	61	11.45	7.65
2N1046	TI	61	8.25	5.50
2N1047	TI	59	14.30	9.55
2N1047A	TI	59	14.30	9.55
2N1047B	TI	59	25.95	17.30
2N1048	TI	59	18.10	12.05
2N1048A	TI	59	18.10	12.05
2N1048B	TI	59	38.30	25.50
2N1049	TI	59	16.75	11.15
2N1049A	TI	59	16.75	11.15
2N1049B	TI	59	33.75	22.50
2N1050	TI	59	22.10	14.20
2N1050A	TI	59	22.10	14.20
2N1050B	TI	59	46.90	31.20
2N1057	GE	68	5.25	3.50
2N1059	SYL	84	1.00	.67
2N1066	RCA	79	1.98	1.37
2N1073	MOT	48	2.40	1.78
2N1073A	MOT	48	3.60	2.67
2N1073B	MOT	48	4.50	3.30
2N1086	GE	68	1.11	.74
2N1086A	GE	68	1.59	1.06
2N1087	GE	68	1.83	1.22
2N1090	RCA	77	1.11	.77
2N1091	RCA	77	1.41	.97
2N1097	GE	68	.57	.38
2N1098	GE	68	.53	.35
2N1099	MOT	48	3.90	2.07

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N1099	RCA	76	4.31	2.98
2N1100	MOT	48	4.50	3.34
2N1100	RCA	76	5.02	3.47
2N1101	SYL	84	.58	.39
2N1102	SYL	84	.64	.43
2N1118	SPR	..	11.15	8.25
2N1118A	SPR	..	15.60	11.55
2N1120	MOT	48	8.25	5.50
2N1120/USA	MOT	..	12.75	8.50
2N1121	GE	68	1.59	1.06
2N1122	SPR	..	5.45	4.00
2N1122A	SPR	..	6.75	4.95
2N1131	HUG	88	5.00	3.75
2N1131	MOT	51	5.60	3.75
2N1131	TI	57	5.60	3.75
2N1131/USN	TI	..	6.00	4.00
2N1132	HUG	88	5.85	4.39
2N1132	MOT	51	5.60	3.75
2N1132/USN	MOT	..	6.00	4.00
2N1132	TI	57	5.60	3.75
2N1132A	MOT	51	12.00	8.00
2N1132B	MOT	51	16.70	11.15
2N1141	MOT	52	4.83	3.22
2N1141	TI	60	4.83	3.22
2N1141A	TI	60	13.70	9.14
2N1142	MOT	52	4.20	2.80
2N1142	TI	60	4.20	2.80
2N1142/USN	TI	..	4.61	3.08
2N1142A	TI	60	6.29	4.18
2N1143	MOT	52	3.50	2.33
2N1143	TI	60	3.50	2.33
2N1143A	TI	60	5.86	3.91
2N1149	TI	..	8.65	5.75
2N1150	TI	..	8.65	5.75
2N1151	TI	..	8.65	5.75
2N1152	TI	..	11.35	7.55
2N1153	TI	..	13.35	8.90
2N1154	TI	..	12.65	8.40
2N1155	TI	..	13.15	8.80
2N1156	TI	..	17.65	11.75
2N1162	MOT	48	4.45	3.30
2N1162A	MOT	49	5.08	3.75
2N1163	MOT	48	4.45	3.30
2N1163A	MOT	49	5.08	3.75
2N1164	MOT	48	6.35	4.70
2N1164A	MOT	49	6.95	5.15
2N1165	MOT	48	6.35	4.70
2N1165/USN	MOT	..	14.60	9.75
2N1165A	MOT	49	6.95	5.15
2N1166	MOT	48	7.55	5.60
2N1166A	MOT	49	8.10	6.00
2N1167	MOT	48	7.55	5.60
2N1167A	MOT	49	8.10	6.00
2N1175	GE	68	.93	.62
2N1175	MOT	49	.87	.58
2N1175A	GE	68	1.35	.90
2N1177	RCA	79	.83	.57
2N1178	RCA	79	.81	.56
2N1179	RCA	79	.81	.56
2N1180	RCA	79	.68	.47
2N1183	RCA	77	1.82	1.25
2N1183/JAN	RCA	..	2.64	1.76
2N1183A	RCA	77	2.31	1.60
2N1183B	RCA	77	2.89	2.00
2N1184	RCA	77	2.48	1.71
2N1184A	RCA	77	2.81	1.94
2N1184B	RCA	77	4.13	2.85
2N1184B/USA	RCA	..	5.36	3.71
2N1185	MOT	49	2.40	1.60
2N1186	MOT	49	2.60	1.75
2N1187	MOT	49	2.60	1.75
2N1188	MOT	49	3.15	2.10
2N1189	MOT	49	1.50	1.00
2N1190	MOT	49	1.67	1.11
2N1191	MOT	49	1.12	.75
2N1192	MOT	49	1.12	.75
2N1193	MOT	49	1.50	1.00
2N1194	MOT	49	1.65	1.10
2N1195	MOT	52	3.95	2.63
2N1195/JAN	MOT	..	4.43	2.95
2N1195	TI	60	3.95	2.63
2N1204	MOT	50	1.65	1.10
2N1204A	MOT	50	1.65	1.10
2N1217	GE	68	2.91	1.94
2N1224	RCA	79	1.24	.86
2N1225	RCA	79	1.41	.97
2N1226	RCA	79	1.49	1.03
2N1228	HUG	88	3.10	2.33
2N1229	HUG	88	3.10	2.33
2N1231	HUG	88	10.65	8.00
2N1233	HUG	88	17.50	13.13
2N1234	HUG	88	20.50	15.38
2N1234/JAN	HUG	..	25.30	19.00
2N1247	TI	56	13.50	9.00
2N1248	TI	56	13.50	9.00
2N1252	TI	57	6.90	4.55
2N1253	TI	57	11.95	7.95
2N1254	HUG	88	7.80	5.85
2N1255	HUG	88	10.27	7.70
2N1258	HUG	88	13.00	9.75
2N1259	HUG	88	12.85	9.64
2N1273	TI	60	.42	.28
2N1274	TI	60	.50	.33

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N1275	HUG	88	6.50	4.88
2N1276	TI	57	3.85	2.55
2N1277	TI	57	4.25	2.84
2N1278	TI	57	4.75	3.15
2N1279	GE	..	2.67	1.78
2N1279	TI	57	5.60	3.70
2N1285	RCA	79	1.72	1.19
2N1300	RCA	77	.91	.63
2N1301	RCA	77	1.04	.72
2N1302	RCA	77	.45	.31
2N1302	TI	60	.50	.33
2N1302/JAN	TI	..	.51	.34
2N1303	GE	68	.45	.30
2N1303	RCA	77	.45	.30
2N1303	TI	60	.50	.33
2N1303/JAN	TI	..	.51	.34
2N1304	RCA	77	.53	.37
2N1304	TI	60	.60	.40
2N1305	GE	68	.52	.35
2N1305	RCA	77	.53	.36
2N1305	TI	60	.60	.40
2N1306	RCA	77	.75	.52
2N1306	TI	60	.80	.53
2N1307	GE	68	.66	.44
2N1307	RCA	77	.75	.50
2N1307	TI	60	.80	.53
2N1308	RCA	77	1.08	.75
2N1308	TI	60	1.08	.72
2N1308/JAN	TI	..	1.16	.77
2N1309	GE	68	1.07	.72
2N1309	RCA	77	1.08	.75
2N1309	TI	60	1.07	.72
2N1309/JAN	TI	..	1.16	.77
2N1310	TI	60	4.50	3.00
2N1311	TI	60	3.23	2.15
2N1312	TI	60	1.77	1.18
2N1335	TRW	87	24.00	16.00
2N1342	TRW	87	21.60	17.30
2N1358	MOT	48	4.15	3.06
2N1358	RCA	76	4.59	3.17
2N1358A	MOT	48	6.00	4.45
2N1358/JAN	MOT	..	4.50	3.34
2N1359	MOT	48	1.40	1.05
2N1360	MOT	48	1.70	1.25
2N1362	MOT	48	2.85	2.12
2N1363	MOT	48	3.10	2.30
2N1364	MOT	48	4.75	3.53
2N1365	MOT	48	5.00	3.70
2N1370	TI	..	.72	.48
2N1371	TI	..	1.14	.76
2N1372	TI	60	.81	.54
2N1373	TI	60	1.20	.80
2N1374	TI	60	1.02	.68
2N1375	TI	60	1.38	.92
2N1376	TI	60	1.29	.86
2N1377	TI	60	1.50	1.00
2N1378	TI	60	1.29	.86
2N1379	TI	60	1.44	.96
2N1380	TI	60	.66	.44
2N1381	TI	60	.72	.48
2N1382	TI	60	.99	.66
2N1383	TI	60	.92	.61
2N1384	RCA	77	2.06	.143
2N1395	RCA	79	1.49	1.03
2N1396	RCA	79	1.65	1.14
2N1397	RCA	79	2.15	1.48
2N1404	TI	60	.58	.39
2N1408	MOT	49	.83	.55
2N1412	MOT	48	4.50	3.34
2N1412/USN	MOT	..	5.25	3.89
2N1412	RCA	76	5.76	3.98
2N1413	GE	68	.73	.49
2N1413	MOT	49	.73	.49
2N1414	GE	68	.81	.54
2N1414	MOT	49	.78	.52
2N1415	GE	68	.93	.62
2N1415	MOT	49	.92	.61
2N1417	GE	..	.90	.60
2N1418	GE	..	.98	.65
2N1420	GE	..	1.67	1.11
2N1420	MOT	50	1.48	.99
2N1420	TI	57	1.20	.80
2N1479	RCA	77	2.15	1.48
2N1480	RCA	77	2.31	1.60
2N1481	RCA	77	2.48	1.71
2N1482	RCA	77	3.30	2.28
2N1482/JAN	RCA	..	3.71	2.57
2N1483	RCA	77	2.89	2.00
2N1483/JAN	RCA	..	3.71	2.57
2N1484	RCA	77	3.63	2.51
2N1485	RCA	77	4.46	3.08
2N1485/JAN	RCA	..	5.28	3.65
2N1486	RCA	77	6.77	4.67
2N1487	RCA	76	4.54	3.14
2N1488	RCA	76	3.42	3.30
2N1489	RCA	76	7.43	5.13
2N1490	RCA	76	8.25	5.70
2N1491	RCA	79	1.82	1.25
2N1492	RCA	79	4.29	2.96
2N1493	RCA	79	7.01	4.85
2N1494	MOT	50	2.17	1.45

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N1494A	MOT	50	2.17	1.45
2N1495	MOT	50	3.30	2.20
2N1496	MOT	50	3.80	2.55
2N1499A	SPR	..	1.40	1.05
2N1499B	SPR	..	1.55	1.15
2N1500	SPR	..	6.95	5.10
2N1506	NSC	..	14.50	9.00
2N1507	TI	57	1.20	.80
2N1510	GE	68	2.42	1.61
2N1524	RCA	79	.40	.28
2N1525	RCA	79	.43	.30
2N1526	RCA	79	.41	.28
2N1527	RCA	79	.47	.32
2N1529	MOT	48	1.45	1.08
2N1529A	MOT	49	1.80	1.35
2N1530	MOT	48	1.60	1.15
2N1530A	MOT	49	2.00	1.50
2N1531	MOT	48	2.30	1.70
2N1531A	MOT	49	2.85	2.10
2N1532	MOT	48	3.00	2.24
2N1532A	MOT	49	3.58	2.65
2N1533	MOT	48	4.35	3.25
2N1534	MOT	48	1.40	1.05
2N1534A	MOT	49	1.95	1.45
2N1535	MOT	48	1.50	1.14
2N1535A	MOT	49	2.10	1.55
2N1536A	MOT	49	2.20	1.65
2N1537	MOT	48	3.90	2.90
2N1537A	MOT	49	4.45	3.30
2N1538	MOT	48	5.50	4.05
2N1539	MOT	48	1.50	1.12
2N1539	TI	61	1.60	1.05
2N1539A	MOT	49	2.05	1.52
2N1540	MOT	48	1.58	1.18
2N1540	TI	61	1.80	1.20
2N1540A	MOT	49	2.10	1.62
2N1541	MOT	48	1.85	1.38
2N1541	TI	61	2.85	1.90
2N1541A	MOT	49	2.35	1.75
2N1542	MOT	48	2.35	1.75
2N1542	TI	61	3.50	2.35
2N1542A	MOT	49	3.04	2.25
2N1543	MOT	48	3.60	2.65
2N1543	TI	61	5.75	3.15
2N1544	MOT	48	1.65	1.24
2N1544A	MOT	49	2.22	1.64
2N1545	MOT	48	1.85	1.35
2N1545A	MOT	49	2.35	1.75
2N1546	MOT	48	2.30	1.70
2N1546A	MOT	49	2.95	2.20
2N1547	MOT	48	2.75	2.05
2N1547A	MOT	49	3.45	2.55
2N1548	MOT	48	4.00	2.95
2N1549	MOT	48	2.55	1.70
2N1549A	MOT	49	3.30	2.20
2N1550	MOT	48	3.05	2.05
2N1550A	MOT	49	3.80	3.55
2N1551	MOT	48	4.85	3.25
2N1551A	MOT	49	5.60	3.75
2N1552	MOT	48	5.55	3.70
2N1552A	MOT	49	6.30	4.20
2N1553	MOT	48	1.85	1.35
2N1553A	MOT	49	2.35	1.75
2N1554	MOT	48	2.30	1.70
2N1554A	MOT	49	2.85	2.10
2N1555	MOT	48	2.75	2.05
2N1555A	MOT	49	3.45	2.55
2N1556	MOT	48	4.00	2.95
2N1556A	MOT	49	4.65	3.45
2N1557	MOT	48	2.15	1.58
2N1557A	MOT	49	2.70	2.00
2N1558	MOT	48	2.80	2.06
2N1558A	MOT	49	3.40	2.50
2N1559	MOT	48	3.25	2.40
2N1559A	MOT	49	3.90	2.90
2N1560	MOT	48	4.45	3.30
2N1560A	MOT	49	5.00	3.70
2N1561	MOT	52	21.75	14.50
2N1562	MOT	52	14.25	9.50
2N1564	TI	57	2.50	1.65
2N1565	TI	57	2.50	1.65
2N1566	TI	57	2.50	1.65
2N1566A	TI	57	2.50	1.65
2N1595	GE	72	3.00	2.00
2N1595	MOT	47	3.05	2.05
2N1595	TI	64	3.05	2.05
2N1596	GE	72	4.60	3.05
2N1596	MOT	47	4.95	3.30
2N1596	TI	64	4.50	3.05
2N1597	GE	72	9.25	6.25
2N1597	MOT	47	9.45	6.30
2N1597	TI	64	9.45	6.30
2N1598	GE	72	14.50	9.65
2N1598	MOT	47	14.45	9.65
2N1598	TI	64	14.45	9.65
2N1599	GE	72	19.35	12.90
2N1599	MOT	47	19.35	12.90
2N1599	TI	64	19.35	12.90
2N1600	IR	80	5.10	3.40
2N1600	TI	64	5.10	3.40
2N1601	IR	80	5.70	3.95
2N1601	TI	64	5.70	3.45
2N1602	IR	80	9.45	6.30
2N1602	TI	64	9.45	6.30
2N1603	IR	80	13.50	9.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N1603	TI	64	13.50	9.00
2N1604	IR	80	16.80	10.80
2N1604	TI	64	16.80	10.80
2N1605	RCA	77	.99	.69
2N1605	TI	60	.72	.48
2N1605A	RCA	77	1.26	.87
2N1613	GE	65	1.50	1.00
2N1613	MOT	50	1.50	1.00
2N1613	RCA	76	1.08	.72
2N1613	TI	57	2.30	1.53
2N1614	GE	68	2.50	1.65
2N1616	GE	66	26.00	17.50
2N1617	GE	66	30.00	20.00
2N1618	GE	66	35.00	23.50
2N1623	HUG	88	2.16	1.62
2N1631	RCA	79	.53	.37
2N1632	RCA	79	.49	.34
2N1637	RCA	79	.52	.36
2N1638	RCA	79	.45	.31
2N1639	RCA	79	.48	.34
2N1671	GE	67	2.95	1.97
2N1671	TI	58	2.95	1.98
2N1671A	GE	67	3.20	2.13
2N1671A	TI	58	3.20	2.14
2N1671B	GE	67	3.55	2.36
2N1671B	TI	58	3.55	2.36
2N1671C	GE	67	8.25	5.50
2N1683	RCA	77	1.65	1.14
2N1692	MOT	52	22.50	17.00
2N1693	MOT	52	18.00	12.00
2N1694	GE	68	.99	.66
2N1700	RCA	77	1.90	1.31
2N1701	RCA	77	2.31	1.60
2N1702	RCA	76	4.54	3.14
2N1705	MOT	49	.60	.40
2N1706	MOT	49	.66	.44
2N1707	MOT	49	.67	.45
2N1711	GE	65	1.75	1.17
2N1711	MOT	50	1.75	1.17
2N1711	RCA	78	1.16	.77
2N1711	TI	..	2.96	1.98
2N1714	TI	59	6.00	4.00
2N1715	TI	59	8.25	5.50
2N1716	TI	59	7.50	5.00
2N1717	TI	59	11.25	7.50
2N1718	TI	59	6.75	4.50
2N1719	TI	59	9.00	6.00
2N1720	TI	59	8.25	5.50
2N1721	TI	59	12.00	8.00
2N1722	TI	59	52.50	35.00
2N1722A	TI	59	60.00	40.00
2N1723	TI	59	54.00	36.00
2N1724	GE	66	55.50	37.00
2N1724	MOT	49	55.50	37.00
2N1724	TI	59	55.50	37.00
2N1724A	GE	66	63.20	42.10
2N1724A	TI	59	63.00	42.00
2N1725	GE	66	57.00	38.00
2N1725	MOT	49	57.00	38.00
2N1725	TI	59	57.00	38.00
2N1726	SPR	..	1.15	.85
2N1742	SPR	..	2.93	2.15
2N1743	SPR	..	2.87	2.11
2N1744	SPR	..	2.25	1.65
2N1745	SPR	..	1.80	1.32
2N1746	SPR	..	1.00	.75
2N1748	SPR	..	1.05	.80
2N1748A	SPR	..	1.15	.85
2N1754	SPR	..	1.35	.95
2N1770	GE	72	4.05	2.70
2N1770	IR	80	5.00	3.30
2N1770	RCA	76	5.36	3.58
2N1770	TI	64	4.05	2.70
2N1770A	GE	72	6.15	4.10
2N1770A	IR	80	5.50	3.63
2N1771	GE	72	4.65	3.10
2N1771	IR	80	5.40	3.60
2N1771	RCA	76	5.78	3.85
2N1771	TI	64	4.65	3.10
2N1771A	GE	72	7.00	4.65
2N1771A	IR	80	6.30	3.97
2N1772	GE	72	5.77	3.85
2N1772	IR	80	6.55	4.00
2N1772	RCA	76	7.43	4.95
2N1772	TI	64	5.75	3.85
2N1772A	GE	72	9.00	6.00
2N1772A/USN	GE	..	11.76	7.84
2N1772A	IR	80	8.10	4.40
2N1773	GE	72	6.97	4.65
2N1773	IR	80	8.75	4.85
2N1773	RCA	76	9.49	6.35
2N1773	TI	64	7.00	4.65
2N1773A	GE	72	11.10	7.40
2N1773A	IR	80	10.00	5.35
2N1774	GE	72	8.17	5.45
2N1774	IR	80	9.35	5.60
2N1774	RCA	76	11.96	8.00
2N1774	TI	64	8.15	5.45
2N1774A	GE	72	13.50	9.00
2N1774A	IR	80	12.10	6.15
2N1775	GE	72	9.37	6.25
2N1775	IR	80	12.80	6.25
2N1775	RCA	76	14.03	9.35
2N1775	TI	64	9.35	6.25
2N1775A	GE	72	15.75	10.50
2N1775A	IR	80	14.20	6.87
2N1776	GE	72	10.65	7.10
2N1776	IR	80	14.80	7.50
2N1776	RCA	76	16.09	10.75
2N1776	TI	64	10.65	7.10
2N1776A	GE	72	18.40	12.25

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N1776A	IR	80	16.50	8.25
2N1777	GE	72	12.45	8.30
2N1777	IR	80	17.95	8.35
2N1777	RCA	76	20.65	13.75
2N1777	TI	64	12.45	8.30
2N1777A	GE	72	23.65	15.75
2N1777A	IR	80	21.25	9.20
2N1778	GE	72	18.20	12.10
2N1778	IR	80	22.50	12.10
2N1778	RCA	76	24.75	16.50

Type No.	Mfr.	Page No.	EACH 1-24	25-99
2N1792	GE	73	24.80	19.20
2N1793	GE	73	28.80	22.30
2N1794	GE	73	33.40	25.80
2N1795	GE	73	38.00	29.40
2N1796	GE	73	44.50	34.50
2N1797	GE	73	50.50	39.20
2N1798	GE	73	66.50	51.50

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
2N1808	TI	60	.58	.58	.39
2N1842	IR	80	6.00	6.00	3.50
2N1842	MOT	47	4.35	4.35	2.90
2N1842A	GE	72	5.55	5.55	3.75
2N1842A	IR	80	6.95	6.95	3.85
2N1842A	MOT	47	5.60	5.60	3.75
2N1842A	RCA	76	2.89	2.89	1.93
2N1842B	TI	64	2.89	2.89	1.93
2N1843	IR	80	6.75	6.75	3.85
2N1843	MOT	47	4.80	4.80	3.20
2N1843A	GE	72	6.15	6.15	4.10
2N1843A	IR	80	7.60	7.60	4.25
2N1843A	MOT	47	6.20	6.20	4.15
2N1843A	RCA	76	3.71	3.71	2.48
2N1843B	TI	64	3.71	3.71	2.48
2N1844	GE	..	6.25	6.25	4.15
2N1844	IR	80	7.40	7.40	4.20
2N1844	MOT	47	5.45	5.45	3.65
2N1844A	GE	72	6.90	6.90	4.60
2N1844A	IR	80	8.30	8.30	4.62
2N1844A	MOT	47	6.50	6.50	4.35
2N1844A	RCA	76	5.78	5.78	3.85
2N1844B	TI	64	5.78	5.78	3.85
2N1845	IR	80	9.05	9.05	4.95
2N1845	MOT	47	6.75	6.75	4.50
2N1845A	GE	72	8.10	8.10	5.40
2N1845A	IR	80	10.25	10.25	5.40
2N1845A	MOT	47	8.25	8.25	5.50
2N1845A	RCA	76	5.94	5.94	3.96

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N1845B	TI	64	5.94	3.96
2N1846	GE	..	8.70	5.80
2N1846	IR	80	10.80	5.90
2N1846	MOT	47	8.00	5.35
2N1846A	GE	72	9.50	6.35
2N1846A	IR	80	11.70	6.49
2N1846A	MOT	47	9.30	6.20
2N1846A	RCA	76	6.19	4.13
2N1846B	TI	64	6.19	4.13
2N1847	IR	80	12.75	6.60
2N1847	MOT	47	11.40	7.60
2N1847A	GE	72	10.65	7.10
2N1847A	IR	80	14.50	7.25
2N1847A	MOT	47	13.40	8.95
2N1847A	RCA	76	6.60	4.40
2N1847B	TI	64	6.60	4.40
2N1848	GE	..	11.65	7.75
2N1848	IR	80	15.10	7.95
2N1948	MOT	47	13.40	8.95
2N1848A	GE	72	12.70	8.45
2N1848A	IR	80	16.00	8.75
2N1848A	MOT	47	16.20	10.80
2N1848A	RCA	76	7.01	4.68
2N1848B	TI	64	12.70	8.45
2N1849	GE	..	13.85	9.25
2N1849	IR	80	18.00	9.25
2N1849	MOT	47	17.10	11.40
2N1849A	GE	72	15.60	10.40
2N1849A	IR	80	19.60	10.70
2N1849A	MOT	47	21.30	14.20
2N1849A	RCA	76	8.25	5.50
2N1849B	TI	64	15.60	10.40
2N1850	IR	80	20.40	11.15
2N1850	MOT	47	19.50	13.00
2N1850A	GE	72	18.40	12.25
2N1850A	IR	80	22.50	12.25
2N1850A	MOT	47	28.10	18.75
2N1850A	RCA	76	9.90	6.60
2N1850B	TI	64	18.40	12.25
2N1853	RCA	77	1.32	.92
2N1854	RCA	77	1.65	1.14
2N1867	SPR	..	1.15	.85
2N1889	GE	65	5.25	3.50
2N1889	TI	57	5.25	3.50
2N1890	GE	65	5.30	3.55
2N1890	TI	57	5.32	3.55
2N1893	GE	65	2.10	1.60
2N1893	MOT	50	2.45	1.65
2N1893	RCA	77	1.32	.92
2N1893	TI	57	3.42	2.28

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 1 2N1605 RCA

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N1893/JAN	TRW	..	9.75	6.45
2N1899	TRW	87	90.00	72.00
2N1905	RCA	77	4.13	2.85
2N1906	RCA	77	6.60	4.56
2N1907	TI	61	7.90	5.25
2N1908	TI	61	11.30	7.50

Type No.	Mfr.	Page No.	EACH 1-9	10-24	25-99
2N1909	IR	80	17.50	13.50	13.50
2N1910	IR	80	22.30	16.50	16.50
2N1911	IR	80	25.90	19.80	19.80
2N1912	IR	80	30.00	22.75	22.75
2N1913	GE	73	38.00	38.00	29.40
2N1913	IR	80	34.20	25.00	25.00
2N1914	IR	80	40.00	28.00	28.00
2N1915	IR	80	45.50	32.50	32.50
2N1916	GE	73	66.50	66.50	51.50
2N1916	IR	80	60.00	38.50	38.50

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N1924	GE	68	1.57	1.04
2N1924	MOT	49	1.57	1.04
2N1925	GE	68	1.77	1.18
2N1925	MOT	49	1.77	1.18
2N1926	GE	68	2.08	1.39
2N1926	MOT	49	2.08	1.39
2N1929	GE	72	6.15	4.10
2N1930	GE	72	7.65	5.10
2N1931	GE	72	10.70	7.10
2N1932	GE	72	13.20	8.80
2N1933	GE	72	15.00	10.00
2N1936	TI	59	67.50	45.00
2N1937	TI	59	75.00	50.00
2N1940	MOT	50	45.00	30.00
2N1959	SYL	85	4.45	2.95
2N1959A	SYL	85	6.60	4.40
2N1959A/51	SYL	85	20.00	12.50
2N1964	SYL	85	6.37	4.25
2N1970	MOT	48	2.35	1.73
2N1973	GE	65	2.37	1.58
2N1973	TI	57	8.00	6.00
2N1974	GE	..	7.90	5.25
2N1974	TI	57	6.70	5.00
2N1975	TI	57	5.30	4.00
2N1980	MOT	48	4.50	3.00
2N1981	MOT	48	5.50	3.70
2N1982	MOT	48	7.80	5.20
2N1983	GE	45	2.50	1.67
2N1984	GE	65	2.33	1.56
2N1990	SYL	85	2.25	1.50
2N1990	TRW	..	3.55	2.35
2N1991	HUG	88	3.95	2.96
2N1991	MOT	51	3.95	2.96
2N1994	TI	60	2.32	1.55
2N1995	TI	60	3.75	2.50
2N1996	TI	60	5.14	3.43
2N1997	TI	60	1.77	1.18
2N1998	TI	60	1.88	1.25
2N1999	TI	60	2.07	1.38
2N2000	TI	60	2.50	1.67
2N2001	TI	60	2.17	1.45
2N2015	RCA	76	9.08	6.25
2N2016	RCA	76	9.90	6.85
2N2017	GE	66	1.95	1.30

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2N2023	GE	73	22.40	17.50
2N2024	GE	73	28.50	22.30

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Type No.	Mfr.	Page No.	EACH 1-24	25-99
2N2025	GE	73	33.20	26.00
2N2027	GE	73	43.60	34.20
2N2028	GE	73	48.70	38.20
2N2029	GE	73	58.10	45.50
2N2030	GE	73	76.50	60.00

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2N2042	MOT	49	1.85	1.25
2N2042A	MOT	49	2.25	1.50
2N2043	MOT	49	2.25	1.50
2N2043A	MOT	49	2.60	1.75
2N2048	SPR	..	1.80	1.32
2N2049	GE	65	9.45	6.30
2N2060	GE	67	27.00	18.00
2N2060	MOT	..	27.00	18.00
2N2060	TI	58	27.00	18.00
2N2060	TRW	87	36.00	25.00
2N2060A	MOT	..	36.00	24.00
2N2075	MOT	48	5.20	3.84
2N2075A	MOT	49	6.50	4.34
2N2076	MOT	48	3.60	2.67
2N2076A	MOT	49	4.75	3.17
2N2077	MOT	48	2.85	2.12
2N2077A	MOT	49	3.95	2.62
2N2078	MOT	48	1.90	1.39
2N2078A	MOT	49	2.85	1.89
2N2079	MOT	48	7.20	5.34
2N2079A	MOT	49	8.75	5.84
2N2080	MOT	48	5.10	3.78
2N2080A	MOT	49	6.40	4.28
2N2081	MOT	48	3.15	2.32
2N2081A	MOT	49	4.25	2.82
2N2082	MOT	48	2.40	1.78
2N2082A	MOT	49	3.40	2.28
2N2096	MOT	50	1.65	1.10
2N2097	MOT	50	3.30	2.20
2N2099	MOT	50	2.17	1.45
2N2100	MOT	50	3.80	2.55
2N2102	RCA	76	1.41	.97
2N2106	GE	66	1.97	1.32
2N2107	GE	66	2.09	1.39
2N2108	GE	66	2.10	1.40
2N2137	MOT	48	1.80	1.20
2N2137A	MOT	49	2.55	1.70
2N2138	MOT	48	2.10	1.40
2N2138A	MOT	49	2.85	1.90
2N2139	MOT	49	2.25	1.50
2N2139A	MOT	49	3.00	2.00
2N2140	MOT	48	3.90	2.60
2N2140A	MOT	49	4.65	3.10
2N2141	MOT	48	7.85	5.25
2N2141A	MOT	49	8.60	5.75
2N2142	MOT	48	2.30	1.55
2N2142A	MOT	49	3.05	2.05
2N2143	MOT	48	2.45	1.65
2N2143A	MOT	49	3.20	2.15
2N2144	MOT	48	3.75	2.50
2N2144A	MOT	49	4.50	2.00
2N2145	MOT	48	4.50	3.00
2N2145A	MOT	49	5.25	3.50
2N2146	MOT	48	8.60	5.75
2N2146A	MOT	49	9.35	6.25
2N2147	RCA	78	1.57	1.09
2N2148	RCA	78	1.16	.80
2N2150	GE	66	22.50	15.00
2N2150	TI	59	22.50	15.00
2N2151	GE	66	24.75	16.50
2N2151	TI	59	24.75	16.50
2N2152	MOT	48	3.60	2.40
2N2152A	MOT	49	4.35	2.90
2N2153	MOT	48	5.55	3.70
2N2153A	MOT	49	6.30	4.20
2N2154	MOT	48	10.10	6.75
2N2154A	MOT	49	10.85	7.25
2N2156	MOT	48	4.10	2.75
2N2156A	MOT	49	4.85	3.25
2N2157	MOT	48	6.35	4.25
2N2157A	MOT	49	7.10	4.75
2N2158	MOT	48	10.85	7.25
2N2158A	MOT	49	11.60	7.75
2N2160	GE	67	1.49	.99
2N2160	IR	..	1.49	1.20
2N2160	TI	58	1.49	.99
2N2171	MOT	49	1.27	.85
2N2185	SPR	..	15.00	11.00
2N2188	TI	60	1.27	.85
2N2189	TI	60	1.64	1.09
2N2190	TI	60	1.47	.98
2N2191	TI	60	1.85	1.23
2N2192	GE	65	4.20	2.80
2N2192	MOT	50	4.20	2.80
2N2192	TI	57	4.20	2.80
2N2192A	GE	65	4.45	2.95
2N2192A	MOT	50	4.40	2.95
2N2192A	TI	57	4.45	2.95
2N2192B	MOT	50	12.45	8.30
2N2193	GE	65	2.95	1.95
2N2193	MOT	50	2.90	1.95
2N2193	TI	57	2.95	1.95

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N2193A	GE	65	3.15	2.10
2N2193A	MOT	50	3.15	2.10
2N2193A	TI	57	3.15	2.10
2N2193B	MOT	50	10.80	7.20
2N2194	GE	65	2.20	1.47
2N2194	MOT	50	2.18	1.45
2N2194	TI	57	2.20	1.47
2N2194A	GE	65	2.45	1.63
2N2194A	MOT	50	2.40	1.60
2N2194A	TI	57	2.45	1.63
2N2194B	MOT	50	8.25	5.50
2N2195	GE	65	1.38	.92
2N2195	MOT	50	1.65	1.10
2N2195A	GE	65	1.53	1.02
2N2195A	MOT	50	1.80	1.20
2N2195B	MOT	50	2.40	1.60
2N2196	GE	66	4.50	3.00
2N2197	GE	66	4.62	3.25
2N2201	GE	66	6.90	4.60
2N2202	GE	66	13.20	8.95
2N2203	GE	66	13.30	8.85
2N2204	GE	66	15.55	10.35
2N2205	RCA	77	1.24	.83

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2N2210/USA	MOT	..	7.95	5.30

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2N2217	GE	65	3.02	2.01
2N2217	MOT	50	3.35	2.25
2N2217	SPR	..	3.02	2.01
2N2217	TI	65	3.35	2.25
2N2218	GE	50	3.35	2.25
2N2218	MOT	50	3.35	2.25
2N2218/JAN	MOT	..	4.10	2.75
2N2218	SPR	83	3.35	2.25
2N2218	SYL	85	3.35	2.25
2N2218	TI	57	3.56	2.37
2N2218A	MOT	50	5.25	3.50
2N2218-ML1	MOT	..	3.50	2.35
2N2218-ML2	MOT	..	4.10	2.75
2N2218A	GE	..	5.26	3.51
2N2218A	MOT	50	5.25	3.50
2N2218A/JAN	MOT	..	6.00	4.00
2N2218A	SPR	83	3.75	2.50
2N2218A	TI	57	5.26	3.51
2N2219	GE	65	3.56	2.37
2N2219	MOT	50	3.35	2.25
2N2219/JAN	MOT	..	4.10	2.75
2N2219	SPR	83	3.95	2.65
2N2219	SYL	85	3.35	2.37
2N2219	TI	57	3.56	2.37
2N2219-ML1	MOT	..	4.10	2.75
2N2219-ML2	MOT	..	4.70	3.15
2N2219A	GE	65	6.07	4 05
2N2219A	MOT	50	6.00	4.00
2N2219A/JAN	MOT	..	6.75	4.50
2N2219A	SPR	83	4.35	2.90
2N2219A	TI	57	6.07	4.05
2N2220	GE	65	3.02	2.01
2N2220	MOT	50	3.35	2.25
2N2220	SPR	..	3.35	2.25
2N2220	TI	57	3.02	2.01
2N2221	GE	65	3.35	2.25
2N2221	MOT	50	3.35	2.25
2N2221/JAN	MOT	..	4.10	2.75
2N2221	SPR	83	3.35	2.25
2N2221	TI	57	3.55	2.37
2N2221-ML1	MOT	..	3.50	2.35
2N2221-ML2	MOT	..	4.10	2.75
2N2221A	GE	65	5.26	3.51
2N2221A	MOT	50	5.25	3.50
2N2221A	SPR	83	3.75	2.50
2N2221A	TI	57	5.26	3.51
2N2222	GE	65	3.95	2.65
2N2222	MOT	50	3.35	2.25
2N2222/JAN	MOT	..	4.10	2.75
2N2222	SPR	83	3.95	2.65
2N2222	TI	57	3.98	2.65

Type No.	Mfr.	Page No.	EACH 1-24	25-99
2N2222/JAN	SPR	..	4.35	2.90

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N2222-ML1	MOT	..	3.50	2.35
2N2222-ML2	MOT	..	4.10	2.75
2N2222A	GE	65	6.07	4.05
2N2222A	MOT	50	6.00	4.00
2N2222A/JAN	MOT	..	6.75	4.50
2N2222A	SPR	83	4.35	2.90
2N2222A	TI	57	6.07	4.05
2N2223	GE	67	10.00	6.70
2N2223	MOT	..	10.05	6.70
2N2223	TI	58	10.00	6.70
2N2223A	GE	67	15.00	10.00
2N2223A	MOT	..	15.00	10.00
2N2223A	TI	58	15.00	10.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N2239	GE	..	3.33	2.22
2N2243	TI	57	4.80	3.20
2N2243A	TI	57	5.10	3.40
2N2256	MOT	50	1.12	.75
2N2257	MOT	50	1.27	.85
2N2258	MOT	50	1.12	.75
2N2259	MOT	50	1.27	.85
2N2270	RCA	76	1.16	.80
2N2273	MOT	52	2.25	1.50
2N2273/JAN	MOT	..	2.45	1.65
2N2280	SPR	..	4.50	3.30
2N2303	MOT	51	8.25	5.50
2N2305	RCA	..	6.44	4.45
2N2322	GE	72	3.00	2.00
2N2322A	GE	72	3.60	2.40
2N2323	GE	72	3.30	2.20
2N2323A	GE	72	4.00	2.65
2N2324	GE	72	5.40	3.60
2N2324A	GE	72	6.60	4.40
2N2325	GE	72	7.95	5.30
2N2325A	GE	72	9.60	6.40
2N2326	GE	72	10.35	6.90
2N2326A	GE	72	12.40	8.25
2N2327	GE	72	12.95	8.65
2N2327A	GE	72	15.75	10.50
2N2328	GE	72	16.00	10.65
2N2328A	GE	72	19.35	12.90
2N2329	GE	72	21.20	14.15
2N2330	MOT	51	14.62	9.75
2N2330	SPR	83	4.35	2.90
2N2331	MOT	51	14.62	9.75
2N2331	SPR	83	4.35	2.90
2N2338	RCA	76	6.60	4.56
2N2344	GE	72	7.95	5.30
2N2345	GE	72	9.15	6.10
2N2346	GE	72	13.35	8.90
2N2347	GE	72	15.45	10.30
2N2348	GE	72	18.90	12.60
2N2350	GE	65	4.80	3.20
2N2350A	GE	65	5.05	3.35
2N2351	GE	65	3.55	2.35
2N2351A	GE	65	3.75	2.50
2N2352	GE	65	2.95	1.87
2N2352A	GE	65	3.20	2.13
2N2353	GE	65	1.98	1.32
2N2353A	GE	65	2.13	1.42
2N2356	GE	67	20.00	13.40
2N2356A	GE	67	23.00	15.30
2N2360	SPR	83	2.40	1.80
2N2361	SPR	83	2.25	1.65
2N2362	SPR	83	2.10	1.55
2N2364	GE	65	5.40	3.60
2N2364A	GE	65	5.70	3.80
2N2368	GE	65	2.31	1.54
2N2368	MOT	50	2.38	1.54
2N2368	SYL	..	2.31	1.54
2N2368	TI	56	2.31	1.54
2N2369	GE	65	2.40	1.60
2N2369	MOT	50	2.40	1.60
2N2369	SYL	..	2.40	1.60
2N2369	TI	56	2.40	1.60
2N2369A	RCA	77	2.89	2.00
2N2369A	TI	56	3.45	2.30
2N2381	MOT	50	4.65	3.10
2N2382	MOT	50	5.15	3.45
2N2386	TI	56	6.75	4.50
2N2387	GE	65	11.55	7.70
2N2387	TI	56	11.55	7.70
2N2388	GE	65	14.40	9.65
2N2388	TI	56	14.40	9.65
2N2389	TI	57	14.40	9.65
2N2390	TI	57	15.80	10.55
2N2393	TI	..	8.85	5.90
2N2394	TI	..	18.00	12.00
2N2395	TI	57	10.10	6.75
2N2396	TI	57	11.55	7.70
2N2398	SPR	83	3.45	2.50
2N2399	SPR	83	3.35	2.45
2N2400	SPR	..	1.25	.95
2N2401	SPR	..	1.45	1.05
2N2402	SPR	..	2.25	1.65
2N2405	MOT	50	4.10	2.75
2N2405	RCA	77	2.06	1.43
2N2410	SYL	88	9.00	6.00
2N2410	TI	56	4.50	3.00
2N2411	TI	56	3.15	2.10
2N2412	TI	56	6.00	4.00
2N2413	TI	..	11.55	7.70
2N2415	MOT	52	6.00	4.08
2N2416	MOT	52	3.35	2.25
2N2416	TI	66	3.50	2.25
2N2417	GE	67	7.10	4.75
2N2417A	GE	67	7.65	5.10
2N2417B	GE	67	9.15	6.10
2N2418	GE	67	7.80	5.20
2N2418A	GE	67	8.35	5.55
2N2418B	GE	67	9.85	6.55
2N2419	GE	67	8.40	5.60
2N2419A	GE	67	8.90	5.95
2N2419B	GE	67	10.40	6.95
2N2420	GE	..	9.80	6.55
2N2420A	GE	67	10.40	6.95
2N2420B	GE	67	11.90	7.95
2N2421	GE	67	10.75	7.20
2N2421A	GE	67	11.20	7.50

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2N2421B	GE	67	12.75	8.50
2N2422	GE	67	10.90	7.30
2N2422A	GE	67	11.40	7.60
2N2422B	GE	67	12.90	8.60
2N2432	TI	58	12.00	8.00
2N2453	GE	67	30.00	20.00
2N2453	TI	58	30.00	20.00
2N2453A	GE	67	50.00	33.50
2N2455	SYL	84	3.75	2.50
2N2475	RCA	77	5.94	4.10
2N2476	RCA	77	2.89	2.00
2N2476	SPR	..	2.85	1.90
2N2477	RCA	77	3.30	2.28
2N2477	SPR	..	3.30	2.20
2N2480	GE	67	13.50	9.00
2N2480	MOT	..	12.75	8.50
2N2480	SPR	83	13.50	9.00
2N2480A	GE	67	16.50	11.00
2N2480A	MOT	..	16.50	11.00
2N2481	MOT	50	2.63	1.75
2N2481/JAN	MOT	..	3.35	2.25
2N2481	TI	56	3.90	2.60
2N2483	GE	65	3.67	2.44
2N2483	NSC	..	4.50	3.00
2N2483	TI	56	3.60	2.40
2N2484	GE	65	4.00	2.67
2N2484	TI	56	3.87	2.65
2N2490	MOT	48	1.88	1.39
2N2491	MOT	48	2.63	1.95
2N2492	MOT	48	3.38	2.50
2N2493	MOT	48	6.00	4.45
2N2497	TI	56	12.90	8.60
2N2498	TI	56	11.11	7.40
2N2499	TI	56	12.90	8.60
2N2500	TI	56	19.20	12.80
2N2501	MOT	50	4.70	3.15
2N2526	MOT	48	7.10	4.75
2N2527	MOT	48	9.30	6.20
2N2528	MOT	48	14.85	9.90
2N2537	MOT	50	4.95	3.30
2N2537	SPR	83	4.95	3.30
2N2537	TI	56	4.95	3.30
2N2538	MOT	50	5.85	3.90
2N2538	SPR	83	5.85	3.90
2N2538	TI	56	5.85	3.90
2N2539	MOT	50	4.95	3.30
2N2539	SPR	83	4.95	3.30
2N2539	TI	56	4.95	3.30
2N2540	MOT	50	5.85	3.90
2N2540	SPR	83	5.85	3.90
2N2540	TI	56	5.85	3.90
2N2551	HUG	88	29.75	22.31
2N2552	TI	61	3.00	2.00
2N2553	TI	61	3.90	2.60
2N2554	TI	61	5.85	3.90
2N2555	TI	61	9.15	6.10
2N2556	TI	61	3.05	2.05
2N2557	TI	61	3.95	2.65
2N2558	TI	61	5.90	3.95
2N2559	TI	61	9.20	6.15
2N2560	TI	61	4.45	2.95
2N2561	TI	61	5.80	3.85
2N2562	TI	61	8.70	5.80
2N2563	TI	61	11.40	7.60
2N2564	TI	61	4.30	2.85
2N2565	TI	61	5.65	3.65
2N2566	TI	61	8.55	5.70
2N2567	TI	61	11.25	7.50
2N2573	MOT	47	6.95	4.65
2N2574	MOT	47	7.55	5.05
2N2575	MOT	47	8.45	5.65
2N2576	MOT	47	13.50	9.00
2N2577	MOT	47	16.85	11.25
2N2578	MOT	47	21.20	14.25
2N2579	MOT	47	25.80	17.20
2N2586	TI	56	9.00	6.00
2N2604	TI	56	6.00	4.00
2N2605	TI	56	6.60	4.40
2N2611	GE	66	6.90	4.60
2N2613	RCA	78	.55	.38
2N2614	RCA	78	.50	.35
2N2619	GE	72	21.35	14.20
2N2631	RCA	79	4.79	3.31
2N2631	TI	59	4.79	3.31
2N2635	MOT	50	1.75	1.15
2N2635	TI	60	.94	.63
2N2639	GE	67	22.00	14.70
2N2639	TI	58	22.00	14.70
2N2640	GE	67	20.25	13.50
2N2640	TI	58	20.25	13.50
2N2641	GE	67	9.90	5.50
2N2641	TI	58	9.00	6.00
2N2642	GE	67	38.00	25.25
2N2642	SPR	83	25.50	17.00
2N2642	TI	58	26.25	17.50
2N2643	GE	67	30.00	20.00
2N2643	TI	58	25.00	16.70
2N2644	GE	67	18.37	8.25
2N2644	TI	58	15.60	10.40
2N2646	GE	67	1.05	.70
2N2646	MOT	..	1.08	.72
2N2647	MOT	..	3.00	2.00
2N2647	GE	67	3.00	2.00
2N2652	GE	67	18.80	12.50
2N2652A	GE	67	21.70	14.50
2N2653	TI	64	24.00	16.00
2N2659	TI	61	1.80	1.20
2N2660	TI	61	2.35	1.55
2N2661	TI	61	2.85	1.90
2N2662	TI	61	1.95	1.30
2N2663	TI	61	2.50	1.65

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N2664	TI	61	3.00	2.00
2N2665	TI	61	2.40	1.60
2N2666	TI	61	3.10	2.05
2N2667	TI	61	3.75	2.50
2N2668	TI	61	2.55	1.70
2N2669	TI	61	3.25	2.15
2N2670	TI	61	3.90	2.60
2N2692	TI	56	15.00	10.00
2N2693	TI	56	7.75	5.50
2N2694	TI	56	5.25	3.50
2N2695	TI	57	12.40	8.25
2N2696	TI	57	7.50	5.00
2N2708	RCA	79	3.71	2.57
2N2711	GE	65	.45	.30
2N2712	GE	65	.48	.32
2N2713	GE	66	.51	.34
2N2714	GE	66	.53	.35
2N2726	GE	66	2.10	1.40
2N2727	GE	66	4.27	2.85
2N2728	MOT	48	11.25	7.50
2N2781	TRW	87	50.00	37.50
2N2784	GE	65	11.25	7.50
2N2784	SYL	84	1.65	1.10
2N2784/51	SYL	..	8.50	7.20
2N2785	GE	67	13.35	8.90
2N2785	SPR	..	12.00	8.00
2N2787	SPR	..	5.80	4.30
2N2788	SPR	..	5.80	4.30
2N2789	SPR	..	6.65	4.35
2N2790	SPR	..	5.80	4.30
2N2791	SPR	..	5.80	4.30
2N2792	SPR	..	6.65	4.95
2N2800	MOT	51	6.75	4.50
2N2801	MOT	51	7.10	4.75
2N2802	SPR	83	39.00	26.00
2N2802	TI	58	39.50	26.30
2N2803	TI	58	24.00	16.00
2N2804	TI	58	21.45	14.30
2N2805	SPR	83	40.50	27.00
2N2805	TI	58	41.10	27.40
2N2806	TI	58	26.00	17.30
2N2807	TI	58	22.50	15.00
2N2832	MOT	48	9.00	6.00
2N2833	MOT	48	13.00	8.70
2N2834	MOT	48	22.50	15.00
2N2837	MOT	51	6.75	4.50
2N2838	MOT	51	7.10	4.75
2N2840	GE	67	6.35	4.25
2N2845	SPR	83	4.95	3.30
2N2846	SPR	83	4.95	3.30
2N2848	SPR	83	5.85	3.90
2N2857	RCA	79	6.60	4.56
2N2860	SYL	84	2.25	1.50
2N2861	TI	56	8.50	5.65
2N2862	TI	56	6.00	4.00
2N2863	TI	56	6.00	4.00
2N2864	TI	56	5.70	3.80
2N2865	TI	56	6.50	4.35
2N2868	GE	65	1.68	1.12
2N2869/2N301	RCA	78	1.52	1.05
2N2870/2N301A	RCA	78	3.15	2.18
2N2876	RCA	79	14.50	10.05
2N2876	TI	59	14.50	10.05
2N2883	TI	56	30.00	20.00
2N2884	TI	56	39.00	26.00
2N2887	TRW	87	50.00	37.50
2N2894	TI	56	1.95	1.30
2N2895	RCA	78	1.41	.97
2N2896	RCA	78	2.06	1.43
2N2897	RCA	78	1.16	.80
2N2900	RCA	78	1.90	1.31
2N2903A	SPR	83	24.00	16.00
2N2904	MOT	51	7.50	5.00
2N2904/JAN	MOT	..	8.25	5.50
2N2904	TI	57	7.50	5.00
2N2904A	MOT	51	10.50	7.00
2N2904A/JAN	MOT	..	11.25	7.50
2N2904A	TI	57	10.50	7.00
2N2905	MOT	51	9.00	6.00
2N2905/JAN	MOT	..	9.75	6.50
2N2905	TI	57	9.00	6.00
2N2905A	MOT	51	12.00	8.00
2N2905A/JAN	MOT	..	12.75	8.50
2N2905A	TI	57	12.00	8.00
2N2906	MOT	51	7.20	4.80
2N2906/JAN	MOT	..	7.95	5.30
2N2906	TI	57	7.20	4.80
2N2906A	MOT	51	10.05	6.70
2N2906A/JAN	MOT	..	10.80	7.20
2N2906A	TI	57	10.05	6.70
2N2907	MOT	51	8.70	5.80
2N2907/JAN	MOT	..	9.45	6.30
2N2907	TI	57	8.70	5.80
2N2907A	MOT	51	11.55	7.70
2N2907A/JAN	MOT	..	12.30	8.20
2N2907A	TI	57	11.55	7.70
2N2909	GE	65	2.28	1.52
2N2910	GE	67	12.75	9.35
2N2912	MOT	48	8.10	5.40
2N2913	GE	67	10.00	6.70
2N2913	MOT	..	9.75	6.50
2N2913	TI	58	9.90	6.60
2N2914	GE	67	15.00	10.00
2N2914	MOT	..	12.45	8.30
2N2914	TI	58	12.00	8.00
2N2915	GE	67	27.00	18.00
2N2915	MOT	..	27.75	18.50
2N2915	SPR	83	30.00	20.00
2N2915	TI	58	22.50	15.00
2N2916	GE	67	30.00	20.00
2N2916	MOT	..	30.75	20.50

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 3 2N2711 GE

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N2916	TI	58	25.50	17.00
2N2917	GE	67	21.00	14.00
2N2917	MOT	..	22.50	15.00
2N2917	TI	58	21.00	14.00
2N2918	GE	67	25.50	17.00
2N2918	MOT	..	25.50	17.00
2N2918	TI	58	24.75	16.50
2N2919	GE	67	29.25	19.50
2N2919	MOT	..	29.25	19.50
2N2919	TI	58	24.00	16.00
2N2920	GE	67	32.25	21.50
2N2920	MOT	..	32.25	21.50
2N2920	SPR	83	42.00	28.00
2N2920	TI	58	27.00	18.00
2N2923	GE	65	.48	.32
2N2924	GE	65	.53	.35
2N2925	GE	65	.60	.40
2N2929	MOT	52	6.75	4.50
2N2938	RCA	77	2.15	1.38
2N2944	SPR	83	5.75	3.85
2N2944	TI	58	5.75	3.85
2N2945	SPR	83	5.00	3.35
2N2945	TI	58	5.00	3.35
2N2946	SPR	83	5.75	3.85
2N2946	TI	58	5.75	3.85
2N2947	MOT	52	22.50	15.00
2N2948	MOT	52	20.25	13.50
2N2949	MOT	52	10.50	7.00
2N2950	MOT	52	11.25	7.50
2N2951	MOT	52	4.50	3.00
2N2952	MOT	52	4.95	3.30
2N2953	RCA	78	.50	.35
2N2955	MOT	50	2.48	1.65
2N2956	MOT	50	2.63	1.75
2N2957	MOT	50	3.37	2.25
2N2958	MOT	50	2.25	1.50
2N2958	SPR	83	1.80	1.20
2N2959	MOT	50	2.70	1.80
2N2959	SPR	83	1.45	.95
2N2972	MOT	..	11.60	7.75
2N2973	MOT	..	14.55	9.70
2N2974	MOT	..	27.75	18.50
2N2975	MOT	..	30.75	20.50
2N2975	SPR	..	37.50	25.00
2N2976	MOT	..	22.50	15.00
2N2977	MOT	..	25.50	17.00
2N2978	MOT	..	29.25	19.50
2N2979	MOT	..	32.25	21.50
2N2979	SPR	83	31.50	21.00
2N2987	TI	59	8.25	5.50
2N2988	TI	59	11.25	7.50
2N2989	TI	59	10.20	6.75
2N2990	TI	59	13.10	8.75
2N2991	TI	59	9.00	6.00
2N2992	TI	59	12.00	8.00
2N2993	TI	59	10.90	7.25
2N2994	TI	59	13.90	9.25
2N2995	GE	66	10.50	7.00
2N2996	TI	60	1.48	.99
2N2997	TI	60	3.38	2.25
2N2998	TI	60	52.50	35.00
2N2999	TI	60	75.00	50.00
2N3001	TI	64	7.45	4.95
2N3002	TI	64	8.95	5.95
2N3003	TI	64	11.20	7.45
2N3004	TI	64	14.20	9.45
2N3005	TI	64	5.75	3.83
2N3006	TI	64	6.15	4.10
2N3007	TI	64	8.60	5.75
2N3008	TI	64	9.50	6.33
2N3009	TI	56	1.98	1.32
2N3010	GE	65	1.90	1.27
2N3010	TI	56	1.90	1.27
2N3011	RCA	77	2.06	1.43
2N3011	TI	56	1.98	1.32
2N3012	TI	56	1.95	1.30

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3013	TI	56	7.00	4.69
2N4014	TI	56	3.60	2.40
2N3015	TI	56	3.50	2.00
2N3019	MOT	..	6.00	4.00
2N3020	MOT	..	5.70	3.80
2N3021	MOT	49	33.00	22.00
2N3022	MOT	49	45.00	30.00
2N3023	MOT	49	67.50	45.00
2N3024	MOT	49	45.00	30.00
2N3025	MOT	49	60.00	40.00
2N3026	MOT	49	75.00	50.00
2N3033	TI	58	45.00	30.00
2N3034	TI	58	14.50	9.67
2N3035	TI	58	12.50	8.30
2N3036	TI	57	5.50	3.70
2N3037	TI	57	18.00	12.00
2N3038	TI	57	19.50	13.00
2N3039	TI	..	22.50	15.00
2N3040	TI	..	24.00	16.00

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
2N3043	SPR	83	43.50	43.50	29.00
2N3043	TI	58	44.00	38.00	29.40
2N3044	TI	58	37.50	32.50	25.00
2N3045	TI	58	22.40	19.40	14.90
2N3046	SPR	83	40.50	40.50	27.00
2N3046	TI	58	40.50	35.10	27.00
2N3047	TI	58	29.90	25.90	19.90
2N3048	TI	58	15.75	13.70	10.50
2N3049	SPR	83	51.00	51.00	34.00
2N3049	TI	58	50.90	44.00	34.00
2N3050	TI	58	44.00	38.00	29.40
2N3051	TI	58	29.25	25.40	19.50
2N3052	TI	..	27.00	23.40	18.00

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3053/40053	RCA	77	.99	.69
2N3054	RCA	77	2.06	1.43
2N3055	RCA	78	2.89	2.00
2N3082	GE	67	27.50	18.00
2N3083	GE	67	30.50	20.30

Type No.	Mfr.	Page No.	EACH 1-9	EACH 10-99
2N3091	IR	80	94.50	73.50
2N3093	IR	80	136.00	96.50
2N3095	IR	80	198.00	127.00
2N3097	IR	80	268.00	159.00

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3114	MOT	52	6.00	4.00
2N3114	TI	57	6.00	4.00
2N3115	MOT	50	1.95	1.30
2N3116	MOT	50	2.40	1.60
2N3118	RCA	79	4.95	3.42
2N3119	RCA	77	5.36	3.71
2N3133	MOT	51	4.95	3.30
2N3134	MOT	51	5.85	3.90
2N3135	MOT	51	4.95	3.30
2N3136	MOT	51	5.85	3.90
2N3137	MOT	51	11.10	7.40
2N3146	TI	61	4.60	3.50
2N3147	TI	61	5.65	3.75
2N3217	SPR	83	2.55	1.70
2N3218	SPR	83	2.25	1.50
2N3219	SPR	83	2.55	1.70
2N3220	GE	66	20.00	13.35
2N3221	GE	66	22.00	14.65
2N3222	GE	66	18.00	12.00
2N3223	GE	66	19.85	13.25
2N3227	MOT	50	2.40	1.60
2N3228	RCA	76	1.62	1.12
2N3229	RCA	79	46.20	31.90
2N3230	RCA	77	66.00	45.60
2N3231	RCA	77	99.00	68.40
2N3232	MOT	49	3.75	2.50
2N3235	MOT	49	3.75	2.50
2N3241	RCA	78	.73	.51
2N3242	RCA	78	.83	.57
2N3244	MOT	51	15.75	10.50
2N3245	MOT	51	15.75	10.50
2N3246	NSC	..	14.25	9.50
2N3248	MOT	51	3.90	2.60
2N3249	MOT	51	4.65	3.10
2N3250	MOT	51	3.90	2.60
2N3250A	MOT	51	4.50	3.00
2N3251	MOT	51	4.65	3.10
2N3251A	MOT	51	5.25	3.50
2N3252	MOT	50	9.75	6.50
2N3252	TI	56	9.75	6.50
2N3253	MOT	50	9.75	6.50
2N3253	TI	56	9.75	6.50
2N3261	RCA	77	3.30	2.28
2N3262	RCA	77	9.90	6.85
2N3263	RCA	76	99.00	68.40
2N3264	RCA	76	66.00	45.60
2N3265	RCA	76	99.00	68.40
2N3266	RCA	76	66.00	45.60

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3267	TI	60	35.00	23.20
2N3279	MOT	52	4.50	3.00
2N3280	MOT	52	4.10	2.75
2N3281	MOT	52	2.60	1.75
2N3282	MOT	52	2.15	1.45
2N3283	MOT	52	1.50	1.00
2N3284	MOT	52	1.42	.95
2N3285	MOT	52	1.12	.75
2N3286	MOT	52	.97	.65
2N3287	MOT	52	7.50	5.00
2N3288	MOT	52	6.75	4.50
2N3289	MOT	52	6.00	4.00
2N3290	MOT	52	5.25	3.50
2N3291	MOT	52	2.25	1.50
2N3292	MOT	52	2.10	1.40
2N3293	MOT	52	1.80	1.20
2N3294	MOT	52	1.65	1.10
2N3295	MOT	52	6.00	4.00
2N3296	MOT	52	15.00	10.00
2N3297	MOT	52	52.50	35.00
2N3298	MOT	52	2.40	1.60
2N3303	TI	56	18.00	12.00
2N3304	TI	56	8.25	5.50
2N3307	MOT	52	10.50	7.00
2N3308	MOT	52	9.00	6.00
2N3309	MOT	52	5.25	3.50
2N3311	MOT	48	2.70	1.80
2N3312	MOT	48	3.30	2.20
2N3313	MOT	48	4.20	2.80
2N3314	MOT	48	3.15	2.10
2N3315	MOT	48	3.90	2.60
2N3316	MOT	48	5.25	3.50
2N3323	MOT	52	.90	.60
2N3324	MOT	52	.82	.55
2N3325	MOT	52	.75	.50
2N3328	TI	56	10.50	7.00
2N3329	TI	56	9.15	6.10
2N3330	TI	56	7.50	5.05
2N3331	TI	56	9.15	6.10
2N3332	TI	56	13.20	10.50

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
2N3333	TI	56	271.50	235.00	181.00
2N3334	TI	56	213.00	184.50	142.00
2N3335	TI	56	193.00	167.80	129.00
2N3336	TI	56	98.00	85.00	65.40

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3343	SPR	..	4.35	2.90
2N3344	SPR	..	5.30	3.55
2N3345	SPR	..	5.60	3.75
2N3346	SPR	..	7.10	4.75
2N3347	SPR	83	34.50	23.00
2N3347	TI	58	34.50	23.00
2N3348	TI	58	20.70	13.80
2N3349	TI	58	16.50	11.00
2N3350	SPR	83	45.00	30.00
2N3350	TI	58	45.40	30.80
2N3351	TI	58	33.90	22.60
2N3352	TI	58	27.75	18.50
2N3371	TI	60	5.43	3.62
2N3375	MOT	52	23.90	15.95
2N3375	RCA	79	23.10	15.95
2N3391	GE	65	.72	.48
2N3391A	GE	65	.53	.35
2N3392	GE	65	.45	.30
2N3393	GE	65	.43	.29
2N3394	GE	65	.45	.30
2N3402	GE	66	.75	.50
2N3403	GE	66	.80	.53
2N3404	GE	66	.80	.53
2N3405	GE	66	.86	.58
2N3409	MOT	..	13.50	9.00
2N3410	MOT	..	15.00	10.00
2N3410	SPR	83	15.00	10.00
2N3411	MOT	..	18.00	12.00
2N3411	SPR	..	18.00	12.00
2N3414	GE	66	.59	.39
2N3415	GE	66	.65	.43
2N3416	GE	66	.65	.43
2N3417	GE	66	.69	.46
2N3418	TI	59	12.45	8.30
2N3419	TI	59	14.10	9.40
2N3420	TI	59	13.35	8.90
2N3421	TI	59	16.95	11.30
2N3427	MOT	49	1.34	.89
2N3428	MOT	49	1.50	1.00
2N3435	RCA	76	7.43	5.13
2N3439	RCA	76	4.13	2.85
2N3440	RCA	76	2.06	1.43
2N3441	RCA	77	2.89	2.00
2N3442	RCA	76	4.95	3.42
2N3444	MOT	50	12.00	8.00
2N3444	TI	56	12.00	8.00
2N3445	MOT	49	12.00	8.00
2N3446	MOT	49	18.00	12.00
2N3447	MOT	49	19.50	13.00
2N3448	MOT	49	29.25	19.50
2N3467	MOT	51	9.75	6.50
2N3468	MOT	51	11.25	7.50
2N3478	RCA	79	1.90	1.31
2N3485	MOT	51	8.70	5.80

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
2N3485	TI	57	8.70	5.80
2N3485A	MOT	51	12.00	8.00
2N3485A	TI	57	12.00	8.00
2N3486	MOT	51	10.20	6.80
2N3486	TI	57	10.20	6.80
2N3486A	MOT	51	13.50	9.00
2N3486A	TI	57	13.50	9.00
2N3490	MOT	49	48.00	32.00
2N3491	MOT	49	63.00	42.00
2N3492	MOT	49	75.00	50.00
2N3493	MOT	50	14.25	9.50
2N3494	MOT	51	9.75	6.50
2N3495	MOT	51	12.75	8.50
2N3496	MOT	51	9.75	6.50
2N3497	MOT	51	12.75	8.50
2N3498	MOT	50	6.60	4.40
2N3499	MOT	50	7.40	4.95
2N3500	MOT	50	11.25	7.50
2N3501	MOT	50	12.60	8.40
2N3502	TI	57	8.70	5.80
2N3503	TI	57	11.55	7.70
2N3504	TI	57	8.70	5.80
2N3505	TI	57	11.55	7.70
2N3506	MOT	50	11.55	7.70
2N3507	MOT	50	13.20	8.80
2N3508	MOT	50	5.40	3.60
2N3509	MOT	50	5.40	3.60
2N3510	MOT	50	1.42	.95
2N3511	MOT	50	1.80	1.20
2N3512	RCA	77	3.71	2.57
2N3513	GE	67	19.65	13.10
2N3515	GE	67	33.85	22.55
2N3516	GE	67	24.15	16.10
2N3518	GE	67	38.35	25.55
2N3520	GE	67	31.85	21.20
2N3521	GE	67	32.60	21.70
2N3522	GE	67	35.10	23.40
2N3522	SPR	..	34.50	23.00
2N3524	GE	67	37.50	25.00
2N3525	RCA	76	2.31	1.60
2N3528	RCA	76	1.63	1.12
2N3529	RCA	76	2.31	1.60
2N3544	MOT	52	7.50	5.00
2N3546	MOT	51	5.25	3.50
2N3547	NSC	..	5.62	3.75
2N3548	NSC	..	6.15	4.10
2N3549	NSC	..	6.75	4.50
2N3551	TI	59	100.00	67.50
2N3552	TI	59	112.50	75.00
2N3553	MOT	52	5.15	3.42
2N3553	RCA	79	4.95	3.42
2N3554	TI	56	8.10	5.40
2N3555	TI	64	7.45	4.95
2N3556	TI	64	8.95	5.95
2N3557	TI	64	11.20	7.45
2N3558	TI	64	14.20	9.45
2N3559	TI	64	5.75	3.83
2N3560	TI	64	6.15	4.10
2N3561	TI	64	8.60	5.75
2N3562	TI	64	9.50	6.33
2N3570	TI	56	150.00	100.00
2N3571	TI	56	15.00	10.00
2N3572	TI	56	9.75	6.50
2N3573	TI	56	21.75	14.50
2N3574	TI	56	17.25	11.50
2N3575	TI	56	18.60	12.50
2N3576	TI	56	9.40	6.25
2N3583	RCA	77	3.30	2.28
2N3584	RCA	77	6.60	4.56
2N3585	RCA	77	13.20	9.10
2N3600	RCA	79	4.13	2.85
2N36C5	GE	66	.60	.40
2N3606	GE	66	.54	.36
2N3607	GE	66	.51	.34
2N3611	MOT	48	1.15	.78
2N3612	MOT	48	1.30	.88
2N3613	MOT	48	1.25	.85
2N3614	MOT	48	1.40	.94
2N3615	MOT	48	1.65	1.10
2N3616	MOT	48	2.10	1.39
2N3617	MOT	48	1.88	1.25
2N3618	MOT	48	2.37	1.58
2N3632	MOT	52	34.20	22.80
2N3632	RCA	79	33.30	22.80
2N3634	MOT	51	13.20	8.80
2N3635	MOT	51	14.40	9.60
2N3636	MOT	51	19.40	12.95
2N3637	MOT	51	21.30	14.20
2N3647	MOT	50	2.25	1.50
2N3648	MOT	50	2.70	1.80
2N3654	GE	73	10.35	6.90
2N3655	GE	73	11.25	7.50
2N3656	GE	73	16.10	10.70
2N3657	GE	73	24.20	16.10
2N3658	GE	73	29.25	19.50
2N3662	GE	66	.75	.50
2N3663	GE	66	.80	.53
2N3664	MOT	..	8.60	5.75
2N3668	RCA	76	2.89	2.00
2N3669	RCA	76	3.27	2.26
2N3670	RCA	76	4.92	3.40
2N3680	TI	58	49.00	32.60
2N3702	TI	55	.45	.30
2N3703	TI	55	.49	.33
2N3704	TI	55	.61	.41

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N3705	TI	55	.57	.38
2N3706	TI	55	.52	.35
2N3707	TI	55	.60	.40
2N3708	TI	55	.48	.32
2N3709	TI	55	.45	.30
2N3710	TI	55	.49	.33
2N3711	TI	55	.54	.36
2N3712	TI	57	3.00	2.00
2N3712	MOT	50	2.25	1.50
2N3713	MOT	49	4.40	2.98
2N3714	MOT	49	4.70	3.15
2N3715	MOT	49	4.85	3.25
2N3716	MOT	49	6.75	4.50
2N3719	MOT	49	11.90	7.95
2N3720	MOT	49	13.40	8.95
2N3721	GE	65	.43	.29
2N3722	GE	65	10.50	7.00
2N3723	GE	65	12.97	8.65
2N3733	RCA	79	49.50	34.20
2N3734	MOT	50	6.00	4.00
2N3735	MOT	50	6.00	4.00
2N3736	MOT	50	6.60	4.40
2N3737	MOT	50	6.60	4.40
2N3738	MOT	49	2.25	1.50
2N3739	MOT	49	2.45	1.65
2N3740	MOT	49	2.90	1.95
2N3741	MOT	49	3.15	2.10
2N3742	MOT	50	12.60	8.40
2N3743	MOT	51	29.25	19.50
2N3762	MOT	51	7.50	5.00
2N3763	MOT	51	7.50	5.00
2N3764	MOT	51	8.25	5.50
2N3765	MOT	51	8.25	5.50
2N3766	MOT	49	2.10	1.40
2N3767	MOT	49	2.10	1.40
2N3771	RCA	76	5.78	3.99
2N3772	RCA	76	7.84	5.42
2N3773	RCA	76	4.70	3.25
2N3783	MOT	52	30.00	20.00
2N3784	MOT	52	15.00	10.00
2N3785	MOT	52	6.75	4.50
2N3789	MOT	49	8.90	5.95
2N3790	MOT	49	10.65	7.10
2N3791	MOT	49	12.35	8.25
2N3792	MOT	49	14.85	9.90
2N3793	NAT		.54	.36
2N3794	NAT	..	.63	.42
2N3796	MOT	.	13.50	9.00
2N3797	MOT	.	16.50	11.00
2N3798	MOT	51	6.15	4.10
2N3799	MOT	51	6.75	4.50
2N3800	MOT	..	14.25	9.50
2N3801	MOT	..	15.75	10.50
2N3802	MOT	..	21.00	14.00
2N3803	MOT	..	22.50	15.00
2N3804	MOT	..	26.25	17.50
2N3805	MOT	..	27.75	18.50
2N3818	MOT	..	45.00	30.00
2N3819	TI	55	3.75	2.50
2N3820	TI	55	3.75	2.50
2N3821	MOT	52	22.40	14.95
2N3821	TI	56	22.50	14.95
2N3822	MOT	52	21.65	14.45
2N3822	TI	56	21.70	14.45
2N3823	TI	56	12.90	8.60
2N3824	MOT	52	14.15	9.45
2N3824	TI	57	14.15	9.40
2N3825	TI	55	.58	.39
2N3826	TI	55	.54	.36
2N3827	TI	55	.58	.39
2N3828	TI	55	.90	.60
2N3829	TI	56	6.00	4.00
2N3830	TI	56	13.50	9.00
2N3831	TI	56	9.00	6.00
2N3832	TI	56	7.50	5.00
2N3836	TI	58	66.00	44.00
2N3837	TI	58	99.00	66.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
2N3838	TI	58	30.15	26.13	20.10

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N3840	SPR	..	9.60	6.40
2N3841	SPR	..	8.70	5.80
2N3842	SPR	83	15.30	10.20
2N3843	GE	65	.54	.36
2N3843A	GE	66	.59	.39
2N3844	GE	65	.57	.38
2N3844A	GE	66	.62	.42
2N3845	GE	65	.62	.42
2N3845A	GE	66	.67	.45
2N3846	TI	59	90.00	60.00
2N3848	TI	59	125.00	85.00
2N3854	GE	65	.51	.34
2N3854A	GE	65	.54	.36
2N3855	GE	65	.53	.35
2N3855A	GE	65	.57	.38
2N3856	GE	65	.57	.38
2N3856A	GE	65	.62	.42
2N3858	GE	66	.48	.32
2N3858A	GE	66	.51	.34
2N3859	GE	60	.49	.33
2N3859A	GE	66	.62	.41
2N3860	GE	66	.54	.36
2N3866	MOT	66	4.95	3.42
2N3866	RCA	79	4.95	3.42
2N3870	RCA	76	4.70	3.25

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N3871	RCA	76	5.12	3.53
2N3872	RCA	76	7.18	4.96
2N3873	RCA	76	10.50	7.25
2N3877	GE	66	.56	.38
2N3877A	GE	66	.63	.42
2N3878	RCA	77	4.54	3.14
2N3879	RCA	77	5.36	3.71
2N3883	MOT	50	1.35	.90
2N3896	RCA	76	4.95	3.42
2N3897	RCA	76	5.36	3.71
2N3898	RCA	76	7.43	5.13
2N3899	RCA	76	10.75	7.40
2N3900	GE	65	.67	.45
2N3900A	GE	65	.75	.50
2N3903	MOT	50	.75	.50
2N3904	MOT	50	.82	.55
2N3905	MOT	51	.75	.50
2N3906	MOT	51	.82	.55
2N3909	TI	56	6.30	4.20
2N3924	MOT	52	5.15	3.42
2N3925	MOT	52	14.70	9.80
2N3926	MOT	52	23.90	15.95
2N3927	MOT	52	34.20	22.80
2N3932	RCA	79	2.06	1.43
2N3933	RCA	79	2.31	1.60
2N3936	TI	64	7.35	4.90
2N3937	TI	64	14.60	9.75
2N3938	TI	64	18.75	12.50
2N3939	TI	64	26.25	17.50
2N3940	TI	64	30.00	20.00
2N3946	MOT	50	2.40	1.60
2N3947	MOT	50	2.75	1.85
2N3959	MOT	50	10.50	7.00
2N3960	MOT	50	13.10	8.75
2N3961	MOT	52	14.70	9.80
2N3973	GE	66	.89	.59
2N3974	GE	66	.94	.62
2N3975	GE	66	.79	.53
2N3976	GE	66	.82	.54
2N3980	TI	58	7.35	4.90
2N3995	TI	60	8.85	5.95
2N4000	TI	59	10.20	6.75
2N4001	TI	59	13.10	8.75
2N4002	TI	59	112.50	75.00
2N4003	TI	59	148.00	99.00
2N4004	TI	59	112.50	75.00
2N4005	TI	59	148.00	99.00
2N4012	RCA	..	49.50	34.20
2N4036	RCA	..	1.62	1.12
2N4037	RCA	..	1.31	.91
2N4048	MOT	48	6.35	4.25
2N4049	MOT	48	10.80	7.20
2N4050	MOT	48	14.25	9.50
2N4051	MOT	48	7.40	4.95
2N4052	MOT	48	12.00	8.00
2N4053	MOT	48	16.10	10.75
2N4058	TI	55	.99	.67
2N4059	TI	55	.76	.51
2N4060	TI	55	.81	.54
2N4061	TI	55	.82	.55
2N4062	TI	55	.90	.60
2N4068	RCA	..	1.57	1.09
2N4069	RCA	..	1.64	1.13
2N4074	RCA	..	.73	.51
2N4086	GE	65	.45	.30
2N4087	GE	65	.59	.39
2N4087A	GE	65	.65	.43
2N4101	RCA	..	3.05	2.11
2N4102	RCA	..	3.05	2.11
2N4103	RCA	..	9.90	6.85
2N4123	MOT	50	.52	.35
2N4124	MOT	50	.60	.40
2N4125	MOT	51	.52	.35
2N4126	MOT	51	.60	.40
2N4138	TI	58	12.00	8.00
2N4151	MOT	47	1.45	1.05
2N4152	MOT	47	1.60	1.10
2N4153	MOT	47	1.75	1.25
2N4154	MOT	47	1.95	1.35
2N4155	MOT	47	2.40	1.60
2N4156	MOT	47	2.80	1.85
2N4157	MOT	47	5.00	3.35
2N4158	MOT	47	6.75	4.50
2N4159	MOT	47	1.49	1.09
2N4160	MOT	47	1.64	1.14
2N4161	MOT	47	1.79	1.29
2N4162	MOT	47	1.99	1.39
2N4163	MOT	47	2.44	1.64
2N4164	MOT	47	2.84	1.89
2N4165	MOT	47	5.04	3.39
2N4166	MOT	47	6.79	4.54
2N4167	MOT	47	1.60	1.20
2N4168	MOT	47	1.75	1.25
2N4169	MOT	47	1.90	1.40
2N4170	MOT	47	2.10	1.50
2N4171	MOT	47	2.55	1.75
2N4172	MOT	47	2.95	2.00
2N4173	MOT	47	5.15	3.50
2N4174	MOT	47	6.90	4.65
2N4175	MOT	47	1.64	1.24
2N4176	MOT	47	1.79	1.29
2N4177	MOT	47	1.94	1.44
2N4178	MOT	47	2.14	1.54
2N4179	MOT	47	2.59	1.79
2N4180	MOT	47	2.99	2.04
2N4181	MOT	47	5.19	3.54
2N4182	MOT	47	6.94	4.69
2N4183	MOT	47	1.59	1.19
2N4184	MOT	47	1.74	1.24
2N4185	MOT	47	1.87	1.39
2N4186	MOT	47	2.09	1.49

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 26 2N4187 MOT

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
2N4187	MOT	47	2.54	1.74
2N4188	MOT	47	2.94	1.99
2N4189	MOT	47	5.14	3.49
2N4190	MOT	47	6.89	4.64
2N4191	MOT	47	1.59	1.19
2N4192	MOT	47	1.74	1.24
2N4193	MOT	47	1.89	1.39
2N4194	MOT	47	2.09	1.49
2N4195	MOT	47	2.54	1.74
2N4196	MOT	47	2.94	1.99
2N4197	MOT	47	5.14	3.49
2N4198	MOT	47	6.89	4.64
2N4199	MOT	47	21.25	15.00
2N4200	MOT	47	28.75	20.00
2N4201	MOT	47	32.50	22.50
2N4202	MOT	47	47.50	32.50
2N4203	MOT	47	77.50	52.50
2N4204	MOT	47	107.50	72.50
2N4220	MOT	52	2.85	1.90
2N4221	MOT	52	2.85	1.90
2N4222	MOT	52	2.85	1.90
2N4223	MOT	52	5.85	3.90
2N4224	MOT	52	3.65	2.45
2N4234	MOT	49	3.00	2.00
2N4235	MOT	49	3.60	2.39
2N4236	MOT	49	4.00	2.36
2N4237	MOT	49	2.25	1.50
2N4238	MOT	49	2.75	1.85
2N4239	MOT	49	3.05	2.05
2N4252	TI	56	1.85	1.23
2N4253	TI	..	1.60	1.00
2N4254	TI	55	.90	.60
2N4255	TI	55	.85	.57
2N4259	RCA	..	2.64	1.82
2N4260	MOT	51	12.35	8.25
2N4261	MOT	51	14.60	9.75
2N4264	MOT	50	.60	.40
2N4265	MOT	50	.67	.45
2N4276	MOT	48	4.65	3.10
2N4277	MOT	48	5.60	3.75
2N4278	MOT	48	6.15	4.10
2N4279	MOT	48	7.10	4.75
2N4280	MOT	48	10.55	7.05
2N4281	MOT	48	11.75	7.85
2N4282	MOT	48	14.00	9.35
2N4283	MOT	48	15.90	10.60
2N4296	RCA	.	2.48	1.71
2N4297	RCA	..	2.89	2.00
2N4298	RCA	..	3.71	2.57
2N4299	RCA	..	4.13	2.85
2N4351	MOT	..	6.75	4.50
2N4352	MOT	..	6.75	4.50
3N34	TI	56	5.00	4.15
3N35	TI	56	22.50	15.00
3N58	GE	66	3.40	2.25
3N59	GE	66	3.75	2.50
3N60	GE	66	4.15	2.75
3N74	TI	57	15.60	10.40
3N75	TI	57	13.50	9.03
3N76	TI	57	9.78	6.52
3N77	TI	57	9.00	6.00
3N78	TI	57	6.75	4.50
3N79	TI	57	4.50	3.00
3N81	GE	67	3.40	2.25
3N82	GE	67	4.95	3.30
3N83	GE	67	2.13	1.42
3N84	GE	67	1.98	1.32
3N85	GE	67	3.30	2.20
3N86	GE	67	6.00	4.00
3N90	SPR	83	19.50	13.00
3N91	SPR	83	16.50	11.00
3N92	SPR	83	13.50	9.00
3N93	SPR	83	34.50	23.00
3N94	SPR	83	28.50	19.00
3N95	SPR	83	22.50	15.00
3N108	SPR	83	40.50	27.00
3N108	TI	57	41.00	27.25
3N109	SPR	83	28.50	19.00
3N109	TI	57	29.00	19.25
3N110	SPR	83	24.00	16.00

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	100-999
3N110	TI	57	24.00	16.25
3N111	SPR	83	15.00	10.00
3N111	TI	57	15.00	10.00
3N112	SPR	83	63.00	42.00
3N113	SPR	83	92.00	68.00
3N114	SPR	83	13.50	9.00
3N115	SPR	83	10.50	7.00
3N116	SPR	83	7.50	5.00
3N117	SPR	83	15.00	10.00
3N118	SPR	83	12.00	8.00
3N119	SPR	83	9.00	6.00
3N124	MOT	52	4.35	2.90
3N125	MOT	52	4.35	2.90
3N126	MOT	52	4.35	2.90

Type No.	Mfr.	Page No.	EACH 1-99	*100 Ass't	100-999
¼M2.4AZ5	MOT	..	4.00	3.65	3.20
¼M2.7AZ5	MOT	..	4.00	3.65	3.20
¼M3.0AZ5	MOT	..	4.00	3.65	3.20
¼M3.3AZ5	MOT	..	4.00	3.65	3.20
¼M3.6AZ5	MOT	..	4.00	3.65	3.20
¼M3.9AZ5	MOT	..	4.00	3.65	3.20
¼M4.7AZ5	MOT	..	4.00	3.65	3.20
¼M5.1AZ5	MOT	.	4.00	3.65	3.20
¼M5.6AZ5	MOT	..	4.00	3.65	3.20
¼M6.2AZ5	MOT	..	4.00	3.65	3.20
¼M6.8AZ5	MOT	..	4.00	3.65	3.20
¼M6.8Z5	MOT	..	4.00	3.65	3.20
¼M7.5Z5	MOT	..	4.00	3.65	3.20
¼M8.2Z5	MOT	..	4.00	3.65	3.20
¼M9.1Z5	MOT	..	4.00	3.65	3.20
¼M10Z5	MOT	..	4.00	3.65	3.20
¼M12Z5	MOT	..	4.00	3.65	3.20
¼M15Z5	MOT	..	4.00	3.65	3.20
¼M20Z5	MOT	..	4.00	3.65	3.20
¼M22Z5	MOT	..	4.00	3.65	3.20
¼M100Z5	MOT	..	4.35	4.00	3.50

*10 per type, 100 total per order

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
1MA4	IR	..	.72	.72	.63
1Z5.1T5	IR	.	3.65	3.50	2.90
1Z24T5	IR	.	3.60	3.20	2.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
1ZF3.9T10	IR	82	1.34	1.02
1ZF4.3T10	IR	82	1.34	1.02
1ZF4.7T10	IR	82	1.34	1.02
1ZF5.1T10	IR	82	1.34	1.02
1ZF5.6T10	IR	82	1.34	1.02
1ZF6.2T10	IR	82	1.34	1.02
1ZF6.8T10	IR	82	1.12	.85
1ZF7.5T10	IR	82	1.12	.85
1ZF8.2T10	IR	82	1.12	.85
1ZF9.1T10	IR	82	1.12	.85
1ZF10T10	IR	82	1.12	.85
1ZF11T10	IR	82	1.12	.85
1ZF12T10	IR	82	1.12	.85
1ZF13T10	IR	82	1.12	.85
1ZF15T10	IR	82	1.12	.85
1ZF16T10	IR	82	1.12	.85
1ZF18T10	IR	82	1.12	.85
1ZF20T10	IR	82	1.12	.85
1ZF22T10	IR	82	1.12	.85
1ZF24T10	IR	82	1.12	.85
1ZF27T10	IR	82	1.12	.85
1ZF30T10	IR	82	1.12	.85
2AFB05AP	IR	81	4.05	3.25
2AFB1AP	IR	81	4.30	3.45
2AFB2AP	IR	81	5.15	4.15
2AFB3AP	IR	81	5.55	4.50
2AFB4AP	IR	81	6.50	5.30

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
2E4	IR	..	.55	.50	.42
2F4	ST	.	.50	.43	.40

Type No.	Mfr.	Page No.	EACH 1-99	100-999
3F10	IR	81	1.20	.79
3F20	IR	81	2.20	1.45
3F30	IR	81	2.75	1.82
3F40	IR	81	3.85	2.58
3F50	IR	81	4.95	3.32
3F60	IR	81	5.85	3.92
3F80	IR	81	9.05	5.97
3F100	IR	81	11.75	7.76

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
3TCRA	ST	86	2.80	2.39	2.22
3TCRC	ST	86	3.00	2.55	2.39

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
3TCRE	ST	86	3.25	2.80	2.60
3TCRF	ST	86	4.05	3.50	3.25
3TCRG	ST	86	4.20	3.58	3.33

Type No.	Mfr.	Page No.	EACH 1-99	100 Asst.	100-999
3Z6.2T5	IR	..	4.60	4.00	3.70

Type No.	Mfr.	Page No.	EACH 1-99	100-999
4C28	GE	..	1.25	.83
4C29	GE	..	1.25	.83
4C30	GE	..	1.28	.85
4C31	GE	..	1.29	.86
4C43	GE	..	1.28	.85
4D20	GE	.	2.05	1.37
4D21	GE	..	1.28	.85
4D24	GE	..	.75	.50
4D25	GE	..	.75	.50
4D26	GE	..	1.83	1.22

4JA1011 SERIES

Type No.	Mfr.	Page No.	EACH 1-9	10-99
-AB1AD1	GE	69	7.00	5.80
-AB1AD2	GE	69	14.00	11.60
-AB1AD3	GE	69	21.00	17.40
-CB1AD3	GE	69	22.80	18.60
-BB1AD1	GE	69	7.20	6.00
-BB1AD2	GE	69	7.20	6.00
-BB1AD3	GE	69	21.60	18.00
-CB1AD1	GE	69	7.60	6.20
-CB1AD2	GE	69	15.20	12.40
-DB1AD1	GE	69	8.40	6.80
-DB1AD2	GE	69	16.80	13.60
-EB1AD1	GE	69	8.40	6.80
-MB1AD1	GE	69	11.20	9.20

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
4N301-S1000	GE	69	6.67	5.33	4.44
4N302-S1000	GE	69	6.67	5.33	4.44
4N303-S1000	GE	69	6.67	5.33	4.44
4JL1V	GE	73	3.15	3.15	2.10
4JN101-R350	GE	69	26.34	21.06	17.55
4JN102-R350	GE	69	26.34	21.06	17.55
4JN301-R1000	GE	69	31.59	25.26	21.05
4JN302-R1000	GE	69	31.59	25.26	21.05
4JN303-R1000	GE	69	31.59	25.26	21.05
4JN304-R1000	GE	69	52.68	42.13	35.11
4JN305-R1000	GE	69	52.68	42.13	35.11
4JN306-R1000	GE	69	52.68	42.13	35.11

Type No.	Mfr.	Page No.	EACH 1-99	100-499	500-999
.4M3.3ZS5	MOT	..	1.40	.95	.87
.4M3.3ZS5	MOT	..	1000-Up		.78
.4M3.6ZS5	MOT	..	1.40	.95	.87
.4M3.6ZS5	MOT	.	1000-Up		.78
.4M4.3ZS5	MOT	.	1.40	.95	.87
.4M4.3ZS5	MOT	..	1000-Up		.78
.4M4 7ZS5	MOT	..	1.40	.95	87.
.4M4.7ZS5	MOT	..	1000-Up		.78
.4M4.1ZS5	MOT	..	1.40	.95	.87
.4M4.1ZS5	MOT	..	1000-Up		.78
.4M5.6ZS5	MOT	..	1.40	.95	.87
.4M5.6ZS5	MOT	..	1000-Up		.78
.4M6.2ZS5	MOT	..	1.40	.95	.87
.4M6.2ZS5	MOT	..	1000-Up		.78
.4M6.8ZS5	MOT	..	1.40	.95	.87
.4M6.8ZS5	MOT	..	1000-Up		.78
.4M7.5ZS5	MOT	..	1.40	.95	.87
.4M7.5ZS5	MOT	..	1000-Up		.78
.4M8.2ZS5	MOT	..	1.40	.95	.87
.4M8.2ZS5	MOT	..	1000-Up		.78
.4M9.1ZS5	MOT	..	1.40	.95	.87
.4M9.1ZS5	MOT	..	1000-Up		.78
.4M10ZS5	MOT	..	1.40	.95	.87
.4M10ZS5	MOT	..	1000-Up		.78
.4M12ZS5	MOT	..	1.40	.95	.87
.4M12ZS5	MOT	..	1000-Up		.78
.4M13ZS5	MOT	..	1.40	.95	.87
.4M13ZS5	MOT	..	1000-Up		.78
.4M15ZS5	MOT	..	1.40	.95	.87
.4M15ZS5	MOT	..	1000-Up		.78
.4M16ZS5	MOT	..	1.40	.95	.87
.4M16ZS5	MOT	..	1000-Up		.78
.4M18ZS5	MOT	..	1.40	.95	.87
.4M18ZS5	MOT	..	1000-Up		.78
.4M20ZS5	MOT	..	1.40	.95	.87
.4M20ZS5	MOT	..	1000-Up		.78
.4M22ZS5	MOT	..	1.40	.95	.87
.4M22ZS5	MOT	..	1000-Up		.78
.4M24ZS5	MOT	..	1.40	.95	.87
.4M24ZS5	MOT	..	1000-Up		.78
.4M27ZS5	MOT	..	1.40	.95	.87
.4M27ZS5	MOT	..	1000-Up		.78
.4M30ZS5	MOT	..	1.40	.95	.87
.4M30ZS5	MOT	..	1000-Up		.78
.4M33ZS5	MOT	..	1.40	.95	.87
.4M33ZS5	MOT	.	1000-Up		.78
.4M36ZS5	MOT	..	1.60	1.05	1.00
.4M36ZS5	MOT	..	1000-Up		.90
.4M39ZS5	MOT	..	1.60	1.05	1.00
.4M39ZS5	MOT	..	1000-Up		.90
.4M43ZS5	MOT	..	1.60	1.05	1.00
.4M43ZS5	MOT	..	1000-Up		.90
.4M47ZS5	MOT	..	1.60	1.05	1.00
.4M47ZS5	MOT	..	1000-Up		.90
.4M51ZS5	MOT	..	1.60	1.05	1.00
.4M51ZS5	MOT	..	1000-Up		.90
.4M56ZS5	MOT	..	1.60	1.05	1.00
.4M56ZS5	MOT	..	1000-Up		.90
.4M62ZS5	MOT	..	1.60	1.05	1.00
.4M62ZS5	MOT	..	1000-Up		.90
.4M68ZS5	MOT	..	1.60	1.05	1.00
.4M68ZS5	MOT	..	1000-Up		.90
.4M75ZS5	MOT	..	1.60	1.05	1.00
.4M75ZS5	MOT	..	1000-Up		.90
.4M82ZS5	MOT	..	1.60	1.05	1.00
.4M82ZS5	MOT	..	1000-Up		.90
.4M91ZS5	MOT	..	1.60	1.05	1.00
.4M91ZS5	MOT	..	1000-Up		.90
.4M100ZS5	MOT	..	1.60	1.05	1.00
.4M100ZS5	MOT	..	1000-Up		.90
.4M3.3ZS10	MOT	..	1.15	.75	.71
.4M3.3ZS10	MOT	..	1000-Up		.64
.4M3.6ZS10	MOT	..	1.15	.75	.71
.4M3.6ZS10	MOT	..	1000-Up		.64
.4M4.3ZS10	MOT	..	1.15	.75	.71
.4M4.3ZS10	MOT	..	1000-Up		.64
.4M4.7ZS10	MOT	..	1.15	.75	.71
.4M4.7ZS10	MOT	..	1000-Up		.64
.4M5.1ZS10	MOT	..	1.15	.75	.71
.4M5.1ZS10	MOT	..	1000-Up		.64
.4M5.6ZS10	MOT	..	1.15	.75	.71
.4M5.6ZS10	MOT	..	1000-Up		.64
.4M6.2ZS10	MOT	..	1.15	.75	.71
.4M6.2ZS10	MOT	..	1000-Up		.64
.4M6.8ZS10	MOT	..	1.15	.75	.71
.4M6.8ZS10	MOT	..	1000-Up		.64
.4M7.5ZS10	MOT	..	1.15	.75	.71
.4M7.5ZS10	MOT	..	1000-Up		.64
.4M8.2ZS10	MOT	.	1.15	.75	.71
.4M8.2ZS10	MOT	..	1000-Up		.64
.4M9.1ZS10	MOT	..	1.15	.75	.71
.4M9.1ZS10	MOT	..	1000-Up		.64
.4M10ZS10	MOT	..	1.15	.75	.71
.4M10ZS10	MOT	..	1000-Up		.64
.4M12ZS10	MOT	..	1.15	.75	.71
.4M12ZS10	MOT	..	1000-Up		.64
.4M13ZS10	MOT	..	1.15	.75	.71
.4M13ZS10	MOT	..	1000-Up		.64
.4M15ZS10	MOT	..	1.15	.75	.71
.4M15ZS10	MOT	..	1000-Up		.64
.4M16ZS10	MOT	..	1.15	.75	.71
.4M16ZS10	MOT	..	1000-Up		.64
.4M18ZS10	MOT	..	1.15	.75	.71
.4M18ZS10	MOT	..	1000-Up		.64
.4M20ZS10	MOT	..	1.15	.75	.71
.4M20ZS10	MOT	..	1000-Up		.64
.4M22ZS10	MOT	..	1.15	.75	.71
.4M22ZS10	MOT	.	1000-Up		.64
.4M24ZS10	MOT	.	1.15	.75	.71
.4M24ZS10	MOT	..	1000-Up		.64
.4M27ZS10	MOT	..	1.15	.75	.71
.4M27ZS10	MOT	..	1000-Up		.64
.4M30ZS10	MOT	.	1.15	.75	.71
.4M30ZS10	MOT	..	1000-Up		.64
.4M33ZS10	MOT	..	1.15	.75	.71
.4M33ZS10	MOT	.	1000-Up		.64
.4M36ZS10	MOT	.	1.35	.90	.85
.4M36ZS10	MOT	..	1000-Up		.76
.4M39ZS10	MOT	..	1.35	.90	.85
.4M39ZS10	MOT	..	1000-Up		.76
.4M43ZS10	MOT	..	1.35	.90	.85
.4M43ZS10	MOT	..	1000-Up		.76
.4M47ZS10	MOT	.	1.35	.90	.85
.4M47ZS10	MOT	..	1000-Up		.76
.4M51ZS10	MOT	..	1.35	.90	.85
.4M51ZS10	MOT	..	1000-Up		.76
.4M56ZS10	MOT	..	1.35	.90	.85
.4M56ZS10	MOT	..	1000-Up		.76
.4M62ZS10	MOT	..	1.35	.90	.85
.4M62ZS10	MOT	..	1000-Up		.76
.4M68ZS10	MOT	..	1.35	.90	.85
.4M68ZS10	MOT	..	1000-Up		.76
.4M75ZS10	MOT	.	1.35	.90	.85
.4M75ZS10	MOT	..	1000-Up		.76
.4M82ZS10	MOT	..	1.35	.90	.85
.4M82ZS10	MOT	..	1000-Up		.76
.4M91ZS10	MOT	..	1.35	.90	.85
.4M91ZS10	MOT	..	1000-Up		.76
.4M100ZS10	MOT	..	1.35	.90	.85
.4M000ZS10	MOT	..	1000-Up		.76

Type No.	Mfr.	Page No.	EACH 1-99	100-999
5A2	IR	80	.50	.33
5A4	IR	80	.68	.45
5A5	IR	80	.78	.52

Type No.	Mfr.	Page No.	EACH 1-99	100-999
5A6	IR	80	.87	.58
5A8	IR	80	2.00	1.18
5A10	IR	80	2.45	1.43
5E4	IR	..	.59	.49
5E6	IR	..	1.20	.80
5E35	GE	67	1.35	.90
5E36	GE	67	2.67	1.78
5MA4	IR	..	.94	.76
5MA4-K	IR	..	2.43	2.19
5MA6	IR	..	1.70	1.35

Type No.	Mfr.	Page No.	EACH 1-999
6GC1	GE	..	.60
6GD1	GE	..	.60
6GX1	GE	..	.60

6RS220 SERIES

Type No.	Mfr.	Page No.	EACH 1-49	50-999
-SP1B1	GE	71	.69	.52
-SP2B2	GE	71	.80	.60
-SP3B3	GE	71	.91	.69
-SP4B4	GE	71	1.03	.78
-SP5B5	GE	71	1.15	.87
-SP6B6	GE	71	1.26	.95
-SP7B7	GE	71	1.38	1.04
-SP8B8	GE	70	1.50	1.13
-SP9B9	GE	71	1.62	1.22
-SP10B10	GE	71	1.73	1.31

6RS21 SERIES

Type No.	Mfr.	Page No.	EACH 1-49	50-999
-SA1D1	GE	71	1.87	1.33
-SA2D2	GE	71	2.00	1.45
-SA3D3	GE	71	2.20	1.63
-SA4D4	GE	71	2.38	1.70
-SA5D5	GE	71	2.55	1.85
-SA6D6	GE	71	2.75	1.97
-SA7D7	GE	71	2.90	2.10
-SA8D8	GE	71	3.10	2.25
-SA9D9	GE	71	3.30	2.40
-SA10D10	GE	71	3.47	2.55
-SA11D11	GE	71	3.65	2.70
-SA12D12	GE	71	3.85	2.88
-SA13D13	GE	..	4.00	3.05
-SA14D14	GE	71	4.20	3.23
-SA15D15	GE	71	4.37	3.40
-SA16D16	GE	71	4.55	3.60
-SA17D17	GE	..	4.75	3.75
-SA18D18	GE	71	4.90	3.95
-SA19D19	GE	71	5.10	4.15
-SA20D20	GE	71	5.25	4.30

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
7A30	GE	66	1.01	1.01	.67
7A31	GE	66	1.08	1.08	.72
7A32	GE	66	2.25	2.25	1.50
8D4	IR	..	.69	.60	.43
8D6	IR	..	.79	.73	.63
10B1	IR	81	.50	.50	.37
10B2	IR	81	.55	.55	.40
10B3	IR	81	.65	.65	.51
10B4	IR	81	.80	.80	.64
10B5	IR	81	.95	.95	.75
10B6	IR	81	1.10	1.10	.88
10B8	IR	81	1.60	1.60	1.28
10B10	IR	81	2.05	2.05	1.64
10C1	IR	81	.32	.32	.29
10C2	IR	81	.35	.35	.32
10C3	IR	81	.38	.38	.35
10C4	IR	81	.42	.42	.38
10C5	IR	81	.47	.47	.42
10C6	IR	81	.52	.52	.46
10C8	IR	81	.75	.75	.65
10C10	IR	81	1.70	1.70	1.20
10D3	IR	80	.55	.55	.40
10D5	IR	80	.78	.78	.52
10D8	IR	80	2.00	2.00	1.18
10D10	IR	80	2.45	2.45	1.43
10DB2A	IR	81	2.50	2.50	2.25
10DB3A	IR	81	2.60	2.60	2.35
10DB4A	IR	81	2.75	2.75	2.48
10DB5A	IR	81	2.90	2.90	2.60
10DB6A	IR	81	3.05	3.05	2.75
10DB7A	IR	81	3.35	3.35	3.00
10DB8A	IR	81	3.60	3.60	3.24
10DB10A	IR	81	5.40	5.40	4.85

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
10R3P	ST	..	3.86	3.23	3.10
10X3N	ST	..	17.10	15.00	14.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
12A8	GE	67	5.65	3.75
12F5	IR	..	1.25	.85
12F10	IR	..	1.40	.95
12F20	IR	..	2.75	1.85
12F30	IR	..	4.00	2.75

Type No.	Mfr.	Page No.	EACH 1-99	100-999
12F40	IR	..	5.00	3.30
12F50	IR	..	5.75	3.75
13A8	GE	66	2.00	1.33
14A502	GE	73	15.00	10.00
16K1	GE	66	.94	.62
16K2	GE	66	.98	.66
16K3	GE	66	1.06	.70
16RC20	IR	..	11.50	6.22
16RC30	IR	..	17.00	9.10
16RC100A	IR	80	53.00	30.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
25HB60	IR	..	8.00	8.00	....
25HB80	IR	81	17.40	17.40	....
25HB100	IR	81	24.00	24.00	....

Type No.	Mfr.	Page No.	EACH 1-9	10-99
36RC10A	IR	80	19.30	15.10
36RC20A	IR	80	25.30	20.00
36RC30A	IR	80	34.10	26.70
36RC40A	IR	80	45.00	35.25
36RC50A	IR	80	54.25	40.75
36RE60	IR	81	54.40	40.50
36RE80	IR	80	75.50	56.60
36RE100	IR	80	106.00	79.50
36RE120	IR	80	144.00	108.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
40HA3P	ST	..	5.95	5.08	4.75
40HF5	IR	81	1.15	1.15	.80
40HF10	IR	81	1.45	1.45	1.05
40HF20	IR	81	2.00	2.00	1.40
40HF30	IR	81	2.55	2.55	1.85
40HF40	IR	81	3.05	3.05	2.20
40HF5R	IR	81	1.15	1.15	.80
40HF10R	IR	81	1.45	1.45	1.05
40HF20R	IR	81	2.00	2.00	1.40
40HF30R	IR	81	2.55	2.55	1.85
40HF40R	IR	81	3.05	3.05	2.20
40S3N	ST	..	6.90	5.93	5.54
40S3P	ST	..	6.90	5.93	5.54
40X3N	ST	..	27.70	23.80	22.20
50LA	ST	..	5.87	5.03	4.70
50M	ST	..	.80	.69	.64
60J2	ST	..	6.80	5.81	5.45
60LA	ST	..	6.45	5.52	5.15
60M	ST	86	.85	.70	.66
60S3P	ST	..	8.36	7.19	6.71
61-8968	IR	..	1.20	1.08	.87
61-8969	IR	..	2.95	2.65	2.15
80C	ST	..	.95	.80	.75

Type No.	Mfr.	Page No.	EACH 1-9	10-99
151-REB20	IR	80	107.80	85.25
151-REB40	IR	80	157.30	115.50
151-REB60	IR	80	213.95	157.30
151-REB80	IR	80	319.00	210.10
151-REB100	IR	80	396.00	283.80
151-REB120	IR	80	489.60	352.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
400VB5	IR	81	12.10	10.80	9.00
400VB10	IR	81	14.50	12.80	10.80
400VB15	IR	81	15.40	13.70	11.50
400VB20	IR	81	17.60	15.70	13.10
400VB25	IR	81	20.10	17.50	15.10
400VB30	IR	81	23.20	20.00	17.10
400VB40	IR	81	30.20	26.10	22.30
400VB50	IR	81	39.50	33.90	27.10
400VB60	IR	81	52.50	43.30	37.90
400VB70	IR	81	66.80	56.00	49.30
400VB80	IR	81	87.30	72.10	64.00
400VB90	IR	81	95.50	78.30	70.50
400VB100	IR	81	101.10	86.20	78.20

Type No.	Mfr.	Page No.	EACH 1-99	100-999
650	TI	..	4.35	3.65
650C0	TI	..	4.85	4.15
650C3	TI	..	4.85	4.15
651C0	TI	..	4.85	4.15
651C4	TI	..	4.85	4.15
651C5	TI	..	4.85	4.15
651C6	TI	..	4.85	4.15
651C7	TI	..	4.85	4.15
651C9	TI	..	4.85	4.15
652	TI	..	4.35	3.65
652C0	TI	..	4.85	4.15
652C2	TI	..	4.85	4.15
652C4	TI	..	4.85	4.15
652C5	TI	..	4.85	4.15
652C7	TI	..	4.85	4.15
652C9	TI	..	4.85	4.15
653C0	TI	..	4.85	4.15
653C2	TI	..	4.85	4.15
653C3	TI	..	4.85	4.15
653C4	TI	..	4.85	4.15
653C5	TI	..	4.85	4.15
653C9	TI	..	4.85	4.15

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 24 12F40 IR

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
654C9	TI	..	4.85	4.15
655C9	TI	..	4.85	4.15
7715-3	VA	85	2.20	1.80
7715-6	VA	85	3.03	2.48
7715-10	VA	85	4.40	3.60
7715-20	VA	85	7.70	6.30
7715-30	VA	85	9.90	8.10
7715-50	VA	85	15.40	12.60
40004	RCA	..	1.65	1.14
40005	RCA	..	1.82	1.25
40006	RCA	..	3.30	2.28
40022	RCA	78	.83	.57
40050	RCA	78	.99	.69
40051	RCA	78	1.21	.84
40080	RCA	79	1.07	.75
40081	RCA	78	1.65	1.14
40082	RCA	77	5.69	3.93
40084	RCA	78	.99	.69
40108	RCA	75	.99	.69
40108R	RCA	75	.99	.69
40109	RCA	75	1.16	.80
40109R	RCA	75	1.16	.80
40110	RCA	75	1.57	1.09
40110R	RCA	75	1.16	.80
40111	RCA	75	2.15	1.48
40111R	RCA	75	2.15	1.48
40112	RCA	75	2.48	1.71
40112R	RCA	75	2.48	1.71
40113	RCA	75	3.14	2.17
40113R	RCA	75	3.14	2.17
40114	RCA	75	3.71	2.57
40114R	RCA	75	3.71	2.57
40115	RCA	75	6.60	4.56
40115R	RCA	75	6.60	4.56
40116	RCA	75	9.50	6.55
40116R	RCA	75	9.50	6.55
40208	RCA	75	.99	.69
40208R	RCA	75	1.19	.83
40209	RCA	75	1.32	.92
40209R	RCA	75	1.32	.92
40210	RCA	75	1.78	1.23
40210R	RCA	75	1.78	1.23
40211	RCA	75	2.39	1.65
40211R	RCA	75	2.39	1.65
40212	RCA	75	2.89	2.00
40212R	RCA	75	2.89	2.00
40213	RCA	75	3.63	2.51
40213R	RCA	75	3.63	2.51
40214	RCA	75	4.21	2.91
40214R	RCA	75	4.21	2.91
40216	RCA	76	48.00	33.15
40217	RCA	77	.99	.69
40218	RCA	77	1.19	.82
40219	RCA	77	1.32	.92
40220	RCA	77	3.05	2.11
40221	RCA	77	1.57	1.09
40222	RCA	77	1.24	.86
40231	RCA	78	.47	.32
40232	RCA	78	.53	.37
40233	RCA	78	.60	.42
40234	RCA	78	.42	.29
40235	RCA	79	.98	.68
40236	RCA	79	.90	.62
40237	RCA	79	.83	.57
40238	RCA	79	.83	.57
40239	RCA	79	.81	.56
40240	RCA	79	.80	.55
40242	RCA	79	.93	.64
40243	RCA	79	.86	.60
40244	RCA	79	.83	.57
40245	RCA	79	.81	.56
40246	RCA	79	.80	.55
40250	RCA	77	1.57	1.09
40250V1	RCA	77	1.65	1.14
40251	RCA	76	2.89	2.00
40253	RCA	78	.53	.37

 SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
40254	RCA	78	.78	.54
40255	RCA	76	4.21	2.91
40256	RCA	76	2.15	1.48
40258	RCA	76	.78	.54
40259	RCA	75	14.10	9.75
40261	RCA	78	.43	.30
40262	RCA	79	.40	.28
40263	RCA	78	.42	.29
40264	RCA	78	1.21	.84
40265	RCA	74	.35	.24
40266	RCA	74	.29	.20
40267	RCA	74	.33	.23
40269	RCA	77	.52	.36
40273	RCA	..	.50	.35
40278	RCA	77	181.50	125.40
40279	RCA	79	125.00	125.00
40280	RCA	79	4.62	3.19
40281	RCA	..	23.10	15.95
40282	RCA	..	33.00	22.80
40283	RCA	77	3.71	2.57
40290	RCA	79	4.79	3.31
40291	RCA	..	14.85	10.25
40292	RCA	..	33.00	22.80
40294	RCA	79	33.40	23.10
40295	RCA	79	14.85	10.25
40296	RCA	79	48.70	33.65
40305	RCA	79	24.75	17.10
40306	RCA	79	66.00	45.60
40307	RCA	79	66.00	45.60
40309	RCA	78	.70	.48
40310	RCA	78	1.21	.84
40311	RCA	78	.73	.51
40312	RCA	78	1.26	.87
40313	RCA	78	2.23	1.54
40314	RCA	78	.78	.54
40315	RCA	78	.75	.52
40316	RCA	78	1.21	.84
40317	RCA	78	.78	.54
40318	RCA	78	2.10	1.45
40319	RCA	78	1.32	.92
40320	RCA	78	.78	.54
40321	RCA	78	1.24	.86
40322	RCA	78	2.15	1.48
40323	RCA	78	.70	.48
40324	RCA	78	1.21	.84
40325	RCA	..	2.48	1.71
40326	RCA	78	.78	.54
40327	RCA	78	1.24	.86
40328	RCA	78	2.19	1.52
40329	RCA	78	.38	.27
40340	RCA	79	33.00	22.80
40341	RCA	79	33.00	22.80
40344	RCA	..	.48	.34
40345	RCA	..	.52	.36
40346	RCA	76	1.14	.79
40347	RCA	77	.80	.55
40347V1	RCA	..	.88	.61
40347V2	RCA	..	.88	.61
40348	RCA	77	1.06	.73
40348V1	RCA	..	1.14	.79
40348V2	RCA	..	1.14	.79
40349	RCA	77	1.56	1.08
40349V1	RCA	..	1.64	1.13
40349V2	RCA	..	1.64	1.13
40354	RCA	..	1.18	.81
40355	RCA	..	1.24	.86
40360	RCA	77	1.03	.71
40361	RCA	77	1.09	.72
40362	RCA	78	1.96	1.01
40364	RCA	78	4.46	3.08
40365	RCA	..	2.31	1.60
40366	RCA	..	8.25	5.70
40370	RCA	..	.53	.37
40372	RCA	..	2.15	1.48
40373	RCA	..	2.97	2.05
40374	RCA	..	3.38	2.34
40377	RCA	..	.49	.34
40378	RCA	..	1.62	1.12
40379	RCA	..	2.31	1.60
40380	RCA	..	1.49	1.03
40381	RCA	..	1.21	.84
40389	RCA	..	1.08	.75
40390	RCA	..	2.15	1.48
40391V2	RCA	..	1.13	.78
40392	RCA	..	1.08	.75
40397	RCA	..	.66	.46
40399	RCA	..	.55	.38
40400	RCA	..	.50	.35
40403	RCA	..	.62	.43
40404	RCA	..	1.65	1.14
40405	RCA	..	2.06	1.43
40406	RCA	..	1.36	.94
40407	RCA	..	.81	.56
40408	RCA	..	1.08	.75
40409	RCA	..	1.14	.79
40410	RCA	..	1.64	1.13
40411	RCA	..	5.61	3.88
40412	RCA	..	1.06	.73
40412V1	RCA	..	1.14	.79
40412V2	RCA	..	1.14	.79
40421	RCA	..	1.28	.88
40422	RCA	..	1.03	.71
40423	RCA	..	1.11	.77
40424	RCA	..	.98	.68
40425	RCA	..	1.06	.73
40426	RCA	..	.94	.64
40427	RCA	..	1.01	.70
40428	RCA	..	.29	.20
A	CO	79	2.10	2.10
A1B	IR	80	1.22	.82
A1H	IR	80	.33	.26
A7B	GE	71	1.95	1.30
A7D	GE	71	1.95	1.30
A7E	GE	..	1.95	1.30
A10A	GE	69	.51	.34
A10B	GE	69	.53	.35
A10C	GE	69	.66	.44
A10D	GE	69	.77	.51
A10E	GE	69	.87	.58
A10M	GE	69	1.04	.69
A10N	GE	69	1.80	1.20
A14C	GE	69	.54	.36
A14E	GE	69	.68	.45
A27B	GE	..	Use 1N4506	
A27D	GE	..	Use 1N4507	
A27M	GE	..	Use 1N4508	
A27N	GE	..	Use 1N4509	
A27P	GE	..	Use 1N4510	
A27PB	GE	..	Use 1N4511	
A28A	GE	79	9.00	6.00
A28B	GE	71	12.75	8.50
A28C	GE	71	19.25	12.85
A28D	GE	71	23.40	15.60
A28F	GE	71	8.25	5.50
A38B	GE	..	Use 1N4525	
A38D	GE	..	Use 1N4526	
A38M	GE	..	Use 1N4527	
A38N	GE	..	Use 1N4528	
A38P	GE	..	Use 1N4529	
A38PB	GE	..	Use 1N4530	
A40A	GE	70	1.77	1.18
A40B	GE	70	1.82	1.21
A40C	GE	70	2.40	1.60
A40D	GE	70	2.90	1.93
A40E	GE	70	3.53	2.35
A40F	GE	70	1.73	1.15
A40M	GE	70	4.20	2.80
A44A	GE	70	1.10	.73
A44B	GE	70	1.16	.77
A44C	GE	70	1.28	.85
A44D	GE	70	1.49	.99
A44E	GE	70	2.40	1.60
A44F	GE	70	1.05	.70
A44M	GE	70	3.00	2.00
A45D	GE	..	1.49	.99
A90PB	GE	..	97.00	77.00
A-580	TI	63	7.00	5.25
A-581	TI	63	11.00	7.50
A-582	TI	63	7.00	5.28
A-583	TI	63	13.00	10.00
A-584	TI	63	7.00	5.25
A-585	TI	63	15.00	12.50
A-586	TI	63	8.00	6.25
A-587	TI	63	13.00	10.00
A-588	TI	63	10.00	7.25
A-589	TI	63	17.00	13.00
B	CO	79	2.10	....
B-C	CO	79	2.10	....
B-U	CO	79	1.98	....
BCR-100	IR	..	9.95	8.95
BD1	GE	69	5.00	3.30
BD2	GE	69	5.00	3.30
BD3	GE	69	3.00	2.00
BD4	GE	69	5.00	3.30
BD5	GE	69	10.00	6.65
BD6	GE	69	10.00	6.65
BD7	GE	69	10.00	6.65
BHS	CO	79	1.53	....
BHS-U	CO	79	1.41	....
B1B	IR	80	1.28	.86
B1H	IR	80	.40	.28
C1B	IR	80	1.46	1.00
C1H	IR	80	.42	.29
C6A	GE	72	1.87	1.25
C6B	GE	72	2.07	1.38
C6F	GE	72	1.65	1.10
C6G	GE	72	1.98	1.32
C6U	GE	72	1.57	1.05
C12A	GE	72	8.40	5.60
C12B	GE	72	13.95	9.30
C12C	GE	72	20.25	13.50
C12D	GE	72	30.00	20.00
C12F	GE	72	6.60	4.40
C12U	GE	72	6.15	4.10
C15A	GE	72	2.10	1.40
C15B	GE	72	3.75	2.50
C15C	GE	72	6.75	4.50
C15D	GE	72	9.75	6.50
C15E	GE	72	15.00	10.00
C15F	GE	72	1.88	1.25
C15G	GE	72	2.14	1.45
C15M	GE	72	19.50	13.00
C20A	GE	72	1.92	1.28
C20B	GE	72	1.98	1.32
C20C	GE	72	2.64	1.76
C20D	GE	72	3.00	2.00
C20F	GE	72	1.77	1.18
C20U	GE	72	1.71	1.14
C22A	GE	72	1.62	1.08
C22B	GE	72	1.68	1.12
C22C	GE	72	2.34	1.56
C22D	GE	72	2.70	1.80
C22F	GE	72	1.47	.98
C22U	GE	72	1.41	.94
C30A	GE	72	4.95	3.30
C30B	GE	72	5.75	3.85
C30C	GE	72	7.40	4.95
C30D	GE	72	9.35	6.25
C30F	GE	72	4.10	2.75
C30U	GE	72	3.75	2.50
C31A	GE	72	5.40	3.60
C31B	GE	72	6.45	4.30
C31C	GE	72	8.10	5.40
C31D	GE	72	10.25	6.85
C31F	GE	72	4.50	3.00
C31U	GE	72	4.00	2.75
C32A	GE	72	4.55	3.05
C32B	GE	72	5.40	3.60
C32C	GE	72	7.05	4.70
C32D	GE	72	9.00	6.00
C32F	GE	72	3.75	2.50
C32U	GE	72	3.35	2.25
C33A	GE	72	5.00	3.35
C33B	GE	73	5.90	3.95
C33C	GE	73	7.70	5.15
C33D	GE	73	9.90	6.60
C33F	GE	72	4.10	2.75
C33U	GE	72	3.75	2.50
C35S	GE	..	Use 2N691	
C36M	GE	72	20.60	13.75
C36S	GE	72	25.20	16.95
C37A	GE	72	4.95	3.30
C37B	GE	72	5.75	3.85
C37C	GE	72	8.50	5.65
C37D	GE	72	12.25	8.15
C37E	GE	72	15.00	10.00
C37F	GE	72	4.10	2.75
C37M	GE	72	18.00	12.00
C37N	GE	72	24.00	16.00
C37S	GE	72	21.00	14.00
C38A	GE	73	13.90	9.25
C38B	GE	73	19.50	13.00
C38C	GE	73	27.40	18.25
C38D	GE	73	34.15	22.75
C38E	GE	73	41.65	27.75
C38F	GE	73	12.00	8.25
C38G	GE	73	16.50	11.00
C38H	GE	73	23.25	15.50
C38U	GE	73	11.25	7.50
C40A	GE	..	11.70	7.80
C40B	GE	..	17.40	11.60
C40C	GE	..	25.75	17.15
C40D	GE	..	34.15	22.75
C40U	GE	..	9.55	6.35
C45A	GE	..	21.50	16.80
C45D	GE	73	50.15	39.25
C45E	GE	73	60.25	47.15
C45M	GE	73	73.15	57.25
C45S	GE	73	89.70	70.20
C50E	GE	73	80.50	62.50
C50M	GE	73	97.50	75.50
C50N	GE	73	145.00	112.00
C50S	GE	73	120.00	94.00
C52E	GE	73	80.50	62.50
C52M	GE	73	97.50	75.50
C106A1	GE	72	1.35	.90
C106B1	GE	72	1.50	1.00
C106F1	GE	72	1.50	1.00
C106G1	GE	72	1.44	.96
C106Y1	GE	72	1.05	.70
C106A2	GE	72	1.35	.90
C106B2	GE	72	1.50	1.00
C106F2	GE	72	1.20	.80
C106G2	GE	72	1.44	.96
C106Y2	GE	72	1.05	.70
C135A	GE	73	10.20	6.80
C135B	GE	73	14.25	9.50
C135C	GE	73	21.00	14.00
C135D	GE	73	25.50	17.00
C135F	GE	73	9.40	6.25
C135M	GE	73	37.50	25.00
C135N	GE	73	48.00	32.00
C180A	GE	73	82.50	70.50
C180B	GE	73	99.00	84.00
C180C	GE	73	120.00	108.00
C180D	GE	73	145.00	123.00
C180M	GE	73	197.00	167.00
C511A	GE	72	6.75	4.50
C511B	GE	72	11.60	7.75
C511C	GE	72	17.25	11.50
C511D	GE	72	22.60	15.05
C511F	GE	72	4.58	3.05
C511G	GE	71	9.20	6.15
C511H	GE	72	14.25	9.50
C511U	GE	72	4.28	2.85
C611A	GE	72	2.40	1.60
C611B	GE	72	2.60	1.73
C611F	GE	72	2.20	1.45
C611G	GE	72	2.50	1.67
C611U	GE	72	2.10	1.40

Type No.	Mfr.	Page No.	EACH 1-29	EACH 30-Up
CR101	RCA	75	5.75	5.47
CR102	RCA	75	7.20	6.85
CR103	RCA	75	8.15	7.75
CR104	RCA	75	9.60	9.10
CR105	RCA	75	10.55	10.05
CR106	RCA	75	12.00	11.40
CR107	RCA	75	12.95	12.30
CR108	RCA	75	13.90	13.20
CR109	RCA	75	15.35	14.60
CR110	RCA	75	16.30	15.50
CR201	RCA	75	3.10	2.96
CR203	RCA	75	4.80	4.56
CR204	RCA	75	5.75	5.47
CR206	RCA	75	6.95	6.60
CR208	RCA	75	8.40	8.00
CR210	RCA	75	10.10	9.60
CR212	RCA	75	12.00	11.40
CR301	RCA	75	28.00	26.55
CR302	RCA	75	40.00	37.95
CR303	RCA	75	51.00	48.45
CR304	RCA	75	62.00	58.90
CR305	RCA	75	73.00	66.35
CR306	RCA	75	83.00	78.85
CR307	RCA	75	93.00	88.35
CR311	RCA	75	30.00	28.50
CR312	RCA	75	42.00	39.90
CR313	RCA	75	53.00	50.35
CR314	RCA	75	64.00	60.75
CR315	RCA	75	75.00	71.25
CR316	RCA	75	85.00	80.75
CR317	RCA	75	95.00	90.25
CR321	RCA	79	35.00	33.25
CR322	RCA	75	49.00	46.55
CR323	RCA	75	62.00	58.90
CR324	RCA	75	76.00	72.20
CR325	RCA	75	90.00	85.50
CR331	RCA	75	37.00	33.25
CR332	RCA	75	52.00	49.40
CR333	RCA	75	65.00	61.75
CR334	RCA	75	77.00	75.05
CR335	RCA	75	93.00	88.35
CR341	RCA	75	44.00	41.80
CR342	RCA	75	61.00	57.95
CR343	RCA	75	78.00	74.10
CR344	RCA	75	94.00	89.30
CR351	RCA	75	46.00	43.70
CR352	RCA	75	64.00	68.80
CR353	RCA	75	82.00	72.90
CR354	RCA	75	98.00	93.10

Type No.	Mfr.	Page No.	EACH 1-9	EACH 10-99	EACH 100-999
D13D1	GE	67	1.50	1.50	1.00
D13E1	GE	67	1.65	1.65	1.10
D16U3	GE	66	.63	.63	.41
D16U4	GE	66	.72	.72	.48
D26E1	GE	71	3.60	2.40	....
D26E2	GE	71	2.30	1.20	....
D26E3	GE	71	2.20	1.45	....
D26E4	GE	71	2.25	1.50	....
D26E5	GE	71	2.95	1.95	....
D26E6	GE	71	1.55	1.05	....
D26G1	GE	71	3.25	2.17	....
DD170	IR	..	1.95	1.75	....
DD175	IR	..	.99	.89	....
DD176	IR	..	.59	.53	....
DD177	IR	..	.99	.89	....
DD180	IR	..	1.45	1.30	....
DD184	IR	..	3.75	3.37	....
E075L	IR	..	.59	.44	.35
E150L	IR	..	.74	.62	.44
E300L	IR	..	1.10	.92	.61
E500L	IR	..	1.22	1.02	.70
E650L	IR	..	2.08	1.73	1.56

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-499
F-8	ST	86	.60	.49	.46
FA4	ST	..	1.40	1.20	1.12
FA6	ST	..	1.50	1.28	1.20
FA8	ST	..	1.60	1.37	1.28

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
G01	TI	..	.85	.66
G02	TI	..	1.00	.49
G129	TI	..	1.30	.85
G130	TI	..	1.30	.85
G222	TI	..	.75	.65
G296	TI	..	.85	.70
GE-1	GE	..	1.20	....
GE-2	GE	..	1.02	....
GE-3	GE	..	2.34	....
GE-4	GE	..	4.44	....
GE-5	GE	..	1.68	....
GE-6	GE	..	1.83	....
GE-7	GE	..	1.70	....
GE-8	GE	..	1.29	....
GE-9	GE	..	1.26	....
GE-10	GE	..	1.20	....
GE-11	GE	..	1.53	....
GE-41	GE	..	3.36	....
GE-42	GE	..	2.28	....
GE-504A	GE	..	.66	....
GE-505	GE	..	1.10	....
GECR-1	GE	..	3.72	....
GECR-2	GE	..	1.47	....

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
GECR-3	GE	..	1.02	....
GEM-100	GE	..	1.20	....
GE-X1	GE	..	5.00	....
GE-X2A	GE	..	2.80	....
GE-X3	GE	..	4.80	....
GE-X4	GE	..	1.60	....
GE-X5	GE	..	3.55	....
GE-X6	GE	..	1.40	....
GE-X7	GE	..	.80	....
GE-X8	GE	..	.70	....
GE-X9	GE	..	.70	....
GE-X10	GE	..	3.95	....
GE-X11	GE	..	1.80	....
GE-X12	GE	..	5.30	....
GE-X13	GE	..	1.60	....
GE-X14	GE	..	.82	....
GE-X15	GE	..	3.45	....
GE-X16	GE	..	3.45	....

Type No.	Mfr.	Page No.	EACH 1-9
H1A1	GE	73	95.00
H1B1	GE	73	95.00
H1D1	GE	73	95.00

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
H11	TI	63	4.00	2.80
H35	TI	63	5.00	3.50
H38	TI	63	4.00	2.80
H60	TI	63	8.00	5.60
H61	TI	63	9.00	6.25
H62	TI	63	13.50	10.00
HD1811	HUG	88	.77	.58
HD2135	HUG	88	.64	.48
HD2149	HUG	..	.64	.48
HD2155	HUG	88	.85	.64
HD5000	HUG	88	2.85	2.14
HD5001	HUG	88	2.55	1.91
HD5002	HUG	88	1.35	1.01
HD5003	HUG	88	1.20	.90
HD5004	HUG	88	.90	.68
HEP1	MOT	..	.89	.89
HEP50	MOT	..	.79	.79
HEP51	MOT	..	1.29	1.25
HEP52	MOT	..	.95	.95
HEP53	MOT	..	1.15	1.15
HEP101	MOT	..	.95	.95
HEP102	MOT	..	1.20	1.20
HEP103	MOT	..	1.20	1.20
HEP104	MOT	..	1.20	1.20
HEP105	MOT	..	1.20	1.20
HEP151	MOT	..	.79	.79
HEP153	MOT	..	1.24	1.24
HEP154	MOT	..	.36	.36
HEP156	MOT	..	.49	.49
HEP157	MOT	..	.56	.56
HEP158	MOT	..	.66	.66
HEP159	MOT	..	.92	.92
HEP160	MOT	..	1.45	1.45
HEP161	MOT	..	1.09	1.09
HEP162	MOT	..	1.25	1.25
HEP175	MOT	..	1.49	1.49
HEP176	MOT	..	2.05	2.05
HEP177	MOT	..	2.63	2.63
HEP200	MOT	..	.82	.82
HEP230	MOT	..	.89	.89
HEP231	MOT	..	1.69	1.69
HEP250	MOT	..	.79	.79
HEP251	MOT	..	.89	.89
HEP252	MOT	..	.89	.89
HEP300	MOT	..	2.29	2.29
HEP301	MOT	..	2.55	2.55
HEP302	MOT	..	2.69	2.69
HEP303	MOT	..	2.95	2.95
HEP304	MOT	..	4.35	4.35
HEP305	MOT	..	4.60	4.60
HEP306	MOT	..	5.90	5.90
HEP307	MOT	..	6.20	6.20
HEP309	MOT	..	.79	.79
HEP310	MOT	..	1.49	1.49
HEP311	MOT	..	1.35	1.35
HEP553	MOT	..	4.10	4.10
HEP554	MOT	..	1.69	1.69
HEP556	MOT	..	2.99	2.99
HEP558	MOT	..	5.94	5.94
HEP801	MOT	..	3.39	3.39
HMN9006	HUG	88	3.36	2.52
HMN9007	HUG	88	2.97	2.23
HMN9008	HUG	88	2.45	1.84
HMN9009	HUG	88	1.96	1.47
HMN9010	HUG	88	1.54	1.16
HR1D	HUG	..	4.50	3.02

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
HVC180	ST	86	3.35	2.86	2.66
HVC240	ST	86	3.60	3.08	2.87
HVC300	ST	86	3.85	3.28	3.07
HVC400	ST	86	4.00	3.44	3.20
HVC500	ST	86	4.15	3.67	3.34
HVC600	ST	86	4.55	3.92	3.66
HVC650	ST	86	5.00	4.29	4.00
HVC750	ST	86	5.40	4.64	4.34
HVC840	ST	86	5.85	5.00	4.66
HVC960	ST	86	6.65	5.72	5.34
HVC1000	ST	86	7.10	6.07	5.66

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 1N3010 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-24	EACH 25-99	EACH 100-999
HVC1200	ST	86	8.35	7.15	6.66
HVC1500	ST	86	10.40	8.94	8.34
HVC1800	ST	86	12.50	10.70	10.00
HVC2100	ST	86	14.60	12.50	11.67
HVC2500	ST	86	17.50	15.00	14.00
HVC3000	ST	86	20.80	17.90	16.70

Type No.	Mfr.	Page No.	EACH 1-9	EACH 10-99
J14C04	IR	80	1.04	.80
J14C1	IR	80	1.52	1.29
J14C5	IR	80	3.90	3.30
J14C8	IR	80	5.34	4.52
J29B04	IR	80	1.70	1.44
J29B1	IR	80	2.48	2.10
J29B5	IR	80	7.02	5.94
J29B8	IR	80	10.25	8.25
J58B04	IR	80	3.41	2.88
J58B1	IR	80	4.90	4.15
J58B5	IR	80	13.98	11.83
J58B8	IR	80	19.38	16.40
J116B04	IR	80	6.08	5.15
J116B1	IR	80	8.91	7.54
J116B5	IR	80	26.48	22.41
J116B8	IR	80	37.13	31.42
J135B04	IR	80	7.70	6.26
J135B1	IR	80	10.86	9.19
J135B5	IR	80	32.72	27.69
JD116K	IR	80	1.75	1.49
JD117K	IR	80	2.34	2.00
JD241K	IR	80	3.35	3.04
JD4346B	IR	80	19.03	16.10
K505	IR	..	7.95	7.15
K546	IR	..	6.50	6.50

Type No.	Mfr.	Page No.	EACH 1-99	EACH 100-999
L8A	GE	73	7.00	4.65
L8F	GE	73	4.90	3.25
L8U	GE	73	4.50	3.00
L9A	GE	73	7.65	5.10
L9F	GE	73	5.40	3.60
L9U	GE	73	4.95	3.30
L811A	GE	73	8.50	5.45
L811B	GE	73	13.35	8.65
L811F	GE	73	6.40	4.00
L811G	GE	73	10.95	7.05
L811U	GE	73	6.00	3.75
L911A	GE	73	9.15	5.85
L911F	GE	73	6.90	4.35
L911G	GE	73	11.95	7.70
L911U	GE	73	6.45	4.05
LED-7	GE	73	135.00	....
LED-8	GE	73	135.00	....
LED-9	GE	73	12.00	....
LED-10	GE	73	45.00	....
LED-11	GE	73	45.00	....
LS-221	TI	..	24.00	20.00
LS-222	TI	..	6.00	5.45
LS-400	TI	63	13.50	10.80
LS-600	TI	63	13.00	9.50
LSX-515	TI	63	14.95	11.30
M	CO	79	2.10	....
M1B	IR	80	1.72	1.03
M1H	IR	80	.56	.34
M150	ST	..	.65	.53
M4L2052	MOT	..	2.85	1.90
M4L2053	MOT	..	2.40	1.60
M4L2054	MOT	..	2.25	1.50
M4L3052	MOT	..	2.55	1.70
M4L3053	MOT	..	2.15	1.45
M4L3054	MOT	..	2.00	1.35

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
MA100	MOT	49	1.00	1.00	.67
MA200	MOT	49	.58	.58	.39
MA201	MOT	49	.67	.67	.45
MA202	MOT	49	.67	.67	.45
MA203	MOT	49	.75	.75	.50
MA204	MOT	49	.58	.58	.39
MA205	MOT	49	.50	.50	.33
MA206	MOT	49	.42	.42	.28
MA450C	MIC	89	15.00	12.50	10.00
MA460C	MIC	..	15.00	12.50	10.00
MA881	MOT	49	.72	.72	.48
MA882	MOT	49	.80	.80	.53
MA883	MOT	49	.89	.89	.59
MA884	MOT	49	.98	.98	.65
MA885	MOT	49	.50	.50	.33
MA886	MOT	49	.59	.59	.39
MA887	MOT	49	.68	.68	.45
MA888	MOT	49	.75	.75	.50
MA889	MOT	49	.84	.84	.56
MA909	MOT	49	.63	.63	.42
MA910	MOT	49	.75	.75	.50
MA1703	MOT	49	1.17	1.17	.78
MA1704	MOT	49	1.34	1.34	.89
MA1706	MOT	49	1.00	1.00	.67
MA1707	MOT	49	1.17	1.17	.78
MA4121	MIC	89	5.00	4.50	4.00
MA4127	MIC	89	3.80	3.42	2.90
MA4273B	MIC	89	20.00	18.00	16.00
MA4273C	MIC	89	12.00	10.50	9.00
MA4273D	MIC	89	12.00	10.50	9.00
MA4273F	MIC	89	20.00	17.50	15.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
MCR649-1	MOT	47	4.40	2.95
MCR649-2	MOT	47	4.95	3.30
MCR649-3	MOT	47	5.85	3.90
MCR649-4	MOT	47	8.25	5.50
MCR649-5	MOT	47	14.30	9.55
MCR649-6	MOT	47	19.05	12.70
MCR649-7	MOT	47	24.20	16.15
MCR808-1	MOT	47	2.80	2.25
MCR808-2	MOT	47	3.10	2.50
MCR808-3	MOT	47	3.80	3.05
MCR808-4	MOT	47	4.50	3.60
MCR808-5	MOT	47	6.75	5.40
MCR808-6	MOT	47	9.70	7.90
MCR846-1	MOT	47	5.15	3.45
MCR846-2	MOT	47	5.75	3.85
MCR846-3	MOT	47	7.35	4.90
MCR846-4	MOT	47	14.60	9.25
MCR914-1	MOT	47	3.00	2.00
MCR914-2	MOT	47	3.50	2.40
MCR914-3	MOT	47	4.65	3.10
MCR914-4	MOT	47	9.15	6.10
MCR914-5	MOT	47	14.15	9.45
MCR914-6	MOT	47	19.10	12.75
MCR1308-1	MOT	47	3.05	2.50
MCR1308-2	MOT	47	3.35	2.75
MCR1308-3	MOT	47	4.05	3.30
MCR1308-4	MOT	47	4.75	3.85
MCR1308R-4	MOT	..	4.95	4.05
MCR1308-5	MOT	47	7.00	5.65
MCR1308R-5	MOT	..	7.20	5.85
MCR1308-6	MOT	47	10.05	8.15
MCR1308R-6	MOT	..	10.15	8.35
MCR1718-5	MOT	..	25.50	17.00
MCR1718-6	MOT	..	30.00	20.00
MCR1718-7	MOT	..	37.50	25.00
MCR1718-8	MOT	..	45.00	30.00
MCR1907-1	MOT	47	9.00	6.00
MCR1907-2	MOT	47	9.75	6.50
MCR1907-3	MOT	47	11.50	7.50
MCR1907-4	MOT	47	16.20	10.80
MCR1907-5	MOT	47	24.45	16.30
MCR1907-6	MOT	47	29.25	19.50
MCR2604-1	MOT	47	1.55	1.15
MCR2604-2	MOT	47	1.70	1.20
MCR2604-3	MOT	47	1.85	1.35
MCR2604-4	MOT	47	2.05	1.45
MCR2604-5	MOT	47	2.50	1.70
MCR2604-6	MOT	47	2.90	1.95
MCR2604-7	MOT	47	5.10	3.45
MCR2604-8	MOT	47	6.85	4.60
MD984F	MOT	..	37.20	24.80
MD986F	MOT	..	30.15	20.10
MD1120	MOT	..	19.10	12.75
MD1120F	MOT	..	42.95	28.65
MD1121	MOT	..	24.80	16.55
MD1121F	MOT	..	55.80	37.20
MD1122	MOT	..	37.00	24.65
MD1122F	MOT	..	83.15	55.45
MD1126	MOT	..	11.20	7.50
MD1127	MOT	..	12.00	8.00
MD1128	MOT	..	12.75	8.50
MD1129	MOT	..	51.75	34.50
MD1129F	MOT	..	93.15	62.10
MD1130	MOT	..	58.20	38.80
MD1130F	MOT	..	104.75	69.85
MD1131	MOT	..	28.35	18.90
MD1131F	MOT	..	39.60	26.40
MD1132	MOT	..	38.25	25.50

Type No.	Mfr.	Page No.	EACH 1-9	10-99
MD1132F	MOT	..	48.50	33.00
MD1134	MOT	..	11.65	7.75
MD2218	MOT	..	6.75	4.50
MD2218A	MOT	..	11.40	7.60
MD2218F	MOT	..	11.25	7.50
MD2218AF	MOT	..	15.90	10.60
MD2219	MOT	..	7.95	5.30
MD2219A	MOT	..	13.20	8.80
MD2219F	MOT	..	12.45	8.30
MD2219AF	MOT	..	17.70	11.80
MD2904	MOT	..	11.55	7.70
MD2904A	MOT	..	18.00	12.00
MD2904F	MOT	..	16.05	10.70
MD2904AF	MOT	..	22.50	15.00
MD2905	MOT	..	14.40	9.60
MD2905A	MOT	..	21.00	14.00
MD2905F	MOT	..	18.90	12.60
MD2905AF	MOT	..	25.50	17.00
MD3250	MOT	..	9.75	6.50
MD3250A	MOT	..	19.50	13.00
MD3250F	MOT	..	17.25	11.50
MD3250AF	MOT	..	29.25	19.50
MD3251	MOT	..	11.60	7.75
MD3251A	MOT	..	23.25	15.50
MD3251F	MOT	..	19.10	12.75
MD3251AF	MOT	..	30.75	20.50
MD6001	MOT	..	10.80	7.20
MD6001F	MOT	..	15.30	10.20
MD6002	MOT	..	13.50	9.00
MD6002F	MOT	..	18.00	12.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
MDA920-1	MOT	46	1.42	1.26	.95
MDA920-2	MOT	46	1.69	1.50	1.13
MDA920-3	MOT	46	1.95	1.73	1.30
MDA920-4	MOT	46	2.30	2.05	1.55
MDA920-5	MOT	46	2.40	2.10	1.60
MDA920-6	MOT	46	2.45	2.20	1.65
MDA920-7	MOT	46	3.20	2.85	2.15
MDA930-1	MOT	46	.82	.73	.55
MDA930-2	MOT	46	.90	.80	.60
MDA930-3	MOT	46	.97	.86	.65
MDA930-4	MOT	46	1.14	1.01	.76
MDA930-5	MOT	46	1.21	1.08	.81
MDA930-6	MOT	46	1.27	1.13	.85
MDA930-7	MOT	46	1.65	1.46	1.10
MDA940-1	MOT	46	.82	.73	.55
MDA940-2	MOT	46	.90	.80	.60
MDA940-3	MOT	46	.97	.86	.65
MDA940-4	MOT	46	1.14	1.01	.70
MDA940-5	MOT	46	1.21	1.08	.81
MDA940-6	MOT	46	1.27	1.13	.85
MDA940-7	MOT	46	1.65	1.46	1.10
MDA942-1	MOT	46	2.15	1.90	.160
MDA942-2	MOT	46	2.40	2.15	1.80
MDA942-3	MOT	46	2.65	2.40	2.00
MDA942-4	MOT	46	2.95	2.65	2.20
MDA942-5	MOT	46	3.10	2.80	2.35
MDA942-6	MOT	46	4.10	3.70	3.10
MDA950-1	MOT	46	.82	.73	.55
MDA950-2	MOT	46	.90	.80	.60
MDA950-3	MOT	46	.97	.86	.65
MDA950-4	MOT	46	1.14	1.01	.76
MDA950-5	MOT	46	1.21	1.08	.81
MDA950-6	MOT	46	1.27	1.13	.85
MDA950-7	MOT	46	1.65	1.46	1.10
MDA952-1	MOT	46	3.25	2.95	2.45
MDA952-2	MOT	46	3.50	3.20	2.65
MDA952-3	MOT	46	4.45	4.00	3.35
MDA952-4	MOT	46	4.90	4.45	3.70
MDA952-5	MOT	46	6.00	5.40	4.50
MDA962-1	MOT	46	3.65	3.30	2.75
MDA962-2	MOT	46	3.90	3.55	2.95
MDA962-3	MOT	46	4.85	4.40	3.65
MDA962-4	MOT	46	5.30	4.80	4.00
MDA962-5	MOT	46	6.40	5.75	4.80
MDA972-1	MOT	46	8.75	7.90	6.60
MDA972-2	MOT	46	9.30	8.40	7.00
MDA972-3	MOT	46	10.38	9.35	7.80
MDA972-4	MOT	46	11.45	10.30	8.60
MDA972-5	MOT	46	12.50	11.30	9.40

Type No.	Mfr.	Page No.	EACH 1-99	100-Up
MF3304	MOT	51	6.75	4.50
MFE2093	MOT	52	2.85	1.90
MFE2094	MOT	52	2.85	1.90
MFE2095	MOT	52	2.85	1.90
MJ2249	MOT	49	2.02	1.35
MJ2250	MOT	49	2.15	1.45
MJ2255	MOT	49	2.70	1.80
MJ2256	MOT	49	3.05	2.05
MJ2257	MOT	49	4.40	2.95
MJ2801	MOT	49	2.85	1.90
MJ2802	MOT	49	3.75	2.50
MK-10	MOT	51	.23	.15
MK-15	MOT	51	.23	.15
MK-20	MOT	51	.35	.23
MK-25	MOT	51	.25	.18
MM1803	MOT	52	11.70	7.80
MM1941	MOT	52	1.95	1.30
MM1943	MOT	52	3.00	2.00

Type No.	Mfr.	Page No.	EACH 1-99	100-Up
MM2090	MOT	..	4.35	2.90
MM2483	MOT	52	4.50	3.00
MM2484	MOT	52	5.25	3.50
MM2503	MOT	52	26.25	17.50
MM2550	MOT	50	9.00	6.00
MM2552	MOT	50	9.00	6.00
MM2554	MOT	50	9.00	6.00
MM2894	MOT	..	8.25	5.50
MP2	GE	68	7.50	5.00
MP500	MOT	48	5.70	3.80
MP500A	MOT	..	7.10	4.75
MP501	MOT	48	9.00	6.00
MP501A	MOT	..	11.55	7.70
MP502	MOT	48	12.00	8.00
MP502A	MOT	..	15.00	10.00
MP504	MOT	48	6.60	4.40
MP504A	MOT	..	8.15	5.45
MP505	MOT	48	10.20	6.80
MP505A	MOT	..	12.75	8.50
MP506	MOT	48	13.85	9.25
MP506A	MOT	..	16.85	11.25
MP525	MOT	48	1.00	.75
MP800	MOT	48	90.00	60.00
MP801	MOT	48	90.00	60.00
MP1612	MOT	48	3.55	2.65
MP1612A	MOT	48	3.90	2.90
MP1612B	MOT	48	4.20	3.10
MP1613	MOT	48	1.35	1.00
MP2060	MOT	48	1.05	.75
MP2061	MOT	48	1.15	.85
MP2062	MOT	48	1.35	1.00
MP2063	MOT	48	1.65	1.25

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-Up
MPS706	MOT	51	.60	.40	.36
MPS834	MOT	51	.70	.46	.41
MPS918	MOT	51	1.35	.90	.81
MPS2711	MOT	..	.60	.40	.30
MPS2712	MOT	..	.64	.34	.32
MPS2713	MOT	51	.72	.48	.36
MPS2714	MOT	51	.76	.51	.38
MPS2715	MOT	..	.57	.38	.28
MPS2716	MOT	..	.60	.40	.30
MPS2894	MOT	50	.75	.50	.50
MPS2923	MOT	51	.65	.43	.35
MPS2924	MOT	51	.69	.46	.37
MPS2925	MOT	51	.75	.50	.40
MPS3392	MOT	..	.54	.36	.27
MPS3393	MOT	..	.48	.32	.24
MPS3394	MOT	..	.45	.30	.22
MPS3395	MOT	..	.58	.39	.29
MPS3396	MOT	..	.54	.36	.27
MPS3397	MOT	..	.51	.34	.25
MPS3398	MOT	..	.57	.38	.28
MPS3563	MOT	51	1.20	.80	.72
MPS3638	MOT	51	.46	.31	.28
MPS3639	MOT	51	.54	.36	.27
MPS3640	MOT	51	.57	.38	.28
MPS3646	MOT	51	.69	.46	.35
MPS3707	MOT	..	.60	.40	.30
MPS3708	MOT	..	.48	.32	.24
MPS3709	MOT	..	.45	.30	.22
MPS3710	MOT	..	.49	.33	.25
MPS3711	MOT	..	.54	.36	.27
MPS6512	MOT	52	.54	.36	.27
MPS6513	MOT	52	.57	.38	.28
MPS6514	MOT	52	.60	.40	.30
MPS6515	MOT	52	.64	.43	.32
MPS6516	MOT	52	.60	.40	.30
MPS6517	MOT	52	.63	.42	.31
MPS6520	MOT	52	.82	.55	.41
MPS6521	MOT	52	.90	.60	.45
MPS6530	MOT	52	.72	.48	.36
MPS6531	MOT	52	.75	.50	.37
MPS6532	MOT	52	.60	.40	.30
MPS6533	MOT	52	.78	.52	.38
MPS6534	MOT	52	.81	.54	.40
MPS6535	MOT	52	.66	.41	.33

Type No.	Mfr.	Page No.	EACH 1-99	100-999
MQ2	GE	68	15.00	10.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-4999
MR322	MOT	..	.67	.45	.40
MR322R	MOT	..	.67	.45	.40
MR323	MOT	..	.76	.51	.46
MR323R	MOT	..	.76	.51	.46
MR324	MOT	..	1.11	.74	.67
MR324R	MOT	..	1.11	.74	.67
MR325	MOT	..	1.27	.85	.76
MR325R	MOT	..	1.27	.85	.76
MR326	MOT	..	1.48	.99	.89
MR326R	MOT	..	1.48	.99	.89
MR327	MOT	53	2.40	1.60	1.45
MR328	MOT	53	3.35	2.25	2.00
MR330	MOT	53	6.75	4.50	4.05
MR331	MOT	53	9.75	6.50	5.85
MR990	MOT	53	1.42	.95	....

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-4999
MR991	MOT	53	2.10	1.40	....
MR992	MOT	53	4.95	3.30	....
MR993	MOT	53	6.60	4.40	....
MR994	MOT	53	7.85	5.25	....
MR1033A	MOT	53	.76	.51	.46
MR1033B	MOT	53	.76	.51	.46
MR1035A	MOT	53	1.08	.72	.65
MR1035B	MOT	53	1.08	.72	.65

Type No.	Mfr.	Page No.	EACH 1-99	100-999
MR1120	MOT	53	.97	.65
MR1121	MOT	53	1.05	.70
MR1122	MOT	53	1.18	.79
MR1123	MOT	53	1.33	.89
MR1124	MOT	57	1.50	1.00
MR1125	MOT	53	1.85	1.25
MR1126	MOT	53	2.45	1.65
MR1128	MOT	53	5.60	3.75
MR1130	MOT	53	7.85	5.25

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
MR1200FL	MOT	53	2.55	2.30	1.90
MR1200FLR	MOT	53	2.55	2.30	1.90
MR1201FL	MOT	53	3.45	3.10	2.60
MR1201FLR	MOT	53	3.45	3.10	2.60
MR1203FL	MOT	53	4.80	4.30	3.60
MR1203FLR	MOT	53	4.80	4.30	3.60
MR1205FL	MOT	53	5.60	5.05	4.20
MR1205FLR	MOT	53	5.60	5.05	4.20
MR1207FL	MOT	53	6.65	6.00	5.00
MR1207FLR	MOT	53	6.65	6.00	5.00
MR1210SB	MOT	53	3.40	3.05	2.55
MR1210SBR	MOT	53	3.40	3.05	2.55
MR1210SL	MOT	53	3.25	2.95	2.45
MR1210SLR	MOT	53	3.25	2.95	2.45
MR1211SB	MOT	53	4.25	3.85	3.20
MR1211SBR	MOT	53	4.25	3.85	3.20
MR1211SL	MOT	53	4.10	3.70	3.10
MR1211SLR	MOT	53	4.10	3.70	3.10
MR1213SB	MOT	53	5.60	5.05	4.20
MR1213SBR	MOT	53	5.60	5.05	4.20
MR1213SL	MOT	53	5.45	4.90	4.10
MR1213SLR	MOT	53	5.45	4.90	4.10
MR1215SB	MOT	53	6.80	6.10	5.10
MR1215SBR	MOT	53	6.80	6.10	5.10
MR1215SL	MOT	53	6.65	6.00	5.00
MR1215SLR	MOT	53	6.65	6.00	5.00
MR1217SB	MOT	53	9.05	8.15	6.80
MR1217SBR	MOT	53	9.05	8.15	6.80
MR1217SL	MOT	53	8.90	8.05	6.70
MR1217SLR	MOT	53	8.90	8.05	6.70
MR1220FB	MOT	53	6.50	5.90	4.90
MR1220FBR	MOT	53	6.50	5.90	4.90
MR1220FL	MOT	..	6.20	5.60	4.65
MR1220FLR	MOT	..	6.20	5.60	4.65
MR1220SB	MOT	53	6.50	5.90	4.90
MR1220SBR	MOT	53	6.50	5.90	4.90
MR1220SL	MOT	53	6.20	5.60	4.65
MR1220SLR	MOT	53	6.20	5.60	4.65
MR1221FB	MOT	53	7.50	6.80	5.65
MR1221FBR	MOT	53	7.50	6.80	5.65
MR1221FL	MOT	53	7.20	6.50	5.40
MR1221FLR	MOT	53	7.20	6.50	5.40
MR1221SB	MOT	53	7.50	6.80	5.65
MR1221SBR	MOT	53	7.50	6.80	5.65
MR1221SL	MOT	53	7.20	6.50	5.40
MR1221SLR	MOT	53	7.20	6.50	5.40
MR1223FB	MOT	53	11.95	10.80	9.00
MR1223FBR	MOT	53	11.95	10.80	9.00
MR1223FL	MOT	..	11.65	10.50	8.75
MR1223FLR	MOT	..	11.65	10.50	8.75
MR1223SB	MOT	53	11.95	10.80	9.00
MR1223SBR	MOT	53	11.95	10.80	9.00
MR1223SL	MOT	53	11.65	10.50	8.75
MR1223SLR	MOT	53	11.65	10.50	8.75
MR1225FB	MOT	53	13.95	12.60	10.50
MR1225FBR	MOT	53	13.95	12.60	10.50
MR1225FL	MOT	53	13.65	12.30	10.25
MR1225FLR	MOT	53	13.65	12.30	10.25
MR1225SB	MOT	53	13.95	12.60	10.50
MR1225SBR	MOT	53	13.95	12.60	10.50
MR1225SL	MOT	53	13.65	12.30	10.25
MR1225SLR	MOT	53	13.65	12.30	10.25
MR1227FB	MOT	53	15.95	14.40	12.00
MR1227FBR	MOT	53	15.95	14.40	12.00
MR1227FL	MOT	53	15.65	14.10	11.75
MR1227FLR	MOT	53	15.65	14.10	11.75
MR1227SB	MOT	53	15.95	14.40	12.00
MR1227SBR	MOT	53	15.95	14.40	12.00
MR1227SL	MOT	..	15.95	14.40	12.00
MR1227SLR	MOT	..	15.95	14.40	12.00
MR1230SB	MOT	..	11.30	10.20	8.50
MR1230SBR	MOT	..	11.30	10.20	8.50
MR1231FB	MOT	..	12.05	10.85	9.05
MR1231FBR	MOT	..	12.05	10.85	9.05
MR1231FL	MOT	54	11.55	10.45	8.70
MR1231FLR	MOT	54	11.55	10.45	8.70
MR1231SB	MOT	..	12.25	11.05	9.20
MR1231SBR	MOT	..	12.25	11.05	9.20
MR1231SL	MOT	54	11.90	10.75	8.95
MR1231SLR	MOT	54	11.90	10.75	8.95
MR1233FB	MOT	54	15.25	13.75	11.45
MR1233FBR	MOT	54	15.25	13.75	11.45
MR1233FL	MOT	54	14.75	13.30	11.10
MR1233FLR	MOT	54	14.75	13.30	11.10

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
MR1233SB	MOT	..	15.45	13.90	11.60
MR1233SBR	MOT	..	15.45	13.90	11.60
MR1233SL	MOT	54	15.10	13.60	11.35
MR1233SLR	MOT	54	15.10	13.60	11.35
MR1235FB	MOT	..	17.35	15.65	13.05
MR1235FBR	MOT	..	17.35	15.65	13.05
MR1235FL	MOT	54	16.90	15.25	12.70
MR1235FLR	MOT	54	16.90	15.25	12.70
MR1235SB	MOT	..	17.55	15.85	13.20
MR1235SBR	MOT	..	17.55	15.85	13.20
MR1235SL	MOT	54	17.20	15.55	12.95
MR1235SLR	MOT	54	17.20	15.55	12.95
MR1237FB	MOT	..	22.30	20.10	16.75
MR1237FBR	MOT	..	22.30	20.10	16.75
MR1237FL	MOT	54	21.60	19.50	16.25
MR1237FLR	MOT	54	21.60	19.50	16.25
MR1237SB	MOT	..	22.30	20.10	16.75
MR1237SBR	MOT	54	22.30	20.10	16.75
MR1237SL	MOT	54	22.30	20.10	16.75
MR1237SLR	MOT	..	22.30	20.10	16.75

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
MR1238FB	MOT	..	25.95	23.40	19.50
MR1238FL	MOT	..	25.60	23.10	19.25
MR1238SB	MOT	..	25.95	23.40	19.50
MR1238SL	MOT	..	25.60	23.10	19.25
MR1239FB	MOT	.	32.60	29.40	24.25
MR1239FL	MOT	..	32.25	29.10	24.25
MR1239SB	MOT	..	32.60	29.40	24.50
MR1239SL	MOT	..	25.60	23.10	19.25
MR1240FB	MOT	54	14.90	13.45	11.20
MR1240FBR	MOT	54	14.90	13.45	11.20
MR1240FL	MOT	54	14.10	12.70	10.60
MR1240FLR	MOT	54	14.10	12.70	10.60
MR1240SB	MOT	54	15.45	13.90	11.60
MR1240SBR	MOT	54	15.45	13.90	11.60
MR1240SL	MOT	54	15.45	13.90	11.60
MR1240SLR	MOT	54	15.45	13.90	11.60
MR1241FB	MOT	54	16.25	14.65	12.20
MR1241FBR	MOT	54	16.25	14.65	12.20
MR1241FL	MOT	54	15.45	13.90	11.60
MR1241FLR	MOT	54	15.45	13.90	11.60
MR1241SB	MOT	54	16.75	15.10	12.60
MR1241SBR	MOT	54	16.75	15.10	12.60
MR1241SL	MOT	54	16.75	15.10	12.60
MR1241SLR	MOT	54	16.75	15.10	12.60
MR1243FB	MOT	54	19.35	17.45	14.55
MR1243FBR	MOT	54	19.35	17.45	14.55
MR1243FL	MOT	54	18.70	16.85	14.05
MR1243FLR	MOT	54	18.70	16.85	14.05
MR1243SB	MOT	54	20.00	18.05	15.05
MR1243SBR	MOT	54	20.00	18.05	15.05
MR1243SL	MOT	54	19.50	17.60	14.65
MR1243SLR	MOT	54	19.50	17.60	14.65
MR1245FB	MOT	54	23.60	21.30	17.75
MR1245FBR	MOT	54	23.60	21.30	17.75
MR1245FL	MOT	54	22.95	20.70	17.25
MR1245FLR	MOT	54	22.95	20.70	17.25
MR1245SB	MOT	54	24.25	21.90	18.25
MR1245SBR	MOT	54	24.25	21.90	18.25
MR1245SL	MOT	54	23.75	21.40	17.85
MR1245SLR	MOT	54	23.75	21.40	17.85
MR1247FB	MOT	54	26.60	24.00	20.00
MR1247FBR	MOT	54	26.60	24.00	20.00
MR1247FL	MOT	54	25.95	23.40	19.50
MR1247FLR	MOT	54	25.95	23.40	19.50
MR1247SB	MOT	..	27.25	24.60	20.50

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
MR1247SBR	MOT	..	27.25	24.60	20.50
MR1247SL	MOT	54	27.25	24.60	20.50
MR1247SLR	MOT	54	27.25	24.60	20.50
MR1248FB	MOT	..	42.55	38.40	32.00
MR1248FL	MOT	..	39.90	36.00	30.00
MR1248SB	MOT	..	45.20	40.80	34.00
MR1248SL	MOT	..	42.55	38.40	32.00
MR1249FB	MOT	..	68.35	57.60	48.00
MR1249FL	MOT	..	61.20	55.20	46.00
MR1249SB	MOT	..	66.50	60.00	50.00
MR1249SL	MOT	..	63.85	57.60	48.00
MR1260FL	MOT	54	28.60	25.80	21.50
MR1260FLR	MOT	54	28.60	25.80	21.50
MR1261FL	MOT	54	36.55	33.00	27.50
MR1261FLR	MOT	54	36.55	33.00	27.50
MR1263FL	MOT	54	55.20	49.80	41.50
MR1263FLR	MOT	54	55.20	49.80	41.50
MR1265FL	MOT	54	61.20	55.20	46.00
MR1265FLR	MOT	54	61.20	55.20	46.00
MR1267FL	MOT	54	67.85	61.20	51.00
MR1267FLR	MOT	54	67.85	61.20	51.00
MR1268FL	MOT	..	82.45	74.40	62.00
MR1269FL	MOT	...	99.75	90.00	75.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
MR1337-1	MOT	53	3.35	2.25
MR1337-2	MOT	53	4.95	3.30
MR1337-3	MOT	53	6.75	4.50
MR1337-4	MOT	53	9.00	6.00
MR1337-5	MOT	53	12.00	8.00
MRK-200	MOT	46	94.50	94.50
MS-10	MOT	51	2.10	1.75
MS-15	MOT	51	2.10	1.75

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 26 MR991 MOT

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-99	100-999
MSD6100	MOT	..	1.12	.75
			1000-4999 Ea.,	.56
			5000-up, Ea.,	.52
MT-32	MOT	.	1.00	.67

Type No.	Mfr.	Page No.	EACH 1-99	100-Up
MV830	MOT	51	1.35	.90
MV831	MOT	51	1.35	.90
MV832	MOT	51	1.35	.90
MV833	MOT	51	1.35	.90
MV834	MOT	51	1.35	.90
MV835	MOT	..	1.35	.90
MV836	MOT	51	1.35	.90
MV837	MOT	51	1.35	.90
MV838	MOT	51	1.35	.90
MV839	MOT	51	1.35	.90
MV840	MOT	51	1.35	.90
MV1864A	MOT	..	12.00	8.00
MV1872	MOT	..	10.50	7.00
MV1876	MOT	..	10.50	7.00
MV1892	MOT	..	42.00	28.00
MZK100	MOT	45	Each,	79.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-4999
OMC7111	OHM	85	1.98	1.49	1.24

Type No.	Mfr.	Page No.	EACH 1-99	100-999
PC112	TRW	87	9.00	6.75
PC113	TRW	87	9.00	6.75
PC115	TRW	87	12.00	9.00
PC116	TRW	87	12.00	9.00
PC117	TRW	87	30.00	22.50
PC126	TRW	87	12.00	9.00
PC130	TRW	87	20.00	15.00
PC132	TRW	87	7.35	5.50
PC133	TRW	87	7.35	5.50
PC135	TRW	87	12.00	9.00
PC136	TRW	87	10.00	7.50
PC137	TRW	87	18.00	13.50
Q1B	IR	80	.55	.33
Q1H	IR	80	.38	.23
Q4B	IR	80	1.56	.94
RA1	GE	68	4.50	3.00
RA1A	GE	68	7.95	5.30
RA1B	GE	68	14.10	9.40
RA1C	GE	68	27.75	18.50
RA2	GE	68	7.95	5.30
RA2A	GE	68	22.50	15.00
RA2B	GE	68	49.50	33.00
RA3	GE	68	8.25	5.50
RA3A	GE	68	23.40	15.60
RA3B	GE	68	54.00	36.00

Type No.	Mfr.	Page No.	EACH 1-9	10-Up
S26	GE	73	9.95	8.30
S27	GE	73	11.30	9.45

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-499
S-256C	ST	..	1.90	1.71	1.52
S-487C	ST	..	1.79	1.61	1.43
S-490	ST	..	1.83	1.65	1.46
S-490A	ST	..	2.62	2.36	2.10
S-490C	ST	..	4.61	4.15	3.69
S-493	ST	..	3.11	2.80	2.49
S-493C	ST	..	8.37	7.53	6.70

semiconductor directory

SEE PAGE 31 FOR INTEGRATED CIRCUITS

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
S-5130	ST	86	22.50	19.30	18.00
S-5343	ST	86	18.10	15.50	14.50
S-5991	ST	86	3.50	3.00	2.80

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
SC40B	GE	73	3.81	3.81	2.54
SC40D	GE	73	5.85	5.85	3.90
SC41B	GE	73	3.36	3.36	2.24
SC41D	GE	73	5.40	5.40	3.60
SC45B	GE	73	4.32	4.32	2.88
SC45D	GE	73	6.85	6.85	4.57
SC46B	GE	73	3.87	3.87	2.58
SC46D	GE	73	6.40	6.40	4.27
SCR-01	IR		3.90	3.51	2.83
SCR-02	IR	..	5.75	5.17	4.18
SCR-03	IR	.	5.75	5.17	4.18
SCR-04	IR		7.50	6.75	5.45

Type No.	Mfr.	Page No.	EACH 1-99	100-999
SD-91	IR	81	.53	.35
SD-91A	IR	81	.59	.39
SD-92	IR	81	.63	.42
SD-92A	IR	81	.68	.46
SD-93	IR	81	.73	.52
SD-93A	IR	81	.86	.57
SD-94	IR	81	.89	.60
SD-94A	IR	81	.96	.64
SD-95	IR	81	.99	.67
SD-95A	IR	81	1.06	.71

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SID2A-1	SYL	85	4.40	3.90	3.25
SID2A-3	SYL	85	5.70	5.00	4.15
SID3A-1	SYL	85	6.40	5.60	4.65
SID2B-3	SYL	85	4.40	3.90	3.25

Type No.	Mfr.	Page No.	1-99 EACH
SK-3003	RCA	..	.99
SK-3004	RCA	.	.99
SK-3005	RCA	..	1.17
SK-3006	RCA	..	1.26
SK-3007	RCA	..	1.26
SK-3008	RCA	..	1.23
SK-3009	RCA	..	2.34
SK-3010	RCA	..	1.26
SK-3011	RCA	..	1.62
SK-3012	RCA	..	4.38
SK-3013	RCA	..	4.68
SK-3014	RCA	..	3.15
SK-3015	RCA	..	6.30
SK-3016	RCA	..	.63
SK-3017	RCA	..	.72

Type No.	Mfr.	Page No.	EACH 1-99	100-999
SL100	NSC	..	.75	1.50
SL201	NSC	..	1.35	.90
SL300	NSC	..	.66	.44

Type No.	Mfr.	Page No.	EACH 1-99	100-999
SR200B	SYL	84	.65	.42
SR500B	SYL	84	.68	.45
SR1692	SYL	84	.61	.41
SR1693	SYL	84	.64	.43
SR1694	SYL	84	.68	.45
SSD-974	GE	68	.30	.20
ST-2	GE	73	1.02	.68

Type No.	Mfr.	Page No.	EACH 1-9	10-99
ST-14C	IR	80	5.95	5.05

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-499
ST-610P	ST	86	11.20	9.60	8.96
ST-620P	ST	86	12.20	10.45	9.79
ST-640P	ST	86	18.80	16.07	15.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TD-9	GE	69	4.00	2.65
TD-251A	GE	69	12.00	8.00
TD-252A	GE	69	12.00	8.00
TD-253A	GE	69	9.00	6.00
TD-253B	GE	69	12.00	8.00
TD-254A	GE	69	12.00	8.00
TD-255	GE	...	7.50	5.00
TD-255A	GE	69	12.00	8.00
TD-256A	GE	69	12.00	8.00
TD-554	GE	.	Use 1N3118	

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TI-6	TI	..	.38	.31
TI-7	TI	..	.41	.34
TI-8	TI	..	.49	.40
TI-9	TI	..	.55	.46
TI-10	TI	..	.68	.56
TI-40A0	TI	64	1.70	1.18
TI-40A1	TI	64	2.40	1.60
TI-40A2	TI	64	2.05	1.52
TI-40A3	TI	64	3.65	2.45
TI-40A4	TI	64	5.50	3.55
TI-42	TI	64	.87	.58
TI-43	TI	64	1.02	.68
TI-51	TI	62	.39	.30
TI-52	TI	62	.44	.34
TI-53	TI	62	.47	.36
TI-54	TI	62	.57	.44
TI-55	TI	62	.65	.50
TI-56	TI	62	.73	.56
TI-57	TI	62	.81	.62
TI-58	TI	62	.88	.68
TI-59	TI	62	.96	.74
TI-60	TI	62	.99	.76
TI-71	TI	..	.76	.65
TI-73	TI	..	1.03	.85
TI-145A0	TI	64	2.25	1.50
TI-145A1	TI	64	2.40	1.60
TI-145A2	TI	64	2.70	1.80
TI-145A3	TI	64	3.65	2.45
TI-145A4	TI	64	5.50	3.70
TI-400	TI	.	.89	.59
TI-401	TI	..	.71	.37
TI-402	TI	..	.71	.47
TI-403	TI	..	.72	.48
TI-407	TI	..	.73	.49
TI-408	TI	..	.69	.46
TI-409	TI	..	.61	.41
TI-412	TI	..	Use 2N3704	
TI-413	TI	..	Use 2N3705	
TI-414	TI	..	Use 2N3706	
TI-415	TI	..	Use 2N3707	
TI-416	TI	..	Use 2N3708	
TI-417	TI	..	Use 2N3710	
TI-418	TI	.	Use 2N3711	

Type No.	Mfr.	Page No.	EACH 1-99	100-999	1000-4999
TI-480	TI	..	1.55	1.20	1.02
TI-481	TI	..	1.90	1.45	1.23
TI-482	TI	..	2.15	1.65	1.40
TI-483	TI	..	2.40	1.85	1.57
TI-484	TI	..	2.95	2.25	1.91
TI-485	TI	56	3.25	2.50	....
TI-486	TI	59	4.90	3.25	....
TI-487	TI	59	5.60	3.75	....
TI-492	TI	..	1.55	1.20	1.02
TI-493	TI	..	1.90	1.45	1.23
TI-494	TI	..	2.50	1.90	1.61
TI-495	TI	..	3.00	2.30	1.96
TI-496	TI	..	1.75	1.35	1.15
TI-550	TI	63	8.60	6.50	....
TI-551	TI	63	9.60	7.50	....

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TI-874	TI	56	4.90	2.70
TI-1121	TI	59	18.00	12.00
TI-1122	TI	59	16.30	10.85
TI-1123	TI	59	14.30	9.55
TI-1124	TI	59	12.70	8.45
TI-1125	TI	59	9.50	6.35
TI-1126	TI	59	8.65	5.75
TI-1131	TI	59	18.15	12.25
TI-1132	TI	59	16.65	11.10
TI-1133	TI	59	14.70	9.80
TI-1134	TI	59	13.05	8.70
TI-1135	TI	59	9.90	6.60
TI-1136	TI	59	9.00	6.00
TI-1141	TI	59	22.20	14.80
TI-1142	TI	59	20.40	13.60
TI-1143	TI	59	19.95	13.30
TI-1144	TI	59	17.40	11.60
TI-1145	TI	59	14.85	9.90
TI-1146	TI	59	12.75	8.50
TI-1151	TI	59	22.95	15.30
TI-1152	TI	59	21.15	14.10
TI-1153	TI	59	19.70	13.80
TI-1154	TI	59	18.15	12.10
TI-1155	TI	59	15.60	10.40
TI-1156	TI	59	13.50	9.00
TI-3010	TI	64	1.73	1.30
TI-3011	TI	64	1.93	1.45
TI-3012	TI	64	2.15	1.60
TI-3013	TI	64	2.93	2.20
TI-3014	TI	64	4.66	3.50
TI-3027	TI	61	1.35	.80
TI-3028	TI	61	1.45	.95
TI-3029	TI	61	1.65	1.10
TI-3030	TI	61	1.90	1.25
TI-3031	TI	61	2.05	1.35
TI-3033	TI	.	Use 2N3418	
TI-3034	TI	..	Use 2N3419	
TI-3035	TI	..	Use 2N3420	
TI-3036	TI	..	Use 2N3421	
TI-3037	TI	..	9.00	6.40

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TI-3038	TI	64	10.00	7.00
TI-3039	TI	64	14.00	9.35
TI-3040	TI	64	19.00	13.50
TI-3041	TI	64	29.25	19.50
TI-3042	TI	64	44.65	29.75
TIA01	TI	60	.47	.31
TIA02	TI	60	.50	.33
TIA03	TI	60	.35	.23
TIA04	TI	60	.36	.24
TIA05	TI	60	.32	.21

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
TIC01	TI	64	126.00	97.00	84.00
TIC02	TI	64	156.00	124.00	103.00
TIC03	TI	64	212.00	169.00	129.00
TIC04	TI	64	239.00	188.00	152.00
TIC05	TI	64	432.00	327.00	279.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TIC20	TI	64	6.82	4.55
TIC21	TI	64	7.50	5.00
TIC22	TI	64	6.98	4.65
TIC23	TI	64	7.66	5.11
TID31	TI	..	4.25	2.85
TID32	TI	..	4.00	2.60
TID33	TI	..	3.75	2.35
TID34	TI	..	3.50	2.10
TID35	TI	..	3.25	1.90
TID36	TI	..	2.35	1.80
TID37	TI	..	2.20	1.70
TID40	TI	63	1.67	1.45
TID41	TI	63	1.58	1.39
TID42	TI	63	1.65	1.45
TID43	TI	63	1.83	1.61
TID44	TI	63	1.92	1.69
TIP04	TI	59	10.75	7.95
TIP14	TI	55	1.50	.95
TIP24	TI	..	1.50	.95
TIS03	TI	..	Use 2N3702	
TIS04	TI	..	Use 2N3703	
TIS05	TI	..	30.00	20.00
TIS22	TI	58	4.20	2.80
TIS23	TI	58	4.65	3.20
TIS24	TI	58	6.45	4.30
TIS25	TI	..	34.60	22.50
TIS26	TI	..	32.70	21.80
TIS27	TI	..	30.15	20.50
TIS37	TI	55	.88	.59
TIS38	TI	55	.83	.55
TIS43	TI	..	1.08	.72
TIS44	TI	55	.49	.37
TIS45	TI	55	.60	.45
TIS46	TI	55	.63	.47
TIS47	TI	55	.60	.45
TIS48	TI	55	.60	.48
TIS49	TI	55	.75	.55
TIS50	TI	..	.76	.51
TIS51	TI	55	.63	.48
TIS52	TI	55	.65	.49
TIS53	TI	55	.60	.43
TIS54	TI	55	.67	.46
TIS55	TI	55	.60	.46
TIV300	TI	63	1.00	.80
TIV301	TI	63	1.00	.80
TIV302	TI	63	1.25	1.00
TIV303	TI	63	1.25	1.00
TIV305	TI	63	3.25	1.75

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
TIX3016A	TI	..	50.00	43.50	29.00

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-499
TIXD17	TI	..	4.38	2.92	2.10
TIXD18	TI	..	3.10	2.05	1.50
TIXD19	TI	..	4.38	2.92	2.10
TIXD20	TI		3.10	2.05	1.50
TIXD21	TI	63	25.00	16.80	12.10
TIXD22	TI	63	22.50	15.00	11.00
TIXD23	TI	63	25.00	16.80	12.10
TIXD24	TI	63	22.50	15.00	11.00
TIXD25	TI	63	54.00	36.00	26.20
TIXD26	TI	63	46.50	31.00	22.50

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TIXD746	TI	63	3.20	2.70
TIXD753	TI	63	3.20	2.70
TIXD754	TI	63	3.20	2.70
TIXD757	TI	63	3.20	2.70
TIXD759	TI	63	3.20	2.70
TIXL01	TI	63	26.00	19.00
TIXL02	TI	63	49.50	38.00
TIXL101	TI	63	42.00	34.00
TIXM01	TI	55	.51	.34
TIXM02	TI	55	.46	.31

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TIXM03	TI	55	.39	.26
TIXM04	TI	55	.48	.32
TIXM05	TI	..	.52	.35
TIXM06	TI	..	.49	.33
TIXM07	TI	..	.39	.26
TIXM08	TI	..	.51	.34
TIXM10	TI	..	.52	.35
TIXM11	TI	..	.49	.33
TIXM101	TI	60	19.00	12.65
TIXM103	TI	60	82.50	55.00
TIXM104	TI	60	52.50	35.00
TIXM201	TI	..	.47	.31
TIXM202	TI	..	.41	.27
TIXM203	TI	..	.39	.26
TIXM204	TI	..	.41	.27
TIXM205	TI	..	.38	.25
TIXM206	TI	..	.38	.25
TIXM301	TI	..	12.90	8.60
TIXS05	TI	57	30.00	20.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
TICS09	TI	56	35.00	29.40	19.66
TIXS10	TI	56	15.00	11.85	7.90
TIXS12	TI	56	155.00	128.00	105.00
TIXS13	TI	56	125.00	100.00	85.00

Type No.	Mfr.	Page No.	EACH 1-99	100-999
TIXS33	TI	57	33.60	22.50
TIXS34	TI	57	4.50	2.80
TIXS35	TI	56	39.30	26.50
TIXS36	TI	56	36.30	24.50
TIXS39	TI	56	8.25	5.50
TIXS41	TI	57	19.90	13.35
TIXS42	TI	55	7.95	6.50
TN53	SPR	83	.95	.63
TN54	SPR	83	.95	.63
TN55	SPR	83	1.35	.90
TN56	SPR	83	1.35	.90
TN59	SPR	83	.65	.43
TN60	SPR	83	.65	.43
TN61	SPR	83	.65	.43
TN62	SPR	83	.65	.43
TN63	SPR	83	.45	.30
TN64	SPR	83	.45	.30
TQ55	SPR	83	2.95	1.95
TQ56	SPR	83	2.95	1.95
TQ59	SPR	83	1.45	.90
TQ60	SPR	83	1.45	.90
TQ61	SPR	83	1.20	.80
TQ62	SPR	83	1.20	.80
TQ63	SPR	83	.83	.55
TQ64	SPR	83	.83	.55

Type No.	Mfr.	Page No.	EACH 1-9	10-99
TR01-C	IR	..	.85	.76
TR02-C	IR	..	.75	.67
TR03-C	IR	..	1.50	1.35
TR04-C	IR	..	.66	.59
TR05-C	IR	..	.99	.89
TR06-C	IR	..	.85	.76
TR07-C	IR	..	.85	.76
TR08-C	IR	..	.92	.83
TR09-C	IR	..	.92	.83
TR10-C	IR	..	.75	.67
TR11-C	IR	..	.75	.67
TR12-C	IR	..	.85	.76
TR13-C	IR	..	.75	.67
TR14-C	IR	..	1.01	.99
TR15-C	IR	..	1.10	.99
TR16-C	IR	..	1.42	1.28
TR17-C	IR	..	1.10	.99
TR18-C	IR	..	2.37	2.05

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
U18C0.5	GE	71	.95	.75	.62
U18C1.5	GE	71	1.40	1.12	.93
U18C5	GE	71	3.45	2.76	2.30
U18C10.0	GE	71	4.85	3.88	3.23
U18C20.0	GE	71	7.45	5.97	4.98
U130H0.065	GE	71	.30	.23	.19
U130H0.075	GE	71	.45	.37	.31
U130H0.15	GE	71	.60	.47	.39
U130H0.5	GE	71	.95	.77	.66
U144B0.5	GE	71	5.50	4.45	3.68
U144B1.5	GE	71	8.10	6.50	5.38

Type No.	Mfr.	Page No.	EACH 1-99	100-999
U-212	TI	..	.45	.30
U-213	TI	..	.63	.42
U-214	TI	..	.90	.60
UD2118	SPR	83	18.00	12.00
UD2119	SPR	83	15.00	10.00
UD2120	SPR	83	13.50	9.00
UD2121	SPR	83	10.50	7.00
V7E	TRW	87	3.05	2.30
V12E	TRW	87	3.05	2.30
V15E	TRW	87	3.05	2.30
V20E	TRW	87	3.05	2.30
V27E	TRW	87	3.05	2.30
V33E	TRW	87	3.05	2.30
V39E	TRW	87	3.05	2.30
V47E	TRW	87	3.05	2.30
V56E	TRW	87	3.05	2.30
V68E	TRW	87	3.05	2.30
V82E	TRW	87	3.05	2.30
V100E	TRW	87	3.05	2.30

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
VR6	ST	86	.95	.80	.75
VR6A	ST	86	1.00	.86	.80
VR7	ST	86	.95	.80	.75
VR7A	ST	86	1.00	.86	.80
VR8.5	ST	86	.95	.80	.75
VR8.5A	ST	86	1.00	.86	.80
VR10	ST	86	.95	.80	.75
VR10A	ST	86	1.00	.86	.80
VR12	ST	86	.95	.80	.75
VR12A	ST	86	1.00	.86	.80
VR14	ST	86	.95	.80	.75
VR14A	ST	86	1.00	.86	.80
VR18	ST	86	.95	.80	.75
VR18A	ST	86	1.00	.86	.80
VR20	ST	86	.95	.80	.75
VR20A	ST	86	1.00	.86	.80
VR24	ST	86	.95	.80	.75
VR24A	ST	86	1.00	.86	.80
VR28	ST	86	.95	.80	.75
VR28A	ST	86	1.00	.86	.80
VR33	ST	86	.95	.80	.75
VR33A	ST	86	1.00	.86	.80
VR39	ST	86	.95	.80	.75
VR39A	ST	86	1.00	.86	.80
VR47	ST	86	.95	.80	.75
VR47A	ST	86	1.00	.86	.80
VR56	ST	86	.95	.80	.75
VR56A	ST	86	1.00	.86	.80
VR67	ST	86	.95	.80	.75
VR67A	ST	86	1.00	.86	.80
VR80	ST	86	.95	.80	.75
VR80A	ST	86	1.00	.86	.80
VR90	ST	86	.95	.80	.75
VR90A	ST	86	1.00	.86	.80
VR105	ST	86	.95	.80	.75
VR105A	ST	86	1.00	.86	.80
VR110	ST	86	.95	.80	.75
VR110A	ST	86	1.00	.86	.80
VR120	ST	86	.95	.80	.75
VR120A	ST	86	1.00	.86	.80
VR130	ST	86	.95	.80	.75
VR130A	ST	86	1.00	.86	.80
VR150	ST	86	.95	.80	.75
VR150A	ST	86	1.00	.86	.80
VR160	ST	86	.95	.80	.75
VR160A	ST	86	1.00	.86	.80

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering your selection, please specify department number, then the manufacturer's type number or JEDEC type number and name.

Example: 49 D 32 TIXM03 TI

Dept. No.	Mfr.	Name
49 D 1	RCA	Radio Corporation of America
49 D 3	GE	General Electric
49 D 12	SYL	Sylvania
49 D 22	CO	Conant
49 D 23	HUG	Hughes Aircraft
49 D 24	IR	International Rectifier
49 D 25	MIC	Microwave Associates
49 D 26	MOT	Motorola
49 D 29	OHM	Ohmite
49 D 30	SPR	Sprague
49 D 31	ST	Sarkes Tarzian
49 D 32	TI	Texas Instruments
49 D 33	TRW	Pacific Semiconductor (Thompson Ramo Woolridge)
49 D 34	VA	Varo
49 D 36	IRC	International Resistance Corp.
49 D 37	NSC	National Semiconductor Corp.

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
VR200	ST	86	.95	.80	.75
VR200A	ST	86	1.00	.86	.80

Type No.	Mfr.	Page No.	EACH 1-99	100-999
VS247	VA	85	1.20	1.10
VS248	VA	85	1.10	1.00
VS447	VA	85	1.30	1.20
VS448	VA	85	1.20	1.10
Z4X5.1B	GE	70	2.40	1.60
Z4XL6.2	GE	70	.75	.50
Z4XL6.2B	GE	70	.84	.56
Z4XL7.5	GE	70	.75	.50
Z4XL7.5B	GE	70	.84	.56
Z4XL9.1	GE	70	.75	.50
Z4XL9.1B	GE	70	.84	.56
Z4XL12	GE	70	.75	.50
Z4XL12B	GE	70	.84	.56
Z4XL14	GE	70	.75	.50
Z4XL14B	GE	70	.84	.56
Z4XL16	GE	70	.75	.50
Z4XL16B	GE	70	.84	.56
Z4XL18	GE	70	.75	.50
Z4XL18B	GE	70	.84	.56
Z4XL20	GE	70	.75	.50
Z4XL20B	GE	70	.84	.56
Z4XL22	GE	70	.75	.50
Z4XL22B	GE	70	.84	.56
Z4XL24	GE	70	.75	.50

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-999
Z1122	IR	..	1.50	1.35	1.08
Z1126	IR	..	1.50	1.35	1.08
Z1130	IR	..	1.50	1.35	1.08
Z1134	IR	..	1.50	1.35	1.08
Z1138	IR	..	1.85	1.66	1.33
Z1300	IR	..	2.70	2.43	1.94
Z1304	IR	..	2.35	2.11	1.69
Z1308	IR	..	2.35	2.11	1.69
Z1310	IR	..	2.35	2.11	1.69
Z1314	IR	..	2.35	2.11	1.69
Z1318	IR	..	2.35	2.11	1.69
Z1322	IR	..	2.35	2.11	1.69
Z1326	IR	..	2.35	2.11	1.69
Z1330	IR	..	2.35	2.11	1.69
Z1334	IR	..	2.35	2.11	1.69
Z1338	IR	..	2.35	2.11	1.69

INTEGRATED CIRCUIT DIRECTORY

Type No.	Mfr.	Page No.	EACH 1-9	10-99	100-499
4JPA107	GE	41	95.60	63.75	42.50
4JPA108	GE	41	27.55	18.35	12.25
4JPA113	GE	41	15.15	10.10	6.75
4JPA114	GE	41	17.30	11.55	7.70
4JPA116	GE	41	73.10	48.75	32.50
4JPA135	GE	41	77.10	51.40	34.25
4JPA345	GE	41	44.75	29.95	19.90
4JPA358	GE	41	39.40	26.25	17.50
4JPA908	GE	41	9.65	6.45	4.30
4JPA909	GE	41	9.65	6.45	4.30

Type No.	Mfr.	Page No.	EACH 1-99	100-999
12X207-1	GE	41	75.00	50.00
12X207-2	GE	41	60.40	40.00
12X218	GE	41	82.50	55.00
12X257	GE	41	45.00	30.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
72-KD	TI	..	49.50	49.50	49.50
73-KD	TI	..	49.50	49.50	49.50
74-KD	TI	..	49.50	49.50	49.50
CA3000	RCA	37	6.80	5.55	4.70
CA3001	RCA	37	6.40	5.20	4.40
CA3002	RCA	37	4.40	3.60	3.05
CA3004	RCA	37	4.40	3.60	3.05
CA3005	RCA	37	4.80	3.90	3.30
CA3006	RCA	37	6.80	5.55	4.70
CA3007	RCA	37	6.00	4.90	4.15
CA3008	RCA	37	13.60	11.05	9.35
CA3010	RCA	37	12.00	9.75	8.25
CA3011	RCA	37	2.00	1.65	1.40
CA3012	RCA	37	2.25	1.85	1.55
CA3013	RCA	37	2.65	2.15	1.85
CA3014	RCA	37	3.15	2.55	2.15
CD2100	RCA	37	6.00	4.90	4.15
CD2101	RCA	37	6.35	5.15	4.35

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering integrated circuits, please specify department number, then the manufacturer's type number and name.

Example: 50 D 1 CA3000 RCA

Dept. No.	Mfr.	Name
50 D 1	RCA	Radio Corporation of America
50 D 3	GE	General Electric
50 D 12	SYL	Sylvania
50 D 26	MOT	Motorola
50 D 32	TI	Texas Instruments

integrated circuit directory

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
CD2150	RCA	37	5.20	4.25	3.60
CD2151	RCA	37	5.20	4.25	3.60
CD2152	RCA	37	5.20	4.25	3.60
CD2200	RCA	37	6.00	4.90	4.15
CD2201	RCA	37	6.35	5.15	4.35
CD2203	RCA	37	8.00	6.50	5.50
MC201F	MOT	34	15.25	13.65	12.10
MC201G	MOT	34	13.25	11.65	10.60
MC202F	MOT	34	14.00	12.55	11.10
MC202G	MOT	34	12.00	10.55	9.60
MC203F	MOT	34	11.20	10.10	8.85
MC203G	MOT	34	9.20	8.10	7.35
MC204F	MOT	34	19.15	17.05	15.20
MC204G	MOT	34	17.15	15.05	13.70
MC205F	MOT	34	20.05	17.90	15.95
MC205G	MOT	34	18.05	15.90	14.45
MC206F	MOT	34	18.55	16.60	14.75
MC206G	MOT	34	16.55	14.60	13.25
MC207F	MOT	34	19.15	17.05	15.20
MC207G	MOT	34	17.15	15.05	13.70
MC208F	MOT	34	19.15	17.05	15.20
MC208G	MOT	34	17.15	15.05	13.70
MC209F	MOT	34	24.20	21.50	19.25
MC209G	MOT	34	22.20	19.50	17.75
MC212F	MOT	34	20.10	17.95	16.00
MC212G	MOT	34	18.10	15.95	14.50
MC213F	MOT	34	20.10	17.95	16.00
MC213G	MOT	34	18.10	15.95	14.50
MC215F	MOT	34	11.75	10.60	9.30
MC215G	MOT	34	9.75	8.60	7.80
MC217F	MOT	34	10.30	9.30	8.15
MC217G	MOT	34	8.30	7.30	6.65
MC251F	MOT	34	6.40	5.85	5.00
MC251G	MOT	34	4.40	3.85	3.50
MC252F	MOT	34	6.05	5.60	4.75
MC252G	MOT	34	4.05	3.60	3.25
MC253F	MOT	34	5.10	4.75	4.00
MC253G	MOT	34	3.10	2.75	2.50
MC254F	MOT	34	7.80	7.10	6.15
MC254G	MOT	34	5.80	5.10	4.65
MC255F	MOT	34	8.00	7.30	6.30
MC255G	MOT	34	6.00	5.30	4.80
MC256F	MOT	34	7.60	6.95	6.00
MC256G	MOT	34	5.60	4.95	4.50
MC257F	MOT	34	7.80	7.10	6.15
MC257G	MOT	34	5.80	5.10	4.65
MC258F	MOT	34	7.80	7.10	6.15
MC258G	MOT	34	5.80	5.10	4.65
MC259F	MOT	34	11.95	10.75	9.45
MC259G	MOT	34	9.95	8.75	7.95
MC260F	MOT	34	12.50	11.30	9.95
MC260G	MOT	34	10.50	9.30	8.45
MC262F	MOT	34	8.00	7.30	6.30
MC262G	MOT	34	6.00	5.30	4.80
MC263F	MOT	34	8.00	7.30	6.30
MC263G	MOT	34	6.00	5.30	4.80
MC265F	MOT	34	5.30	4.90	4.15
MC265G	MOT	34	3.30	2.90	2.65
MC267F	MOT	34	4.80	4.50	3.75
MC267G	MOT	34	2.80	2.50	2.25
MC281G	MOT	34	18.75	16.50	15.00
MC282G	MOT	34	22.50	19.80	18.00
MC284G	MOT	34	16.85	14.85	13.50
MC301F	MOT	34	15.15	13.55	12.00
MC301G	MOT	34	12.65	10.15	8.45
MC302F	MOT	34	14.85	11.90	9.90
MC302G	MOT	34	13.70	11.00	9.15
MC303F	MOT	34	16.70	13.40	11.15
MC303G	MOT	34	15.60	12.50	10.40
MC304F	MOT	34	8.40	6.70	5.60
MC304G	MOT	34	7.90	6.95	6.30
MC305F	MOT	34	8.40	6.70	5.60
MC305G	MOT	34	7.25	5.80	4.85
MC306F	MOT	34	11.30	9.05	7.55
MC306G	MOT	34	10.20	8.15	6.80
MC307F	MOT	34	11.30	9.05	7.55
MC307G	MOT	34	10.20	8.15	6.80
MC308F	MOT	34	18.80	15.05	12.55
MC308G	MOT	34	17.70	14.15	11.80
MC309F	MOT	34	13.70	11.00	9.15
MC309G	MOT	34	12.60	10.10	8.40
MC310F	MOT	34	13.70	11.00	9.15
MC310G	MOT	34	12.60	10.10	8.40
MC311F	MOT	34	13.70	11.00	9.15
MC311G	MOT	34	12.60	10.10	8.40
MC312F	MOT	34	16.70	13.40	11.15
MC312G	MOT	34	15.50	12.50	10.40
MC315G	MOT	34	23.25	18.60	15.50
MC351F	MOT	34	6.55	6.00	5.15
MC351G	MOT	34	4.55	4.00	3.65
MC352F	MOT	34	6.55	6.00	5.15
MC352G	MOT	34	4.55	4.00	3.65
MC353F	MOT	34	7.95	7.20	6.25
MC353G	MOT	34	5.95	5.20	4.75
MC354F	MOT	34	4.45	4.15	3.45
MC354G	MOT	34	2.45	2.15	1.95
MC355F	MOT	34	4.80	4.45	3.75
MC355G	MOT	34	2.80	2.45	2.25
MC356F	MOT	34	5.55	5.15	4.35
MC356G	MOT	34	3.55	3.15	2.85
MC357F	MOT	34	5.55	5.15	4.35
MC357G	MOT	34	3.55	3.15	2.85
MC358F	MOT	34	11.50	10.35	9.10
MC358G	MOT	34	9.50	8.35	7.60
MC359F	MOT	34	5.70	5.25	4.45
MC359G	MOT	34	3.70	3.25	2.95
MC360F	MOT	34	5.70	5.25	4.45
MC360G	MOT	34	3.70	3.25	2.95
MC361F	MOT	34	5.70	5.25	4.45
MC361G	MOT	34	3.70	3.25	2.95
MC362F	MOT	34	7.00	6.40	5.50
MC362G	MOT	34	5.00	4.40	4.00
MC365F	MOT	34	11.20	10.10	8.85
MC365G	MOT	34	9.20	8.10	7.35
MC650G	MOT	39	8.65	7.60	6.90
MC652G	MOT	39	12.00	10.50	9.55
MC700G	MOT	36	3.20	2.80	2.55
MC701G	MOT	36	4.75	4.20	3.80
MC702G	MOT	36	4.00	3.50	3.20
MC703G	MOT	36	3.20	2.80	2.55
MC704G	MOT	36	3.30	2.90	2.65
MC705G	MOT	36	5.45	4.80	4.35
MC706G	MOT	36	4.55	4.00	3.65
MC707G	MOT	36	3.30	2.90	2.65
MC708G	MOT	35	4.70	4.10	3.75
MC709G	MOT	35	3.20	2.80	2.55
MC710G	MOT	35	3.30	2.90	2.65
MC711G	MOT	35	3.30	2.90	2.65
MC712G	MOT	35	4.55	4.00	3.65
MC713G	MOT	35	7.95	7.00	6.35
MC714G	MOT	36	3.30	2.90	2.65
MC715G	MOT	36	4.00	3.50	3.20
MC715P	MOT	36	2.85	2.30	1.90
MC717P	MOT	36	3.35	2.70	2.25
MC718G	MOT	35	4.00	3.50	3.20
MC718P	MOT	36	2.85	2.30	1.90
MC719P	MOT	36	3.35	2.70	2.25
MC720G	MOT	35	7.95	7.00	6.35
MC721G	MOT	35	3.30	2.90	2.65
MC723G	MOT	36	7.95	7.00	6.35
MC723P	MOT	36	4.05	3.25	2.70
MC724P	MOT	36	3.35	2.70	2.25
MC725P	MOT	36	2.25	2.45	2.00
MC726G	MOT	36	8.75	7.70	7.00
MC727G	MOT	36	4.35	3.85	3.50
MC728G	MOT	35	3.50	3.10	2.80
MC729G	MOT	36	3.50	3.10	2.80
MC788P	MOT	36	4.05	3.25	2.70
MC789P	MOT	36	3.35	2.70	2.25
MC790P	MOT	36	5.30	4.25	3.55
MC792P	MOT	36	3.75	3.00	2.50
MC793P	MOT	36	3.75	3.00	2.50
MC798P	MOT	36	4.05	3.25	2.70
MC799G	MOT	36	5.75	5.05	4.60
MC799P	MOT	36	4.05	3.25	2.70
MC800G	MOT	36	3.50	3.10	2.80
MC801G	MOT	36	5.25	4.60	4.20
MC802G	MOT	36	4.45	3.90	3.55
MC803G	MOT	36	3.50	3.10	2.80
MC804G	MOT	36	3.70	3.20	2.95
MC805G	MOT	36	6.05	5.35	4.85
MC806G	MOT	36	5.00	4.40	4.00
MC807G	MOT	36	3.70	3.25	2.95
MC814G	MOT	36	3.70	3.25	2.95
MC815G	MOT	36	4.35	3.85	3.50
MC816G	MOT	36	8.75	7.70	7.00
MC826G	MOT	36	8.75	7.70	7.00
MC827G	MOT	36	4.35	3.85	3.50
MC829G	MOT	36	3.85	3.40	3.10
MC830F	MOT	35	7.20	5.75	4.90
MC830G	MOT	35	6.85	5.45	4.65
MC830P	MOT	..	4.05	3.25	2.70
MC831F	MOT	35	11.40	9.05	7.75
MC831G	MOT	35	10.80	8.60	7.35
MC831P	MOT	..	4.85	3.90	3.25
MC832F	MOT	35	8.25	6.55	5.60
MC832G	MOT	35	7.85	6.25	5.35
MC832P	MOT	..	4.50	3.60	3.00
MC833F	MOT	35	5.00	4.00	3.40
MC833G	MOT	35	4.80	3.80	3.25
MC833P	MOT	..	3.60	2.90	2.40
MC844F	MOT	35	8.10	6.45	5.50
MC844G	MOT	35	7.70	6.15	5.25
MC844P	MOT	..	4.50	3.60	3.00
MC845F	MOT	35	11.40	9.05	7.75
MC845G	MOT	35	10.80	8.60	7.35
MC845P	MOT	..	4.85	3.90	3.25
MC846F	MOT	35	8.10	6.45	5.50
MC846P	MOT	..	4.50	3.60	3.00
MC848F	MOT	35	11.40	9.05	7.75
MC848G	MOT	35	10.80	8.60	7.35
MC848P	MOT	..	4.85	3.90	3.25
MC862F	MOT	35	8.10	6.45	5.50
MC862P	MOT	..	4.50	3.60	3.00
MC899G	MOT	36	6.35	5.60	5.10
MC900G	MOT	35	10.25	9.00	8.20
MC901G	MOT	35	20.00	17.60	16.00
MC902G	MOT	35	11.55	10.15	9.25
MC903G	MOT	35	9.35	8.25	7.50
MC904G	MOT	35	16.85	14.85	13.50
MC905G	MOT	35	18.45	16.20	14.75
MC906G	MOT	35	16.85	14.85	13.50
MC907G	MOT	36	10.00	8.80	8.00
MC908G	MOT	35	24.50	21.20	19.25
MC909G	MOT	35	18.15	15.95	14.50
MC910G	MOT	35	15.30	13.50	12.25
MC911G	MOT	35	15.00	13.20	12.00
MC912G	MOT	35	21.25	18.70	17.00
MC913G	MOT	35	40.95	36.05	32.75
MC914G	MOT	36	11.25	9.90	9.00
MC915G	MOT	36	15.00	13.20	12.00
MC916G	MOT	..	22.50	19.80	18.00
MC918G	MOT	35	15.00	13.20	12.00
MC920G	MOT	35	32.50	28.60	26.00
MC926G	MOT	36	23.10	20.35	18.50
MC927G	MOT	36	23.10	20.35	18.50
MC928G	MOT	35	12.50	11.50	10.00
MC929G	MOT	36	10.50	9.25	8.40
MC930F	MOT	35	15.05	12.00	10.25
MC930G	MOT	35	14.35	11.40	9.75
MC931F	MOT	35	20.20	16.10	13.75
MC931G	MOT	35	19.20	15.25	13.05
MC932F	MOT	35	17.65	14.05	12.00
MC932G	MOT	35	16.75	13.35	11.40
MC933F	MOT	35	7.15	5.70	4.85
MC933G	MOT	35	6.75	5.40	4.60
MC944F	MOT	35	16.90	13.45	11.50
MC944G	MOT	35	16.10	12.80	10.95
MC945F	MOT	35	20.20	16.10	13.75
MC945G	MOT	35	19.20	15.25	13.05
MC946F	MOT	35	16.55	13.15	11.25
MC948F	MOT	35	20.20	16.10	13.75
MC948G	MOT	35	19.20	15.25	13.05
MC962F	MOT	35	16.55	13.15	11.25
MC999G	MOT	36	18.45	16.20	14.75
MC1110	MOT	34	25.00	20.00	15.00
MC1111	MOT	34	43.40	34.60	26.00
MC1112	MOT	34	49.70	39.55	29.75

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-Up
MC1113	MOT	34	54.25	43.20	32.50
MC1114	MOT	34	40.50	32.25	24.25
MC1115	MOT	34	38.00	30.25	22.75
MC1116	MOT	34	29.10	29.10	19.40
MC1117	MOT	34	29.10	29.10	19.40
MC1118	MOT	34	51.60	51.60	34.40
MC1430	MOT	36	18.00	15.00	12.00
MC1431	MOT	36	20.35	16.85	13.50
MC1511	MOT	34	13.45	11.80	10.75
MC1512	MOT	34	15.30	13.50	12.25
MC1519G	MOT	36	50.00	40.00	30.00
MC1524G	MOT	36	70.00	55.00	40.00
MC1525	MOT	36	60.00	48.00	36.00
MC1526	MOT	36	60.00	48.00	36.00
MC1530G	MOT	36	27.00	22.50	18.00
MC1531G	MOT	36	30.00	25.00	20.00

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SA10-02	SYL	42	83.75	72.00	66.00
SA11-02	SYL	42	56.00	48.00	44.00
SA20	SYL	42	15.60	14.40	12.00
SF12-02	SYL	42	9.30	7.40	6.25
SF12-03	SYL	42	9.30	7.40	6.25
SF13-02	SYL	42	6.20	4.95	4.20
SF13-03	SYL	42	6.20	4.95	4.20
SF22-02	SYL	42	12.30	9.80	8.30
SF22-03	SYL	42	12.30	9.80	8.30
SF23-02	SYL	42	8.25	6.55	5.55
SF23-03	SYL	42	8.25	6.55	5.55
SF32-02	SYL	42	12.30	9.80	8.30
SF32-03	SYL	42	12.30	9.80	8.30
SF33-02	SYL	42	8.25	6.55	5.55
SF33-03	SYL	42	8.25	6.55	5.55
SF52-02	SYL	42	13.85	11.05	9.35
SF52-03	SYL	42	13.85	11.05	9.35
SF53-02	SYL	42	9.30	7.40	6.25
SF53-03	SYL	42	9.30	7.40	6.25
SF62-02	SYL	42	13.85	11.05	9.35
SF62-03	SYL	42	13.85	11.05	9.35
SF63-02	SYL	42	9.30	7.40	6.25
SF63-03	SYL	42	9.30	7.40	6.25
SF252-02	SYL	42	15.40	12.30	10.40
SF252-03	SYL	42	15.40	12.30	10.40
SF253-02	SYL	42	10.25	8.20	6.95
SF253-03	SYL	42	10.25	8.20	6.95
SF262-02	SYL	42	15.40	12.30	10.40
SF262-03	SYL	42	15.40	12.30	10.40
SF263-02	SYL	42	10.25	8.20	6.95
SF263-03	SYL	42	10.25	8.20	6.95
SG42-02	SYL	42	9.30	7.40	6.25
SG42-03	SYL	42	9.30	7.40	6.25
SG43-02	SYL	42	6.20	4.95	4.20
SG43-03	SYL	42	6.20	4.95	4.20
SG52-02	SYL	42	9.30	7.40	6.25
SG52-03	SYL	42	9.30	7.40	6.25
SG53-02	SYL	42	6.20	4.95	4.20
SG53-03	SYL	42	6.20	4.95	4.20
SG62-02	SYL	42	9.30	7.40	6.25
SG62-03	SYL	42	9.30	7.40	6.25
SG63-02	SYL	42	6.20	4.95	4.20
SG63-03	SYL	42	6.20	4.95	4.20
SG92-02	SYL	42	12.30	9.80	8.35
SG92-03	SYL	42	12.30	9.80	8.30
SG93-02	SYL	42	8.25	6.55	5.50
SG93-03	SYL	42	8.25	6.55	5.50

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SG102-02	SYL	42	9.30	7.40	6.25
SG102-03	SYL	42	9.30	7.40	6.25
SG103-02	SYL	42	6.20	4.95	4.20
SG103-03	SYL	42	6.20	4.95	4.20
SG112-02	SYL	42	9.30	7.40	6.25
SG112-03	SYL	42	9.30	7.40	6.25
SG113-02	SYL	42	6.20	4.95	4.20
SG113-03	SYL	42	6.20	4.95	4.20
SG122-02	SYL	42	9.30	7.40	6.25
SG122-03	SYL	42	9.30	7.40	6.25
SG123-02	SYL	42	6.20	4.95	4.20
SG123-03	SYL	42	6.20	4.95	4.20
SG132-02	SYL	42	11.35	9.05	7.65
SG132-03	SYL	42	11.35	9.05	7.65
SG133-02	SYL	42	7.50	6.00	5.05
SG133-03	SYL	42	7.50	6.00	5.05
SG142-02	SYL	42	10.25	8.20	6.95
SG142-03	SYL	42	10.25	8.20	6.95
SG143-02	SYL	42	6.85	5.45	4.60
SG143-03	SYL	42	6.85	5.45	4.60
SG152-02	SYL	42	5.85	4.70	3.95
SG152-03	SYL	42	5.85	4.70	3.95
SG153-02	SYL	42	5.85	4.70	3.95
SG153-03	SYL	42	5.85	4.70	3.95
SG162-02	SYL	42	11.35	9.05	7.65
SG162-03	SYL	42	11.35	9.05	7.65
SG163-02	SYL	42	7.50	6.00	5.05
SG163-03	SYL	42	7.50	6.00	5.05
SG172-02	SYL	42	5.15	4.10	3.45
SG172-03	SYL	42	5.15	4.10	3.45
SG173-02	SYL	42	5.15	4.10	3.45
SG173-03	SYL	42	5.15	4.10	3.45
SG182-02	SYL	42	5.15	4.10	3.45
SG182-03	SYL	42	5.15	4.10	3.45
SG183-02	SYL	42	5.15	4.10	3.45
SG183-03	SYL	42	5.15	4.10	3.34
SG192-02	SYL	42	10.25	8.20	6.95
SG192-03	SYL	42	10.25	8.20	6.95
SG193-02	SYL	42	6.85	5.45	4.60
SG193-03	SYL	42	6.85	5.45	4.60
SG212-02	SYL	42	9.30	7.40	6.25
SG212-03	SYL	42	9.30	7.40	6.25
SG213-02	SYL	42	6.20	4.95	4.20
SG213-03	SYL	42	6.20	4.95	4.20
SG222-02	SYL	42	10.25	8.20	6.95
SG222-03	SYL	42	10.25	8.20	6.95
SG223-02	SYL	42	6.85	5.45	4.60
SG223-03	SYL	42	6.85	5.45	4.60
SG232-02	SYL	42	5.85	4.70	3.95
SG232-03	SYL	42	5.85	4.70	3.95
SG233-02	SYL	42	5.85	4.70	3.95
SG233-03	SYL	42	5.85	4.70	3.95
SG242-02	SYL	42	9.30	7.40	6.25
SG242-03	SYL	42	9.30	7.40	6.25
SG243-02	SYL	42	6.20	4.95	4.20
SG243-03	SYL	42	6.20	4.95	4.20
SG252-02	SYL	42	9.30	7.40	6.25
SG252-03	SYL	42	9.30	7.40	6.25
SG253-02	SYL	42	6.20	4.95	4.20
SG253-03	SYL	42	6.20	4.95	4.20
SG262-02	SYL	42	9.30	7.40	6.25
SG262-03	SYL	42	9.30	7.40	6.25
SG263-02	SYL	42	6.20	4.95	4.20
SG263-03	SYL	42	6.20	4.95	4.20
SG272-02	SYL	42	5.15	4.10	3.45
SG272-03	SYL	42	5.15	4.10	3.45
SG273-02	SYL	42	5.15	4.10	3.45
SG273-03	SYL	42	5.15	4.10	3.45

Type No.	Mfr.	Page No.	EACH 1-24	25-249	250-999
SN337A	TI	40	70.00	55.00	....
SN340A	TI	40	53.50	42.50	36.25
SN341A	TI	40	28.00	22.00	....
SN342A	TI	40	84.00	67.00	57.25
SN343A	TI	40	55.00	44.00	....
SN344A	TI	40	58.00	47.00	....
SN346A	TI	40	53.50	42.60	....
SN347A	TI	40	36.00	28.00	....
SN348A	TI	40	69.00	54.75	46.75
SN350A	TI	40	122.00	96.75	82.50
SN352A	TI	40	122.00	96.75	82.50
SN354A	TI	40	145.00	116.00	99.00
SN355A	TI	40	71.00	56.75	48.50
SN359A	TI	40	35.00	27.00	....

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SN510B	TI	39	28.25	22.50	19.20
SN511B	TI	39	31.10	24.75	21.10
SN512B	TI	39	22.30	17.75	15.15
SN513B	TI	39	24.55	19.55	16.65
SN514B	TI	39	22.30	17.75	15.15
SN515B	TI	39	22.30	17.75	15.15
SN516B	TI	39	22.30	17.75	15.15
SN517B	TI	39	29.50	23.50	20.00
SN518B	TI	39	29.50	23.50	20.00
SN521A	TI	40	40.50	32.25	27.50
SN522A	TI	40	40.50	32.25	27.50
SN523A	TI	40	38.95	31.00	26.40
SN523AL	TI	40	38.95	31.00	26.40
SN524A	TI	40	29.25	23.25	19.80
SN524AL	TI	40	29.25	23.25	19.80
SN525A	TI	40	57.00	45.00	38.50
SN526A	TI	40	57.00	45.00	38.50
SN530	TI	39	17.75	14.20	12.20

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SN531	TI	39	11.35	9.00	7.70
SN532	TI	39	11.35	9.00	7.70
SN533	TI	39	11.35	9.00	7.70
SN534	TI	39	11.35	9.00	7.70
SN535	TI	39	11.35	9.00	7.70
SN723	TI	40	27.60	22.00	18.75
SN723L	TI	40	27.60	22.00	18.75
SN724	TI	40	16.20	12.90	11.00
SN724L	TI	40	16.20	12.90	11.00
SN1732A	TI	40	5.25	4.55	3.85
SN1732L	TI	40	5.25	4.55	3.85
SN1733A	TI	40	6.00	5.20	4.40
SN1733L	TI	40	6.00	5.20	4.40
SN1734A	TI	40	7.00	6.05	5.10
SN1734L	TI	40	7.00	6.05	5.10
SN1735A	TI	40	8.20	7.10	6.00
SN1735L	TI	40	8.20	7.10	6.00
SN1761L	TI	40	5.40	4.70	3.95
SN1762L	TI	40	4.95	4.30	3.75
SN1763L	TI	40	4.40	3.85	3.35
SN1764L	TI	40	3.80	3.65	2.80
SN1765L	TI	40	4.40	3.85	3.35
SN1766L	TI	40	4.95	4.30	3.75
SN1767L	TI	40	6.00	5.20	4.40
SN5101B	TI	39	28.25	22.50	19.20
SN5111B	TI	39	31.10	24.75	21.10
SN5112B	TI	39	31.10	24.75	21.10
SN5113B	TI	39	28.25	22.50	19.20
SN5161B	TI	39	22.30	17.75	15.15
SN5162B	TI	39	24.55	19.55	16.65
SN5191B	TI	39	29.50	23.50	20.00
SN5301	TI	39	18.75	14.85	12.75
SN5302	TI	39	22.75	18.00	15.50
SN5304	TI	39	22.75	18.00	15.50
SN5311	TI	39	13.00	10.25	8.80
SN5315	TI	39	13.00	10.25	8.80
SN5331	TI	39	13.00	10.25	8.80
SN5360	TI	39	13.00	10.25	8.80
SN5370	TI	39	16.20	12.90	11.00
SN5380	TI	39	18.75	14.85	12.75
SN5400	TI	38	13.00	10.40	8.80
SN5410	TI	38	13.00	10.40	8.80
SN5420	TI	38	11.40	9.10	7.70
SN5430	TI	38	11.40	9.10	7.70
SN5440	TI	38	13.00	10.40	8.80
SN5450	TI	38	14.20	11.40	9.60
SN5451	TI	38	13.00	10.40	8.80
SN5453	TI	38	14.20	11.40	9.60
SN5460	TI	38	10.40	8.40	7.70
SN5470	TI	38	17.80	14.40	12.00
SN5472	TI	38	14.60	11.60	9.90
SN5473	TI	38	23.20	18.45	15.75
SN5474	TI	38	23.80	18.20	15.90
SN5480	TI	38	28.60	22.90	19.30
SN5491	TI	38	62.50	44.75	42.50
SN5500	TI	40	56.00	44.50	38.00
SN5510	TI	40	13.80	10.95	9.30
SN7000	TI	39	6.00	4.80	4.10
SN7300	TI	39	8.10	6.45	5.50
SN7300N	TI	39	8.10	6.45	5.50
SN7301	TI	39	8.50	6.75	5.75
SN7301N	TI	39	8.50	6.75	5.75
SN7302	TI	39	10.50	8.35	7.15
SN7302N	TI	39	10.50	8.35	7.15
SN7304	TI	39	10.50	8.35	7.15
SN7304N	TI	39	10.50	8.35	7.15
SN7310	TI	39	5.65	4.50	3.85
SN7310N	TI	39	5.65	4.50	3.85
SN7311	TI	39	6.50	5.15	4.40
SN7311N	TI	39	6.50	5.15	4.40
SN7315	TI	39	6.50	5.15	4.40
SN7315N	TI	39	6.50	5.15	4.40
SN7320	TI	39	5.65	4.50	3.85
SN7320N	TI	39	5.65	4.50	3.85
SN7330	TI	39	5.65	4.50	3.85
SN7330N	TI	39	5.65	4.50	3.85
SN7331	TI	39	6.50	5.15	4.40
SN7331N	TI	39	6.50	5.15	4.40
SN7350	TI	39	5.65	4.50	3.85
SN7350N	TI	39	5.65	4.50	3.85
SN7360	TI	39	6.50	5.15	4.40
SN7360N	TI	39	6.50	5.15	4.40
SN7370	TI	39	7.70	6.15	5.25
SN7370N	TI	39	7.70	6.15	5.25
SN7380	TI	38	9.75	7.75	6.60
SN7380N	TI	39	9.75	7.75	6.60
SN7400	TI	38	4.55	3.60	3.10
SN7400N	TI	38	4.55	3.60	3.10
SN7410	TI	38	4.55	3.60	3.10
SN7410N	TI	38	4.55	3.60	3.10
SN7420	TI	38	4.55	3.60	3.10
SN7420N	TI	38	4.55	3.60	3.10
SN7430	TI	38	4.55	3.60	3.10
SN7430N	TI	38	4.55	3.60	3.10
SN7440	TI	38	5.00	4.00	3.40
SN7440N	TI	38	5.00	4.00	3.40
SN7450	TI	38	5.00	4.00	3.40
SN7450N	TI	38	5.00	4.00	3.40
SN7451	TI	38	4.55	3.60	3.10
SN7451N	TI	38	4.55	3.60	3.10
SN7453	TI	38	8.05	6.40	5.45
SN7453N	TI	38	8.05	6.40	5.45
SN7460	TI	38	3.65	2.95	2.45
SN7460N	TI	38	3.65	2.95	2.45
SN7470	TI	38	7.30	5.80	4.95
SN7470N	TI	38	7.30	5.80	4.95
SN7472	TI	38	5.85	4.65	3.95
SN7472N	TI	38	5.85	4.65	3.95

IMPORTANT ORDERING INFORMATION

To assure prompt and accurate service when ordering integrated circuits, specify department number, then the manufacturer's type number and name.

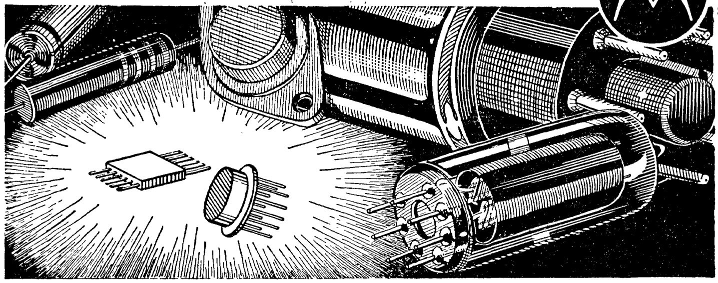
Example: 50 D 32 SN5304 TI

Dept. No.	Mfr.	Name
50 D 1	RCA	Radio Corporation of America
50 D 3	GE	General Electric
50 D 12	SYL	Sylvania
50 D 26	MOT	Motorola
50 D 32	TI	Texas Instruments

Type No.	Mfr.	Page No.	EACH 1-24	25-99	100-999
SN7473	TI	38	8.90	7.10	6.05
SN7473N	TI	38	8.90	7.10	6.05
SN7474	TI	38	8.00	6.35	5.40
SN7474N	TI	38	8.00	6.35	5.40
SN7480	TI	38	10.00	8.00	6.70
SN7480N	TI	38	10.00	8.00	6.70
SN7490N	TI	38	16.25	12.95	11.00
SN7491	TI	38	21.90	17.40	14.90
SN7491N	TI	38	21.90	17.40	14.90
SN7500	TI	40	33.00	26.25	22.24
SN7500L	TI	40	33.00	26.25	22.24
SN7501	TI	40	37.00	29.75	24.25
SN7502	TI	40	37.00	29.75	24.25
SN15830	TI	39	7.20	5.75	4.90
SN15830L	TI	39	7.20	5.75	4.90
SN15830N	TI	39	7.20	5.75	4.90
SN15831	TI	39	11.50	9.15	7.80
SN15831L	TI	39	11.50	9.15	7.80
SN15831N	TI	39	11.50	9.15	7.80
SN15832	TI	39	8.35	6.65	5.65
SN15832L	TI	39	8.35	6.65	5.65
SN15832N	TI	39	8.35	6.65	5.65
SN15833	TI	39	5.00	4.00	3.40
SN15833L	TI	39	5.00	4.00	3.40
SN15833N	TI	39	5.00	4.00	3.40
SN15844	TI	39	8.35	6.65	5.65
SN15844L	TI	39	8.35	6.65	5.65
SN15844N	TI	39	8.35	6.65	5.65
SN15845	TI	39	11.50	9.15	7.80
SN15845L	TI	39	11.50	9.15	7.80
SN15845N	TI	39	11.50	9.15	7.80
SN15846	TI	39	8.20	6.50	5.55
SN15846L	TI	39	8.20	6.50	5.55
SN15846N	TI	39	8.20	6.50	5.55
SN15848	TI	39	11.50	9.15	7.80
SN15848L	TI	39	11.50	9.15	7.80
SN15848N	TI	39	11.50	9.15	7.80
SN15850	TI	39	11.50	9.15	7.80
SN15850L	TI	39	11.50	9.15	7.80
SN15850N	TI	39	11.50	9.15	7.80
SN15851	TI	39	14.75	11.75	10.00
SN15851L	TI	39	14.75	11.75	10.00
SN15851N	TI	39	14.75	11.75	10.00
SN15862	TI	39	8.20	6.50	5.55
SN15862L	TI	39	8.20	6.50	5.55
SN15862N	TI	39	8.20	6.50	5.55
SN15930	TI	39	15.40	12.25	10.45
SN15930L	TI	39	15.40	12.25	10.45
SN15931	TI	39	20.40	16.25	13.85
SN15931L	TI	39	20.40	16.25	13.85
SN15932	TI	39	17.65	14.05	12.00
SN15932L	TI	39	17.65	14.05	12.00
SN15933	TI	39	7.15	5.70	4.85
SN15933L	TI	39	7.15	5.70	4.85
SN15944	TI	39	17.65	14.05	12.00
SN15944L	TI	39	17.65	14.05	12.00
SN15945	TI	39	20.40	16.25	13.85
SN15945L	TI	39	20.40	16.25	13.85
SN15946	TI	40	17.00	13.55	11.55
SN15946L	TI	40	17.00	13.55	11.55
SN15948	TI	40	20.40	16.25	13.85
SN15948L	TI	40	20.40	16.25	13.85
SN15950	TI	39	20.40	16.25	13.85
SN15950L	TI	39	20.40	16.25	13.85
SN15951	TI	39	34.00	27.10	23.10
SN15951L	TI	39	34.00	27.10	23.10
SN15962	TI	39	17.00	13.55	11.55
SN15962L	TI	39	17.00	13.55	11.55
SN17908A	TI	40	7.35	6.35	5.40
SN17908L	TI	40	7.35	6.35	5.40
SN17909A	TI	40	7.00	6.05	5.10
SN17909L	TI	40	7.00	6.05	5.10
SN17910A	TI	40	6.00	5.20	4.40
SN17910L	TI	40	6.00	5.20	4.40
SN17911A	TI	40	6.00	5.20	4.40
SN17911L	TI	40	6.00	5.20	4.40
SN17912A	TI	40	7.00	6.05	5.10
SN17912L	TI	40	7.00	6.05	5.10
SN17913A	TI	40	8.20	7.10	6.00
SN17913L	TI	40	8.20	7.10	6.00
SN17921A	TI	40	5.25	4.55	3.85
SN17921L	TI	40	5.25	4.55	3.85
SN54930	TI	38	11.40	9.10	7.70
SN54932	TI	38	13.00	10.40	8.80
SN54946	TI	38	13.00	10.40	8.80
SN54948	TI	38	17.80	14.40	12.00
SN54962	TI	38	13.00	10.40	8.80
SN54965	TI	38	11.40	9.10	7.70
SN54966	TI	38	13.00	10.40	8.80
SN74930	TI	38	5.70	4.55	3.85
SN74932	TI	38	6.50	5.20	4.40
SN74946	TI	38	6.50	5.20	4.40
SN74948	TI	38	8.90	7.20	6.00
SN74962	TI	38	6.50	5.20	4.40
SN74965	TI	38	5.70	4.55	3.85
SN74966	TI	38	6.50	5.20	4.40

Motorola Integrated Logic Circuits

MECL Circuits are Systems-Oriented Integrated-Circuit Logic Blocks Specially Designed to Provide Optimum Compatibility in Large Computer Systems.



HOW TO ORDER

When ordering, specify Department Number, 50 D 26, then add Motorola type number or JEDEC type number.
Example: 50 D 26 MC301G.

EXPLANATION OF COLUMN HEADS

t_{d1}—propagation delay time from falling edge of input pulse
t_{pd}—average propagation delay time—$(t_{d1}+t_{d2})/2$
t_{off}—turn-off time
V_R—reverse voltage
t_{d2}—propagation delay time from rising edge of input pulse
t_{rr}—reverse recovery time
t_{on}—turn-on time
V_F—forward voltage

TYPE MECL INTEGRATED CIRCUITS

Current mode logic circuits, designed for high-speed integrated circuit logic designs. For system clock rates up to 30 mc, with 6 nanosecond speed/gate typical. Fan-out, up to 25. Simultaneous direct and complementary logic functions at each gate. Available in two series, each with 12 circuit functions. Industrial type (MC350 Series) has temperature range of 0 to 75°C. Military type (MC300 Series) operates from —55°C to +125°C. Both series are reliability tested to 20,000 g. Supplied in TO-5 case. For flat package, change suffix G to F. Prices slightly higher. Write for prices on desired quantities. Types MC312G and MC362G are 12-pin TO-5, MC312F and MC362F are 14-pin flat pack. *Supplied without output resistors for output OR-ing, †Supplied with one output resistor; other output is less resistor for output OR-ing. ‡TO-5 case only. §With 50-ohm load.

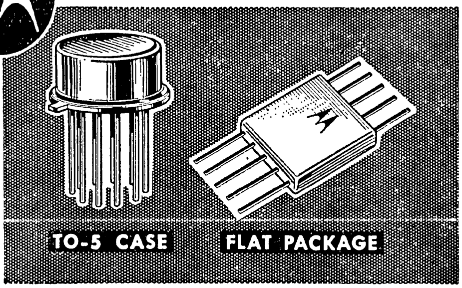
Function	Prop. Delay nanoseconds		Power Diss. mw	Military Type Temp. Range —55°C to +125°C				Industrial Type Temp. Range 0 to +75°C			
				Mfr's	EACH			Mfr's	EACH		
	td1	td2		Type	1-24	25-99	100-999	Type	1-24	25-99	100-999
5-input OR/NOR Gate	7.5	8.5	35	MC301G	11.55	9.25	7.70	MC351G	4.55	4.00	3.65
Set-Reset Flip-Flop	11.0 tdr	13.0 tdf	35	MC302G	13.70	11.00	9.15	MC352G	4.55	4.00	3.65
Half Adder	7.0	8.0	60	MC303G	15.60	12.50	10.40	MC353G	5.95	5.20	4.75
Bias Regulator	....	....	18	MC304G	7.25	5.80	4.85	MC354G	2.45	2.15	1.95
Gate Expander	6.5	7.5	....	MC305G	7.25	5.80	4.85	MC355G	2.80	2.45	2.25
3-input OR/NOR Gate	7.5	7.0	35	MC306G	10.20	8.15	6.80	MC356G	3.55	3.15	2.85
*3-input OR/NOR Gate	7.5	7.0	18	MC307G	10.20	8.15	6.80	MC357G	3.55	3.15	2.85
Clocked J-K Flip-Flop	8.0 tdr	11.0 tdf	60	MC308G	17.70	14.15	11.80	MC358G	9.50	8.35	7.60
Dual 2-input NOR Gate	7.0	8.0	49	MC309G	12.60	10.10	8.40	MC359G	3.70	3.25	2.95
†Dual 2-input NOR Gate	7.0	8.0	49	MC310G	12.60	10.10	8.40	MC360G	3.70	3.25	2.95
*Dual 2-input NOR Gate	7.0	8.0	39	MC311G	12.60	10.10	8.40	MC361G	3.70	3.25	2.95
Dual 3-input NOR Gate	7.0	8.0	49	MC312G	15.60	12.50	10.40	MC362G	5.00	4.40	4.00
DTL-MECL Level Translator	10.0 tdn	....	25	‡MC1511	13.45	11.80	10.75	....	....	....	....
MECL-DTL Level Translator	7.0 tdn	....	80	‡MC1512	15.30	13.50	12.25	....	....	....	....
Line and Capacity Driver	14.0	17.0	340§	MC315G	23.25	18.60	15.50	MC365G	9.20	8.10	7.35

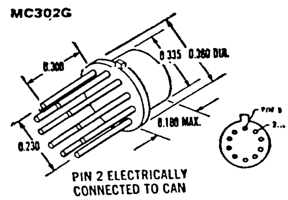
MC200 AND MC250 SERIES TYPE MDTL INTEGRATED CIRCUITS

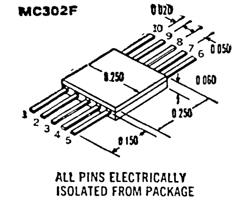
Designed for medium-power logic circuits, with system clock rates up to 10 mc. Power dissipation, 6 mw. Propagation delay, 30 nanoseconds. Fan-out, up to 10. Available in two series, each with 16 circuit functions. Industrial type (MC250 Series) has temperature range of 0 to 75°C. Military type (MC200 Series) operates from —55°C to +125°C. Supplied in TO-5 case; for flat package, change suffix G to F and add $2.00 to price for quantities of 1-99, and $1.50 to price for quantities of 100-999. *t_{off} is 45 nanoseconds. †V_F at 300 ma; types MC1116 through MC1118 are memory drive diodes. Types MC281G through MC1118, TO-5 case only.

Function	Prop. Delay nanoseconds	V_R Volts	Power Diss. mw	Military Type Temp. Range —55°C to +125°C				Industrial Type Temp. Range 0 to +75°C			
				Mfr's	EACH			Mfr's	EACH		
				Type	1-24	25-99	100-999	Type	1-24	25-99	100-999
4-input NAND/NOR Gate	30 tpd	.....	6	MC201G	13.25	11.65	10.60	MC251G	4.40	3.85	3.50
3-input NAND/NOR Gate	30 tpd	.....	6	MC202G	12.00	10.55	9.60	MC252G	4.05	3.60	3.25
6 Diode AND Gate	4 trr	6	....	MC203G	9.20	8.10	7.35	MC253G	3.10	2.75	2.50
3-input Power Gate	40 tpd	.....	30	MC204G	17.15	15.05	13.70	MC254G	5.80	5.10	4.65
Line Driver	55 tpd	.....	50	MC205G	18.05	15.90	14.45	MC255G	6.00	5.30	4.80
2-2 Dual NAND/NOR Gate	30 tpd	.....	12	MC206G	16.55	14.60	13.25	MC256G	5.60	4.95	4.50
3-2 Dual NAND/NOR Gate	30 tpd	.....	12	MC207G	17.15	15.05	13.70	MC257G	5.80	5.10	4.65
3-2 Dual NAND/NOR Gate	30 tpd	.....	30	MC208G	17.15	15.05	13.70	MC258G	5.80	5.10	4.65
Clocked R-S Flip-Flop	60 tpd	.....	16	MC209G	22.20	19.50	17.75	MC259G	9.95	8.75	7.95
Flip-Flop	60 tpd	.....	16	....	....	....	....	MC260G	10.50	9.30	8.45
3-3 Dual NAND/NOR Gate	30 tpd	.....	12	MC212G	18.10	15.95	14.50	MC262G	6.00	5.30	4.80
3-3 Dual NAND/NOR Gate	30 tpd	.....	30	MC213G	18.10	15.95	14.50	MC263G	6.00	5.30	4.80
3-3 Dual AND Gate	4 trr	6	....	MC215G	9.75	8.60	7.80	MC265G	3.30	2.90	2.65
3-3 Dual Diode Array	4 trr	6	....	MC217G	8.30	7.30	6.65	MC267G	2.80	2.50	2.25
3-3 Dual NAND/NOR Gate	18 tpd	.....	15	MC281G	18.75	16.50	15.00	....	....	....	....
R-S Flip-Flop	18 tpd	.....	15	MC282G	22.50	19.80	18.00	....	....	....	....
4-input NAND/NOR Gate	18 tpd	.....	7.5	MC284G	16.85	14.85	13.50	....	....	....	....
3-4 Diode AND Gate	15 ton	10	200	MC1111	43.40	34.60	26.00	....	....	....	....
2-2-2 Diode AND Gate	15 ton	10	300	MC1112	49.70	39.55	29.75	....	....	....	....
1-1-1-2 Diode AND Gate	15 ton	10	400	MC1113	54.25	43.20	32.50	....	....	....	....
8 Diode AND Gate	15 ton	10	100	MC1114	40.50	32.25	24.25	....	....	....	....
Dual Inverter	*20 ton	.....	250	MC1115	38.00	30.25	22.75	....	....	....	....
Common P-9 Diodes	90 trr	40	†1.2 max	MC1116	29.10	29.10	19.40	....	....	....	....
Common N—9 Diodes	90 trr	40	†1.2 max	MC1117	29.10	29.10	19.40	....	....	....	....
16 Diode Series/Parallel Matrix	90 trr	40	†1.2 max	MC1118	51.60	51.60	34.40	....	....	....	....

Motorola Integrated Logic Circuits







MECL circuits feature design advantages such as: 6-nsec propagation delay (typical) at average gate power dissipation of only 35 mw; high noise immunity—50% of logic swing; high fan-in and fan-out—up to 25 in both cases; constant loading to minimize noise. See listings, page 34.

MDTL INTEGRATED CIRCUITS

New modified diode transistor logic circuits for use in a wide variety of military and industrial uses. Two complete lines are offered for computer design. Clocked flip-flops 945/845 have buffered outputs to reduce circuit disturbance. Flip-flops 948/848 have buffered outputs with improved propagation delay-versus-capacitance characteristics. F suffix, flat pack; G, TO-5 case.

Function	Type No.	−55° to +125°C 1-24, Ea.	25-99, Ea.	100-Up, Ea.	Type No.	0° to 70°C 1-24, Ea.	25-99, Ea.	100-Up, Ea.
Dual (3-2) Input Gate	MC930G	14.35	11.40	9.75	MC830G	6.85	5.45	4.65
Dual 4 Input Power Gate	MC930F	15.05	12.00	10.25	MC830F	7.20	5.75	4.90
Clocked Flip-Flop	MC931G	19.20	15.25	13.05	MC831G	10.80	8.60	7.35
Clocked Flip-Flop	MC931F	20.20	16.10	13.75	MC831F	11.40	9.05	7.75
Dual (3-2) Input Buffer	MC932G	16.75	13.35	11.40	MC832G	7.85	6.25	5.35
Dual 4-input Buffer	MC932F	17.65	14.05	12.00	MC832F	8.25	6.55	5.60
Dual (4-3) Input Expander	MC933G	6.75	5.40	4.60	MC833G	4.80	3.80	3.25
Dual 4-input Expander	MC933F	7.15	5.70	4.85	MC833F	5.00	4.00	3.40
Dual (3-2) Input Power Gate	MC944G	16.10	12.80	10.95	MC844G	7.70	6.15	5.25
Dual 4-input Power Gate	MC944F	16.90	13.45	11.50	MC844F	8.10	6.45	5.50
Clocked Flip-Flop	MC945G	19.20	15.25	13.05	MC845G	10.80	8.60	7.35
Clocked Flip-Flop	MC945F	20.20	16.10	13.75	MC845F	11.40	9.05	7.75
Quad 2-input Gage	MC946F	16.55	13.15	11.25	MC846F	8.10	6.45	5.50
Clocked Flip-Flop	MC948G	19.20	15.25	13.05	MC848G	10.80	8.60	7.35
Clocked Flip-Flop	MC948F	20.20	16.10	13.75	MC848F	11.40	9.05	7.75
Triple 3-input Gate	MC962F	16.55	13.15	11.25	MC862F	8.10	6.45	5.50

MILITARY MILLIWATT MRTL INTEGRATED CIRCUITS

For low-power integrated circuit logic designs. Power dissipation, 2.5 mw per node. Propagation delay, 40 nanoseconds per stage. Range, —55°C to +125°C. Fabricated with high reliability glass coating process. TO-5 case only. *With 50% duty cycle.

Function	Typical Propagation Delay nanoseconds	Average Power Diss. mw	Temp. Range −55°C to +125°C Mfr's Type	EACH 1-24	25-99	100-999
Adder	60	10	MC908G	24.05	21.20	19.25
Buffer	57	10*	MC909G	18.15	15.95	14.50
Dual 2-input NAND/NOR Gate	27	4	MC910G	15.30	13.50	12.25
4-input OR/NOR Gate	60	4	MC911G	15.00	13.20	12.00
Half Adder	66	8	MC912G	21.25	18.70	17.00
Type D Flip-Flop	75	12	MC913G	40.95	36.05	32.75
Dual 3-input NAND/NOR Gate	30	4	MC918G	15.00	13.20	12.00
J-K Flip-Flop	60	10	MC920G	32.50	28.60	26.00
5-input NAND/NOR Gate	50	4	MC928G	12.50	11.00	10.00

COMMERCIAL/INDUSTRIAL MILLIWATT MRTL INTEGRATED CIRCUITS

For use in low power commercial and industrial applications. Power dissipation, 3 milliwatts per node. Noise immunity, 300 millivolts. Operating temperature range, +15° to +55°C. Available in TO-5 case only.

Function	Av. Propagation Delay (nanoseconds)	Fan-out	Mfr's Type	EACH 1-24	25-99	100-999
Adder	50	4	MC708G	4.70	4.10	3.75
Buffer	25	30	MC709G	3.20	2.80	2.55
Dual 2-input NAND/NOR Gate	25	4	MC710G	3.30	2.90	2.65
4-input OR/NOR Gate	25	4	MC711G	3.30	2.90	2.65
Half Adder	50	4	MC712G	4.55	4.00	3.65
Type D Flip-Flop	70	3	MC713G	7.95	7.00	6.35
Dual 3-input NAND/NOR Gate	25	4	MC718G	4.00	3.50	3.20
J-K Flip-Flop	60	2	MC720G	7.95	7.00	6.35
Gate Expander	25	−0.5	MC721G	3.30	2.90	2.65
5-input NAND/NOR Gate	25	4	MC728G	3.50	3.10	2.80

MILITARY MRTL INTEGRATED CIRCUITS

Military MRTL Circuit Logic Complement. Designed for low-power military applications in which wide environmental extremes may be encountered during normal operations. Can be used for system clock rates up to 8 megacycles. Fan-out capability up to 5. Typical propagation delay is 12 nanoseconds. 15 milliwatt power dissipation per node. Broad operating temperature range, —55° to +125°C. Available in standard TO-5 case only. *Input High. See "HOW TO ORDER" information on page 36.

Function	Av. Propagation Delay (nanoseconds)	Fan-out	Av. Power Diss. per Node (mw).	Mfr's Type	EACH 1-24	25-99	100-Up
Buffer	15	25	16*	MC900G	10.25	9.00	8.20
Counter Adapter	22	5	55	MC901G	20.00	17.60	16.00
R-S Flip-Flop	14	4	22	MC902G	11.55	10.15	9.25
3-input NAND/NOR Gate	12	5	19*	MC903G	9.35	8.25	7.50
Half Adder	14	5	45	MC904G	16.85	14.85	13.50
Half Shift Register	22	5	53	MC905G	18.45	16.20	14.75
Half Shift Register (w/o inverter)	22	4	36	MC906G	16.85	14.85	13.50

Motorola Integrated Circuits

MILITARY MRTL COMPLEMENT (Cont'd from page 35)

Function	Prop. Delay	Fan-out	Powr. Diss.	Mfr's Type	EACH 1-9	EACH 10-99	EACH 100-Up
4-input Gate	12	5	19*	MC907G	10.00	8.80	8.00
Dual 2-input NAND/NORGate	12	5	19*	MC914G	11.25	9.90	9.00
Dual 3-input NAND/NORGate	12	5	19*	MC915G	15.00	13.20	12.00
J-K Flip-Flop	60	5	56	MC926G	23.10	20.35	18.50
Quad Inverter	12	5	19*	MC927G	15.00	13.20	12.00
5-input NAND/ NOR Gate	12	5	19*	MC929G	10.50	9.25	8.40
Dual Buffer	15	25	16*	MC999G	18.45	16.20	14.75

INDUSTRIAL MRTL COMPLEMENT

Intended for reliable operation in industrial logic applications. Priced for economical use in areas where wider temperature range of operation is not required. For system clock rates to 8 mc. Fan-out capability to 25. Operating temperature range, 0° to +100°C. §nanoseconds. †Av. per node in milliwatts. *High Input.

Function	§Prop. Delay	Fan-out	†Powr. Diss.	Mfr's Type	EACH 1-24	EACH 25-99	EACH 100-Up
Buffer	15	25	16*	MC800G	3.50	3.10	2.80
Counter Adapter	22	5	55	MC801G	5.25	4.60	4.20
R-S Flip-Flop	14	4	22	MC802G	4.45	3.90	3.55
3-input NAND/ NOR Gate	12	5	19*	MC803G	3.50	3.10	2.80
Half Adder	14	5	45	MC804G	3.70	3.25	2.95
Half Shift Register	22	5	23	MC805G	6.05	5.35	4.85
Half Shift Register (without inverter)	22	4	36	MC806G	5.00	4.40	4.00
4-input NAND/ NOR Gate	12	5	19*	MC807G	3.70	3.25	2.95
Dual 2-input NAND/NORGate	12	5	19*	MC814G	3.70	3.25	2.95
Dual 3-input NAND/NORGate	12	5	19*	MC815G	4.35	3.85	3.50
J-K Flip-Flop	35	5	54	MC816G	8.75	7.70	7.00

HOW TO ORDER

When ordering, specify Dept. No. 50 D 26, then add Motorola type No. Ex.: 50 D 26 MC1525.

INDUSTRIAL MRTL COMPLEMENT (Cont'd)

Function	§Prop. Delay	Fan-out	†Powr. Diss.	Mfr's Type	EACH 1-24	EACH 25-99	EACH 100-Up
J-K Flip-Flop	60	5	56	MC826G	8.75	7.70	7.00
Quad Inverter	12	5	19*	MC827G	4.35	3.85	3.50
5-input NAND/ NOR Gate	12	5	19*	MC829G	3.85	3.40	3.10
Dual Buffer	15	25	16*	MC899G	6.35	5.60	5.10

COMMERCIAL MRTL COMPLEMENT

Designed and priced for use in a wide variety of commercial applications. For system clock rates to 8 mc. Fan-out capability to 80. Operating temperature range, +15° to +55°C. Available in TO-5 Case only. §nanoseconds. †Av. per node in milliwatts.

Function	§Prop. Delay	Fan-out	†Powr. Diss.	Mfr's Type	EACH 1-24	EACH 25-99	EACH 100-Up
Buffer	15	80	20	MC700G	3.20	2.80	2.55
Counter Adapter	20	16	20	MC701G	4.75	4.20	3.80
R-S Flip-Flop	10	13	20	MC702G	4.00	3.50	3.20
3-input NAND/ NOR Gate	10	16	20	MC703G	3.20	2.80	2.55
Half Adder	10	16	20	MC704G	3.30	2.90	2.65
Half Shift Register	20	16	20	MC705G	5.45	4.80	4.35
Half Shift Register (without inverter)	10	13	20	MC706G	4.55	4.00	3.65
4-input NAND/ NOR Gate	10	16	20	MC707G	3.30	2.90	2.65
Dual 2-input NAND/NORGate	10	16	20	MC714G	3.30	2.90	2.65
Dual 3-input NAND/NORGate	10	16	20	MC715G	4.00	3.50	3.20
J-K Flip-Flop	25	10	20	MC723G	7.95	7.00	6.35
J-K Flip-Flop	25	16	20	MC726G	7.95	7.00	6.35
Quad Inverter	10	5	20	MC727G	5.75	5.05	4.60
5-input NAND/ NOR Gate	10	16	20	MC729G	3.50	3.10	2.80
Dual Buffer	15	80	20	MC799G	5.75	5.05	4.60

LINEAR INTEGRATED CIRCUITS

For micro-miniature amplifier designs. Range, —55 to +125°C. MC110(MECL-A)—Emitter-Coupled Amplifier, used as 300 mc tuned IF and RF amplifier. Power gain 26 db at 100 mc, 18 db at 200 mc. Noise figure 4 db at 100 mc. f_T, 900 mc. Max. power dissipation, 100 mw. 5-pin TO-5 case. MC1430 (Operating Temp., 0° to +75°C); MC1530 (Operating Temp., +55° to +125°C). Both are High Input Operational Amplifiers for use as summing amplifiers, integrators, or amplifiers with operating characteristics as a function of the external feedback components. Conventional input, 20K ohms. MC1431, MC1531—Hi-Z Operational Amplifiers as above units, but with 2 megohm Darlington input. TO-5 cases. MC1519G —Wide-Band Differential Amplifier for pulse, differential and sense amplifier nucleus uses. Differential voltage gain CE 93 db, CC 45 db. Bandwidth CE 1 mc, CC 8 mc. Input CE 2.6K, CC 1.2K. Common mode rejection CE 89 db typ., CC 86 db. Input offset voltage CE 6 mv max., CC 6 mv max. 10-pin TO-5 case MC1524G—1-watt Audio Power Amplifier for DC to 0.5 mc applications and low-power servo systems. Load impedance 16 ohms minimum. Maximum zero signal current drain is 4 milliamperes. Voltage gain, with optional internal feedback is 10, 20, 40. Typical input impedance, 8.5K ohms. Minimum bandwidth, 300 kc. 10-pin TO-5 case. MC1525—NPN Differential Amplifier. Differential voltage gain, 140 db. Bandwidth 1.4 mc. Input resistance, 2K ohms. max. Common mode rejection, 80 db min. Input offset voltages, 5 mv max. 10-pin TO-5 case. MC1526—NPN Darlington Amplifier. Differential voltage gain, 65 db. Bandwidth 0.5 mc. Input resistance, 60K ohms max. Common mode rejection, 80 db min. Input offset voltage, 7 mv max. 10-pin TO-5 case.

Mfr's Type	EACH 1-24	EACH 25-99	EACH 100-999
MC1110	25.00	20.00	15.00
MC1519G	50.00	40.00	30.00
MC1524G	70.00	55.00	40.00
MC1430	18.00	15.00	12.00
MC1431	20.25	16.85	13.50

Mfr's Type	EACH 1-24	EACH 25-99	EACH 100-999
MC1525	60.00	48.00	36.00
MC1526	60.00	48.00	36.00
MC1530	27.00	22.50	18.00
MC1531	30.00	25.00	20.00

MRTL INTEGRATED CIRCUITS

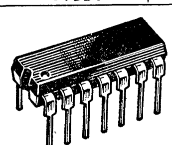
Designed for use in industrial computer logic applications and where operation is required in a high noise environment. Noise immunity selectable from 2 to 5 volts; logic swings selectable from 4 to 10 volts; typical propagation delay is 50 nanoseconds at 25°C. For applications employing frequencies up to 1 mc. Operating temperature range, 0° to +75°C. Available in TO-5 package only.

Mfr's Type	Function	EACH 1-24	EACH 25-99	EACH 100-999
MC650G	Dual 3-input NAND Gate	8.65	7.60	6.90
MC652G	R-S Flip-Flop	12.00	10.50	9.55

INTEGRATED CIRCUIT PATCHBOARDS

16-socket integrated circuit patchboards designed to simplify testing of individual devices and breadboarding of complete integrated circuit systems. Each socket has three supply voltages, double-pin jacks. Banana plugs permit power connections between boards. Numbered pins and lettered sockets allow easy designs.

Stock No.	Mfr's Type	Type of Socket	EACH 1-9	EACH 10-24	EACH 25-Up
47 D 6054	XC63	16 10-pin sockets for TO-5 cases	150.00	125.00	100.00
47 D 6055	XC72	16 14-pin sockets for 10 and 14-pin flat packs.	250.00	225.00	200.00


ACTUAL SIZE

UNIBLOC MRTL INTEGRATED CIRCUITS

One-piece, plastic encapsulated integrated circuits for use in commercial and industrial applications. Injection-molded package has 14-pin dual-in-line arrangement for automatic insertion. Requires +12VDC power supply, with 250 mw dissipation. Logic input voltage is ±4 VDC. Circuits loading is guaranteed over a temperature range of +15°C to +55°C. Storage temp., —55 to +125°C.

Type	Circuit Function	1-24 EA.	25-99 EA.	100-999 EA.
MC715P	Dual 3-input Gate	2.85	2.30	1.90
MC723P	J-K Flip-Flop	4.05	3.25	2.70
MC724P	Quad 2-input Gate	3.35	2.70	2.25
MC725P	Dual 4-input Gate	3.35	2.70	2.25
MC788P	Dual Buffer (non-invert.)	4.05	3.25	2.70
MC789P	Hex inverter	3.35	2.70	2.25
MC790P	Dual J-K Flip-Flop	5.30	4.25	3.55
MC792P	Triple 3-input Gate	3.75	3.00	2.50
MC799P	Dual Buffer	4.05	3.25	2.70

MILLIWATT MRTL TYPES

Type	Circuit Function	1-24 EA.	25-99 EA.	100-999 EA.
MC717P	Quad 2-input Gate	3.35	2.70	2.25
MC718P	Quad 3-input Gate	2.85	2.30	1.90
MC719P	Dual 4-input Gate	3.35	2.70	2.25
MC793P	Triple 3-input Gate	3.75	3.00	2.50
MC798P	Dual Buffer	4.05	3.25	2.70

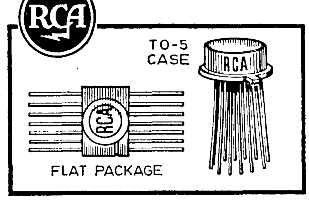
As New Integrated Circuits Become Available, Allied Will Stock Them

RCA Integrated Circuits

New broad-capability integrated circuits feature single-chip, monolithic silicon, passivated epitaxial construction. Linear circuit coverage extends from DC to 100 mc. Digital circuit coverage includes extremely low power (2.3 mw per gate) to the highest commercially available speeds (3.6 ns). Linear circuit types CA3000, 3002, 3011, 3012, 3013, and 3014 are in TO-5 10-lead package. Type CA3008 is in 14-lead flat package. Other linear circuits are in TO-5 12-lead package. All digital integrated circuits are supplied in 14 lead hermetically sealed ceramic and metal flat package. In table below, characteristics are at 25° C case temp.

HOW TO ORDER

When ordering, specify Dept. No. 50 D 1, then add RCA type No. Ex., 50 D 1 CA3012.



LINEAR INTEGRATED CIRCUITS

OPERATIONAL AMPLIFIERS

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3008	Operational Amplifier, Oscillator, Comparator, Feedback Amplifier, Narrow Band and Bandpass Amplifier,	+1, −2 v. Max.	30 mw	1.0 mv	5.3 μa	60 @ 1 kc/s	94 db @ 1 kc/s	300 kc/s	13.60	11.05	9.35
CA3010	Servo Driver, DC and Video Amplifier, Multivibrator, Balanced Modulator Driver, Push-pull Input.	+1, −2 v. Max.	30 mw	1.0 mv	5.3 μa	60 @ 1 kc/s	94 db @ 1kc/s	300 kc/s	12.00	9.75	8.25

RF AMPLIFIERS

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3004	Push-Pull Input and Output, Mixer, Limiter, Modulator, AGC, Detector,	+3.5, −3.5 v. Max.	26 mw	1.7 mv	21 μa	12 @ 100 mc/s	98 db @ 1 kc/s	100 mc/s	4.40	3.60	3.05
CA3005	Wide and Narrowband Amplifier, RF, IF, and Video Amplifier. Types	+3.5, −3.5 v. Max.	26 mw	2.6 mv	19 μa	16 @ 100 mc/s	101 db @ 1 kc/s	100 mc/s	4.80	3.90	3.30
CA3006	CA3005 and CA3006 may also be used as Cascode Amplifier.	+3.5, −3.5 v. Max.	26 mw	0.8 mv	19 μa	16 @ 100 mc/s	101 db @ 1 kc/s	100 mc/s	6.80	5.55	4.70

VIDEO AMPLIFIER

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3001	Push-Pull Input and Output, Mixer, AGC, Schmitt Trigger, Modulator, DC, IF, and Video Amplifier.	+2.5, −2.5 v. Max.	60 mw	1.5 mv	10 μa	19 @ 1 mc/s	70 db @ 1 kc/s	16 mc/s	6.40	5.20	4.40

DC AMPLIFIER

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3000	Push-Pull Input and Output, AGC, Mixer, Sense Amplifier, Modulator, Schmitt Trigger, RC Coupled Feedback Amplifier, Crystal Oscillator, Comparator.	+2, −2 v. Max.	30 mw	1.4 mv	23 μa	37 @ 1 kc/s	98 db @ 1 kc/s	650 kc/s	6.80	5.55	4.70

IF AMPLIFIERS

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3002	Push-Pull Input, AGC, Product Detector, AM Detector, RC Coupled Cascoded Amplifier, IF and Video Amplifier (may be AC coupled).	−3.5, +3.5 v. Max.	55 mw	....	20 μa	24.4 @ 1.75 mc/s	....	11mc/s	4.40	3.60	3.05
CA3011	High-Gain Wideband Amplifiers for External AM or FM Detector	−3, +3 v. Max.	300 mw	10†	....	70 @ 1 mc/s	....	....	2.00	1.65	1.40
CA3012	Circuits: * IF Amplifier, AM and			13†			....	....	2.25	1.85	1.55
CA3013*	Noise Limiter, FM Detector, Audio	−3, +3 v. Max.	300 mw	10†	....	70 @ 1 mc/s	50 db @ 1 kc/s	....	2.65	2.15	1.85
CA3014*	Preamplifier. †Max. Supply V.			13†				....	3.15	2.55	2.15

AF AMPLIFIER

Type	Circuit Applications	Input Signal Voltage	Device Dissi-pation	Input Offset Voltage	Input Bias Current	Gain db	Com. Mode Rejection Ratio	−3 db Band-width	EACH 1-24	EACH 25-99	EACH 100-999
CA3007	Audio Amplifier, Audio Driver, Direct Coupling to Class B Output.	−2.5, +2.5 v. Max.	30 mw	....	10.5 μa	22 @ 1 kc/s	77 db @ 1 kc/s	20 kc/s	6.00	4.90	4.15

DIGITAL INTEGRATED CIRCUITS

ULTRA-HIGH-SPEED ECCSL GATES (OR/NOR-POSITIVE LOGIC)

Type	Features	Max. Fan-Out Per Gate Unl'd'd	Max. Fan-Out Per Gate No.	Max. Fan-Out Per Gate Ohm	Noise Immunity V.	Device Diss. mw	Prop. Delay Speed ns	Prop. Delay Load Fan-Out	EACH 1-24	EACH 25-99	EACH 100-999
CD2150 Dual 4-input Gate	Extremely high-speed switching (non-saturated transistor operation). Emitter-follower low impedance outputs; permits large	12	6	100	0.33	220	3.6	1+10 pf	5.20	4.25	3.60
CD2151 Dual 4-input Gate*	fan-out driving capability. Integral reference-threshold voltage supply provides thermal and supply voltage tracking, plus	12	6	100	0.33	175	3.6	1+10 pf	5.20	4.25	3.60
CD2152 Eight-input Gate*	good noise immunity. Capable of driving terminated 100-Ohm transmission—insures max. signal transmission without distortion *With "Phantom OR" Output Capability.	12	6	100	0.33	110	3.6	1+10 pf	5.20	4.25	3.60

HIGH-SPEED ECCSL GATES (OR/NOR-POSITIVE LOGIC)

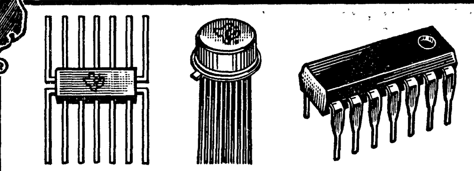
Type	Features	Max. Fan-Out Per Gate Unl'd'd	Max. Fan-Out Per Gate No.	Max. Fan-Out Per Gate Ohm	Noise Immunity V.	Device Diss. mw	Prop. Delay Speed ns	Prop. Delay Load Fan-Out	EACH 1-24	EACH 25-99	EACH 100-999
CD2100 Dual 4-input Gate	High-speed switching (non-saturated transistor operation). Wide operating temperature range, 55° to 125° C. Integral reference	12	6	300	0.32	88	5.6	1+10 pf	6.00	4.90	4.15
CD2101 Quadruple 2-input NOR Gate	threshold voltage supply, emitter follower low impedance outputs. Capable of driving terminated 300-ohm strip line.	12	6	300	0.32	120	5.6	1+10 pf	6.35	5.15	4.35

LOW-POWER DTL GATES (NAND-POSITIVE LOGIC)

Type	Features	Max. Fan-Out Per Gate Unl'd'd	Max. Fan-Out Per Gate No.	Max. Fan-Out Per Gate Ohm	Noise Immunity V.	Device Diss. mw	Prop. Delay Speed ns	Prop. Delay Load Fan-Out	EACH 1-24	EACH 25-99	EACH 100-999
CD2200 Dual 4-input Gate*	Low device dissipation. Wide operating temperature range, 55° to 125° C. Buffer circuit output makes possible high-capacitive	6	.....	.....	1.2	2.3 per gate	100	6+60 pf	6.00	4.90	4.15
CD2201 Quadruple 2-input Gate	load driving capability. *Indicates input Expander Node.	6	.....	.....	1.2	2.3 per gate	100	6+60 pf	6.35	5.15	4.35
CD2203 J-K Flip-Flop	CD2203 has Set-Reset Capability with 8 inputs: 2 DC set; 2 Split Clock, 2 "J" Clock steering, 2 "K" Clock Steering.	5 per output	.....	....	1.2	8	175	5+50 pf	8.00	6.50	5.50

Texas Instruments Integrated Circuits

As New Types Are Released Allied Will Stock Them



FLAT PACKAGE TO-5 DUAL-INLINE

HOW TO ORDER

When ordering, specify Department Number 50 D 32, then add Texas Instruments type number.

Example: 50 D 32 SN5410.

NOTE: For quantity price breaks, items in each series may be assorted, but series may not be mixed. Example: Items from Series 54 may be assorted; but Series 54 and Series 74 may not be combined in one quantity price.

DESCRIPTION OF PACKAGES FOR PAGES 38, 39, AND 40

FLAT PACK INTEGRATED CIRCUITS. In glass-to-metal hermetically sealed and welded package meeting TO-84. Metallic external surfaces are insulated from leads and circuit. Fourteen 0.40″ gold-plated leads. Case size (excluding leads), 0.147x.125x.257″.

TO-5 TYPE PACKAGE INTEGRATED CIRCUITS. Various integrated circuits are to be found in a modified TO-5 case. Case size, .240x.305″ diameter, with 1.5″ leads. Those integrated circuits presently available using the TO-5 cases, are listed on the following pages.

DUAL INLINE INTEGRATED CIRCUITS. Manufactured in packages with 14 leads extending from the sides of the case for use in printed circuit mounting. The rows of leads are spaced 300 mils apart. Leads are positioned internally on a 100-mil grid. Cases are designed and constructed to be completely insulated from both leads and circuits. Case size, .300x.325x.770″.

TYPICAL CHARACTERISTICS OF CIRCUITS BELOW

SERIES 54 AND 74

PARAMETER	BASIC GATE	FLIP-FLOP
Propagation Delay	13ns, *15 ns, †30 ns, ‡35 ns	40 nsec
Power Dissipation	10 mw, *75 mw, †40 mw, ‡50 mw/FF	60mw
Fan-out	10	10
D-c noise margin	1 v.	1 v.
Supply Voltage		
Series 54	4.5 to 5.5 v.	4.5 to 5.5 v.
Series 74	4.75 to 5.25 v.	4.75 to 5.25 v.
Temperature Range		
Series 54	−55° to +125° C	55° to 125° C
Series 74	0° to +70°C	0° to 70°C

SERIES 54930 AND 74930

PARAMETER	BASIC GATE	FLIP-FLOP
Propagation Delay	13 nsec	40 nsec
Power Dissipation	10 mw	60 mw
Fan-out	10	10
D-C noise margin	1 v.	1 v.
Supply Voltage		
Series 54930	4.5 to 5.5 v.	4.5 to 5.5 v.
Series 74930	4.75 to 5.25 v.	4.75 to 5.25 v.
Temperature Range		
Series 54930	−55° to +125° C	−55°to+125°C
Series 74930	0° to +70°C	0° to +70°C

SERIES 54 AND 74 TTL DIGITALS

Description	Type 54 Flat Pack	EACH 1-24	25-99	100-999	Type 74 Flat Pack	Type 74 Dual Inline	EACH 1-24	25-99	100-999
Quadruple 2-input Positive NAND Gate	SN5400	13.00	10.40	8.80	SN7400	SN7400N	6.50	5.20	4.40
Triple 3-input Positive NAND Gate	SN5410	13.00	10.40	8.80	SN7410	SN7410N	6.50	5.20	4.40
Dual 4-input Positive NAND Gate	SN5420	11.40	9.10	7.70	SN7420	SN7420N	5.70	4.55	3.85
8-input Positive NAND Gate	SN5430	11.40	9.10	7.70	SN7430	SN7430N	5.70	4.55	3.85
Dual 4-input Positive NAND "Power" Gate	SN5440	13.00	10.40	8.80	SN7440	SN7440N	6.50	5.20	4.40
Dual EXCLUSIVE-OR Gate with Expandable Inputs	SN5450	14.20	11.40	9.60	SN7450	SN7450N	7.10	5.70	4.80
Dual EXCLUSIVE-OR Gate	SN5451	13.00	10.40	8.80	SN7451	SN7451N	6.50	5.20	4.40
Expandable Quadruple 2-input AND/OR/INVERT Gate	SN5453*	14.20	11.40	9.60	SN7453*	SN7453N*	11.50	9.15	7.80
Dual 4-input Expander	SN5460	10.40	8.40	7.70	SN7460	SN7460N	5.20	4.20	3.50
Single-phase J-K FLIP-FLOP	SN5470	17.80	14.40	12.00	SN7470	SN7470N	8.90	7.20	6.00
Master/Slave FLIP-FLOP	SN5472‡	19.20	11.60	9.90	SN7472‡	SN7472N‡	7.30	5.80	4.95
Dual Master/Slave FLIP-FLOP	SN5473‡	23.20	18.45	15.75	SN7473‡	SN7473N‡	11.60	9.20	7.85
Dual Latch (2 Single-input Master/Slave FLIP-FLOPS, Set/Reset)	SN5474†	22.80	18.20	15.75	SN7474†	SN7474N†	11.40	9.10	7.70

SERIES 54930 AND 74930 TTL DIGITALS

Description	Type 54930 Flat Pack	EACH 1-24	25-99	100-999	Type 74930 Flat Pack	EACH 1-24	25-99	100-999
Dual 4-input NAND Gate	SN54930	11.40	9.10	7.70	SN74930	5.70	4.55	3.85
Dual 4-input Buffer	SN54932	13.00	10.40	8.80	SN74932	6.50	5.20	4.40
Quadruple 4-input NAND Gate	SN54946	13.00	10.40	8.80	SN74946	6.50	5.20	4.40
FLIP-FLOP	SN54948	17.80	14.40	12.00	SN74948	8.90	7.20	6.00
Triple 3-input NAND Gate	SN54962	13.00	10.40	8.80	SN74962	6.50	5.20	4.40
8-input NAND Gate	SN54965	11.40	9.10	7.70	SN74965	5.70	4.55	3.85
Dual EXCLUSIVE-OR Gate	SN54966	13.00	10.40	8.80	SN74966	6.50	5.20	4.40

SERIES 54/74 TTL INTEGRATED CIRCUIT COMPLEX FUNCTIONS

TYPES SN5480 AND SN7480 GATED FULL ADDERS. Single-bit, high-speed binary; compatible with both TTL and DTL circuitry. Gating is performed on each logic input, with only one gating delay from carry input to carry output. Add time: 70 ns. Carry time: 8 ns. Power dissipation: 105 mw. No suffix indicates flat pack; suffix N indicates dual inline pack. Replaces 5 multi-function flat packs.

SN5480. 1-24. . Ea. 28.60 25-99. . Ea. 22.90 100-999. . Ea. 19.30
SN7480. 1-24. . Ea. 14.30 25-99. . Ea. 11.95 100-999. . Ea. 9.60
SN7480 N. 1-24. Ea. 14.30 25-99. . Ea. 11.95 100-999. . Ea. 9.60

SN7490 BCD DECADE COUNTER. Divides by 10 with BCD output and symmetrical-waveform output. Divides also by 5 and 2. Can be reset to 0 and 9. Count frequency: 12 MHZ. Power dissipation, 250 mw. Suffix N indicates dual inline pack, see description above. Replaces five flat packs in circuit.

SN7490 N. 1-24. . Ea. 23.20 25-99. . Ea. 18.50 100-999. . . Ea. 15.75

SN5491 AND SN7491 8-BIT SHIFT REGISTER. 8 bits, with serial in, serial out. Built-in inverter permits data input on one lead only. Shift frequency, 15 MHZ. Power dissipation, 190 mw. Available in flat pack or dual inline package (suffix N). Replaces nine multi-function flat packs in circuit.

SN5491. 1-24. . Ea. 62.50 25-99. . Ea. 47.95 100-999. . Ea. 42.50
SN7491. 1-24. . Ea. 31.25 25-99. . Ea. 24.85 100-999. . Ea. 21.25
SN7491 N. 1-24. . Ea. 31.25 25-99. . Ea. 24.85 100-999. . Ea. 21.25

ATTENTION QUANTITY BUYERS

For detailed information on any Texas Instruments device not listed in this catalog, simply contact the Allied facility nearest you. Allied maintains large stocks of TI semiconductors and integrated circuits with new types being added as they are released. Write for prices and delivery information.

See The Following Pages for More Texas Instrument Integrated Circuits

Texas Instruments Integrated Circuits

TYPICAL CHARACTERISTICS

SERIES 53 AND 73

PARAMETER	BASIC AND GATE	FLIP-FLOP
Propagation Delay	5 nsec	60 nsec
Power Dissipation	10 mw	27 mw
D-c Noise margin	300 mv	300 mv
Fan-out	4	10
Supply Voltage	3 to 4 v.	3 to 4 v.
Temperature Range		
Series 53	—55° to +125° C	—55° to +125° C
Series 73	....	0° to +70° C

SERIES 70

PARAMETER	BASIC GATE
Propagation Delay	5 nsec
Power Dissipation	40 mw
Noise Immunity	250 mv
Supply Voltage	1.25 v. to —3.5 V.
Temperature Range	0° to +70° C

As New Integrated Circuits Become Available, Allied Will Stock Them.

HOW TO ORDER

When ordering, specify Department Number 50 D 32 then add TI type number. Ex.: 50 D 32 SN15930

See Page 38 for Illustrations and Descriptions of Cases Listed on This Page.

SERIES 15930 AND 15830

PARAMETER	BASIC GATE	FLIP-FLOP
Propagation Delay	25 nsec	50 nsec
Power Dissipation	5 mw	20 mw
Fan-Out	8	7
D-c noise margin	750 mv	750 mv
Supply Voltage	4.5 to 5.5 v.	4.5 to 5.5 v.
Temperature Range		
Series 15930	—55° to +125° C	—55° to +125° C
Series 15830	0° to +70° C	0° to +70° C

SERIES 51

PARAMETER	BASIC GATE	FLIP-FLOP
Propagation Delay	130 nsec @ 3 v.	
	65 nsec @ 6 v.	300 nsec
Power Dissipation	2 mw @ 3 v.	2 mw @ 3 v.
Fan-out	5, *25	4, *20
D-c noise margin	200 mv	200 mv
Supply Voltage	3 to 6 v.	3 to 6 v.
Temperature Range	—55° to +125° C	—55° to +125° C

*with emitter-follower outputs.

SERIES 1700 (page 40)

PARAMETER	BASIC GATE	REGISTER
Propagation Delay	35 nsec	70 nsec
Power Dissipation	4 mw	15 mw
D-c noise margin	150 mv	150 mv
Fan-out	4	3
Supply Voltage	3 v.	3 v.
Temperature Range		
SN1729-SN1735	—55° to +125° C	—55° to +125° C
SN1761-SN1767	0° to +70° C	0° to +70° C

SERIES 15930 AND 15830 DTL DIGITALS

Description	Series 15930		EACH			Series 15830			EACH		
	Flat Pack	TO-5	1-24	25-99	100-999	Flat Pack	TO-5 Case	Dual Inline	1-24	25-99	100-999
Dual 4-input Expandable NAND Gate	SN15930	SN15930L	15.40	12.25	10.45	SN15830	SN15830L	SN15830N	7.20	5.75	4.90
J-K/R-S Flip-Flop	SN15931	SN15931L	20.40	16.25	13.85	SN15831	SN15831L	SN15831N	11.50	9.15	7.80
Dual 4-input Expandable Buffer	SN15932	SN15932L	17.65	14.05	12.00	SN15832	SN15832L	SN15832N	8.35	6.65	5.65
Dual 4-input Expander	SN15933	SN15933L	7.15	5.70	4.85	SN15833	SN15833L	SN15833N	5.00	4.00	3.40
Dual 4-input Expandable NAND "Power" Gate	SN15944	SN15944L	17.65	14.05	12.00	SN15844	SN15844L	SN15844N	8.35	6.65	5.65
High-performance J-K/R-S Flip-Flop	SN15945	SN15945L	20.40	16.25	13.85	SN15845	SN15845L	SN15845N	11.50	9.15	7.80
Quadruple 2-input NAND Gate	SN15946	SN15946L	17.00	13.55	11.55	SN15846	SN15846L	SN15846N	8.20	6.50	5.55
Fast Rise-time J-K/R-S Flip-Flop	SN15948	SN15948L	20.40	16.25	13.85	SN15848	SN15848L	SN15848N	11.50	9.15	7.80
Pulse-triggered Binary	SN15950	SN15950L	20.40	16.25	13.85	SN15850	SN15850L	SN15850N	11.50	9.15	7.80
"One-Shot" Monostable Multivibrator	SN15951	SN15951L	34.00	27.10	23.10	SN15851	SN15851L	SN15851N	14.75	11.75	10.00
Triple 3-input NAND Gate	SN15962	SN15962L	17.00	13.35	11.55	SN15862	SN15862L	SN15862N	8.20	6.50	5.55

SERIES 53 AND 73 MODIFIED DTL DIGITALS

Description	Series 53	EACH			Series 73		EACH		
	Flat Pack	1-24	25-99	100-999	Flat Pack	Dual Inline	1-24	25-99	100-999
Single-phase J-K Flip-Flop with Preset	SN530	17.75	14.20	12.20	SN7300	SN7300N	8.10	6.45	5.50
J-K Flip-flop with Preset and Clear	SN5301	18.75	14.85	12.75	SN7301	SN7301N	8.50	6.75	5.75
Dual J-K Flip-flop with Preset	SN5302	22.75	18.00	15.50	SN7302	SN7302N	10.50	8.35	7.15
Dual J-K Flip-flop with Preset and Clear	SN5304	22.75	18.00	15.50	SN7304	SN7304N	10.50	8.35	7.15
5-input Expandable NAND/NOR Gate	SN531	11.35	9.00	7.70	SN7310	SN7310N	5.65	4.50	3.85
Dual 5-input NAND/NOR Gate	SN5311	13.00	10.25	8.80	SN7311	SN7311N	6.50	5.15	4.40
10-input NAND Gate	SN5315	13.00	10.25	8.80	SN7315	SN7315N	6.50	5.15	4.40
5-input AND/OR Gate or Expander (*Expander only)	SN532	11.35	9.00	7.70	SN7320*	SN7320N*	5.65	4.50	3.85
Dual 3-input NAND/NOR Gate	SN533	11.35	9.00	7.70	SN7330	SN7330N	5.65	4.50	3.85
Triple 3-input NAND/NOR Gate	SN5331	13.00	10.25	8.80	SN7331	SN7331N	6.50	5.15	4.40
Dual AND/OR Gate (2 and 3 Inputs)	SN534	11.35	9.00	7.70	....	....	.....	.....	.....
Quadruple Inverter/Driver	SN535	11.35	9.00	7.70	SN7350	SN7350N	5.65	4.50	3.85
Quadruple 2-input NAND/NOR Gate	SN5360	13.00	10.25	8.80	SN7360	SN7360N	6.50	5.15	4.40
Dual EXCLUSIVE-OR Gate	SN5370	16.20	12.90	11.00	SN7370	SN7370N	7.70	6.15	5.25
"One Shot" Monostable Multivibrator	SN5380	18.75	14.85	12.75	SN7380	SN7380N	9.75	7.75	6.60

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- You Purchase from a Dependable, Centrally-Located Source, and Receive Personalized Service and Lowest Prices Available.
- Same-Day Shipment. Orders Are Handled and Processed As Soon As Possible After They Are Received.

SERIES 51 RCTL DIGITALS

Description	Series 51	EACH		
	Flat Pack	1-24	25-99	100-999
R-S Flip-flop/Counter	SN510B	28.25	22.50	19.20
R-S Flip-flop with Dual Preset	SN5101B	28.25	22.50	19.20
R-S Flip-flop/Counter with Emitter Follower Outputs	SN511B	31.10	24.75	21.10
R-S Flip-flop with Emitter Follower Outputs, Dual Preset	SN5111B	31.10	24.75	21.10
Ripple-counter Flip-flop (V_{CC}, 3 to 6 v.)	SN5112B	31.10	24.75	21.10
Ripple-counter Flip-flop (V_{CC}, 4 to 6 v.)	SN5113B	28.25	22.50	19.20
6-input NAND/NOR Gate	SN512B	22.30	17.75	15.15
6-input NAND/NOR Gate, Emitter-follower output	SN513B	24.55	19.55	16.65
Dual 3-input NAND/NOR Gate	SN514B	22.30	17.75	15.15
EXCLUSIVE-OR Gate	SN515B	22.30	17.75	15.15
Dual 2-input NAND/NOR Gate and Inverter/Buffer	SN516B	22.30	17.75	15.15
Triple 2-input NAND/NOR Gate	SN5161B	22.30	17.75	15.15
Triple 2-input NAND/NOR Gate with Emitter-follower output	SN5162B	24.55	19.55	16.65
Clock Driver	SN517B	29.50	23.50	20.00
"One Shot" Monostable Multivibrator	SN518B	29.50	23.50	20.00
Pulse EXCLUSIVE-OR Gate	SN5191B	29.50	23.50	20.00

SERIES 70 ECL DIGITAL

Description	Series 70	EACH		
	Flat Pack	1-24	25-249	250-999
Dual OR/NOR Gate (4 Output Resistors)	SN7000	6.00	4.80	4.10

Each series of integrated circuits listed above may be purchased in assorted lots at one quantity price but different numbered series may not be mixed. For example: 100 integrated circuits (Series 15930) may be assorted at one price, but 50 series 15930 and 50 series 15830 would require separate prices. All prices are Factory OEM.

Texas Instruments Integrated Circuits

SERIES 1700 RTL DIGITALS

Description	Series 17908 Flat Pack	Series 17908 TO-5	EACH 1-24	EACH 25-99	EACH 100-999	Series 1761 TO-5	EACH 1-24	EACH 25-99	EACH 100-999
Adder	SN17908A	SN17908L	7.35	6.35	5.40	SN1761L	5.40	4.70	3.95
Buffer	SN17909A	SN17909L	7.00	6.05	5.10	SN1762L	4.95	4.30	3.75
Dual 2-input Gate	SN17910A	SN17910L	6.00	5.20	4.40	SN1763L	4.40	3.85	3.35
Dual 2-input Expander Gate	SN17921A	SN17921L	5.25	4.55	3.85	SN1764L	3.80	3.65	2.80
4-input Gate	SN17911A	SN17911L	6.00	5.20	4.40	SN1765L	4.40	3.85	3.35
Half-adder	SN17912A	SN17912L	7.00	6.05	5.10	SN1766L	4.95	4.30	3.75
Register	SN17913A	SN17913L	8.20	7.10	6.00	SN1767L	6.00	5.20	4.40

TYPICAL CHARACTERISTICS—SERIES 52/72 OPERATIONAL/DIFFERENTIAL AMPLIFIERS

PARAMETER	SN521A Flat Pack	SN522A Flat Pack	PARAMETER	SN523A/ SN723	SN524A/ SN724	SN525A	SN526A
Voltage Gain	1200	12C0	Voltage Gain (differential)	1200	1200	50,000	1200
Input Impedance	12 KΩ	12 KΩ	Input Impedance	12 KΩ	1 meg	100 KΩ	2 meg
Output Impedance	10 KΩ	10 KΩ	Input Offset Voltage	10 KΩ	12 mv	1 mv	3 mv
D-c Drift Referred to Input	8μv/° C	8μv/° C	D-c Drift Referred to Input	8μv/° C	20 μv/° C	5 μv/° C	15 μv/° C
Output Signal Swing	±4.7 v.	±3.7 v.	Output Signal Swing (single ended)	±4.7 v.	±7.5 v	±9 v.	±6 v.*
Common Mode Rejection	60 db	60 db	Common-mode Rejection	60 db	55 db	100 db	80 db
Temperature Range	−55° to +125° C	−55° to +125° C	Temperature Range SN723/ 724	−55° to +125° C 0° to +70 C	−55° to +125° C 0° to +70° C	−55° to +125° C	−55° to +125° C *RL=600

Description	Package. See Page 38.	Type	EACH 1-24	EACH 25-99	EACH 100-999
Operational Amplifier	Flat Pack	SN521A	40.50	32.25	27.50
Operational Amplifier	Flat Pack	SN522A	40.50	32.25	27.50
General Purpose Differential Amplifier	Flat Pack	SN523A	38.95	31.00	26.40
General Purpose Differential Amplifier	TO-5	SN523AL	38.95	31.00	26.40
General Purpose Differential Amplifier	Flat Pack	SN723	27.60	22.00	18.75
General Purpose Differential Amplifier	TO-5	SN723L	27.60	22.00	18.75
General Purpose Operational Amplifier	Flat Pack	SN524A	29.25	23.25	19.80
General Purpose Operational Amplifier	TO-5	SN524AL	29.25	23.25	19.80
High-Performance Differential Amplifier	Flat Pack	SN525A	57.00	45.00	38.50
High-Performance Operational Amplifier	Flat Pack	SN526A	57.00	45.00	38.50
General Purpose Operational Amplifier	Flat Pack	SN724	16.20	12.90	11.00
General Purpose Operational Amplifier	TO-5	SN724L	16.20	12.90	11.00

SERIES 55 HIGH-FREQUENCY AMPLIFIERS

SN5500 MAGNETIC-CORE SENSE AMPLIFIER. High level of complexity, up to seven stages per bar. Transistor f_T is over 1Gc. Input threshold voltage level, 17 mv. Output levels: "Off", 3.2 v.; "On", 0.3 v. Common-mode rejection, 2 volts. Propagation delay, 70 nsec. Temperature range, —55° to +125° C. In standard welded flat package (see page 38 for package description).
SN5500. 1-24 Ea. 56.00 25-99..Ea. 44.50 100-999..Ea. 38.00

SN5510 VIDEO DIFFERENTIAL AMPLIFIER. Seven stages per bar complexity. Transistor f_T is over 1Gc. Voltage gain, open loop, single ended, 40 db. Single ended linear output, 4 v_{p-p}. Bandwidth is within 3 db to 40 mc. Common-mode rejection ratio of 60 db. Input impedance, 3.5 K ohms. Temperature range, —55° to +125° C. In standard welded flat pack (see page 38 for description).
SN5510. 1-24 Ea. 13.80 25-99..Ea. 10.95 100-999....Ea. 9.30

SERIES 75 MAGNETIC CORE SENSE AMPLIFIERS

For use in a wide variety of industrial applications. Output characteristics are compatible with Series 54/74 TTL Digitals. Propagation delay, 60 ns. Overload recovery, less than 100 ns. Input threshold offset is 2 mv, with minimum threshold uncertainty. ON output level is less than 0.4 volts. In packages as indicated, see page 38 for package descriptions.

SN7500. 500 ns. sink/source output. Input threshold, 17 mv. Rejection, 2 v.
SN7500. Imp., 200 ohms. In flat pack.
1-24Ea.33.00 25-99Ea.26.25 100-999Ea.22.24
SN7500L. Imp., 200 ohms. In TO-5 pack
1-24Ea.33.00 25-99Ea.26.25 100-999Ea.22.24

SN7501. With flip-flop output. Adjustable input threshold level. Common-mode rejection, 1 v. Input imp., 3 K ohms. Cycle time, 1 μs. Complementary outputs.
SN7501. In flat pack. 1-24......Ea. 37.00
25-99....Ea. 29.75 100-999.....Ea. 24.25

SN7502. With one-shot output. Adj. threshold input level. Common-mode rejection, 1.5 v. Input imp., 3 K ohms. Adj. output pulse width, dot-OR output capability.
SN7502. In flat pack. 1-24 Ea.......37.00
25-99.....Ea. 29.75 100-999....Ea. 24.25

MINUTEMAN SERIES DTL (In Standard Flat Package, See Page 38)

LOGIC NETWORKS

All have max. power dissipation of 100 mw except SN343A, 50 mw; SN346A, 200 mw. SN344A, SN341A, SN347A and SN359A NAND or NOR networks and SN337A bi-stable network have max. input of 9 volts, max. output of 15 volts, and max. output current of 50 ma. SN343A has output breakdown of 12 volts; input breakdown of +20 volts, —30 volts. SN346A has output breakdown of +12 volts, —12 volts; input breakdown of 12 volts. Preceding are absolute maximum ratings, above which operation and life expectancy may be impaired.

Type No.	Description	Input Ma	EACH 1-24	EACH 25-249
SN344A	Triple High-Level NAND Gate	8	58.00	44.00
SN341A	Clocked 6-Input NAND Gate	3	28.00	22.00
SN347A	Dual Low-Level NAND Gate, Clocked	3	36.00	28.00
SN359A	Dual Low-Level NAND Gate, Unclocked	3	35.00	27.00
SN337A	Flip-Flop	5	70.00	55.00
SN343A	Input Network	1.3	55.00	44.00
SN346A	Output Driver	4	53.50	42.60

LINEAR NETWORKS

SN350A, SN352A have min. AC signal swing of 17.5 V_{p-p}, min. common mode rejection of 80 db, max. common mode input of ±4 v_{p-p}; max. supply: V_{CC1} =8 v., V_{CC2} =—16 v., V_{CC3} =16 v. SN354A enables a DC or low-frequency AC signal to modulate a higher-frequency AC signal (drive voltage), producing a modulated AC signal; has max. standoff of 26 v., max. DC voltage offset of 4.6 mv, and 90° quadrature of ±20 mv. SN355A performs as a power amplifier which separates input signal into 2 signals 180° out of phase. *Min. input impedance.

Type No.	Description	Power Diss.	Min. Cutoff	*zij Kohms	EACH 1-24	EACH 25-249
SN350A	General Purpose Amplifier	175 mw	190 kc	34	122.00	96.75
SN352A	General Purpose Amplifier	175 mw	190 kc	3.4	122.00	96.75
SN354A	Demodulator Chopper	80 mw	....	....	145.00	116.00
SN355A	Power Amplifier/ Driver Switch	200 mw	....	11	71.00	56.75

MEMORY NETWORKS

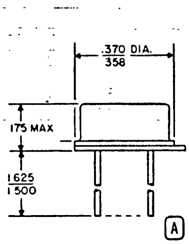
Storage temperature range, —65° to +150°C. SN342A is a voltage amplifier whose nominal gain can be varied by externally altering an internal resistor with 6 taps (provided). SN348A performs as a triple 2-input NOR gate with differing logic levels on inputs and outputs. SN340A is a dual-switching device utilizing diode inputs coupled to common collector NPN output transistors.

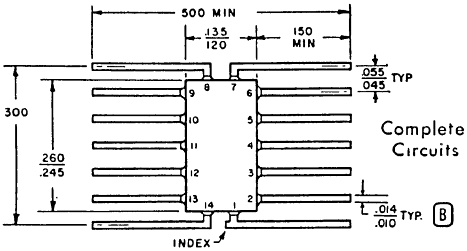
Type No.	Description	BV (Volts) In.	BV (Volts) Out.	Power Diss.	EACH 1-24	EACH 25-249
SN342A	Read Preamplifier	9	9	200 mw	84.00	67.00
SN348A	Matrix Switch	......	15	130 mw	69.00	54.75
SN340A	Low-Level Switch	7	2	50 mw	53.50	42.50

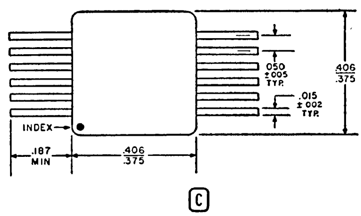
 When Ordering, Specify Dept. No., 50 D 32, and TI Type Number

G.E. Integrated Circuits

MICROELECTRONICS BY GENERAL ELECTRIC







Hybrid circuits made by utilizing transistor and diode elements in combination with thin-film resistors and capacitors. Offer optimum performance, reliability and space savings possibilities. All Integrated Circuits feature planar epitaxial passivated construction, fabricated with diffusion techniques in a single silicon epitaxial monolithic substrate. In hermetically sealed packages.

[A] **12X207-1.** Medium frequency amplifier with 3 very high gain transistors in combination with 5 thin-film resistors. Input impedance is 10 K-ohms minimum; noise voltage is 10 millivolts maximum between 400 and 100,000 cycles. High frequency 3 db point is 40 kc. Minimum supply voltage required is 30 volts; voltage gain with $E_n = 1$ millivolt, 400 cycles is 500/850 millivolts; maximum output voltage is 6 volts. Unit has 10 leads, TO-5 pkg.

12 X 207-1. 1-99 .... Each 75.00
100-999 .... Each 50.00

[A] **12X207-2.** Same as 12X207-1 above, but minimum supply voltage required is 20 volts; voltage gain with $E_n = 1$ millivolt, 400 cycles is 350/700 millivolts; and maximum output voltage is 4.5 volts.

12 X 207-2. 1-99 .... Each 60.00
100-999 .... Each 40.00

[A] **12X257.** Video amplifier with 2 transistors exhibiting f_t's in excess of 600 mcs. Has broadband capabilities for frequencies up to 25 mc. With 8 leads, TO-5 case.

12 X 257. 1-99 .... Each 45.00
100-999 .... Each 30.00

[A] **4JPA114.** Audio frequency amplifier for general purpose high gain applications. Typical current gain with feedback, 6000. Typical bandwidth, 1 mc. Power supply, 12 v. Option for additional stages and provision for feedback circuit. 5 leads, TO-5.

4 JPA 114. 1-9 .... Each 17.30
10-99 .... Each 11.55
100-999 .... Each 7.70

[A] **4JPA908.** Diode shunt quad for gating and ring demodulation. 4 leads, TO-5.

4 JPA 908. 1-9 .... Each 9.65
10-99 .... Each 6.45
100-999 .... Each 4.30

[A] **4JPA909.** As above, but series quad.

4 JPA 909. 1-9 .... Each 9.65
10-99 .... Each 6.45
100-999 .... Each 4.30

[A] **4JPA116.** Summing amplifier with high gain and AC signal addition. Also stable high gain voltage amplifier. Low input and output imp.; large output voltage swing. 10 leads, TO-5 pkg.

4 JPA 116. 1-9 .... Each 73.10
10-99 .... Each 48.75
100-999 .... Each 32.50

HOW TO ORDER

When ordering the G.E. Integrated Circuits on this page, specify Department Number 50 D 3; then add General Electric's manufacturing type number.
Example: 50 D 3 12X207-1

[C] **12X218.** Active functional amplifier circuit featuring unity voltage gain with minimum input impedance of 50 megohms. Output resistance is a minimum of 1.5 K-ohms. Supply voltage required is 45 volts. Temperature range, from —25° to +125°C. With 12 leads, flat pkg.

12 X 218. 1-99 .... Each 82.50
100-999 .... Each 55.00

[B] **4JPA358.** Low-level switch circuit containing 6 diodes. 4 resistors and 2 transistors. Extremely low offset voltage, capacitances, leakage. 14 leads, network pkg.

4 JPA 358. 1-9 .... Each 39.40
10-99 .... Each 26.25
100-999 .... Each 17.50

[B] **4JPA345.** Same as 4JPA358 above, but has tighter specifications.

4 JPA 345. 1-9 .... Each 44.75
10-99 .... Each 29.95
100-999 .... Each 19.90

[A] **4JPA107.** High-performance operational amplifier featuring low input bias current of typically 130 NA, ±12v power supply operation, output voltage swings of 20v p-p, optional input configuration—darlington or single stage.

4 JPA 107. 1-9 .... Each 95.60
10-99 .... Each 63.75
100-999 .... Each 42.50

[A] **4JPA108.** Broadband amplifier featuring a voltage gain in excess of 20 @ 5 mHz. Typical input impedance of 50 ohms, and output impedance of 800 ohms. External provision for gain adjustment.

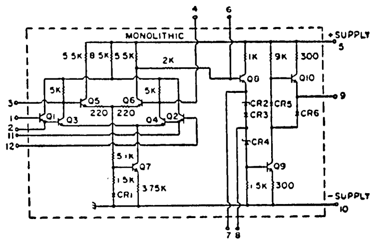
4 JPA 108. 1-9 .... Each 27.55
10-99 .... Each 18.35
100-999 .... Each 12.25

[A] **4JPA113.** 3-stage direct-coupled amplifier featuring high current and high power gains. Usable with supply voltage from 4.5 to 15v. Easy applications of either negative feedback for high gain stability, or positive feedback for monostable, bistable, or astable application.

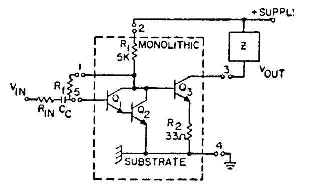
4 JPA 113. 1-9 .... Each 15.15
10-99 .... Each 10.10
100-999 .... Each 6.75

[A] **4JPA135.** Operational amplifier featuring low input current of typically 50 NA, ±6v power supply operation, output voltage swing 8v p-p, optional input configuration—darlington or single stage.

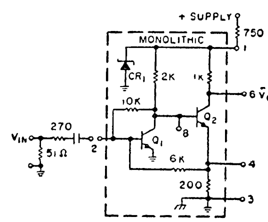
4 JPA 135. 1-9 .... Each 77.10
10-99 .... Each 51.40
100-999 .... Each 34.25



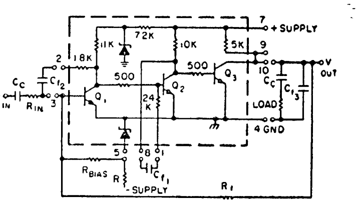
4JPA107 and 4JPA135



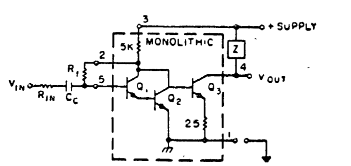
4JPA113



4JPA108



4JPA116



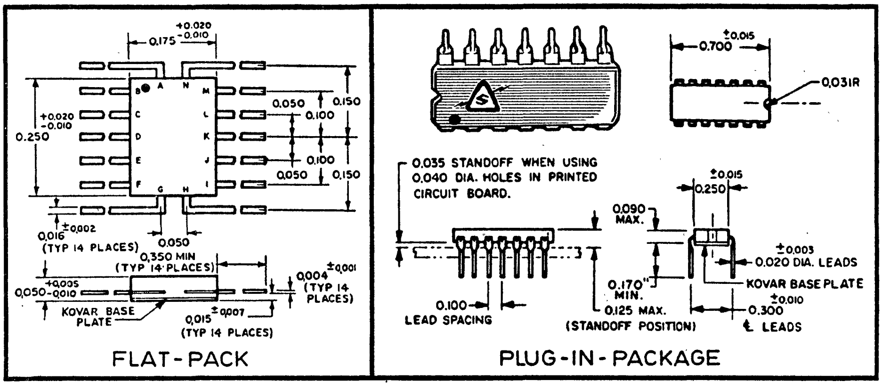
4JPA114

Sylvania Integrated Circuits

HOW TO ORDER

When ordering, please specify Department number 50 D 12, then add Sylvania type number or JEDEC type number. Example: 50 D 12 SG42-02.

SHUL I circuits provide designers with the largest selection of compatible digital functions designed for tomorrow's computer systems. SHUL II types satisfy extreme high-speed requirements while maintaining all other vital characteristics at full levels of efficiency.



Sylvania Digital Integrated Circuits consist of two SHUL (Sylvania Universal High Level Logic) lines, both characterized by high noise margin, fast speed, high logic swing, high fan-out and fan-in, low power and capacitance drive capability. SHUL I is designed for applications up to and including 20 mcs with gate propagation delays in the range of 10 nanoseconds. SHUL II features 6 nanosecond gates and 30 mc J-K Flip-Flops. Both lines are compatible and interchangeable, pin for pin. All circuits shown have a temperature range of 0°C to +75°C, and are available in 14 lead flat pack or plug-in pack. All SHUL I, except *SHUL II; †amplifier.

Flat Pack Type No.	Plug-In Type No.	Circuit Function	Supply VDC	Av Pd (mw)	TPD (nsec)	Noise Immun. + (volts)	−	Fan-out Prime	Std.	EACH 1-24	25-99	100-249
SG42-02	SG42-03	Dual 4 Input	7	15	10	1.1	1.5	12	6	9.30	7.40	6.25
SG43-02	SG43-03	NAND/NOR Gate	7	15	10	1.1	1.5	12	6	6.20	4.95	4.20
SG52-02	SG52-03	Expandable Quad	7	30	12	1.1	1.5	12	6	9.30	7.40	6.25
SG53-02	SG53-03	2 Input or Gate	7	30	12	1.1	1.5	12	6	6.20	4.95	4.20
SG62-02	SG62-03	Single 8 Input	7	15	12	1.1	1.5	12	6	9.30	7.40	6.25
SG63-02	SG63-03	NAND/NOR Gate	7	15	12	1.1	1.5	12	6	6.20	4.95	4.20
SG92-02	SG92-03	Exclusive or	7	35	12	1.1	1.5	12	6	12.30	9.80	8.30
SG93-02	SG93-03	with compliment	7	35	12	1.1	1.5	12	6	8.25	6.55	5.55
SG102-02	SG102-03	Expandable Triple	7	25	12	1.1	1.5	12	6	9.30	7.40	6.25
SG103-02	SG103-03	3 Input or Gate	7	25	12	1.1	1.5	12	6	6.20	4.95	4.20
SG112-02	SG112-03	Expandable Dual	7	20	12	1.1	1.5	12	6	9.30	7.40	6.25
SG113-02	SG113-03	4 Input or Gate	7	20	12	1.1	1.5	12	6	6.20	4.95	4.20
SG122-02	SG122-03	Exp. Single 8	7	15	18	1.1	1.5	12	6	9.30	7.40	6.25
SG123-02	SG123-03	I.P.NAND/NOR Gate	7	15	18	1.1	1.5	12	6	6.20	4.95	4.20
SG132-02	SG132-03	Dual 4 Input Line	7	30	25	1.1	1.5	12	6	11.35	9.05	7.65
SG133-02	SG133-03	Drvr./Lamp Drvr.	7	30	25	1.1	1.5	12	6	7.50	6.00	5.05
SG142-02	SG142-03	Quad 2 Input	7	15	10	1.1	1.5	12	6	10.25	8.20	6.95
SG143-02	SG143-03	NAND/NOR Gate	7	15	10	1.1	1.5	12	6	6.85	5.45	4.60
SG152-02	SG152-03	Quad 2 Input	7	20	4	1.1	1.5	....	....	5.85	4.70	3.95
SG153-02	SG153-03	or Expander	7	20	4	1.1	1.5	....	....	5.85	4.70	3.95
SG162-02	SG162-03	Triple 2 Input	7	15	15	1.1	1.5	12	6	11.38	9.05	7.65
SG163-02	SG163-03	Bus Driver	7	15	15	1.1	1.5	12	6	7.50	6.00	5.05
SG172-02	SG172-03	Dual 4 Input	7	5	3	1.1	1.5	....	....	5.15	4.10	3.45
SG173-02	SG173-03	or Expander	7	5	3	1.1	1.5	....	....	5.15	4.10	3.45
SG182-02	SG182-03	Dual 4 Input and	7	....	....	1.1	1.5	....	....	5.15	4.10	3.45
SG183-02	SG183-03	Expander	7	....	....	1.1	1.5	....	....	5.15	4.10	3.45
SG192-02	SG192-03	Triple 3 Input	7	15	10	1.1	1.5	12	6	10.25	8.20	6.95
SG193-02	SG193-03	NAND/NOR Gate	7	15	10	1.1	1.5	12	6	6.85	5.45	4.60
SF12-02	SF12-03	Set-Reset Flip-	7	30	20mcs	1.1	1.5	12	6	9.30	7.40	6.25
SF13-02	SF13-03	Flop	7	30	20mcs	1.1	1.5	12	6	6.20	4.95	4.20
SF22-02	SF22-03	Two Phase SR	7	40	20mcs	1.1	1.5	12	6	12.30	9.80	8.30
SF23-02	SF23-03	Clocked Flip-Flop	7	40	20mcs	1.1	1.5	12	6	8.25	6.55	5.55
SF32-02	SF32-03	Single Phase SRT	7	30	12mcs	1.1	1.5	12	6	12.30	9.80	8.30
SF33-02	SF33-03	Flip-Flop	7	30	12mcs	1.1	1.5	12	6	8.25	6.55	5.55
SF52-02	SF52-03	J-K Flip-Flop	7	40	20mcs	1.1	1.5	12	6	13.85	11.05	9.35
SF53-02	SF53-03	(and inputs)	7	40	20mcs	1.1	1.5	12	6	9.30	7.40	6.25
SF62-02	SF62-03	J-K Flip-Flop	7	50	20mcs	1.1	1.5	12	6	13.85	11.05	9.35
SF63-02	SF63-03	(or inputs)	7	50	20mcs	1.1	1.5	12	6	9.30	7.40	6.25
SG212-02*	SG212-03*	Expandable Dual	7	30	7	1.0	1.5	9	5	9.30	7.40	6.25
SG213-02*	SG213-03*	4 Input or Gate	7	30	7	1.0	1.5	9	5	6.20	4.95	4.20
SG222-02*	SG222-03*	Quad 2 Input	7	22	6	1.0	1.5	9	5	10.25	8.20	6.95
SG223-02*	SG223-03*	NAND/NOR Gate	7	22	6	1.0	1.5	9	5	6.85	5.45	4.60
SG232-02*	SG232-03*	Quad 2 Input or	7	28	2	1.0	1.5	....	....	5.85	4.70	3.95
SG233-02*	SG233-03*	Expander	7	28	2	1.0	1.5	....	....	5.85	4.70	3.95
SG242-02*	SG242-03*	Dual 4 Input	7	22	6	1.0	1.5	9	5	9.30	7.40	6.25
SG243-02*	SG243-03*	NAND/NOR Gate	7	22	6	1.0	1.5	9	5	6.20	4.95	4.20
SG252-02*	SG252-03*	Expandable Quad	7	43	7.5	1.0	1.5	9	5	9.30	7.40	6.25
SG253-02*	SG253-03*	2 Input or Gate	7	43	7.5	1.0	1.5	9	5	6.20	4.95	4.20
SG262-02*	SG262-03*	Single 8 Input	7	22	8	1.0	1.5	9	5	9.30	7.40	6.25
SG263-02*	SG263-03*	NAND/NOR Gate	7	22	8	1.0	1.5	9	5	6.20	4.95	4.20
SG272-02*	SG272-03*	Dual 4 Input	7	6.7	2	1.0	1.5	....	....	5.15	4.10	3.45
SG273-02*	SG273-03*	or Expander	7	6.7	2	1.0	1.5	....	....	5.15	4.10	3.45
SF252-02*	SF252-03*	J-K Flip-Flop	7	55	30mcs	1.0	1.5	9	5	15.40	12.30	10.40
SF253-02*	SF253-03*	and Inputs	7	55	30mcs	1.0	1.5	9	5	10.25	8.20	6.95
SF262-02*	SF262-03*	J-K Flip-Flop	7	55	30mcs	1.0	1.5	9	5	15.40	12.30	10.40
SF263-02*	SF263-03*	(or Inputs)	7	55	30mcs	1.0	1.5	9	5	10.25	8.20	6.95
SA10-02†	....	Sense Amplifier	......	125	45	......	......	....	....	83.75	72.00	64.80
SA11-02†	....	Flat Pack only	......	125	45	......	......	....	....	56.00	48.00	43.20
SA20†	....	Wideband Video Amplifier; 8-lead TO-5 case only				......	......	....	....	15.60	14.40	12.00

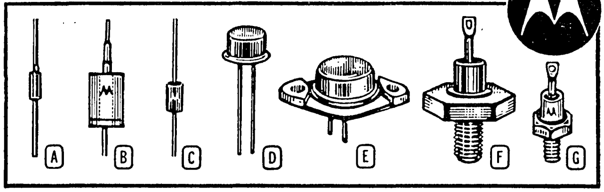
Motorola Silicon Zener Diodes

HOW TO ORDER

When ordering, specify Dept. Number 49 D 26, then add JEDEC type number. Example: 49 D 26, 1N1313.

EXPLANATION OF COLUMN HEADINGS

I_{test}—Test Current
I_{ZM}—Maximum Zener Current
V_Z—Nominal Zener Voltage
Z—Maximum Zener Impedance



‡ASSORTED PRICE FOR 100-999 MUST INCLUDE A MINIMUM OF 10 UNITS OF EACH TYPE ORDERED

ZENER DIODES FOR COMMERCIAL AND MILITARY APPLICATIONS

- Ready availability of standard and military devices
- Meg-A-Life II type for high reliability on 3 levels
- All popular voltage (2.4 to 200) and power (150 mw to 50 watt) ratings
- Motorola diodes are 100% oscilloscope tested to meet the 4-point specifications of V_Z, Z_T, Z_K and I_R, to assure sharp breakdown
- Motorola . . . the symbol of quality in Zener diodes

[D] 150-MW DIFFUSED ZENER DIODES

Available in ±10% tolerance (No suffix) and ±5% tolerance (To order ±5%, add Suffix "A" to Type Number).

Type No.	Vz Volts	Itest ma	Z Ohms	EACH 1-99	Assorted 100-999‡	Single Type 100-999
1N1313	8.75	0.200	......			
1N1314	10.50	0.200	......			
1N1315	12.75	0.200	......			
1N1316	15.75	0.200	......		No Suffix	
1N1317	19.00	0.200	......		(±10% tolerance)	
1N1318	23.50	0.200	......	3.10	2.70	2.35
1N1319	28.50	0.200	......			
1N1320	34.50	0.200	......			
1N1321	41.00	0.200	......			
1N1322	48.50	0.200	......		Suffix "A"	
1N1323	58.00	0.200	......		(±5% tolerance)	
1N1324	71.00	0.200	......	5.45	4.70	4.10
1N1325	87.50	0.200	......			
1N1326	105.00	0.200	......			
1N1327	127.50	0.200	......			

[C] ¼-WATT PASSIVATED DIFFUSED ZENER DIODES

Type No.	Vz Volts	Z Ohms	Izm ma	EACH 1-99	Assorted 100-999‡	Single Type 100-999
1N4099	6.8	200	35.0	5.05	4.35	3.80
1N4100	7.5	200	31.8	5.05	4.35	3.80
1N4101	8.2	200	29.0	5.05	4.35	3.80
1N4102	8.7	200	27.4	5.05	4.35	3.80
1N4103	9.1	200	26.2	5.05	4.35	3.80
1N4104	10	200	24.8	5.05	4.35	3.80
1N4105	11	200	21.6	5.05	4.35	3.80
1N4106	12	200	20.4	5.05	4.35	3.80
1N4107	13	200	19.0	5.05	4.35	3.80
1N4108	14	200	17.5	5.05	4.35	3.80
1N4109	15	100	16.3	5.05	4.35	3.80
1N4110	16	100	15.4	5.05	4.35	3.80
1N4111	17	100	14.5	5.05	4.35	3.80
1N4112	18	100	13.2	5.05	4.35	3.80
1N4113	19	150	12.5	5.05	4.35	3.80
1N4114	20	150	11.9	5.05	4.35	3.80
1N4115	22	150	10.8	5.05	4.35	3.80
1N4116	24	150	9.9	5.05	4.35	3.80
1N4117	25	150	9.5	5.05	4.35	3.80
1N4118	27	150	8.8	5.05	4.35	3.80
1N4119	28	200	8.5	5.05	4.35	3.80
1N4120	30	200	7.9	5.05	4.35	3.80
1N4121	33	200	7.2	5.05	4.35	3.80
1N4122	36	200	6.6	5.05	4.35	3.80
1N4123	39	200	6.1	5.05	4.35	3.80
1N4124	43	250	5.5	5.05	4.35	3.80
1N4125	47	250	5.1	5.05	4.35	3.80
1N4126	51	300	4.6	5.05	4.35	3.80
1N4127	56	300	4.2	5.05	4.35	3.80
1N4128	60	400	4.0	5.05	4.35	3.80
1N4129	62	500	3.8	5.05	4.35	3.80
1N4130	68	700	3.5	5.05	4.35	3.80
1N4131	75	700	3.1	5.05	4.35	3.80
1N4132	82	800	2.9	5.05	4.35	3.80
1N4133	87	1000	2.7	5.05	4.35	3.80
1N4134	91	1200	2.6	5.05	4.35	3.80
1N4135	100	1500	2.3	5.05	4.35	3.80

For any Motorola semiconductors not shown on these pages, Check the Semiconductor Directory, pages 1 through 33.

[C] 400-MW DIFFUSED ZENER DIODES

Available in ±10% (No suffix) and ±5% (Suffix "A") tolerance. Special ±5% types available at slightly higher price: To order MIL-S-19500/127 (Navy) type, use prefix "USN"; for Meg-A-Life II, Level 1, add suffix "ML1"; for Meg-A-Life II, Level 2, add suffix "ML2"; for Meg-A-Life II, Level 3, add suffix "ML3.".

Type No.	Vz Volts	Z Ohms	Izm Ma	EACH 1-99	Assorted 100-999‡	Single Type 100-999
1N4370	2.4	20	30			
1N4371	2.7	20	30			
1N4372	3.0	20	29			
1N746	3.3	20	28			
1N747	3.6	20	24		No Suffix	
1N748	3.9	20	23		(±10% tolerance)	
1N749	4.3	20	22			
1N750	4.7	20	19	2.00	1.70	1.50
1N751	5.1	20	17			
1N752	4.6	20	11			
1N753	6.2	20	7			
1N754	6.8	20	5		Suffix "A"	
1N755	7.5	20	6		(±5% tolerance)	
1N756	8.2	20	8	2.70	2.35	2.05
1N757	9.1	20	10			
1N758	10.0	20	17			
1N759	12.0	20	30			

[C] 400-MW DIFFUSED ZENER DIODES

Type No.	Vz Volts	Itest ma	Z Ohms	EACH 1-99	Assorted 100-999‡	Single Type 100-999
1N957	6.8	18.5	4.5			
1N958	7.5	16.5	5.5			
1N959	8.5	15	6.5		No Suffix	
1N960	9.1	14	7.5		(±20% tolerance)	
1N961	10	12.5	8.5	2.15	1.85	1.60
1N962	11	11.5	9.5			
1N963	12	10.5	11.5			
1N964	13	9.5	13.0			
1N965	15	8.5	16.0		Suffix "A"	
1N966	16	7.8	17.0		(±10% tolerance)	
1N967	18	7.0	21	2.35	2.00	1.75
1N968	20	6.2	25			
1N969	22	5.6	29			
1N970	24	5.2	33			
1N971	27	4.6	41		Suffix "B"	
1N972	30	4.2	49		(±5% tolerance)	
1N973	33	3.8	58	2.95	2.55	2.20
1N974	36	3.4	70			
1N975	39	3.2	80			
1N976	43	3.0	93			
1N977	47	2.7	105		No Suffix (±20%)	
1N978	51	2.5	125			
1N979	56	2.2	150	2.60	2.25	1.95
1N980	62	2.0	185			
1N981	68	1.8	230			
1N982	75	1.7	270			
1N983	82	1.5	330		Suffix "A" (±10%)	
1N984	91	1.4	400	3.60	2.60	2.25
1N985	100	1.3	500			
1N986	110	1.1	750			
1N987	120	1.0	900			
1N988	130	.95	1100		Suffix "B" (±5%)	
1N989	150	.85	1500	3.65	3.15	2.75
1N990	160	.80	1700			
1N991	180	.68	2200			
1N992	200	.65	2500			

Motorola Silicon Zener Diodes

SEE PAGE 43 FOR ILLUSTRATIONS AND COLUMN EXPLANATIONS

[A] ¾-WATT "SURMETIC"® ZENER DIODES

Have void-free silicone polymer case no larger than a 400-mw package. Motorola 4-point specification of V_Z I_R, Z_{zr} and Z_{zk} offer assurance of sharp knee and reliable operation. Add suffix "A" for 10% tol., suffix "B," 5%. No suffix, 20% tol.

Type No.	V_Z (v)	I_{ZT} (ma)	Z_{ZT} @ I_{ZT} (ohms)	EACH 1-99	EACH Assorted 100-Up‡	EACH 100-999
1N3675	6.8	18.5	4.5			
1N3676	7.5	16.5	5.5			
1N3677	8.2	15.0	6.5			
1N3678	9.1	14.0	7.5			
1N3679	10.0	12.5	8.5			
1N3680	11.0	11.5	9.5			
1N3681	12.0	10.5	11.5			
1N3682	13.0	9.5	13.0			
1N3683	15.0	8.5	16.0			
1N3684	16.0	7.8	17.0			
1N3685	18.0	7.0	21.0			
1N3686	20	6.2	25	No suffix, 20% tolerance.		
1N3687	22	5.6	29	3.45	3.00	2.60
1N3688	24	5.2	33			
1N3689	27	4.6	41	"A" suffix, 10% tolerance.		
1N3690	30	4.2	49	4.10	3.55	3.10
1N3691	33	3.8	58			
1N3692	36	3.4	70	"B" suffix, 5% tolerance.		
1N3693	39	3.2	80			
1N3694	43	3.0	93	4.90	4.25	3.70
1N3695	47	2.7	105			
1N3696	51	2.5	125			
1N3697	56	2.2	150			
1N3698	62	2.0	185			
1N3699	68	1.8	230			
1N3700	75	1.7	270			
1N3701	82	1.5	330			
1N3702	91	1.4	400			
1N3703	100	1.3	500			

[A] 1-WATT LOW COST "SURMETIC"® ZENER DIODES

Type No.	V_Z (v)	I_{ZT} (ma)	Z_{ZT} @ I_{ZT} (ohms)	EACH 1-99	EACH Assorted 100-Up‡	EACH 100-999
1N4728	3.3	76	10			
1N4729	3.6	69	10			
1N4730	3.9	64	9			
1N4731	4.3	58	9			
1N4732	4.7	53	8			
1N4733	5.1	49	7			
1N4734	5.6	45	5			
1N4735	6.2	41	2			
1N4736	6.8	37	3.5			
1N4737	7.5	34	4.0			
1N4738	8.2	31	4.5			
1N4739	9.1	28	5.0			
1N4740	10	25	7			
1N4741	11	23	8			
1N4742	12	21	9			
1N4743	13	19	10			
1N4744	15	17	14	No suffix, 10% tol.		
1N4745	16	15.5	16			
1N4746	18	14	10	1.26	1.09	.95
1N4747	20	12.5	22			
1N4748	22	11.5	23	"A" suffix, 5% tol.		
1N4749	24	10.5	25			
1N4750	27	9.4	35	1.93	1.66	1.45
1N4751	30	8.5	40			
1N4752	33	7.5	45			
1N4753	36	7.0	50			
1N4754	39	6.5	60			
1N4755	43	6.0	70			
1N4756	47	5.5	80			
1N4757	51	5.0	95			
1N4758	56	4.5	110			
1N4759	62	4.0	125			
1N4760	68	3.6	150			
1N4761	75	3.3	175			
1N4762	82	3.0	200			
1N4763	91	2.8	250			
1N4764	100	2.5	350			

[B] 1-WATT LOW VOLTAGE ZENER DIODES

Add suffix "A" for 5% tol. No suffix, 10% tol. When ordering MIL types, add prefix "USN" or "JAN." For Meg-A-Life II level 1, add suffix "MIL"; level 2, "ML2"; level 3, "ML3." MIL and Meg-A-Life types available in 5% tol. only, at slightly higher prices.

Type No.	V_Z Volts	I_{test} ma	Z Ohms	EACH 1-99	EACH Assorted 100-Up‡	EACH Single Type 100-999
1N3821	3.3	76	10	No suffix, 10% tol.		
1N3822	3.6	69	10	2.10	1.85	1.60
1N3823	3.9	64	9	"A" suffix, 5% tol.		
1N3824	4.3	58	9	2.65	2.30	2.00

[B] 1-WATT LOW VOLTAGE ZENER DIODES (Cont'd)

Type No.	V_Z Volts	I_{test} ma	Z Ohms	EACH 1-99	EACH Assorted 100-Up‡	EACH Single Type 100-999
1N3825	4.7	53	8	No suffix, 10% tol.		
1N3826	5.1	49	7			
1N3827	5.6	45	5	2.10	1.85	1.60
1N3828	6.2	41	2	"A" suffix, 5% tol.		
1N3829	6.8	37	1.5			
1N3830	7.5	34	1.5	2.65	2.30	2.00

[C] 1-WATT DIFFUSED ZENER DIODES

Add suffix "A" for 10% tolerance, suffix "B" for 5% tolerance. No suffix indicates normal 20% tolerance. For MIL types, add prefix USN or JAN. For Meg-A-Life II, level 1, add suffix ML1; level 2, ML2; level 3, ML3. MIL and Meg-A-Life types available in 5% tolerance only, at slightly higher prices. For reverse polarity in above types, (at same prices), add suffix "R."

Type No.	V_Z Volts	I_{test} ma	Z Ohms	EACH 1-99	EACH Assorted 100-Up‡	EACH Single Type 100-999
1N3016	6.8	37	3.5			
1N3017	7.5	34	4.0			
1N3018	8.2	31	4.5			
1N3019	9.1	28	5			
1N3020	10	25	7			
1N3021	11	23	8			
1N3022	12	21	9			
1N3023	13	19	10			
1N3024	15	17	14			
1N3025	16	15.5	16			
1N3026	18	14	20			
1N3027	20	12.5	22	No suffix, 20% tolerance.		
1N3028	22	11.5	23			
1N3029	24	10.5	25	2.85	2.45	2.15
1N3030	27	9.5	35	"A" suffix, 10% tolerance.		
1N3031	30	8.5	40			
1N3032	33	7.5	45	3.20	2.75	2.40
1N3033	36	7.0	50	"A" suffix, 5% tolerance.		
1N3034	39	6.5	60			
1N3035	43	6.0	70	3.70	3.20	2.80
1N3036	47	5.5	80			
1N3037	51	5.0	90			
1N3038	56	4.5	110			
1N3039	62	4.0	125			
1N3040	68	3.7	150			
1N3041	75	3.3	175			
1N3042	82	3.0	200			
1N3043	91	2.8	250			
1N3044	100	2.5	350			
1N3045	110	2.3	450	No suffix, 20% tolerance.		
1N3046	120	2.0	550	2.95	2.55	2.20
1N3047	130	1.9	700	"A" suffix, 10% tolerance.		
1N3048	150	1.7	1000			
1N3049	160	1.6	1100	3.25	2.80	2.45
1N3050	180	1.4	1200	"B" suffix, 5% tolerance.		
1N3051	200	1.2	1500	4.65	4.05	3.50

[D] 1.5-WATT DIFFUSED ZENER DIODES

Add suffix "A" for 10% tolerance, suffix "B" for 5% tolerance. No suffix indicates normal 20% tolerance. Reverse polarity available at "B" price listings. For reverse polarity, add suffix "R."

JEDEC Type No.	V_Z Volts	I_{test} ma	Z Ohms	EACH 1-99	EACH Assorted 100-Up‡	EACH Single Type 100-999
1N3785	6.8	55	2.7			
1N3786	7.5	50	3.0			
1N3787	8.2	46	3.5			
1N3788	9.1	41	4.0			
1N3789	10	37	5			
1N3790	11	34	6			
1N3791	12	31	7			
1N3792	13	29	8			
1N3793	15	25	10			
1N3794	16	23	11	No suffix, 20% tolerance.		
1N3795	18	21	13	3.75	3.20	2.80
1N3796	20	19	15			
1N3797	22	17	16	"A" suffix, 10% tolerance.		
1N3798	24	16	17			
1N3799	27	14	20	5.30	4.60	4.00
1N3800	30	12	25			
1N3801	33	11	30	"B" suffix, 5% tolerance.		
1N3802	36	10	35	6.95	6.00	5.25
1N3803	39	10	40			
1N3804	43	9.0	45			
1N3805	47	8.0	55			
1N3806	51	7.4	65			
1N3807	56	6.7	75			
1N3808	62	6.0	85			
1N3809	68	5.5	95			
1N3810	75	5.0	110			

Motorola Silicon Zener Diodes

SEE PAGE 43 FOR ILLUSTRATIONS AND COLUMN EXPLANATIONS

[D] 1.5-WATT DIFFUSED ZENER DIODES (Cont'd)

*No suffix, 20% tol.; †"A" suffix, 10% tol.; §"B" suffix, 5% tol.

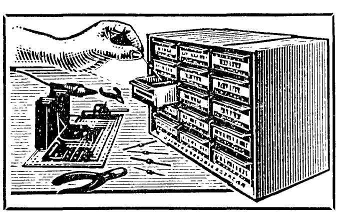
JEDEC Type No.	Vz Volts	I test ma	Z Ohms	EACH 1-99	Assorted 100-Up‡	Single Type 100-999
1N3811	82	4.5	130	3.75*	3.20*	2.80*
1N3812	91	4.1	150	5.30†	4.60†	4.00†
1N3813	100	3.7	200	6.95§	6.00§	5.25‡
1N3814	110	3.4	300	4.75*	4.10*	3.55*
1N3815	120	3.1	350	6.45†	5.60†	4.85†
1N3816	130	2.9	400	8.35§	7.20§	6.30‡
1N3817	150	2.5	700	4.75*	4.10*	3.55*
1N3818	160	2.3	750	7.05†	6.10†	5.30†
1N3819	180	2.1	800	8.80§	7.60§	6.60‡
1N3820	200	1.9	1000			

[E] 10-WATT DIFFUSED ZENER DIODES

Add suffix "A" for 10% tol., suffix "B," 5% tol. No suffix, 20% tol. For MIL types, add prefix USN or JAN. For Meg-A-Life II, level 1, add suffix ML1; level 2, ML2; level 3, ML3. MIL and Meg-A-Life available in 5% tolerance only, at slightly higher prices. For reverse polarity in above types (same prices), add suffix "R."

JEDEC No.	Vz Volts	I test ma	Z Ohms	EACH 1-99	Assorted 100-Up‡	Single Type 100-499	500-999
1N2970	6.8	370	1.2				
1N2971	7.5	335	1.3				
1N2972	8.2	305	1.5				
1N2973	9.1	275	2.0				
1N2974	10	250	3				
1N2975	11	230	3				
1N2976	12	210	3				
1N2977	13	190	3				
1N2978	14	180	3				
1N2979	15	170	3				
1N2980	16	155	4				
1N2981	17	145	4				
1N2982	18	140	4				
1N2983	19	130	4				
1N2984	20	125	4				
1N2985	22	115	5				
1N2986	25	105	5				
1N2987	25	100	6	No suffix, 20% tol.			
1N2988	27	95	7				
1N2989	30	85	8	5.45	4.70	4.10	2.40
1N2990	33	75	9	"A" suffix, 10% tol.			
1N2991	36	70	10	5.85	5.05	4.40	2.65
1N2992	39	65	11				
1N2993	43	60	12	"B" suffix, 5% tol.			
1N2994	45	55	13	7.30	6.30	5.50	3.30
1N2995	47	55	14				
1N2996	50	50	15				
1N2997	51	50	15				
1N2998	52	50	15				
1N2999	56	45	16				
1N3000	62	40	17				
1N3001	68	37	18				
1N3002	75	33	22				
1N3003	82	30	25				
1N3004	91	28	35				
1N3005	100	25	40				
1N3006	105	25	45				
1N3007	110	23	55				
1N3008	120	20	75				
1N3009	130	19	100				
1N3010	140	18	125				
1N3011	150	15	175				
1N3012	160	16	200				
1N3013	175	14	250	6.00	5.15	4.50	2.70 (20%)
1N3014	180	14	260	9.00	7.75	6.75	3.90 (10%)
1N3015	200	12	300	13.75	11.90	10.35	6.20 (5%)

NEW! TYPE MZK100 ZENER DIODE HANDYLAB



Here's a practical convenient tool that every design engineer and technician will find indispensable in lab and prototype work. 100 premium quality Motorola 1-watt Surmetic® zener diodes from 3.3 to 100 volts (±5% tolerance) in a sturdy, functional 15-drawer plastic cabinet. $148 value if bought separately.

MZK100 .... **79.00**

[E] 10-WATT LOW VOLTAGE ZENER DIODES

Add suffix "A" for 5% tolerance. No suffix indicates 10% tolerance. For MIL types, add prefix USN or JAN. For Meg-A-Life II, level 1, add suffix ML1; level 2, ML2, level 3; ML3. MIL and Meg-A-Life types, in 5% tolerance only, at slightly higher prices. For reverse polarity (at same prices) add suffix "R."

JEDEC Type No.	Vz Volts	I test ma	Z Ohms	EACH 1-99	Assorted 100-Up‡	Single Type 100-999
1N3993	3.9	640	2.0			
1N3994	4.3	580	1.5	No suffix, 10% tol.		
1N3995	4.7	530	1.2			
1N3996	5.1	490	1.1	5.65	4.90	4.25
1N3997	5.6	445	1.0	"A" suffix, 5% tol.		
1N3998	6.2	405	1.1	7.70	6.65	5.80
1N3999	6.8	370	1.2			
1N4000	7.5	335	1.3			

[F] [G] 50-WATT DIFFUSED ZENER DIODES

Add suffix "A" for 10% tolerance, suffix "B" for 5% tolerance. No suffix, 20% tolerance. For MIL types, add prefix USN or JAN. For Meg-A-Life II, level 1, add suffix ML1; level 2, ML2; level 3, ML3. MIL and Meg-A-Life types in 5% tolerance only, at slightly higher prices. For reverse polarity (at same prices), add suffix "R."

JEDEC Zener	JEDEC Stud Zener	Vz Volts	I test ma	Z Ohms	EACH 1-99	Assorted 100-999	Single Type 100-999
1N2804	1N3305	6.8	1850	0.2			
1N2805	1N3306	7.5	1750	0.3			
1N2806	1N3307	8.2	1500	0.4			
1N2807	1N3308	9.1	1370	0.5			
1N2808	1N3309	10	1200	0.6			
1N2809	1N3310	11	1100	0.8			
1N2810	1N3311	12	1000	1.0			
1N2811	1N3312	13	960	1.1			
1N2812	1N3313	14	890	1.2			
1N2813	1N3314	15	830	1.4			
1N2814	1N3315	16	780	1.6			
1N2815	1N3316	17	740	1.8			
1N2816	1N3317	18	700	2.0			
1N2817	1N3318	19	660	2.2	No suffix, 20% tol.		
1N2818	1N3319	20	630	2.4	5.65	4.90	4.25
1N2819	1N3320	22	570	2.5			
1N2820	1N3321	24	520	2.6	"A" suffix, 10% tol.		
1N2821	1N3322	25	500	2.7	7.65	6.60	5.75
1N2822	1N3323	27	460	2.8			
1N2823	1N3324	30	420	3.0	"B" suffix, 5% tol.		
1N2824	1N3325	33	380	3.2	10.65	9.20	8.00
1N2825	1N3326	36	350	3.5			
1N2826	1N3327	39	320	4.0			
1N2827	1N3328	43	290	4.5			
1N2828	1N3329	45	280	4.5			
1N2829	1N3330	47	270	5.0			
1N2830	1N3331	50	250	5.0			
1N2831	1N3332	51	245	5.2			
1N2832	1N3334	56	220	6			
1N2833	1N3335	62	200	7			
1N2834	1N3336	68	180	8			
1N2835	1N3337	75	170	9			
1N2836	1N3338	82	150	11			
1N2837	1N3339	91	140	15			
1N2838	1N3340	100	120	20			
1N2839	1N3341	105	120	25	No suffix, 20% tol.		
1N2840	1N3342	110	110	30			
1N2841	1N3343	120	100	40	6.80	5.85	5.10
1N2842	1N3344	130	95	50	"A" suffix, 10% tol.		
1N2843	1N3346	150	85	75	11.30	9.75	8.50
1N2844	1N3347	160	80	80			
1N2845	1N3848	175	70	85	"B" suffix, 5% tol.		
1N2846	1N3349	180	68	90	17.95	15.50	13.50
....	1N3350	200	65	100			

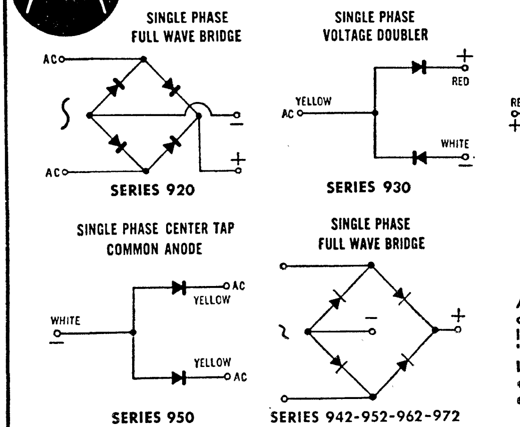
[F] [G] 50-WATT LOW VOLTAGE ZENER DIODES

Add suffix "A" for 10% tolerance, suffix "B" for 5% tolerance. No suffix indicates normal 20% tolerance.

Stud	TO-3	Vz (v)	I_{ZT} (ma)	Z_{ZT} @ I_{ZT} (ohms)	EACH 1-99	Assorted 100-Up‡	100-999
1N4549	1N4557	3.9	3.2	0.16	No suffix, 20% tolerance		
1N4550	1N4558	4.3	2.9	0.16	6.05	5.25	4.55
1N4551	1N4559	4.7	2.65	0.12			
1N4552	1N4560	5.1	2.45	0.12	"A" suffix, 10% tolerance.		
1N4553	1N4561	5.6	2.25	0.12	8.00	6.90	6.00
1N4554	1N4562	6.2	2.0	0.14	"B" suffix, 5% tolerance.		
1N4555	1N4563	6.8	1.85	0.16	11.50	9.95	8.65
1N4556	1N4564	7.5	1.65	0.24			

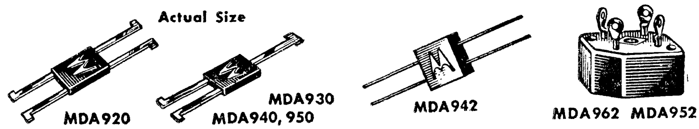
Under Assorted Price, ‡ 10 or More per type

Motorola Diode Assemblies, Rectifier Bridges



SPECIAL INFORMATION

All "MIDA" diodes are also available with round leads. When ordering "MDA" types with round leads, add suffix "A". Example: MDA-920-1 becomes, MDA-920A-1.



"MIDA" MINIATURE INTEGRAL DIODE ASSEMBLIES

- Versatile, Compact, Low Cost
- High Output-Current/Size Ratio
- Simple, Trouble-free Construction

Designed for all sorts of low-current applications where size versus rectified output is of prime importance. Simplified, trouble-free construction. Feature void-free, transfer-molded plastic encapsulation; passivated, diffused silicon dice securely bonded between lead forms. High shock and vibration capabilities. All have interconnecting solderable lead forms; great mechanical and dielectric strength.

GENERAL SPECIFICATIONS: maximum forward voltage drop, 1.2 volts per cell at 500 ma; peak recurrent forward current, 5 amps; peak one cycle surge current, 32 amps; typical thermal resistance, 60°C/watt; maximum reverse current at rated DC voltage, 60 μa at 25°C, 600 μa at 100°C; operating and storage temperature range, —50 to +175°C. Units are extremely compact, only 0.265 inches square and 0.110 inch thick.

HOW TO ORDER

When ordering specify the Department Number 49 D 26, then add the desired Motorola type number or the JEDEC type number. Example: 49 D 26 MDA 920-1.

Type No.	PIV per cell DC or rec. v	EACH 1-24	25-99	100-999
MDA920-1	25	1.42	1.26	.95
MDA920-2	50	1.69	1.50	1.13
MDA920-3	100	1.95	1.73	1.30
MDA920-4	200	2.30	2.05	1.55
MDA920-5	300	2.40	2.10	1.60
MDA920-6	400	2.45	2.20	1.65
MDA920-7	600	3.20	2.85	2.15
MDA930-1	25	.82	.73	.55
MDA930-2	50	.90	.80	.60
MDA930-3	100	.97	.86	.65

Type No.	PIV per cell DC or rec. v	EACH 1-24	25-99	100-999
MDA930-4	200	1.14	1.01	.76
MDA930-5	300	1.21	1.08	.81
MDA930-6	400	1.27	1.13	.85
MDA930-7	600	1.65	1.46	1.10
MDA940-1	25	.82	.73	.55
MDA940-2	50	.90	.80	.60
MDA940-3	100	.97	.86	.65
MDA940-4	200	1.14	1.01	.76
MDA940-5	300	1.21	1.08	.81

Type No.	PIV per cell DC or rec. v	EACH 1-24	25-99	100-999
MDA940-6	400	1.27	1.13	.85
MDA940-7	600	1.65	1.46	1.10
MDA950-1	25	.82	.73	.55
MDA950-2	50	.90	.80	.60
MDA950-3	100	.97	.86	.65
MDA950-4	200	1.14	1.01	.76
MDA950-5	300	1.21	1.08	.81
MDA950-6	400	1.27	1.13	.85
MDA950-7	600	1.65	1.46	1.10

MOLDED ASSEMBLY SINGLE PHASE RECTIFIER BRIDGES

MDA942, 1.5 amps output, flap package; MDA942 also available with single end leads—use suffix A thus: MDA942A-1—prices are same. MDA952 (6 amps); MDA972 (16 amps); MDA962 (10 amps) have solder lugs.

SINGLE PHASE

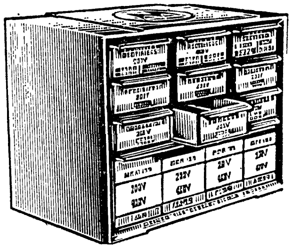
MDA942-1	50	2.15	1.90	1.60
MDA942-2	100	2.40	2.15	1.80
MDA942-3	200	2.65	2.40	2.00
MDA942-4	300	2.95	2.65	2.20
MDA942-5	400	3.10	2.80	2.35
MDA942-6	600	4.10	3.70	3.10
MDA952-1	50	3.25	2.95	2.45

SINGLE PHASE (Cont'd)

MDA952-2	100	3.50	3.20	2.65
MDA952-3	200	4.45	4.00	3.35
MDA952-4	300	4.90	4.45	3.70
MDA952-5	400	6.00	5.40	4.50
MDA962-1	50	3.65	3.30	2.75
MDA962-2	100	3.90	3.55	2.95
MDA962-3	200	4.85	4.40	3.65

SINGLE PHASE (Cont'd)

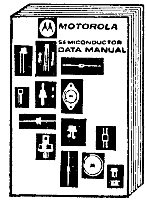
MDA962-4	300	5.30	4.80	4.00
MDA962-5	400	6.40	5.75	4.80
MDA972-1	50	8.75	7.90	6.60
MDA972-2	100	9.30	8.40	7.00
MDA972-3	200	10.35	9.35	7 80
MDA972-4	300	11.45	10.30	8.60
MDA972-5	400	12.50	11.30	9.40



MOTOROLA'S RECTIFIER HANDYLab KIT MRK 200

Includes a wide assortment of rectifiers and molded bridges that cover virtually all lab and benchwork requirements. Priced at less than half the cost of procuring the same devices in low quantity lots. More than 80 separate devices to choose from with ratings ranging from 0.25 to 35 amperes, and 200 to 3000 volts. Saves time in prototyping. Kit valued at $237.10. Shpg. wt., 6 lbs.

MRK 200 .... 94.50



MOTOROLA SEMICONDUCTOR DATA MANUAL

- Eliminates Costly "Filing and Finding"
- Over 2600 Semiconductor Data Sheets

This new edition of Motorola's handy-size data reference manual, offers the ideal solution to the huge "filing and finding" problem for semiconductor device data sheets. In this single, 908-page bound volume is a collection of data sheet information for over 2600 different types of transistors, rectifiers, zener diodes and integrated circuits. Includes over 18 device categories, plus selection guides, cross-reference information, and articles on the meaning and specifications for various parameters. An invaluable reference manual that will more than pay for itself in time saved.

23 D 7114 E 3.50

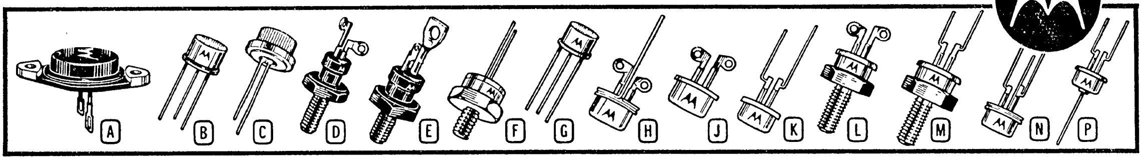
MOTOROLA SILICON RECTIFIER HANDBOOK

- Practical Answers to Design Problems
- Authoritative Guide to Silicon Rectifier Applications

Every engineer involved in the design and use of power control devices, will want to own a copy of this authoritative 216-page reference guide to silicon rectifier applications. Provides the design engineer with up-to-date answers to those vexing everyday circuit design problems. Topics covered include: Computing Single and Multi-Phase Circuit Values; Heat Sinking and Proper Device Cooling; Voltage and Current Surge Protection; the Multi-Cell Approach to Very High-Power Rectification; plus Practical Rectifier Circuits, and much more. Best single source for rectifier design data.

23 D 7416 E 1.50

Motorola Thyristors



EXPLANATION OF COLUMN HEADINGS

T_J—Junction Temperature; V_{FOM}—peak forward blocking voltage; V_{ROM}—peak reverse blocking voltage; I_O—forward current; I_R—reverse current.

LOW AND MEDIUM CURRENT THYRISTORS

Fwd curr is rms at T_J=125° C, except §100° C. #105° C.

Type No.	Fig.	Fwd Curr Amp	V_{ROM} V_{FOM} V	½-Cyc Surge Amp	Fwd Drop V	Max. Gate Firing ma	EACH 1-99	EACH 100-999
MCR649-1	A	20§	25	260	1.5	80	4.40	2.95
MCR649-2	A	20§	50	260	1.5	80	4.95	3.30
MCR649-3	A	20§	100	260	1.5	80	5.85	3.90
MCR649-4	A	20§	200	260	1.5	80	8.25	5.50
MCR649-5	A	20§	300	260	1.5	80	14.30	9.55
MCR649-6	A	20§	400	260	1.5	80	19.05	12.70
MCR649-7	A	20§	500	260	1.5	80	24.20	16.15
2N681	E	25	25	150	1.5	40	5.70	3.80
2N682	E	25	50	150	1.5	40	6.20	4.15
2N683	E	25	100	150	1.5	40	6.95	4.65
2N684	E	25	150	150	1.5	40	8.45	5.65
2N685	E	25	200	150	1.5	40	9.95	6.65
2N686	E	25	250	150	1.5	40	14.40	9.60
2N687	E	25	300	150	1.5	40	16.80	11.20
2N688	E	25	400	150	1.5	40	23.60	15.75
2N689	E	25	500	150	1.5	40	28.70	19.15
MCR846-1	D	2#	25	30	1.2	50	5.15	3.45
MCR846-2	D	2#	50	30	1.2	50	5.75	3.85
MCR846-3	D	2#	100	30	1.2	50	7.35	4.90
MCR846-4	D	2#	200	30	1.2	50	14.60	9.75
MCR1907-1	E	25	25	150	1.7	30	9.00	6.00
MCR1907-2	E	25	50	150	1.7	30	9.75	6.50
MCR1907-3	E	25	100	150	1.7	30	11.50	7.50
MCR1907-4	E	25	200	150	1.7	30	16.20	10.80
MCR1907-5	E	25	300	150	1.7	30	24.45	16.30
MCR1907-6	E	25	400	150	1.7	30	29.25	19.50
2N1595	B	1.6	50	15	2.0	10	3.05	2.05
2N1596	B	1.6	100	15	2.0	10	4.95	3.30
2N1597	B	1.6	200	15	2.0	10	9.45	6.30
2N1598	B	1.6	300	15	2.0	10	14.45	9.65
2N1599	B	1.6	400	15	2.0	10	19.35	12.90
MCR914-1	G	1.6	25	15	1.4	8.0	3.00	2.00
MCR914-2	G	1.6	50	15	1.4	8.0	3.60	2.40
MCR914-3	G	1.6	100	15	1.4	8.0	4.65	3.10
MCR914-4	G	1.6	200	15	1.4	8.0	9.15	6.10
MCR914-5	G	1.6	300	15	1.4	8.0	14.15	9.45
MCR914-6	G	1.6	400	15	1.4	8.0	19.10	12.75
2N1842	E	16§	25	125	1.8	80	4.35	2.90
2N1843	E	16§	50	125	1.8	80	4.80	3.20
2N1844	E	16§	100	125	1.8	80	5.45	3.65
2N1845	E	16§	150	125	1.8	80	6.75	4.50
2N1846	E	16§	200	125	1.8	80	8.00	5.35
2N1847	E	16§	250	125	1.8	80	11.40	7.60
2N1848	E	16§	300	125	1.8	80	13.40	8.95
2N1849	E	16§	400	125	1.8	80	17.10	11.40
2N1850	E	16§	500	125	1.8	80	19.50	13.00
2N1842A	E	16	25	125	1.6	80	5.60	3.75
2N1843A	E	16	50	125	1.6	80	6.20	4.15
2N1844A	E	16	100	125	1.6	80	6.50	4.35
2N1845A	E	16	150	125	1.6	80	8.25	5.50
2N1846A	E	16	200	125	1.6	80	9.30	6.20
2N1847A	E	16	250	125	1.6	80	13.40	8.95
2N1848A	E	16	300	125	1.6	80	16.20	10.80
2N1849A	E	16	400	125	1.6	80	21.30	14.20
2N1850A	E	16	500	125	1.6	80	28.10	18.75
2N2573	A	25	25	260	1.4	40	6.95	4.65
2N2574	A	25	50	260	1.4	40	7.55	5.05
2N2575	A	25	100	260	1.4	40	8.45	5.65
2N2576	A	25	200	260	1.4	40	12.15	8.10
2N2577	A	25	300	260	1.4	40	16.85	11.25
2N2578	A	25	400	260	1.4	40	21.20	14.15
2N2579	A	25	500	260	1.4	40	25.80	17.20

PREMIUM PULSE MODULATOR THYRISTORS

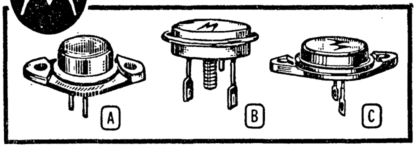
Type No.	Max Turn on Time (nsec)	V_{FOM} Max v	I_O(A) Pulsed	I_R Min	EACH 1-99	EACH 100-999
2N4199	200	300	30	5	21.25	15.00
2N4200	200	400	30	5	28.75	20.00
2N4201	200	500	30	5	32.50	22.50
2N4202	200	600	30	5	47.50	32.50
2N4203	200	700	30	5	77.50	52.50
2N4204	200	800	30	5	107.50	72.50

LOW-COST SILICON-CONTROLLED RECTIFIERS

Junction temperature, 100°C. Types followed by † are available with reverse polarity at slightly higher prices. For reverse polarity, add suffix "R" to the Type No. *(ma).

Type No.	Fig.	I_O (A)	V_{ROM} V_{FOM} V	½-Cyc Surge Amp	Fwd Drop V	*Max. Gate Firing	EACH 1-99	EACH 100-999
MCR808-1†	C	18	25	225	1.5	50	2.80	2.25
MCR808-2†	C	18	50	225	1.5	50	3.10	2.50
MCR808-3†	C	18	100	225	1.5	50	3.80	3.05
MCR808-4†	C	18	200	225	1.5	50	4.50	3.60
MCR808-5†	C	18	300	225	1.5	50	6.75	5.40
MCR808-6†	F	18	400	225	1.5	50	9.70	7.90
MCR1308-1†	F	18	25	225	1.5	50	3.05	2.50
MCR1308-2†	F	18	50	225	1.5	50	3.35	2.75
MCR1308-3†	F	18	100	225	1.5	50	4.05	3.30
MCR1308-4†	F	18	200	225	1.5	50	4.75	3.85
MCR1308-5†	F	18	300	225	1.5	50	7.00	5.65
MCR1308-6†	F	18	400	225	1.5	50	10.05	8.15
MCR2604-1	H	8	25	100	1.3	20	1.55	1.15
MCR2604-2	H	8	50	100	1.3	20	1.70	1.20
MCR2604-3	H	8	100	100	1.3	20	1.85	1.35
MCR2604-4	H	8	200	100	1.3	20	2.05	1.45
MCR2604-5	H	8	300	100	1.3	20	2.50	1.70
MCR2604-6	H	8	400	100	1.3	20	2.90	1.95
MCR2604-7	H	8	500	100	1.3	20	5.10	3.45
MCR2604-8	H	8	600	100	1.3	20	6.85	4.60
FORMER MCR2304 SERIES								
2N4151	J	8	25	100	1.3	20	1.45	1.05
2N4152	J	8	50	100	1.3	20	1.60	1.10
2N4153	J	8	100	100	1.3	20	1.75	1.25
2N4154	J	8	200	100	1.3	20	1.95	1.35
2N4155	J	8	300	100	1.3	20	2.40	1.60
2N4156	J	8	400	100	1.3	20	2.80	1.85
2N4157	J	8	500	100	1.3	20	5.00	3.35
2N4158	J	8	600	100	1.3	20	6.75	4.50
FORMER MCR2304L SERIES								
2N4159	K	8	25	100	1.3	20	1.49	1.09
2N4160	K	8	50	100	1.3	20	1.64	1.14
2N4161	K	8	100	100	1.3	20	1.79	1.29
2N4162	K	8	200	100	1.3	20	1.99	1.39
2N4163	K	8	300	100	1.3	20	2.44	1.64
2N4164	K	8	400	100	1.3	20	2.84	1.89
2N4165	K	8	500	100	1.3	20	5.04	3.39
2N4166	K	8	600	100	1.3	20	6.79	4.54
FORMER MCR2305 SERIES								
2N4167	L	8	25	100	1.3	20	1.60	1.20
2N4168	L	8	50	100	1.3	20	1.75	1.25
2N4169	L	8	100	100	1.3	20	1.90	1.40
2N4170	L	8	200	100	1.3	20	2.10	1.50
2N4171	L	8	300	100	1.3	20	2.55	1.75
2N4172	L	8	400	100	1.3	20	2.95	2.00
2N4173	L	8	500	100	1.3	20	5.15	3.50
2N4174	L	8	600	100	1.3	20	6.90	4.65
FORMER MCR2305L SERIES								
2N4175	M	8	25	100	1.3	20	1.64	1.24
2N4176	M	8	50	100	1.3	20	1.79	1.29
2N4177	M	8	100	100	1.3	20	1.94	1.44
2N4178	M	8	200	100	1.3	20	2.14	1.54
2N4179	M	8	300	100	1.3	20	2.59	1.79
2N4180	M	8	400	100	1.3	20	2.99	2.04
2N4181	M	8	500	100	1.3	20	5.19	3.54
2N4182	M	8	600	100	1.3	20	6.94	4.69
FORMER MCR2604L SERIES								
2N4183	N	8	25	100	1.3	20	1.59	1.19
2N4184	N	8	50	100	1.3	20	1.74	1.24
2N4185	N	8	100	100	1.3	20	1.89	1.39
2N4186	N	8	200	100	1.3	20	2.09	1.49
2N4187	N	8	300	100	1.3	20	2.54	1.74
2N4188	N	8	400	100	1.3	20	2.94	1.99
2N4189	N	8	500	100	1.3	20	5.14	3.49
2N4190	N	8	600	100	1.3	20	6.89	4.64
FORMER MCR2605L SERIES								
2N4191	P	8	25	100	1.3	20	1.59	1.19
2N4192	P	8	50	100	1.3	20	1.74	1.24
2N4193	P	8	100	100	1.3	20	1.89	1.39
2N4194	P	8	200	100	1.3	20	2.09	1.49
2N4195	P	8	300	100	1.3	20	2.54	1.74
2N4196	P	8	400	100	1.3	20	2.94	1.99
2N4197	P	8	500	100	1.3	20	5.14	3.49
2N4198	P	8	600	100	1.3	20	6.89	4.64

Motorola Germanium Power Transistors



Explanation of column heads: **BVCB**, breakdown volts, collector to base; **BVCBO**, **BVCB** with open input; **BVCES**, breakdown volts, collector to emitter, shorted input; **hFE**, DC current gain (large signal DC beta); **Ic**, max. collector current (amps); **Pc**, max. collector power dissipation (watts); **VCER**, collector emitter voltage; **VCEO**, collector emitter voltage, open. **Tj**, junction temp., degrees centigrade. "Doorknob" TO-36 cases (Fig. B) require 30% less headroom than conventional TO-36 cases. ‡in Fig. column indicates Type No. is available for solid lug, with prefix MP. Example: 2N1529 can be ordered for solid lug as Type No. MP1529. Prices are as listed in table for 2N types.

GERMANIUM PNP POWER TRANSISTORS

Type No.	Fig.	Pc (W)	Tj °C	BVCBO or *BVCB	BVCES or †VCER	Ic (A)	hFE min	hFE max	EACH 1-99	EACH 100-999
2N173	B	150	100	60*	50	15	35	70	3.40	2.50
2N174	B	150	100	80*	70	15	25	50	3.60	2.67
2N174A	B	150	100	80*	70	15	25	50	3.80	2.79
2N242	A	106	110	45*	45†	5	30	120	1.65	1.10
2N277	B	150	100	40*	40	15	35	70	2.25	1.66
2N278	B	150	100	50*	45	15	35	70	2.80	2.07
2N297A	A	90	100	60	50	8	40	100	1.60	1.17
2N307	A	106	110	35*	35	5	20	....	1.12	.75
2N307A	A	106	110	35*	35	5	30	....	1.87	1.25
2N375	A	90	100	80	60	3	35	90	2.20	1.65
2N378	A	106	110	20*	20	5	40	80	1.80	1.20
2N380	A	106	110	30*	30	5	30	70	1.70	1.26
2N441	B	150	100	40*	40	15	20	40	1.85	1.25
2N442	B	150	100	50*	45	15	20	40	1.95	1.30
2N443	B	150	100	60*	50	15	20	40	1.90	1.39
2N456A	A	50	100	40*	....	7	30	90	1.80	1.20
2N457A	A	50	100	60*	....	7	30	90	2.20	1.45
2N458A	A	50	100	80*	....	7	30	90	2.65	1.75
2N459	A	106	110	....	70	5	20	70	4.35	2.90
2N459A	A	106	110	105	70	5	40	70	4.65	3.10
2N618	A	90	100	80	60	3	60	140	2.45	1.82
2N627	A	90	110	40	30	10	10	30	2.85	1.90
2N628	A	90	110	60	45	10	10	30	3.35	2.25
2N629	A	90	110	80	60	10	10	30	5.30	3.55
2N630	A	90	110	100	75	10	10	30	6.05	4.05
2N1011	A	90	100	80	80	5	30	75	1.95	1.45
2N1021	A	85	110	100*	....	5	30	90	3.10	2.05
2N1022	A	85	110	120*	....	5	30	90	3.60	2.40
2N1073	C	85	110	40*	40†	10	20	60	2.40	1.78
2N1073A	C	85	110	80*	80†	10	20	60	3.60	2.67
2N1073B	C	85	110	120*	120†	10	20	60	4.50	3.30
2N1099	B	150	100	80*	70	15	35	70	3.90	2.87
2N1100	B	150	100	100*	80	15	25	50	4.50	3.34
2N1120	A	90	100	80	70	15	20	50	8.25	5.50
2N1162	A	90	100	50	35	25	15	65	4.45	3.30
2N1163	A	90	100	50	35	25	15	65	4.45	3.30
2N1164	A	90	100	80	60	25	15	65	6.35	4.70
2N1165	A	90	100	80	60	25	15	65	6.35	4.70
2N1166	A	90	100	100	75	25	15	65	7.55	5.60
2N1167	A	90	100	100	75	25	15	65	7.55	5.60
2N1358	B	150	100	80*	70	15	25	50	4.15	3.06
2N1358A	B	150	100	80	70	15	25	50	6.00	4.45
2N1359	A	90	100	50	40	3	35	90	1.40	1.05
2N1360	A	90	100	50	40	3	60	140	1.70	1.25
2N1362	A	90	100	100	75	3	35	90	2.85	2.12
2N1363	A	90	100	100	75	3	60	140	3.10	2.30
2N1364	A	90	100	120	100	3	35	90	4.75	3.53
2N1365	A	90	100	120	100	3	60	140	5.00	3.70
2N1412	B	150	100	100*	80	15	25	50	4.50	3.34
2N1529	A‡	90	100	40	30	5	20	40	1.45	1.08
2N1530	A‡	90	100	60	45	5	20	40	1.60	1.15
2N1531	A‡	90	100	80	60	5	20	40	2.30	1.70
2N1532	A‡	90	100	100	75	5	20	40	3.00	2.24
2N1533	A‡	90	100	120	90	5	20	40	4.35	3.25
2N1534	A‡	90	100	40	30	5	35	70	1.40	1.05
2N1535	A‡	90	100	60	45	5	35	70	1.50	1.14
2N1537	A‡	90	100	100	75	5	35	70	3.90	2.90
2N1538	A‡	90	100	120	90	5	35	70	5.50	4.05
2N1539	A‡	90	100	40	30	5	50	100	1.50	1.12
....	....	...	...	....	....	...	...	....	.....	......
2N1540	A‡	90	100	60	45	5	50	100	1.58	1.18
2N1541	A‡	90	100	80	60	5	50	100	1.85	1.38
2N1542	A‡	90	100	100	75	5	50	100	2.35	1.75
2N1543	A‡	90	100	120	90	5	50	100	3.60	2.65
2N1544	A‡	90	100	40	30	5	75	150	1.65	1.24
2N1545	A‡	90	100	60	45	5	75	150	1.85	1.35
2N1546	A‡	90	100	80	60	5	75	150	2.30	1.70
2N1547	A‡	90	100	100	75	5	75	150	2.75	2.05
2N1548	A‡	90	100	120	90	5	75	150	4.00	2.95
2N1549	A†	90	100	40	30	15	10	30	2.55	1.70
2N1550	A‡	90	100	60	45	15	10	30	3.05	2.05
2N1551	A‡	90	100	80	60	15	10	30	4.85	3.25
2N1552	A‡	90	100	100	75	15	10	30	5.55	3.70
2N1553	A‡	90	100	40	30	15	30	60	1.85	1.35
2N1554	A‡	90	100	60	45	15	30	60	2.30	1.70
2N1555	A‡	90	100	80	60	15	30	60	2.75	2.05
2N1556	A‡	90	100	100	75	15	30	60	4.00	2.95
2N1557	A‡	90	100	40	30	15	50	100	2.15	1.58
2N1558	A	90	100	60	45	15	50	100	2.80	2.06
2N1559	A	90	100	80	60	15	50	100	3.25	2.40
2N1560	A	90	100	100	75	15	50	100	4.45	3.30
2N1970	B	150	100	100	50	15	17	40	2.35	1.73
2N1980	B	170	110	50	30§	15	50	100	4.50	3.00

GERMANIUM PNP POWER TRANSISTORS (Cont'd)

Type No.	Fig.	Pc (W)	Tj °C	BVCBO or *BVCB	BVCES or §VCEO	Ic (A)	hFE min	hFE max	EACH 1-99	EACH 100-999
2N1981	B	170	110	70	40§	15	50	100	5.50	3.70
2N1982	B	170	110	90	50§	15	50	100	7.80	5.20
2N2075	B	170	110	80	80	15	20	40	5.20	3.84
2N2076	B	170	110	70	70	15	20	40	3.60	2.67
2N2077	B	170	110	50	50	15	20	40	2.85	2.12
2N2078	B	170	110	40	40	15	20	70	1.90	1.39
2N2079	B	170	110	80	80	15	35	70	7.20	5.34
2N2080	B	170	100	70	70	15	35	70	5.10	3.78
2N2081	B	170	110	50	50	15	35	70	3.15	2.32
2N2082	B	170	110	40	40	15	35	70	2.40	1.78
2N2137	A‡	62.5	100	30	30	3	30	60	1.80	1.20
2N2138	A‡	62.5	100	45	45	3	30	60	2.10	1.40
2N2139	A‡	62.5	100	60	60	3	30	60	2.25	1.50
2N2140	A‡	62.5	100	75	75	3	30	60	3.90	2.60
2N2141	A‡	62.5	100	90	90	3	30	60	7.85	5.25
2N2142	A‡	62.5	100	30	30	3	50	100	2.30	1.55
2N2143	A‡	62.5	100	45	45	3	50	100	2.45	1.65
2N2144	A‡	62.5	100	60	60	3	50	100	3.75	2.50
2N2145	A‡	62.5	100	75	75	3	50	100	4.50	3.00
2N2146	A‡	62.5	100	90	90	3	50	100	8.60	5.75
2N2152	B	170	110	45	45	30	50	100	3.60	2.40
2N2153	B	170	110	60	60	30	50	100	5.55	3.70
2N2154	B	170	110	75	75	30	50	100	10.10	6.75
2N2156	B	170	110	45	45	30	80	160	4.10	2.75
2N2157	B	170	110	60	60	30	80	160	6.35	4.25
2N2158	B	170	110	75	75	30	80	160	10.85	7.25
2N2490	B	170	110	70	50	15	20	40	1.88	1.39
2N2491	B	170	110	60	40	15	35	70	2.63	1.95
2N2492	B	170	110	80	65	15	25	50	3.38	2.50
2N2493	B	170	110	100	75	15	25	50	6.00	4.45
2N2526	A	85	110	80	80	10	20	50	7.10	4.75
2N2527	A	85	110	120	120	10	20	50	9.30	6.20
2N2528	A	85	110	160	160	10	20	50	14.85	9.90
2N2728	B	170	110	15	5	50	20	.....	11.25	7.50
2N2832	A	...	110	....	50	20	25	.....	9.00	6.00
2N2833	A	...	110	....	75	20	25	.....	13.00	8.70
2N2834	A	...	110	....	100	20	25	.....	22.50	15.00
2N2912	....	...	110	15	....	25	75	....	8.10	5.40
2N3311	B	170	110	30*	30	5	60	120	2.70	1.80
2N3312	B	170	110	45*	45	5	60	120	3.30	2.20
2N3313	B	170	110	60*	60	5	60	120	4.20	2.80
2N3314	B	170	110	30*	30	5	100	200	3.15	2.10
2N3315	B	170	110	45*	45	5	100	200	3.90	2.60
2N3316	B	170	110	60*	60	5	100	200	5.25	3.50
2N3611	B	85	100	40	30	7	35	70	1.15	.78
2N3612	B	85	100	60	45	7	30	70	1.30	.88
2N3613	B	85	100	40	30	7	60	120	1.25	.85
2N3614	B	85	100	60	45	7	60	120	1.40	.94
2N3615	B	85	100	80	60	7	30	60	1.65	1.10
2N3616	B	85	100	100	75	7	30	60	2.10	1.39
2N3617	B	85	100	80	60	7	45	90	1.88	1.25
2N3618	B	85	100	100	75	7	45	90	2.37	1.58
2N4048	B	170	110	45	45	60	60	120	6.35	4.25
2N4049	B	170	110	60	60	60	60	120	10.80	7.20
2N4050	B	170	110	75	75	60	60	120	14.25	9.50
2N4051	B	170	110	45	45	60	80	180	7.40	4.95
2N4052	B	170	110	60	60	60	80	180	12.00	8.00
2N4053	B	170	110	75	75	60	80	180	16.10	10.75
2N4276	A	106	110	30	20§	60	60	120	4.65	3.10
2N4277	A	106	110	30	20§	60	80	180	5.60	3.75
2N4278	A	106	110	45	30§	60	60	120	6.15	4.10
2N4279	A	106	110	45	30§	60	80	180	7.10	4.75
2N4280	A	106	110	60	45§	60	60	120	10.55	7.05
2N4281	A	106	110	60	45§	60	80	180	11.75	7.85
2N4282	A	106	110	75	60§	60	60	120	14.00	9.35
2N4283	A	106	110	75	60§	60	80	180	15.90	10.60
MP500	B	170	110	45	45	60	30	60	5.70	3.80
MP501	B	170	110	60	60	60	30	60	9.00	6.00
MP502	B	170	110	75	75	60	30	60	12.00	8.00
MP504	B	170	110	45	45	60	50	100	6.60	4.40
MP505	B	170	110	60	60	60	50	100	10.20	6.80
MP506	B	170	110	75	75	60	50	100	13.85	9.25
MP525	A	106	110	35	60	10	30	200	1.00	.75
MP800	A	....	110	....	60	150	15	.....	90.00	60.00
MP801	A	....	110	....	75	150	15	....	75.00	50.00
MP1612	A	85	110	100	50	20	25	100	3.55	3.65
MP1612A	A	85	110	140	75	20	25	100	3.90	2.90
MP1612B	A	85	110	160	100	20	25	100	4.20	3.10
MP1613	A	85	110	100	90	7	40	200	1.35	1.00
MP2060	B	85	100	40	30	7	30	200	1.05	.75
MP2061	B	85	100	60	45	7	30	200	1.15	.85
MP2062	B	85	100	75	60	7	30	200	1.35	1.00
MP2063	B	85	100	90	75	7	30	200	1.65	1.25

Specify Department No. 49 D 26, and Motorola or JEDEC Type Number

Motorola Germanium and Silicon Transistors

"MEG-A-LIFE" INDUSTRIAL POWER TRANSISTORS

"Meg-A-Life" tests are conducted in accordance with MIL-S-19500, with sampling based on MIL-STD-105. †For solid lugs use prefix "MP" in place of "2N." Price same as 2N types. See Semiconductor Directory for quantity price.

Type No.	1-99 Ea.	Type No.	1-99 Ea.	Type No.	1-99 Ea.
2N1162A	5.08	2N1535A†	2.10	2N1549A†	3.30
2N1163A	5.08	2N1536A†	2.20	2N1550A†	3.80
2N1164A	6.95	2N1537A†	4.45	2N1551A†	5.60
2N1165A	6.95	2N1539A†	2.05	2N1552A†	6.30
2N1166A	8.10	2N1540A†	2.10	2N1553A†	2.35
2N1167A	8.10	2N1541A†	2.35	2N1554A†	2.85
2N1529A†	1.80	2N1542A†	3.04	2N1555A†	3.45
2N1530A†	2.00	2N1544A†	2.22	2N1556A†	4.65
2N1531A†	2.85	2N1545A†	2.35	2N1557A†	2.70
2N1532A†	3.58	2N1546A†	2.95	2N1558A	3.40
2N1534A†	1.95	2N1547A	3.45	2N1559A	3.90

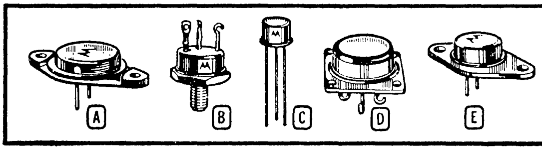
Type No.	1-99 Ea.	Type No.	1-99 Ea.	Type No.	1-99 Ea.
2N1560A	5.00	2N2139A†	3.00	2N2154A	10.85
2N2075A	6.50	2N2140A†	4.65	2N2156A	4.85
2N2076A	4.75	2N2141A†	8.60	2N2157A	7.10
2N2077A	3.95	2N2142A†	3.05	2N2158A	11.60
2N2078A	2.85	2N2143A†	3.20	MP500A	7.10
2N2079A	8.75	2N2144A†	4.50	MP501A	11.55
2N2080A	6.40	2N2145A†	5.25	MP502A	15.00
2N2081A	4.25	2N2146A†	9.35	MP504A	8.15
2N2082A	3.40	2N2152A	4.35	MP505A	12.75
2N2137A†	2.55	2N2153A	6.30	MP506A	16.85
2N2138A†	2.85	....	....	....	....

NPN SILICON POWER TRANSISTOR (*Fig.)

Type No.	*	Dc (A)	VCB (v)	VCEO (v)	hFE min/max	Ic (A)	TJ °C	Po@Tc= 25° C (w)	EACH 1-99	EACH 100-999
2N1724	B	5	120	80	20/90	2	200	117	55.50	37.00
2N1725	B	5	120	80	....	2	200	117	57.00	38.00
2N3232	A	10	60	60	15/75	3	200	117	3.75	2.50
2N3235	A	10	55	55	20/70	4	200	117	3.75	2.50
2N3445	A	7.5	80	60	20/60	3	200	117	12.00	8.00
2N3446	A	7.5	100	80	20/60	3	200	117	18.00	12.00
2N3447	A	7.5	80	60	40/120	5	200	117	19.50	13.00
2N3448	A	7.5	100	80	40/120	5	200	117	29.25	19.50
2N3490	B	7.5	80	60	40/120	5	200	117	48.00	32.00
2N3491	B	7.5	100	80	40/120	5	200	117	63.00	42.00
2N3492	B	7.5	120	100	30/90	5	200	117	75.00	50.00
2N3713	A	10	80	60	25/90	1	200	150	4.40	2.95
2N3714	A	10	100	80	25/90	1	200	150	4.70	3.15
2N3715	A	10	80	60	50/150	1	200	150	4.85	3.25
2N3716	A	10	100	80	50/150	1	200	150	6.75	4.50
2N3738	E	0.5	250	225	40/120	0.1	175	20	2.25	1.50
2N3739	E	0.5	325	300	40/200	0.1	175	20	2.45	1.65
2N3766	E	1	80	60	40/160	0.5	175	20	2.10	1.40
2N3767	E	1	100	80	40/160	0.5	175	20	2.30	1.55
2N4237	C	1	....	40	40/160	0.5	....	5	2.25	1.50
2N4238	C	1	....	60	40/160	0.5	....	5	2.75	1.85
2N4239	C	1	....	80	40/160	0.5	....	5	3.05	2.05
MJ2249	E	1	60	60	25/120	0.5	200	17.5	2.02	1.35
MJ2250	E	1	80	80	25/200	0.5	200	17.5	2.15	1.45
MJ2255	A	8	40	.....	15/—	5	200	120	2.70	1.80
MJ2256	A	8	60	.....	15/—	5	200	120	3.05	2.05
MJ2257	A	8	80	.....	15/—	5	200	120	4.40	2.95
MJ2801	A	10	50	40	15/60	8	200	25	2.85	1.90
MJ2802	A	10	70	60	15/60	8	200	25	3.75	2.50

HOW TO ORDER

When ordering, specify Dept. No. 49 D 26, then add Motorola type number or JEDEC type number. Example: 49 D 26 2N3021.



PNP SILICON POWER TRANSISTORS (*Fig.)

Type No.	*	Dc (A)	VCB (v)	VCEO (v)	hFE min/max	Ic (A)	TJ °C	Po@Tc= 25° C (w)	EACH 1-99	EACH 100-999
2N3021	A	3	30	30	20/60	1	175	25	33.00	22.00
2N3022	A	3	45	45	20/60	1	175	25	45.00	30.00
2N3023	A	3	60	60	20/60	1	175	25	67.50	45.00
2N3024	A	3	30	30	50/180	1	175	25	45.00	30.00
2N3025	A	3	45	45	50/180	1	175	25	60.00	40.00
2N3026	A	3	60	60	50/180	1	175	25	75.00	50.00
2N3719	C	3	40	40	25/180	1	200	6	11.90	7.95
2N3720	C	3	60	60	25/180	1	200	6	13.40	8.95
2N3740	E	1	60	60	30/100	.25	200	25	2.90	1.95
2N3741	E	1	80	80	30/100	.25	200	25	3.15	2.10
2N3789	A	10	60	60	25/90	1	200	150	8.90	5.95
2N3790	A	10	80	80	25/90	1	200	150	10.65	7.10
2N3791	A	10	60	60	50/150	1	2—	150	12.35	8.25
2N3792	A	10	80	80	50/150	1	200	150	14.85	9.90
2N4234	C	1	—	40	30/150	.25	—	5	3.00	2.00
2N4235	C	1	—	60	30/150	.25	—	5	3.60	2.39
2N4236	C	1	—	80	30/150	.25	—	5	4.00	2.66

MILLIWATT SILICON MODERATE-POWER TRANSISTORS

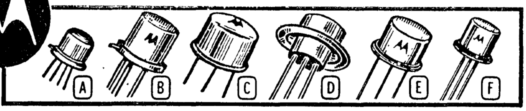
Wide selection of milliwatt power transistors suitable for audio, switching and control applications requiring moderate power levels and current gains to 500—at frequencies to 3 megacycles. †"Meg-A-Life," tested to military standards. (Case style, Fig. C.)

Type No.	PD Mw	BVCBO Volts	Ic Ma	EACH 1-99	EACH 100-999
2N319	225	25	500	.44	.29
2N320	225	25	500	.59	.39
2N321	225	25	500	.65	.43
2N322	225	25	500	.42	.28
2N323	225	25	500	.59	.39
2N324	225	25	500	.63	.42
2N331	200	30	200	1.50	1.00
2N381	225	50	400	.82	.55
2N382	225	50	400	1.12	.75
2N383	225	50	400	1.42	.95
2N398	50	105	100	1.30	.87
2N398A	150	105	200	1.30	.87
2N460	225	45	400	1.50	1.00
2N461	225	45	400	1.52	1.01
2N464	200	45	100	1.50	1.00
2N465	200	45	100	1.50	1.00
2N466	200	35	100	1.65	1.10
2N467	200	35	100	2.10	1.40
2N508	225	25	500	.69	.46
2N508A	200	30	200	.73	.49
2N524	225	45	500	1.02	.68
2N524A†	225	45	500	1.32	.88
2N525	225	45	500	1.02	.68
2N525A†	225	45	500	1.32	.88
2N526	225	45	500	1.04	.69
2N526A†	225	45	500	1.33	.89
2N527	225	45	500	1.23	.82
2N527A†	225	45	500	1.39	.93
2N650	200	45	500	1.65	1.10
2N650A†	200	45	500	1.69	1.13
2N651	200	45	500	1.65	1.10

Type No.	PD Mw	BVCBO Volts	Ic Ma	EACH 1-99	EACH 100-999
2N651A†	200	45	500	1.69	1.13
2N652	200	45	500	2.17	1.45
2N652A†	200	45	500	2.25	1.50
2N653	200	30	250	1.65	1.10
2N654	200	30	250	1.80	1.20
2N655	200	30	250	1.95	1.30
2N1008	200	20	300	.75	.50
2N1008A	200	40	300	.83	.55
2N1008B	200	60	300	.92	.61
2N1175	225	60	500	.87	.58
2N1185	200	45	500	2.40	1.60
2N1186	200	60	500	2.60	1.75
2N1187	200	60	500	2.60	1.75
2N1188	200	60	500	3.15	2.10
2N1189	200	45	500	1.50	1.00
2N1190	200	45	500	1.67	1.11
2N1191	200	40	200	1.12	.75
2N1192	200	40	200	1.12	.75
2N1193	200	40	200	1.50	1.00
2N1194	200	40	200	1.65	1.10
2N1408	150	50	200	.83	.55
2N1413	225	35	500	.73	.49
2N1414	225	60	500	.78	.52
2N1415	225	60	500	.92	.61
2N1705	200	18	400	.60	.40
2N1706	200	25	400	.66	.44
2N1707	200	30	400	.67	.45
2N1924	225	60	500	1.57	1.04
2N1925	225	60	500	1.77	1.18
2N1926	225	60	500	2.08	1.39

Type No.	PD Mw	BVCBO Volts	Ic Ma	EACH 1-99	EACH 100-999
2N2042	200	105	200	1.85	1.25
2N2042A†	200	105	200	2.25	1.50
2N2043	200	105	200	2.25	1.50
2N2043A†	200	105	200	2.60	1.75
2N2171	225	50	400	1.27	.85
2N3427	200	45	500	1.34	.89
2N3428	200	45	500	1.50	1.00
MA100	200	60	500	1.00	.67
MA200	150	105	200	.58	.39
MA201	150	105	200	.67	.45
MA202	150	105	200	.67	.45
MA203	150	105	200	.75	.50
MA204	150	90	200	.58	.39
MA205	150	75	200	.50	.33
MA206	150	60	200	.42	.28
MA881	200	60	500	.72	.48
MA882	200	60	500	.80	.53
MA883	200	60	500	.89	.59
MA884	200	60	500	.98	.65
MA885	200	50	500	.50	.33
MA886	200	50	500	.59	.39
MA887	200	50	500	.68	.45
MA888	200	50	500	.75	.50
MA889	200	50	500	.84	.56
MA909	150	75	200	.63	.42
MA910	150	90	200	.75	.50
MA1703	200	25	500	1.17	.78
MA1704	200	25	500	1.34	.89
MA1706	200	15	500	1.00	.67
MA1707	200	15	500	1.17	.78

Motorola Switching Transistors



HOW TO ORDER

When ordering, specify Department Number 49 D 26, then add Motorola Type Number or JEDEC Type Number. Example 49 D 26 2N1940.

EXPLANATION OF COLUMN HEADINGS

f_T—gain-bandwidth product
h_{FE}—large signal DC gain
I_c—maximum collector current
P_d—transistor power dissipation
P_o—maximum power output
T_j—junction temperature
V_{CB}—maximum collector-to-base voltage
*—stud mounted †—epitaxial
#Solid header

GERMANIUM PNP MESA SWITCHING TYPES

For a variety of high speed switching applications. All have junction temperature of 100°C.

Type No.	Case	P_o (mw)	V_{CB} (Volts)	h_{FE} @ I_c typ.	(ma)	f_t typ. (mc)	EACH 1-99	EACH 100-999
2N705	B	150	15	40	10	325	1.80	1.20
2N710	B	150	15	40	10	325	1.57	1.05
2N711	B	150	12	30	10	300	1.12	.75
2N711A	B	150	15	25	10	...	1.35	.90
2N711B	B	150	18	50	10	320	1.42	.95
2N827	B	150	20	150	10	350	2.50	1.65
2N828	B	150	20	150	10	350	3.30	2.20
2N828A†	B	150	15	40	10	400	3.75	2.50
2N829†	B	150	15	80	10	400	4.45	2.95
2N838	B	150	30	70	10	450	5.40	3.60
2N960†	B	150	15	40	10	460	1.26	.84
2N961†	B	150	12	40	10	460	1.21	.81
2N962†	B	150	12	40	10	460	1.18	.79
2N963†	B	150	12	40	10	460	1.08	.72
2N964†	B	150	15	70	10	460	1.57	1.04
2N964A†	B	150	15	80	10	460	5.25	3.50
2N965†	B	150	12	70	10	460	1.44	.96
2N966†	B	150	12	70	10	460	1.40	.93
2N967†	B	150	12	70	10	460	1.25	.83
2N968	B	150	15	35	10	320	1.53	1.02
2N969	B	150	12	35	10	320	1.24	.83
2N970	B	150	12	35	10	320	.89	.59
2N971	B	150	7	75	10	320	.84	.56
2N972	B	150	15	75	10	320	1.60	1.07
2N973	B	150	12	75	10	320	1.35	.90
2N974	B	150	12	75	10	320	.94	.63
2N975	B	150	7	75	10	320	.89	.59
2N985	B	150	15	80	100	450	2.88	1.92
2N1204†	C	250	20	30	400	400	1.65	1.10
2N1204A†	C	300	20	...	...	...	1.65	1.10
2N1494†	C*	300	20	30	400	400	2.17	1.45
2N1494A†	C*	500	20	35	400	...	2.17	1.45
2N1495†	C	250	40	40	200	400	3.30	2.20
2N1496†	C*	300	40	40	200	400	3.80	2.55
2N1940	E	350	28	...	...	...	45.00	30.00
2N2096†	C*	300	25	35	400	400	1.65	1.10
2N2097†	C*	300	40	50	400	400	3.30	2.20
2N2099†	C	500	25	35	400	400	2.17	1.45
2N2100†	C	500	40	50	400	400	3.80	2.55
2N2258	B	150	7	30	10	320	1.12	.75
2N2259	B	150	7	50	10	320	1.27	.85
2N2381†	C	300	30	45	200	400	4.65	3.10
2N2382†	C	300	45	45	200	400	5.15	3.45
2N2635	B	150	30	30 min.	100	150 min.	1.75	1.15
2N2955†	B	150	40	43	10	350	2.48	1.65
2N2956†	B	150	40	64	10	375	2.63	1.75
2N2957†	B	150	40	105	10	400	3.37	2.25
2N3883	C	750	25	30	200	300	1.35	.90
MM2550	B	150	20	35	10	1200	9.00	6.00
MM2552	C	300	20	50	25	1200	9.00	6.00
MM2554	C	300	20	35	40	1200	9.00	6.00

SILICON NPN ANNULAR EPITAXIAL TYPES

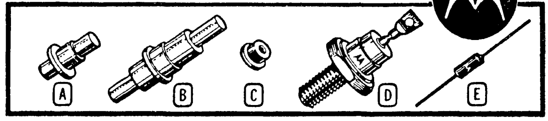
Manufactured by Motorola's improved low-leakage, high-stability Annular process.

Type No.	Case	P_d (mw)	T_j °C	V_{CB} (v.)	h_{FE} @ I_c min/max.	(ma)	f_r min. (mc)	EACH 1-99	EACH 100-999
2N697	C	600	175	60	40/120	150	50	2.07	1.38
2N706	B	300	175	25	20/	10	200	.98	.65
2N706A	B	300	175	25	20/60	10	200	1.18	.79
2N706B	B	300	175	25	20/60	10	200	1.48	.99
2N708	B	360	200	40	30/120	10	300	1.28	.85
2N718	B	400	175	60	40/120	150	50	1.29	.86
2N718A	B	500	200	75	40/120	150	60	1.51	1.01
2N744	B	300	200	20	40/120	10	280	2.90	1.95
2N753	B	300	175	25	40/120	10	200	1.97	1.31
2N834	B	300	175	40	25/	10	350	2.00	1.35
2N835	B	300	175	25	20/	10	300	1.50	1.00
2N914	B	360	200	40	30/120	10	300	1.57	1.05

SILICON NPN ANNULAR EPITAXIAL TYPES (Cont'd)

Type No.	Case	P_d (mw)	T_j °C	V_{CB} or †† V_{CEO}	h_{FE} @ I_c min./max.	(ma)	f_r min. (mc)	EACH 1-99	EACH 100-999
2N915	B	360	200	50	50/200	10	250	5.85	3.90
2N916	B	360	200	25	50/200	10	300	4.95	3.30
2N929	B	300	175	45	40/120	10	30	4.10	2.75
2N930	B	300	175	45	100/300	10	30	4.50	3.00
2N956	B	500	200	75	100/300	150	70	2.16	1.44
2N1420	C	600	175	70	100/300	150	50	1.48	.99
2N1613	C	800	200	75	40/120	150	60	1.50	1.00
2N1711	C	800	200	75	100/300	150	70	1.75	1.17
2N1893	C#	800	200	120	40/120	150	50	2.45	1.65
2N2192	C	800	200	60	100/300	150	50	4.20	2.80
2N2192A	C	800	200	60	100/300	150	50	4.40	2.95
2N2192B	C	800	200	60	100/300	150	50	12.45	8.30
2N2193	C	800	200	80	40/120	150	50	2.90	1.95
2N2193A	C	800	200	80	40/120	150	50	3.15	2.10
2N2193B	C	800	200	80	40/120	150	50	10.80	7.20
2N2194	C	800	200	60	20/60	150	50	2.18	1.45
2N2194A	C	800	200	60	20/60	150	50	2.40	1.60
2N2194B	C	800	200	60	20/60	150	50	8.25	5.50
2N2195	C	600	200	45	20/—	150	50	1.65	1.10
2N2195A	C	600	200	45	20/—	150	50	1.80	1.20
2N2195B	C	600	200	45	20/—	150	50	2.40	1.60
2N2217	C	800	175	60	40/120	150	250	3.35	2.25
2N2218	C	800	175	75	40/120	150	250	3.35	2.25
2N2218A	C	800	175	75	40/120	150	250	5.25	3.50
2N2219	C	800	175	60	100/300	150	250	3.35	2.25
2N2219A	C	800	175	75	100/300	150	300	6.00	4.00
2N2220	B	500	175	60	20/60	150	250	3.35	2.25
2N2221	B	500	175	60	40/120	150	250	3.35	2.25
2N2221A	B	500	175	75	40/120	150	250	5.25	3.50
2N2222	B	500	175	60	100/300	150	250	3.35	2.25
2N2222A	B	500	175	75	100/300	150	300	6.00	4.00
2N2256	B	1000	175	7	20/35	25	250	1.12	.75
2N2257	B	1000	175	7	20/35	25	250	1.27	.85
2N2368	B	1200	200	40	20/60	10	400	2.30	1.54
2N2369	B	360	200	40	40/120	10	500	2.40	1.60
2N2405	C	800	200	120	60/200	150	50	4.10	2.75
2N2481	B	360	200	40	40/120	10	500	2.63	1.75
2N2501	B	360	200	40	50/150	10	350	4.70	3.15
2N2537	C	800	200	60	50/150	150	250	4.95	3.30
2N2538	C	800	200	60	100/300	150	250	5.85	3.90
2N2539	B	500	200	60	50/150	150	250	4.95	3.30
2N2540	B	500	200	60	100/300	150	400	5.85	3.90
2N2958	C	600	175	60	40/120	150	120	2.25	1.50
2N2959	C	600	175	60	100/300	150	250	2.70	1.80
2N3115	B	400	175	60	40/120	150	250	1.95	1.30
2N3116	B	400	175	60	100/300	150	250	2.40	1.60
2N3227	B	360	200	40	100/300	10	500	2.40	1.60
2N3252	C	1000	200	60	30/90	500	250	9.75	6.50
2N3253	C#	100	200	75	25/75	500	250	9.75	6.50
2N3444	C#	100	200	80	20/60	500	175	12.00	8.00
2N3493	A	150	200	12	40/120	500	400	14.25	9.50
2N3498	C	1000	200	100	40/120	150	150	6.60	4.40
2N3499	C	1000	200	100	100/300	150	150	7.40	4.95
2N3500	C	1000	200	150	40/120	150	150	11.25	7.50
2N3501	C	1000	200	150	100/300	150	150	12.60	8.40
2N3506	C	1000	200	60	40/200	1500	60	11.55	7.70
2N3507	C	1000	200	80	30/150	1500	60	13.20	8.80
2N3508	TO-46	400	200	40	40/120	10	500	5.40	3.60
2N3509	TO-46	400	200	40	100/300	10	500	5.40	3.60
2N3510	TO-52	360	200	40	25/150	150	350	1.42	.95
2N3511	TO-52	360	200	40	30/120	150	450	1.80	1.20
2N3647	TO-46	400	200	40	25/150	150	350	2.25	1.50
2N3648	TO-46	400	200	40	30/120	150	450	2.70	1.80
2N3712	C#	500	200	150	30/120	30	....	2.25	1.50
2N3734	C#	1000	200	50	30/120	1A	250	6.00	4.00
2N3735	C#	1000	200	50	20/80	1A	250	6.00	4.00
2N3736	E	500	200	75	30/120	1A	250	6.60	4.40
2N3737	E	500	200	75	20/80	1A	250	6.60	4.40
2N3742	C	1000	200	300††	20/200	30	30	12.60	8.40
2N3903	F	310	135	60	50/150	10	250	.75	.50
2N3904	F	310	135	60	100/300	10	300	.82	.55
2N3946	B	360	200	60	50/150	10	250	2.40	1.60
2N3947	B	360	200	60	100/300	10	300	2.75	1.85
2N3959	B	750	200	20	40/200	10	1300	10.50	7.00
2N3960	B	750	200	20	40/200	10	1600	13.10	8.75
2N4123	F	310	135	40	50/150	2	250	.52	.35
2N4124	F	310	135	30	120/360	2	300	.60	.40
2N4264	F	310	135	30	40/160	10	300	.60	.40
2N4265	F	310	135	30	100/400	10	300	.67	.45

Motorola Semiconductors



SILICON NPN ANNULAR EPITAXIAL TYPES (Cont'd)

See page 50 for explanation of column heads and "How to Order" information. Case listings refer to page 50. ‡h_{fe}.

Type No.	Case	P_d (mw)	T_j °C	V_{CB} or †† V_{CEO}	h_{FE} @ I_C min./(ma) max.	f_T min. (mc)	EACH 1-99	EACH 100-999
MPS706	F	310	135	25	20/— 10	200	.60	.40
MPS834	F	310	135	40	25/— 10	350	.70	.46
MPS918	F	310	135	30	20/— 3	600	1.35	.90
MPS2713	F	310	135	18	30/90 2	......	.72	.48
MPS2714	F	310	135	18	75/225 2	......	.76	.51
MPS2923	F	310	135	25	90/180‡ 2	......	.65	.43
MPS2924	F	310	135	25	150/300‡ 2	......	.69	.46
MPS2925	F	310	135	25	235/470‡ 2	......	.75	.50
MPS3563	F	310	135	30	20/200 8	600	1.20	.80
MPS3638	F	310	135	25	30/— 50	.....	.46	.31
MPS3646	F	310	135	40	30/120 30	350	.69	.46

SILICON PNP ANNULAR EPITAXIAL TYPES

Type No.	Case	P_d (mw)	T_j °C	V_{CB} or †† V_{CEO}	h_{FE} @ I_C min./(ma) max.	f_T min. (mc)	EACH 1-99	EACH 100-999
2N722	B	400	175	50	30/90 150	60	5.60	3.75
2N1131	C	600	175	50	20/45 150	60	5.60	3.75
2N1132	C	600	175	50	30/90 150	60	5.60	3.75
2N1132A	C	600	175	60	30/90 150	60	12.00	8.00
2N1132B	C	600	175	70	30/90 150	60	16.70	11.15
2N1991	C	600	150	30	15/60 150	40	3.95	2.96
2N2303	C	600	200	50	75/200 150	60	8.25	5.50
2N2800	C	800	200	50	30/90 150	120	6.75	4.50
2N2801	C	800	200	50	75/225 150	120	7.10	4.75
2N2837	B	500	200	50	30/90 150	120	6.75	4.50
2N2838	B	500	200	50	75/225 150	120	7.10	4.75
2N2904	C	600	200	60	40/120 150	200	7.50	5.00
2N2904A	C	600	200	60	40/120 150	200	10.50	7.00
2N2905	C	600	200	60	100/300 150	200	9.00	6.00
2N2905A	C	600	200	60	100/300 150	200	12.00	8.00
2N2906	B	400	200	60	40/120 150	200	7.20	4.80
2N2906A	B	400	200	60	40/120 150	200	10.05	6.70
2N2907	B	400	200	60	100/300 150	200	8.70	5.80
2N2907A	B	400	200	60	100/300 150	200	11.55	7.70
2N3133	C	600	200	50	40/120 150	150	4.95	3.30
2N3134	C	600	200	50	100/300 150	150	5.85	3.90
2N3135	B	400	200	50	40/120 150	150	4.95	3.30
2N3136	B	400	200	50	100/300 150	150	5.85	3.90
2N3137#	C	2000	200	40	5/50 150	......	11.10	7.40
2N3244	C	800	175	40	50/150 500	175	15.75	10.50
2N3245	C	800	175	50	35/90 500	150	15.75	10.50
2N3248	B	360	200	12	50/150 10	150	3.90	2.60
2N3249	B	360	200	12	100/300 10	250	4.65	3.10
2N3250	B	360	200	50	50/150 10	250	3.90	2.60
2N3250A	B	360	200	60	50/150 10	250	4.50	3.00
2N3251	B	360	200	60	100/300 10	300	4.65	3.10
2N3251A	B	360	200	60	100/300 10	300	5.25	3.50
2N3467	C	1000	200	40	40/120 500	175	9.75	6.50
2N3468	C	1000	200	50	25/75 500	150	11.25	7.50
2N3485	TO-46	400	200	40	40/120 150	200	8.70	5.80
2N3485A	TO-46	400	200	60	40/120 150	200	12.00	8.00
2N3486	TO-46	400	200	40	100/300 150	200	10.20	6.80
2N3486A	TO-46	400	200	60	100/300 150	200	13.50	9.00
2N3494	C	600	200	80	40/— 50	200	9.75	6.50
2N3495	C	600	200	120	40/— 50	150	12.75	8.50
2N3496	B	400	200	80	40/— 50	200	9.75	6.50
2N3497	B	400	200	120	40/— 50	150	12.75	8.50
2N3546	B	360	200	15	30/120 10	700	5.25	3.50
2N3634	C	1000	200	140	50/150 50	150	13.20	8.80
2N3635	C	1000	200	140	100/300 50	200	14.40	9.60
2N3636	C	1000	200	175	50/150 50	150	19.40	12.95
2N3637	C	1000	200	175	100/300 50	200	21.30	14.20
2N3743	C	1000	200	300††	25/250 30	30	29.25	19.50
2N3762	C#	1000	200	40	30/120 1A	180	7.50	5.00
2N3763	C#	1000	200	60	20/80 1A	150	7.50	5.00
2N3764	E	500	200	40	30/120 1A	180	8.25	5.50
2N3765	E	500	200	60	20/80 1A	150	8.25	5.50
2N3798	B	360	200	60	150/450 100	100	6.15	4.10
2N3799	B	360	200	60	300/900 100	100	6.75	4.50
2N3905	F	310	135	40	50/150 10	200	.75	.50
2N3906	F	310	135	40	100/300 10	250	.82	.55
2N4125	F	310	135	30	50/150 2	200	.52	.35
2N4126	F	310	135	25	50/150 2	250	.60	.40
2N4260	TO-72	200	200	15	30/150 10	1600	12.35	8.25
2N4261	TO-72	200	200	15	30/150 10	2000	14.60	9.75
MM2894	B	1.2	200	15	40/150 30	......	8.25	5.50
MPS2894	F	310	135	12	40/150 30	400	.75	.50
MPS3639	F	310	135	6	30/120 10	500	.54	.36
MPS3640	F	310	135	12	30/120 10	500	.57	.38

NPN CHOPPER

Type No.	Case	P_d (mw)	T_j °C	V_{CB} or †† V_{CEO}	h_{FE} @ I_C min./(ma) max.	f_T min. (mc)	EACH 1-99	EACH 100-999
2N2330	C	800	175	30	50/— 10	200	14.62	9.75
2N2331	B	500	175	30	50/— 10	200	14.62	9.75

MICROWAVE PRODUCTS

RF SWITCHING DIODE

Type No.	Case	P_D @75° C (W)	T_J °C	BV_R Volt Min.	C_r max. @ 100v. (pf)	R_f max. (ohms)	EACH 1-99	EACH 100-999
MV1892	E	20	175	700	2.5	0.62	42.00	28.00

AUTOMOTIVE POWER TRANSISTORS

Withstand vibration, shock. All are 2-watt type except *4 watts. BV_{CES}, 30 volts, except †40 volts; ‡16 volts.

Type No.	BV_{CBO} (V)	P_C (watts)	I_C (A)	Typ. h_{FE}	EACH 1-99	EACH 100-999
2N176	40	90	3	45	1.20	.87
2N178	40	40	3	50	1.10	.80
2N350A	50*†	90	3	50	1.65	1.10
2N351A	50*†	90	4	45	1.70	1.15
2N376A	50*†	90	5	60	1.85	1.25
2N554	15‡	40	3	50	.60	.40
2N555	30	40	3	50	.75	.50
2N669	40	90	3	90	1.42	.95

SILICON STEP RECOVERY VARACTOR DIODES

Type No.	Case	P_D W	C_T max. @ 6V pf	Minimum Efficiency %	@ Pin (W)	fin (mc)	fout (mc)	EACH 1-99	EACH 100-999
1N4386	D	25	50	65	50	50	150	42.00	28.00
1N4387	D	20	35	50	30	150	450	42.00	28.00
1N4388	D	10	20	55	20	500	1000	42.00	28.00
1N5149	B	10	20	55	20	500	1000	27.00	18.00
1N5150	B	14	20	65	37	500	1000	42.00	28.00
1N5151	C	5.5	7.5	60	12	1000	2000	42.00	28.00
1N5152	A	5.5	7.5	60	12	1000	2000	42.00	28.00
1N5153	B	5.5	7.5	60	12	1000	2000	42.00	28.00
1N5154	C	3.5	3.0	40	5	2000	6000	42.00	28.00
1N5155	A	3.5	3.0	40	5	2000	6000	42.00	28.00

EPICAP VOLTAGE VARIABLE CAPACITANCE DIODES

Type No.	Case	C_T Typ. @ 4V pf	Min. Tuning Ratio C_4/C_{60}	Q min. @ 4V 50 mc	Alpha Min.	EACH 1-99	EACH 100-999
1N5139	E	6.8	2.7	350	.37		
1N5140	E	10	2.8	300	.38	No suffix (10% Cap. Tol.)	
1N5141	E	12	2.8	300	.38	5.85	3.90
1N5142	E	15	2.8	250	.38		
1N5143	E	18	2.8	250	.38		
1N5144	E	22	3.2	200	.43		
1N5145	E	27	3.2	200	.43	"A" suffix (5% Cap. Tol.)	
1N5146	E	33	3.2	200	.43	6.45	4.30
1N5147	E	39	3.2	200	.43		
1N5148	E	47	3.2	200	.43		

VOLTAGE VARIABLE CAPACITANCE DIODES

Type No.	Case	C_T Typ. @ 4V pf	Tuning Ratio C_4/C_{25} Min.	Q Min. @ 4V 50 mc	Alpha Min.	EACH 1-99	EACH 100-999
MV830	E	15	1.8	30	.32	1.35	.90
MV831	E	18	1.8	25	.32	1.35	.90
MV832	E	22	1.8	25	.32	1.35	.90
MV833	E	27	1.8	25	.32	1.35	.90
MV834	E	33	1.9	20	.35	1.35	.90
MV835	E	39	1.9	20	.35	1.35	.90
MV836	E	47	1.9	15	.35	1.35	.90
MV837	E	56	1.9	15	.35	1.35	.90
MV838	E	68	2.0	15	.375	1.35	.90
MV839	E	82	2.0	10	.375	1.35	.90
MV840	E	100	2.0	10	.375	1.35	.90

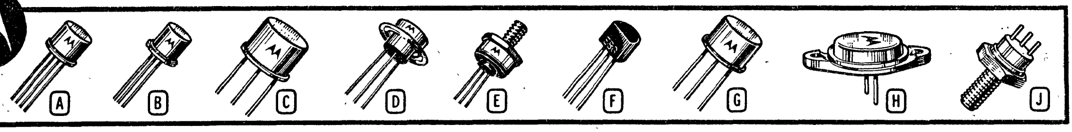
MOTOROLA TRANSISTOR MOUNTING KITS

Provide hardware for chassis mtg. TO-3 power transistor types (†TO-36), and 50-watt zener diodes. *With heat sink. ‡TO-66.

Type No.	Insulating Washer	1-99, EA.	100-999, EA.
MK-10	Teflon-coated fiberglass	.23	.15
MK-15	Mica	.23	.15
MK-20	Anodized Aluminum	.35	.23
MK-25	Mica‡	.25	.18
MS-10	Teflon*	2.10	1.75
MS-15	Mica*†	2.10	1.75

Allied Stocks over 8600 Semiconductor Types, with New Types Constantly Being Added As They Are Released. You Get Fast Service and OEM Prices When You Buy at Allied.

Motorola Amplifier and Oscillator Transistors



COLUMN HEADINGS (Below)

f_T, gain-bandwidth prod.; G_e, common-emitter power gain; P_c, coll. power diss.; P_d, total power diss.; P_o, max. power output; V_{CB}, coll. base v.

HOW TO ORDER

When ordering, specify Department Number 49 D 26, then add Motorola type number or JEDEC type number. Ex.: 49 D 26 2N707.

GERMANIUM PNP MESA AMPLIFIERS/OSCILLATORS

Small-signal types. See above for case illus. *Max. †Min.

Type No.	Case	Pd (mw)	VCB (volts)	Ge @ f db (mc)	fT typ. (mc)	EACH 1-99	EACH 100-999
2N700	A	75	25	23 70	500	7.35	4.90
2N700A	A	75	25	25 70	500	11.85	8.70
2N741	B	150	15	22 30	360	2.18	1.45
2N741A	B	150	20	22 30	360	3.30	2.20
2N1141	C	300	35	27 70	850	4.83	3.22
2N1142	C	300	30	26 70	850	4.20	2.80
2N1143	C	300	25	26 70	850	3.50	2.33
2N1195	C	225	30	27 70	850	3.95	2.63
2N2273	B	150	25	30 10	30*	2.45	1.65
2N2415	A	75	15	14 200	500†	6.00	4.00
2N2416	A	75	15	12.5 200	400†	3.35	2.25
2N2929	C	300	25	16 200	1100	6.75	4.50
2N3279	B	100	30	20 200	500	4.50	3.00
2N3280	B	100	30	20 200	500	4.10	2.75
2N3281	B	100	30	20 200	400	2.60	1.75
2N3282	B	100	30	20 200	400	2.15	1.45
2N3283	B	100	25	20 200	400	1.50	1.00
2N3284	B	100	25	20 200	400	1.42	.95
2N3285	B	100	20	.. ...	400	1.12	.75
2N3286	B	100	20	18 200	400	.97	.65
2N3323	B	150	35	13 100	360	.90	.60
2N3324	B	150	35	29 10.7	360	.82	.55
2N3325	B	150	35	30 1.6	360	.75	.50
2N3783	B	150	30	25 200	950	30.00	20.00
2N3784	B	150	30	25 200	850	15.00	10.00
2N3785	B	150	15	24 200	850	6.75	4.50
MM2503	B	75	30	25 200	1200	26.25	17.50

NPN SMALL SIGNAL AMPLIFIERS/OSCILLATORS

#Indicates solid header. *Minimum.

Type No.	Case	Pd (mw)	VCB (volts)	Ge @ f db (mc)	fT typ. (mc)	EACH 1-99	EACH 100-999
2N918	B	200	30	18 200	900	5.25	3.50
2N3114	C#	800	150	....	200	6.00	4.00
2N3287	B	200	40	20 200	600	7.50	5.00
2N3288	B	200	40	20 220	600	6.75	4.50
2N3289	B	200	30	20 200	500	6.00	4.00
2N3290	B	200	30	20 200	500	5.25	3.50
2N3291	B	200	25	20 200	600	2.25	1.50
2N3292	B	200	25	20 200	600	2.10	1.40
2N3293	B	200	20	.. ...	600	1.80	1.20
2N3294	B	200	20	18 200	600	1.65	1.10
2N3544	B	300	25	....	900	7.50	5.00
2N3712	C#	1000	150	....	....	2.25	1.50
MM2483	B	360	60	....	60*	4.50	3.00
MM2484	B	360	60	....	60*	5.25	3.50
MPS6512	F	310	40	....	330	.54	.36
MPS6513	F	310	40	....	330	.57	.38
MPS6514	F	310	40	....	480	.60	.40
MPS6515	F	310	40	....	480	.64	.43
MPS6520	F	310	40	....	480	.82	.55
MPS6521	F	310	40	....	480	.90	.60

SILICON PNP SMALL SIGNAL AMPLIFIERS/OSCILLATORS

Type No.	Case	Pd (mw)	VCB (volts)	Ge @ f db (mc)	fT typ. (mc)	EACH 1-99	EACH 100-999
2N869	B	360	25	.. ...	300	5.85	3.90
2N995	B	360	20	.. ...	300	5.85	3.90
2N3307	B	200	40	20 200	500	10.50	7.00
2N3308	B	200	30	20 200	500	9.00	6.00
MPS6516	F	310	40	....	270	.60	.40
MPS6517	F	310	40	....	270	.63	.42

SILICON COMPLEMENTARY AMPLIFIER TRANSISTORS

Type No.	Case	Polarity	PD (w)	VCB (v)	hFE min/max	@Ic (ma)	fT (mc)	EACH 1-99	EACH 100-999
MPS6530	F	NPN	.310	60	40/120	100	390	.72	.48
MPS6531	F	NPN	.310	60	90/270	100	390	.75	.50
MPS6532	F	NPN	.310	50	30/—	100	390	.60	.40
MPS6533	F	PNP	.310	40	40/120	100	260	.78	.52
MPS6534	F	PNP	.310	40	90/270	100	260	.81	.54
MPS6535	F	PNP	.310	30	30/—	100	260	.66	.44

ATTENTION QUANTITY BUYERS

Allied stocks the complete Motorola Semiconductor line. For any Motorola semiconductors not shown on these pages, check the Semiconductor Directory, pages 1 through 33.

GERMANIUM PNP MESA POWER AMPLIFIERS/OSCILLATORS

Type No.	Case	Pc watts	VCB volts	fT mc	Po @ f watts	mc	EACH 1-99	EACH 100-999
2N1561	D	3	25	500	0.5	160	21.75	14.50
2N1562	D	3	25	450	0.4	160	14.25	9.50
2N1692	E	3	25	500	0.5	160	22.50	17.00
2N1693	E	3	25	450	0.4	160	18.00	12.00

SILICON NPN POWER EPITAXIAL TYPES

#Solid header. †F=100 mc.

Type No.	Case	Pc watts	VCB volts	fT mc	Po @ f watts	mc	EACH 1-99	EACH 100-999
2N707	B	1.0	56	350	0.2	100	6.30	4.20
2N707A	B	1.2	70	350	0.4	100	22.50	15.00
2N2947	H	25	60	200	15	50	22.50	15.00
2N2948	H	25	40	200	15	30	20.25	13.50
2N2949	D	6	60	200	3.5	50	10.50	7.00
2N2950	E	6	60	200	3.5	50	11.25	7.50
2N2951	C	3	60	400	0.6	50	4.50	3.00
2N2952	B	1.8	60	400	0.6	50	4.95	3.30
2N3298	B	1.0	25	400	....	...	2.40	1.60
2N3309	C	5.0	50	500	2	250	5.25	3.50
2N3375	J	11.6	65	100	7.5	500	23.90	15.95
2N3553	G	7.0	65	175	2.5	500	5.15	3.42
2N3632	J	23.0	65	175	13.5	400	34.20	22.80
2N3664	..	5.0	60	300	2.2	250	8.60	5.75
2N3818	..	25.0	60	150	15.0	100	45.00	30.00
2N3866	G	....	55	400	1.0	800	5.15	3.42
2N3924	G	7.0	36	175	4.0	500	5.15	3.42
2N3925	E	10.0	36	175	5.0	500	14.70	9.80
2N3926	J	11.6	36	175	7.0	500	23.90	15.95
2N3927	J	23.0	36	175	12.0	500	34.20	22.80
2N3961	E	10.0	65	175	4.0	400†	14.70	9.80
MM1803	C#	2.0	50	250	0.56	600†	11.70	7.80
MM1941	B	0.6	30	175	0.1	800	1.95	1.30
MM1943	B	0.6	40	175	0.3	600	3.00	2.00

SILICON NPN EPITAXIAL LINEAR AMPLIFIERS

Type No.	Case	Pc watts	VCB volts	fT mc	Po watts	Ge @ f db	mc	EACH 1-99	EACH 100-999
2N3295	C	2	60	400	0.4	14	30	6.00	4.00
2N3296	E	6	60	200	4	16	30	15.00	10.00
2N3297	H	25	60	200	15	10	30	52.50	35.00

A JUNCTION FIELD-EFFECT TRANSISTORS

N-channel. For audio, RF-IF, switch, chopper use. TO-18 case. P_D, 200 mw. $|Y_{FS}|$ in min./max. μmhos @ $V_{DS}=10$ v., $V_{GS}=0$, F=1 kc: 2N3796, 1100/2200; 2N3797, 1800/3600; 3N124, 250/1000; 3N125, 400/1600; 3N126, 600/2700. *BV_{DSX} †Gate 2 common to source.

Type No.	BVGSS Volts	IDSS (Min./Max.) Ma	VGS(off) (v. max.)	EACH 1-99	EACH 100-999
2N3796	25*	0.5/3.0	−4.0	13.50	9.00
2N3797	20*	2.0/6.0	−7.0	16.50	11.00
3N124	50	0.2/2.0†	−2.5	4.35	2.90
3N125	50	1.5/4.5†	−4.0	4.35	2.90
3N126	50	3.0/9.0†	−6.5	4.35	2.90
2N3821	−50	0.5/2.5	−4	22.40	14.95
2N3822	−50	2.0/10	−6	21.65	14.45
2N3824	−50	....	....	14.15	9.45
2N4220	−30	0.5/3.0	−4	2.85	1.90
2N4221	−30	2.0/6.0	−6	2.85	1.90
2N4222	−30	5.0/15	−8	2.85	1.90
2N4223	−30	3.0/18	−8	5.85	3.90
2N4224	−30	2.0/20	−8	3.65	2.45
MFE2093	−50	0.1/0.7	−2.5	2.85	1.90
MFE2094	−50	0.4/1.4	−4.5	2.85	1.90
MFE2095	−50	1.0/3.0	−5.5	2.85	1.90

A INSULATED GATE FIELD-EFFECT TRANSISTORS

Type No.	Channel	VDSS (v)	IDSS (na)	VGS (th) (v. max.)	EACH 1-99	EACH 100-999
2N4351	N	+25	10	5	8.10	5.40
2N4352	P	+25	5	−6	7.35	4.90

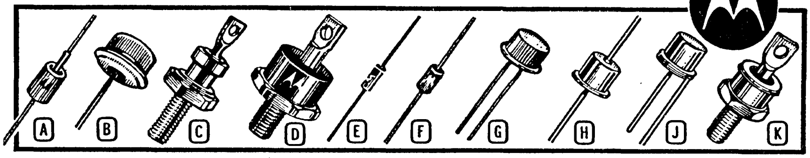
Motorola Silicon Rectifiers

EXPLANATION OF COLUMN HEADINGS

I_o—maximum average rectified forward current

I_{sur}—surge current

PIV—peak inverse voltage



HIGH-VOLTAGE MOLDED ASSEMBLY

(Not illustrated). Maximum operating temperature is 150°C.

Type No.	PIV (V)	I_o (A) @25°C	I_{sur} (A)	EACH 1-99	EACH 100-999
1N1730	1000	0.2	2.5	4.30	3.25
1N1731	1500	0.2	2.5	5.30	4.00
1N1732	2000	0.2	2.5	6.00	4.50
1N1733	3000	0.15	2.5	6.90	5.20
1N1734	5000	0.10	2.5	10.30	7.75
1N2382	4000	0.15	2.5	8.65	6.50
1N2383	6000	0.10	2.5	12.65	9.50
1N2384	8000	0.07	2.5	15.30	11.50
1N2385	10,000	0.07	2.5	18.60	14.00

B GENERAL-PURPOSE TYPES

Available in reverse polarity at the same price. When ordering, add suffix "R." Max. temp., 175°C. *100° case temp.

1N3491	50	25	300	.67	.45
1N3492	100	25	300	.76	.51
1N3493	200	25	300	1.11	.74
1N3494	300	25	300	1.27	.85
1N3495	400	25	300	1.48	.99
1N3659	50	30	400	.90	.60
1N3660	100	30	400	.99	.66
1N3661	200	30	400	1.33	.89
1N3662	300	30	400	1.48	.99
1N3663	400	30	400	1.70	1.14
MR327	500	30*	300	2.40	1.60
MR328	600	30*	300	3.35	2.25
MR330	800	30*	300	6.75	4.50
MR331	1000	30*	300	9.75	6.50

A FLANGELESS TYPES

Max. operating temp. is 175°C.

MR1337-1	50	1A	30	3.35	2.25
MR1337-2	100	1A	30	4.95	3.30
MR1337-3	200	1A	30	6.75	4.50
MR1337-4	300	1A	30	9.00	6.00
MR1337-5	400	1A	30	12.00	8.00

G SINGLE-ENDED TYPES

Maximum operating temperature for regular types is 150°C; maximum operating temperature for "A" types, 175°C.

1N1563	100	1.0	70	1.35	.90
1N1563A	100	1.5	70	1.65	1.10
1N1564	200	1.0	70	1.50	1.00
1N1564A	200	1.5	70	1.87	1.25
1N1565	300	1.0	70	1.65	1.10
1N1565A	300	1.5	70	2.17	1.45
1N1566	400	1.0	70	1.80	1.20
1N1566A	400	1.5	70	2.40	1.60
1N1567	500	1.0	70	2.10	1.40
1N1567A	500	1.5	70	2.85	1.90
1N1568	600	1.0	70	3.30	2.20
1N1568A	600	1.5	70	4.40	2.95

E SUBMINIATURE TYPES

1N3282	1000	100	2.5	2.25	1.50
1N3283	1500	100	2.5	2.90	1.95
1N3284	2000	100	2.5	7.95	5.30
1N3285	2500	100	2.5	10.05	6.70

F "SURMETIC" TYPES

Max. operating temp. is 175°C. Per MIL-S-19500/228. I_o (A) @ 100°C.

1N4001	50	1.0	30	.45	.30
1N4002	100	1.0	30	.49	.33
1N4003	200	1.0	30	.60	.40
1N4004	400	1.0	30	.67	.45
1N4005	600	1.0	30	.81	.54
1N4006	800	1.0	30	1.12	.75
1N4007	1000	1.0	30	1.80	1.20
MR990	1000	250	15	1.42	.95
MR991	1500	250	15	2.10	1.40
MR992	2000	250	15	4.95	3.30
MR993	2500	250	15	6.60	4.40
MR994	3000	250	15	7.85	5.25

C D K STUD-MOUNTED TYPES

Fig. C, 7/16"; Fig. D, 11/16". Fig. K, DO-4. Max. Temp., 175°C. All available in reverse polarity at same price. To order add letter "R" at end of type No. In table below: † @ 100°C; # @ 140°C; ** @ 150°C.

Type No.	Fig.	PIV (V)	Io (ma)	EACH 1-99	EACH 100-999
1N248B	D	50	20**	1.35	.90
1N248C	D	55	20**	1.65	1.10
1N249B	D	100	20**	1.72	1.15
1N249C	D	110	20**	2.02	1.35
1N250B	D	200	20**	2.45	1.65
1N250G	D	220	20**	2.75	1.85
1N1183	D	50	35A#	1.95	1.30
1N1184	D	100	35A#	2.40	1.60
1N1185	D	150	35A#	2.90	1.95
1N1186	D	200	35A#	3.45	2.30
1N1187	D	300	35A#	5.10	3.40
1N1188	D	400	35A#	5.85	3.90
1N1189	D	500	35A#	6.45	4.30
1N1190	D	600	35A#	6.90	4.60
1N1191	D	50	20A**	1.35	.90
1N1192	D	100	20A**	1.72	1.15
1N1193	D	150	20A**	2.10	1.40
1N1194	D	200	20A**	2.45	1.65
1N1195	D	300	20A**	4.05	2.70
1N1195A	D	300	20A**	4.35	2.90
1N1196	D	400	20A**	4.95	3.30
1N1196A	D	400	20A**	5.25	3.50
1N1197	D	500	20A**	6.15	4.10
1N1197A	D	500	20A**	6.45	4.30
1N1198	D	600	20A**	7.50	5.00
1N1198A	D	600	20A**	7.80	5.20
1N3208	D	50	15A**	1.15	.79
1N3209	D	100	15A**	1.30	.89
1N3210	D	200	15A**	1.75	1.19
1N3211	D	300	15A**	2.40	1.60
1N3212	D	400	15A**	2.90	1.93
1N3213	D	500	20A**	5.40	3.60
1N3214	D	600	20A**	6.75	4.50
1N3879	C	50	6A†	5.25	3.50
1N3880	C	100	6A†	5.75	3.85
1N3881	C	200	6A†	8.25	5.50
1N3882	C	300	6A†	12.75	8.50
1N3883	C	400	6A†	14.70	9.80
1N3889	C	50	12A†	6.30	4.20
1N3890	C	100	12A†	6.75	4.50
1N3891	C	200	12A†	9.75	6.50
1N3892	C	300	12A†	14.60	9.75
1N3893	C	400	12A†	17.60	11.75
MR1120	K	50	12A**	.97	.65
MR1121	K	100	12A**	1.05	.70
MR1122	K	200	12A**	1.18	.79
MR1123	K	300	12A**	1.33	.89
MR1124	K	400	12A**	1.50	1.00
MR1125	K	500	12A**	1.85	1.25
MR1126	K	600	12A**	2.45	1.65
MR1128	K	800	12A**	5.60	3.75
MR1130	K	1000	12A**	7.85	5.25

H SINGLE-ENDED HIGH CONDUCTANCE

Type No.	PIV	Io @ 75°C	I_{SUR} (A)	EACH 1-99	EACH 100-999
1N4997	50	3A	300	.55	.37
1N4998	100	3A	300	.60	.40
1N4999	200	3A	300	.67	.45
MR1033B	300	3A	300	.76	.51
1N5000	400	3A	300	.97	.65
MR1035B	500	3A	300	1.08	.72
1N5001	600	3A	300	1.33	.89
1N5002	800	3A	300	4.10	2.75
1N5003	1000	3A	300	6.35	4.25

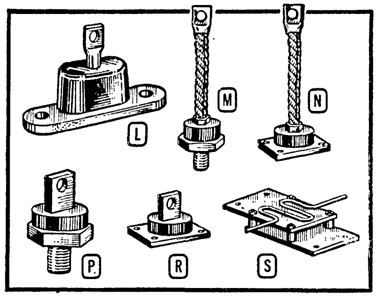
J AXIAL LEAD, HIGH CONDUCTANCE

1N4719	50	3A	300	.55	.37
1N4720	100	3A	300	.60	.40
1N4721	200	3A	300	.67	.45

J AXIAL LEAD, HIGH COND. (Cont'd)

Type No.	PIV	Io @ 75°C	I_{SUR} (A)	EACH 1-99	EACH 100-999
MR1033A	300	3A	300	.76	.51
1N4722	400	3A	300	.97	.65
MR1035A	500	3A	300	1.08	.72
1N4723	600	3A	300	1.33	.89
1N4724	800	3A	300	4.10	2.75
1N4725	1000	3A	300	6.35	4.25

HIGH-CURRENT MULTIPLE-CELL SILICON RECTIFIERS



50 to 650 amp types. Both stud and flange mount cases; flexible and solid terminals. *All types are available with reverse polarity at the same prices;* to order, just add letter "R" at end of Type No. For example, MR 1200FLR. Additional listings will be found on the following page.

L 50-AMP FLANGE MOUNTED

Type No.	PIV	EACH 1-24	EACH 25-99	EACH 100-Up
MR1200FL	50	2.55	2.30	1.90
MR1201FL	100	3.45	3.10	2.60
MR1203FL	200	4.80	4.30	3.60
MR1205FL	300	5.60	5.05	4.20
MR1207FL	400	6.65	6.00	5.00

M 80-AMP STUD MOUNTED

MR1210SB	50	3.40	3.05	2.55
MR1211SB	100	4.25	3.85	3.20
MR1213SB	200	5.60	5.05	4.20
MR1215SB	300	6.80	6.10	5.10
MR1217SB	400	9.05	8.15	6.80

P 80-AMP STUD MOUNTED

MR1210SL	50	3.25	2.95	2.45
MR1211SL	100	4.10	3.70	3.10
MR1213SL	200	5.45	4.90	4.10
MR1215SL	300	6.65	6.00	5.00
MR1217SL	400	8.90	8.05	6.70

M 160-AMP STUD MOUNTED

MR1220SB	50	6.50	5.90	4.90
MR1221SB	100	7.50	6.80	5.65
MR1223SB	200	11.95	10.80	9.00
MR1225SB	300	13.95	12.60	10.50
MR1227SB	400	15.95	14.40	12.00

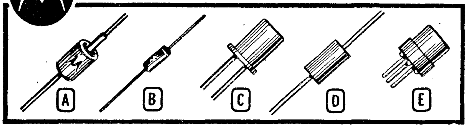
P 160-AMP STUD MOUNTED

MR1220SL	50	6.20	5.60	4.65
MR1221SL	100	7.20	6.50	5.40
MR1223SL	200	11.65	10.50	8.75
MR1225SL	300	13.65	12.30	10.25
MR1227SL	400	15.95	14.40	12.00

N 160-AMP FLANGE MOUNTED

MR1220FB	50	6.50	5.90	4.90
MR1221FB	100	7.50	6.80	5.65
MR1223FB	200	11.95	10.80	9.00
MR1225FB	300	13.95	12.60	10.50
MR1227FB	400	15.95	14.40	12.00

Motorola Silicon Rectifiers, Reference Diodes



EXPLANATION OF COLUMN HEADS

Z_D—Max. dynamic Zener impedance; BV_{CBO}—DC breakdown coll.-bas voltage; P_O—Max. power output (watts); P_C—Max. collector power dissipation (watts); I_C—Max. collector amps; h_{FE}—DC current gain (large signal DC beta).

HOW TO ORDER

When ordering, specify Department Number 49 D 26, then add Motorola type no. or JEDEC type no. Example: 49 D 26 1N3155A.

HIGH CURRENT SILICON RECTIFIERS (Cont'd From Page 53)

See Page 53 for Illustrations.

P 240-AMP STUD MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1231SL	100	11.90	10.75	8.95
MR1233SL	200	15.10	13.60	11.35
MR1235SL	300	17.20	15.55	12.95
MR1237SL	400	22.30	20.10	16.75

N 240-AMP FLANGE MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1231FB	100	12.05	10.85	9.05
MR1233FB	200	15.25	13.75	11.45
MR1235FB	300	17.35	15.65	13.05
MR1237FB	400	22.30	20.10	16.75

R 240-AMP FLANGE MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1231FL	100	11.55	10.45	8.70
MR1233FL	200	14.75	13.30	11.10
MR1235FL	300	16.90	15.25	12.70
MR1237FL	400	21.60	19.50	16.25

M 400-AMP STUD MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1240SB	50	15.45	13.90	11.90
MR1241SB	100	16.75	15.10	12.60
MR1243SB	200	20.00	18.05	15.05
MR1245SB	300	24.25	21.90	18.25
MR1247SB	400	27.25	24.60	20.50

P 400-AMP STUD MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1240SL	50	15.45	13.90	11.60
MR1241SL	100	16.75	15.10	12.60
MR1243SL	200	19.50	17.60	14.65
MR1245SL	300	23.75	21.40	17.85
MR1247SL	400	27.25	24.60	20.50

N 400-AMP FLANGE MOUNTED FLEXIBLE BRAIDED TERMINAL

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1240FB	50	14.90	13.45	11.20
MR1241FB	100	16.25	14.65	12.20
MR1243FB	200	19.35	17.45	14.55
MR1245FB	300	23.60	21.30	17.75
MR1247FB	400	26.60	24.00	20.00

R 400-AMP FLANGE MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1240FL	50	14.10	12.70	10.60
MR1241FL	100	15.45	13.90	11.60
MR1243FL	200	18.70	16.85	14.05
MR1245FL	300	22.95	20.70	17.25
MR1247FL	400	25.95	23.40	19.50

R 650-AMP FLANGE MOUNTED

Type No.	PIV	EACH 1-24	25-99	100-Up
MR1260FL	50	28.60	25.80	21.50
MR1261FL	100	36.55	33.00	27.50
MR1263FL	200	55.20	49.80	41.50
MR1265FL	300	61.20	55.20	46.00
MR1267FL	400	67.85	61.20	51.00

ALLIED STOCKS A WIDE VARIETY OF MOTOROLA MULTIPLE DEVICES. LOOK IN THE SEMICONDUCTOR DIRECTORY (beginning on page 1) FOR COMPLETE LISTINGS.

Multiple devices consist of two transistors in a single package. The multiple transistor section includes NPN-PNP complementary pairs and duals, closely matched over a wide range of conditions. Multiple devices are designed for use in a variety of applications which include: differential amplifiers; switching and low-level amplifiers. Multiple devices often result in space-saving since many are packaged in standard transistor cases.

MINIATURE AND SUB-MINIATURE REFERENCE DIODES

Hermetically sealed, temperature-stable Zener diodes. Voltage/temperature coefficients .01%/°C or less.

A 6.2-V. SUBMINIATURES

5.9-6.5 v. @ 7.5 ma. Temp. range, —55 to +100°C.

Type No.	Z_D	EACH 1-24	25-99	100-999
1N821	15	2.75	2.35	1.90
1N821A	10	3.05	2.60	2.10
1N823	15	3.60	3.10	2.50
1N823A	10	3.90	3.35	2.70
1N825	15	5.80	5.00	4.00
1N825A	10	6.50	5.60	4.50
1N827	15	10.85	9.35	7.50
1N827A	10	13.05	11.25	9.00
1N829	15	16.30	14.05	11.25
1N829A	10	19.55	16.85	13.50

A 8.4-V. SUBMINIATURES

Voltage range, 8.0-8.8 v. @ 10 ma. Temp., "A" Types, —55 to +150°C; others, +100°C.

Type No.	Z_D	EACH 1-24	25-99	100-999
1N3154	15	2.60	2.25	1.80
1N3154A	15	3.60	3.10	2.50
1N3155	15	3.55	3.05	2.45
1N3155A	15	4.35	3.75	3.00
1N3156	15	6.15	5.30	4.25
1N3156A	15	7.10	6.10	4.90
1N3157	15	7.60	6.55	5.25
1N3157A	15	11.10	9.55	7.65

B 9.0-V. SUBMINIATURES (½ W.)

Range, 8.55-9.45 v. @ 7.5 ma. "A" Types, —55 to +100°C; "B", to +150°C; others, 0 to +75°C.

Type No.	Z_D	EACH 1-24	25-99	100-999
1N935	20	2.30	2.00	1.60
1N935A	20	2.60	2.25	1.80
1N935B	20	3.55	3.05	2.45
1N936	20	2.75	2.35	1.90
1N3936A	20	3.55	3.05	2.45
1N936B	20	4.20	3.60	2.90
1N937	20	5.35	4.60	3.70
1N937A	20	6.15	5.30	4.25
1N937B	20	7.10	6.10	4.90
1N938	20	6.95	6.00	4.80
1N938A	20	7.55	6.50	5.20
1N938B	20	10.00	8.60	6.90
1N939	20	18.00	15.50	12.40
1N939A	20	25.35	21.85	17.50
1N939B	20	27.35	23.55	18.85

B 9.3-V. MINIATURES (¾ W.)

8.9-9.7 v. @ 10 ma. "A" Types, —55 to +100°C; "B", to +150°C; others, 0 to +75°C.

Type No.	Z_D	EACH 1-99	Asst'd 100-999	Single 100-999
1N2620	15	4.10	3.55	3.05
1N2620A	15	4.35	3.75	3.25
1N2620B	15	4.90	4.20	4.65
1N2621	15	4.60	3.95	3.45

B 9.3-V. MINIATURES (Cont'd)

Type No.	Z_D	EACH 1-99	Assorted 100-999	Single 100-999
1N2621A	15	5.55	4.80	4.15
1N2621B	15	6.75	5.85	5.05
1N2622	15	7.60	6.55	5.70
1N2622A	15	8.15	7.05	6.10
1N2622B	15	9.35	8.05	7.00
1N2623	15	8.80	7.60	6.60
1N2623A	15	10.05	8.70	7.55
1N2623B	15	13.50	11.65	10.15
1N2624	15	22.00	19.00	16.55
1N2624A	15	28.80	24.90	21.65
1N2624B	15	38.50	33.30	28.95

A 11.7-V. SUBMINIATURES (½ W.)

Range 11.12-12.28 v. @ 7.5 ma. "A" Types, —55 to +100°C; "B", to +150°C; others, 0 to +75°C.

Type No.	Z_D	EACH 1-24	25-99	100-Up
1N941	30	3.20	2.75	2.20
1N941A	30	3.40	2.90	2.34
1N941B	30	3.60	3.10	2.50
1N942	30	3.50	3.00	2.40
1N942A	30	4.35	3.75	3.00
1N942B	30	4.95	4.25	3.40
1N943	30	6.90	5.95	4.75
1N943A	30	6.95	6.00	4.80
1N943B	30	7.15	6.20	4.95
1N944	30	10.15	8.75	7.00
1N944A	30	13.05	11.25	9.00
1N944B	30	17.30	14.95	11.95
1N945	30	26.70	23.00	18.40
1N945A	30	36.40	31.35	25.10
1N945B	30	40.90	35.25	28.20

B 11.7-V. MINIATURES

Range, 11.12-12.28 v. @ 7.5 ma. "A" Types, —55 to +100°C; "B", to +150°C; others, 0 to +75°C.

Type No.	Z_D	EACH 1-99	Assorted 100-999	Single 100-999
1N3580	25	4.90	4.20	3.65
1N3580A	25	5.20	4.50	3.90
1N3580B	25	6.00	5.20	4.50
1N3581	25	5.55	4.80	4.15
1N3581A	25	6.45	5.60	4.85
1N3581B	25	7.75	6.70	5.80
1N3582	25	8.95	7.75	6.70
1N3582A	25	9.80	8.45	7.35
1N3582B	25	10.90	9.40	8.20
1N3583	25	10.90	9.40	8.20
1N3583A	25	11.80	10.20	8.85
1N3583B	25	15.65	13.55	11.75
1N3584	25	25.30	21.85	19.00
1N3584A	25	32.80	28.35	24.65
1N3584B	25	36.80	31.80	27.65

TEMPERATURE COMPENSATED ZENER REFERENCE DIODES

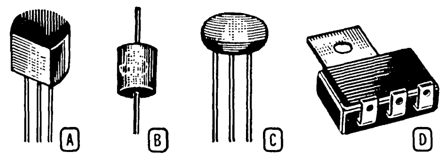
Type No.	Fig.	Vz±5% Volts	1-99	Asst. 100-999	Single 100-999
1N429	C	6.2	5.45	4.70	4.10
1N1530	E	8.4	16.55	14.30	12.45
1N1530A	E	8.4	24.85	21.50	18.70
1N1735	D	6.2	5.40	4.65	4.05
1N1736	D	12.4	8.75	7.60	6.60
1N1736A	D	12.4	10.70	9.25	8.05
1N1737	D	18.6	10.50	9.10	7.90
1N1737A	D	18.6	12.30	10.65	9.25
1N1738	D	24.8	14.15	12.25	10.65
1N1738A	D	24.8	16.20	14.05	12.20
1N1739	D	31.0	17.50	15.10	13.15
1N1739A	D	21.0	20.60	17.80	15.50
1N1740	D	37.2	20.30	17.55	15.25
1N1740A	D	37.2	24.60	21.25	18.50
1N1741	D	43.4	24.35	21.05	18.30
1N1741A	D	43.4	28.60	24.70	21.50
1N1742	D	49.6	27.65	23.90	20.80
1N1742A	D	49.6	32.20	27.85	24.20
1N2767	D	20.4	9.05	7.80	6.80
1N2767A	D	20.4	11.70	10.10	8.80
1N2768	D	27.2	11.15	9.65	8.40
1N2768A	D	27.2	14.15	12.25	10.65
1N2769	D	34.0	13.70	11.85	10.30
1N2769A	D	34.0	17.15	14.85	12.90
1N2770	D	40.8	15.75	13.65	11.85
1N2770A	D	40.8	20.70	17.90	15.55

Texas Instruments Semiconductors

HOW TO ORDER

When ordering, specify Department Number, 49 D 32, then add TI type number or JEDEC type number. Example: 49 D 32 2N3820.

See the Texas Instruments Semiconductor Pages Immediately Following for Explanations of Column Headings Used on This Page.



SEMICONDUCTORS PACKAGED FOR ECONOMY

[A] SILICON NPN PLANAR AMPLIFIER TRANSISTORS

Plastic-encapsulated transistors withstand soldering temperatures without deformation. Stable under high humidity, capable of meeting MIL-STD-202C Method 160B. Insensitive to light. 2N4254 and 2N4255 are for FM, IF and RF amplifiers. 0.2x0.2″ body. 3 inline leads, spaced 0.05″. Pt at 25°C. free air. †Epitaxial planar. *Nanoamps; others are in microamperes.

Type No.	Pt mw	Ic M	BVCBO V	ICBO μa	hFE Min	hFE Max	@ Ic Ma	fT mc	EACH 1-99	EACH 100-999
2N3707	250	30	30	0.5	100	400	.1	....	.60	.40
2N3708	250	30	30	0.5	45	600	1	....	.48	.32
2N3709	250	30	30	100*	45	165	1	....	.45	.30
2N3710	250	30	30	0.5	90	330	1	....	.49	.33
2N3711	250	30	30	0.5	180	660	1	....	.54	.36
2N3825	250	100	30	....	20	....	2	200	.58	.39
2N3826	250	30	60	....	40	160	10	200	.54	.36
2N3827	250	30	60	....	100	400	10	200	.58	.39
2N3828	300	100	40	0.1	30	200	12	360	.90	.60
2N4254†	200	50	30	10	50	....	2	700	.90	.60
2N4255†	200	50	30	10	30	150	2	700	.85	.57
TI407	200	12	30	100*	30	....	4	500	.73	.49
TI408	200	12	30	100*	20	....	4	500	.69	.46
TI409	200	12	30	100*	20	....	4	500	.61	.41

[A] SILICON TRANSISTORS AS ABOVE BUT PNP

Type No.	Pt mw	Ic M	BVCBO V	ICBO μa	hFE Min	hFE Max	@ Ic Ma	fT mc	EACH 1-99	EACH 100-999
2N4058	250	30	−30	−100*	100	400	100μa	....	.99	.67
2N4059	250	30	−30	−100*	45	660	1	....	.76	.51
2N4060	250	30	−30	−100*	45	165	1	....	.81	.54
2N4061	250	30	−30	−100*	90	330	1	....	.82	.55
2N4062	250	30	−30	−100*	180	660	1	....	.90	.60
TIS37	200	32	−35	−100*	45	....	−1	80	.88	.59
TIS38	200	32	−35	−100*	25	....	−1	50	.83	.55

[A] SILICON NPN PLANAR GENERAL-PURPOSE TRANSISTORS

Plastic-encapsulated. Withstand soldering temperatures without deformation. Stable under high humidity, can meet MIL STD 202C Method 160B. Insensitive to light. 0.2x0.2″ body. 3 inline leads spaced 0.05″. P_t, 250° C. free air.

Type No.	Pt mw	Ic M	BVCBO V	ICBO μa	hFE Min	hFE Max	@ Ic Ma	fT mc	EACH 1-99	EACH 100-999
2N3704	300	800	50	0.5	90	330	50	100	.61	.41
2N3705	300	800	50	0.5	45	165	50	100	.57	.38
2N3706	300	800	40	0.5	30	660	50	100	.52	.35
SILICON EPITAXIAL PLANAR PNP TYPES. *Nanoamps.										
2N3702	300	200	40	*100	60	300	50	100	.45	.30
2N3703	300	200	50	*100	30	150	50	100	.49	.33

SILICON PLANAR UNIJUNCTION

- Reduces Component Count, Replaces 2 or More Transistors
- 155,000 Hours Operating Life Test, Withstands 60,000 G.
- Low Leakage, Ideal for Precision Timing Circuits

Plastic-encapsulated. For use in SCR triggering circuits, counters, timers, multivibrators, waveform generators, astable or bistable circuits. Characteristics: V_{OB1}, 3 v.; n, 0.55 min., 0.80 max.; I_p, 5μa; I_v, 2 ma min; r_{bb}, 4K ohms min., 9.1K ohms max. Case, TO-92. Leakage; 10 na max. at 25° C.

TIS43..........1-99, Each **1.08**..............100-999, Each **.72**

[A] SILICON PLANAR FIELD-EFFECT TRANSISTORS

Feature high input impedance, low noise and high radiation resistance. I_{GSS}—gate cutoff current. Y_{fs}—small signal common source forward transfer admittance. *N-channel type, for chopper and switching applications. †P-channel.

Type No.	Case TO-	IGSS μa	Yfs Min.	(μmho) Max.	NF db	EACH 1-99	EACH 100-999
2N3819*	92	2	2000	6500	.....	3.75	2.50
2N3820†	92	20	800	5000	.....	3.75	2.50
TIXS42*	92	−5	12,000	40,000	.....	7.95	6.50

[C] PLANAR NPN EPITAXIAL SILICON MEDIUM POWER TRANSISTOR

- For Oscillators, RF Amplifiers, Similar Uses
- Operating and Storage Temp. Range, —65° to +150° C
- 10-Watt Dissipation at 75° C Case Temperature

High frequency; medium power transistor. Provides maximum $V_{CE(sat)}$ of 1 v. and max. V_{BE} of 0.3 v. (with I_C at 200 ma). Collector-base voltage, 80 v.; collector-emitter voltage, 60 v. (with open-circuited base-emitter diode); emitter-base voltage, 5 v. Continuous current; base, 0.5 amp; collector, 1 amp. Min. f_T, 10 mc.

TIP14. 1-99.......... Each **1.50** 100-999.............. Each **.95**

SILICON PLANAR NPN HIGH-SPEED SWITCHING TRANSISTORS

All are plastic encapsulated. TIS51 replaces 2N3011, TIS47 replaces 2N2368, TIS48 replaces 2N2369, TIS49 replaces 2N2369A, TIS44 replaces 2N706, TIS45 replaces 2N708, TIS46 replaces 2N914, TIS52 replaces 2N3014, TIS55 replaces 2N3646. PNP types, below: TIS53 replaces 2N3639, TIS54 replaces 2N3640. All are for small-signal, high-speed switching.

Type No.	Case TO-	S	BVCBO V	Ic ma	Pt W	hFE Min	hFE Max	fT mc	EACH 1-99	EACH 100-999
TIS51	92	EP	30	500	1.2	30	120	400	.63	.48
TIS47	92	EP	40	500	1.2	30	120	300	.60	.45
TIS48	92	EP	40	500	1.2	40	120	500	.60	.48
TIS49	92	EP	40	500	1.2	40	120	500	.75	.55
TIS44	92	EP	25	.....	1	20	....	200	.49	.37
TIS45	92	EP	40	.....	1.2	30	120	300	.60	.45
TIS46	92	EP	40	500	1.2	30	120	300	.63	.47
TIS52	92	EP	40	500	1.2	30	120	350	.65	.49
TIS55	92	EP	40	200	.25	30	120	350	.67	.46
PNP SILICON PLANAR SWITCHING TRANSISTORS. See above.										
TIS53	92	EP	−6	80	.25	30	120	300	.60	.43
TIS54	92	EP	−12	80	.25	30	120	300	.67	.46

DIFFUSED JUNCTION SILICON RECTIFIERS

$I_{F(surge)}$ 10 cycles, up to 75°C, 10A. Ambient range, —65 to +175°C.

Type No.	PIV (V)	Io (A)	Max. IR @ PIV (μa)	VF @ Io (V)	EACH 1-99	EACH 100-999
1N4001	50	1	10	1.1	.45	.30
1N4002	100	1	10	1.1	.49	.33
1N4003	200	1	10	1.1	.60	.40
1N4004	400	1	10	1.1	.67	.45
1N4005	600	1	10	1.1	.96	.54
1N4006	800	1	10	1.1	2.25	1.70
1N4007	1000	1	10	1.1	5.10	3.40

[B] SILICON RECTIFIERS—ECONOMY EPOXY PACKAGE

Type No.	PIV (V)	Io (ma)	IRP (A)	Max. IR (μa @ V)	EACH 1-99	EACH 100-999
1N2069	200	750	6	10 @ 200	.49	.33
1N2070	400	750	6	10 @ 400	.67	.49
1N2071	600	750	6	10 @ 600	.87	.58

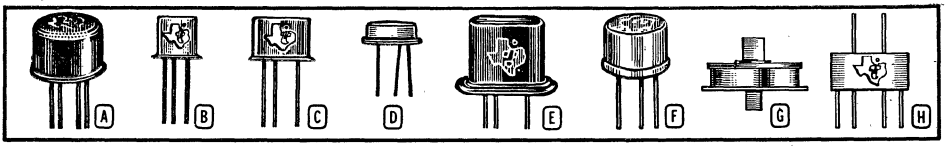
[D] PNP GERMANIUM HIGH FREQUENCY EPITAXIAL PLANAR TRANSISTORS

For low noise, high gain AM-FM receiver applications. Plastic encapsulated; exhibit stable characteristics under high humidity conditions. Capable of meeting MIL-STD-202C (method 103B). BV_{CB}=—20 v.; I_C= —30 ma; and P_t = 75 mw for all. Insensitive to light.

Type No.	Application	hfe, db Min.	hfe, db Typ.	fT mc	NF db	EACH 1-99	EACH 100-999
TIXM01	FM-RF Amp.	11	14	355	4.5	.51	.34
TIXM02	FM Mix./Conv.	29	32	282	.....	.46	.31
TIXM03	FM Osc.	10	.....	316	....	.39	.26
TIXM04	AM/FM IF Amp.	27	31	224	.....	.48	.32

See Following Pages for Explanations of Column Headings

Texas Instruments Silicon Transistors



SILICON SMALL SIGNAL HIGH-FREQUENCY AMPLIFIERS

NPN types for VHF and UHF oscillator and amplifier applications. *f_{hfb}—common-base alpha cutoff freq., mc. †BV_{CBO}.

Type No.	Fig.	S	† V	f_T mc	I_c ma	P_t W	C_{OB} pf	EACH 1-24	25-99	100-999
TIXS39	C	EP	30	....	200	3	6.0	8.25	8.25	5.50
TIXS09	F	EP	...	......	......	.2	1.7	35.00	29.40	19.66
TIXS10	F	EP	...	......	......	.2	1.7	15.00	11.85	7.90
TIXS12	G	EP	30	1500	200	1	10.0	155.00	128.00	105.00
TIXS13	G	EP	30	1200	200	1	10.0	125.00	100.00	85.00
TIX3016A	F	EP	....	1900	......	.2	1.7	50.00	43.50	29.00
2N760	B	M	45	*50	100	1.2	8	2.50	2.50	1.60
2N760A	B	M	60	*50	100	1.2	8	2.70	2.70	1.80
2N916	B	EP	45	300	......	1.2	6	3.65	3.65	2.90
2N917	B	EP	30	500	0.1 μa	3.00	1.7	4.95	4.95	3.30
2N918	B	EP	30	600	50	.3	3	5.25	5.25	3.50
2N2863	B	EP	60	150	1 A	3	13	6.00	6.00	4.00
2N2864	B	EP	60	150	1 A	3	13	5.70	5.70	3.80
2N2865	B	EP	25	600	50	.3	2.5	6.50	6.50	4.35
2N2883	C	EP	40	400	300	1750	10	30.00	30.00	20.00
2N2884	C	EP	40	400	300	1750	10	39.00	39.00	26.00
2N3570	B	EP	30	1500	50	.35	.75	150.00	150.00	100.00
2N3571	B	EP	25	1200	50	.35	.85	15.00	15.00	10.00
2N3572	B	EP	25	1000	50	.35	.85	9.75	9.75	6.50
2N4252	C	EP	30	600	50	.2	.1	1.85	1.85	1.23

SILICON SMALL SIGNAL HIGH-SPEED SWITCHING TRANSISTORS

Figures: TO-18, B; TO-5, C. TO-52 case similar to Fig. F. TO-89, Fig. H. •NPN, others PNP.

Type No.	Case TO-	S	BV_{CBO} V	I_c ma	P_t W	h_{FE} Min	Max	f_T mc	EACH 1-99	100-999
TI485	18	•EP	20	.....	1	15	60	.....	3.25	2.50
2N706	18	•EP	25	.....	1	20	....	200	.99	.66
2N706A	18	•EP	25	.....	1	20	60	200	1.19	.79
2N706B	18	•EP	25	.....	1	20	60	200	1.49	.99
2N708	18	•EP	40	.....	1.2	30	120	300	1.32	.88
2N709	18	•EP	15	.....	.5	20	120	600	2.48	1.65
2N726	18	EP	25	50	1	15	45	140	3.00	2.00
2N727	18	EP	25	50	1	30	120	140	3.15	2.10
2N743	18	•EP	20	200	1	20	60	300	6.20	4.15
2N744	18	•EP	20	200	1	40	120	300	2.90	1.95
2N753	18	•EP	25	.....	1	40	120	200	1.97	1.31
2N914	18	•EP	40	500	1.2	30	120	300	1.04	.84
2N2368	18	•EP	40	500	1.2	20	60	400	2.31	1.54
2N2369	18	•EP	40	500	1.2	40	120	500	2.40	1.60
2N2369A	18	•EP	40	500	1.2	40	120	500	3.45	2.30
2N2410	5	•EP	60	800	2.5	30	120	200	4.50	3.00
2N2411	18	EP	18	100	1	20	60	140	3.15	2.10
2N2412	18	EP	25	100	1	40	120	140	6.00	4.00
2N2481	18	EP	40	.....	1.2	40	120	300	3.90	2.60
2N2537	5	EP	60	800	3	50	150	250	4.95	3.30
2N2538	5	EP	60	800	3	100	300	250	5.85	3.90
2N2539	18	EP	60	800	1.8	50	150	250	4.95	3.30
2N2540	18	EP	60	800	1.8	100	300	250	5.85	3.90
2N849	50	EP	25	50	1.2	20	60	.....	6.00	4.00
2N850	50	EP	25	50	1.2	40	120	.....	7.10	4.75
2N851	50	EP	20	200	1.2	20	60	....	8.45	5.65
2N852	50	EP	20	200	1.2	40	120	.....	9.43	6.30
2N2894	18	EP	12	200	1.2	40	150	400	1.95	1.30
2N3009	18	•EP	40	500	1.2	30	110	350	1.98	1.32
2N3010	18	•EP	15	50	1	25	125	600	1.90	1.27
2N3011	18	•EP	30	500	1.2	30	120	400	1.98	1.32
2N3012	18	EP	12	200	1.2	30	120	400	1.95	1.30
2N3013	18	•EP	40	500	1.2	30	120	350	7.00	4.69
2N3014	18	•EP	40	500	1.2	30	120	350	3.60	2.40
2N3015	5	•EP	60	500	3	30	120	250	3.50	2.00
2N3252	5	•EP	60	1A	5	30	90	200	9.75	6.50
2N3253	5	•EP	75	1A	5	25	75	175	9.75	6.50
2N3303	5	•EP	25	1A	3	30	120	450	18.00	12.00
2N3304	18	EP	6	.....	.5	30	120	500	8.25	5.50
2N3444	5	•EP	80	1A	5	20	60	150	12.00	8.00
2N3554	5	•EP	60	1.2A	5	20	....	.....	8.10	5.40
2N3576	18	EP	20	200	1.2	40	120	400	9.40	6.25
2N3829	52	EP	35	500	1.2	30	120	350	6.00	4.00
2N3830	5	•EP	80	1.2A	10	30	35	200	13.50	9.00
2N3831	5	•EP	70	1.2A	10	30	35	200	9.00	6.00
2N3832	18	•EP	15	35	.2	25	125	800	7.50	5.00

HOW TO ORDER

When ordering, specify Department Number 49 D 32, then add TI type Number or JEDEC type Number Ex.: 49 D 32 2N2483.

SILICON TETRODE NPN TRANSISTORS

High gain at high temperature. For high-frequency uses. Gain: 3N34, 22 db at 30 mc; 3N35 20 db at 70 mc. TO-5 case.

Type No.	Fig.	S	P_t mw	I_c ma	BV_{CBO} V	EACH 1-99	100-999
3N34	A	GD	125	20	30 min	5.00	4.15
3N35	A	GD	125	20	30 min	22.50	15.00
TI874	A	GD	125	20	30 min	4.20	2.70

SILICON PLANAR FIELD-EFFECT TRANSISTORS

Feature high input impedance, low noise and high radiation resistance. I_{GSS}—gate cutoff current. Y_{fs}—small sig. common-source fwd transfer admittance. *N-channel type; †P-channel; TO-18 is Fig. A, TO-5 is Fig. C.

Type No.	Case TO-	I_{GSS} μa	Y_{fs} (μmho) Min	Max	NF db	EACH 1-99	100-999
2N2386	5	.01	1000	......	....	6.75	4.50
2N2497	5	.01	1000	2000	3	12.90	8.60
2N2498	5	.01	1500	3000	3	11.11	7.40
2N2499†	18	.01	2000	4000	4	12.90	8.60
2N2500	5	.01	1000	2200	1	19.20	12.80
2N3328	18	1 na	100	......	3	10.50	7.00
2N3329	18	.01	1000	2000	3	9.15	6.10
2N3330	18	.01	1500	3000	3	7.50	5.05
2N3331	18	.01	2000	4000	4	9.15	6.10
2N3332	18	.01	1000	2200	1	13.20	10.50
2N3573	5	0.6 na	100	300	3	21.75	14.50
2N3574	5	0.6 na	200	600	3	17.25	11.50
2N3575	5	0.6 na	300	900	3	18.60	12.50
2N3821*	18	0.1 na	1500	4500	5	22.50	14.95
2N3822*	18	0.1 na	3000	6500	5	21.70	14.45
2N3823*	18	.1 na	3500	6500	....	12.90	8.60
2N3909†	18	.5 na	1000	5000	....	6.30	4.20

LOW-LEVEL LOW-NOISE SILICON SWITCHING AND AMPLIFIER TRANSISTORS

2N2692 is ideal for very low current switching. Fig. D is TO-46 case. P_tW in table below is given at 25° case temperature, except † free-air temperature.

Type No.	Fig.	S	P_t W	BV_{CBO} V	h_{FE} @ I_c Min	Max	μa	f_T mc	EACH 1-99	100-999
2N780	B	•M	1	45	35	140	500	60	7.50	5.00
2N929	B	•P	0.6	45	40	120	10	60	3.60	2.40
2N930	B	•P	0.6	45	100	300	10	60	3.87	2.65
2N1247	C	•P	†.03	6	25	150	5	....	13.50	9.00
2N1248	C	•P	†.03	6	50	250	20	....	13.50	9.00
2N2387	F	•P	.3	45	40	120	10	...	11.55	7.70
2N2388	F	•P	.3	45	100	300	10	.....	14.40	9.65
2N2483	B	•P	1.2	60	40	120	10	60	3.60	2.40
2N2484	B	•P	1.2	60	100	500	10	60	3.87	2.65
2N2586	C	•P	0.6	60	80	....	1	45	9.00	6.00
2N2604	D	EP	†0.4	60	40	120	10	30	6.00	4.00
2N2605	D	EP	†0.4	60	100	300	10	30	6.60	4.40
2N2692	B	•EP	1	45	60	....	10	42	15.00	10.00
2N2693	B	•EP	1	45	40	....	10	42	7.75	5.50
2N2694	B	•EP	1	45	20	....	10	42	5.25	3.50
2N2861	B	EP	1	25	35	120	10	60	8.50	5.65
2N2862	B	EP	1	25	12	120	10	45	6.00	4.00

SILICON DUAL FIELD-EFFECT TRANSISTORS

*N-channel type. †P-channel type. Case TO-5 is Fig. C, TO-18 is Fig. A, TO-89 is Fig. H. na, nanoamperes.

Type No.	Case TO-	I_{GSS} na	Y_{fs} (μmho) Min.	Max.	NF db	EACH 1-24	25-99	100-999
TIS25*	5	.25	1500	6000	5	34.60	34.60	22.50
TIS26*	5	.25	1500	6000	5	32.70	32.70	21.80
TIS27*	5	.25	1500	6000	.....	30.15	30.15	20.50
TIXS35*	18	10	10000	20000	.....	39.30	39.30	26.50
TIXS36*	18	10	10000	20000	.....	36.30	36.30	24.50
2N3333†	89	10	600	1800	.....	271.50	235.00	181.00
2N3334†	89	10	600	1800	.....	213.00	184.50	142.00
2N3335†	89	10	600	1800	.....	193.50	167.80	129.00
2N3336†	89	10	600	1800	.....	98.00	85.00	65.40

Texas Instruments Semiconductors

EXPLANATION OF COLUMN HEADINGS—USED ON PAGES 56 AND 57

C_T, total capacitance. I_c, collector current. I_E, emitter current. PIV, peak reverse voltage. P_t, dissipation at 25° C case temperature. Q, figure of merit. S, structure. $V_{CE\ (sat)}$, collector-emitter saturation voltage. •NPN, others PNP. Structures: EM, epitaxial mesa; EP, epit. planar; GJ, grown junction; M, mesa; P, planar.

NPN SILICON SMALL SIGNAL GENERAL-PURPOSE TRANSISTORS

Dissipation at 25°C case temp., except *25° C free-air temperature. †h_{fb} at I_E. §h_{fe} at I_E. ‡f_{ab}. #BV_{CEO}. Figs. on preceding page. 2N339 has TO-11 case, other Fig. C are TO-5.

Type No.	Fig	S	Pt mw	Ic ma	BV_{CBO} V	h_{FE} @ I_c Min	Max	ma	ft mc	EACH 1-99	100-999
2N117	E	•GJ	*150	25	45	9	20	.....	‡4	8.15	5.45
2N118A	E	•GJ	*150	25	45	18	40	.....	‡7	8.15	5.45
2N119	E	•GJ	*150	25	45	36	86	.....	‡6	11.05	7.35
2N243	E	•GJ	750	60	60	†0.9	0.97	5	...	13.75	9.15
2N244	E	•GJ	750	60	60	†0.96	0.99	5	...	20.45	13.60
2N332	C	•GJ	*150	25	45	9	20	.....	‡6	4.65	3.10
2N332A	C	•GJ	*500	25	45	9	20	.....	‡6	4.90	3.30
2N333	C	•GJ	*150	25	45	18	40	.....	...	4.65	3.10
2N333A	C	•GJ	*500	25	45	18	40	.....	...	4.90	3.30
2N334	C	•GJ	*150	25	45	18	90	.....	‡8	4.65	3.10
2N334A	C	•GJ	*500	25	45	18	90	.....	‡8	4.90	3.30
2N335	C	•GJ	*150	25	45	36	90	.....	‡11	4.90	3.30
2N335A	C	•GJ	*500	25	45	36	90	.....	‡11	5.20	3.50
2N336	C	•GJ	*150	25	45	76	333	.....	‡13	4.90	3.30
2N336A	C	•GJ	*500	25	45	76	333	.....	‡13	6.25	4.20
2N337	C	•GJ	*125	20	45	20	55	10	‡20	4.85	3.20
2N338	C	•GJ	*125	20	45	45	150	10	‡30	5.50	3.65
2N339	C	•GJ	1W	60	55	†.9	.99	5	...	10.15	6.75
2N340	C	•GJ	1W	60	85	†.9	.99	5	...	10.80	7.20
2N341	C	•GJ	1W	60	125	†.9	.99	5	...	17.50	11.65
2N342A	C	•GJ	1W	60	85	†.9	.97	5	...	11.90	7.95
2N343	C	•GJ	1W	60	60	†.97	.99	5	...	18.40	12.25
2N542	C	•GJ	*200	25	30	80	200	5	...	6.30	4.20
2N543	C	•GJ	*200	25	45	80	200	5	...	8.10	5.40
2N696	C	•P	2W	...	60	20	60	150	40	.93	.62
2N697	C	•P	2W	...	60	40	120	150	50	1.12	.75
2N698	C	•P	2W	...	120	20	60	150	40	1.57	1.05
2N699	C	•P	2W	...	120	40	120	150	40	1.73	1.15
2N717	B	•P	1.8W	...	60	20	60	150	40	.99	.66
2N718	B	•P	1.8W	...	60	40	120	150	50	1.30	.86
2N718A	B	•P	1.8W	...	75	40	120	150	60	2.00	1.33
2N719	B	•P	1.8W	...	120	20	60	150	40	2.35	1.56
2N719A	B	•P	1.8W	...	120	20	60	150	40	2.50	1.67
2N720	B	•P	1.8W	...	120	40	120	150	50	1.83	1.22
2N730	B	•P	1.5W	...	60	20	60	150	40	.99	.66
2N731	B	•P	1.5W	...	60	40	120	150	50	1.30	.86
2N735	B	•M	1W	50	80	§40	100	5	60	2.50	1.65
2N736	B	•M	1W	50	80	§80	200	5	40	2.50	1.65
2N736A	B	•M	1W	100	80	§80	200	5	100	2.50	1.65
2N738	B	•M	1W	50	125	§20	50	5	30	2.70	1.80
2N739	B	•M	1W	50	125	§40	100	5	60	2.70	1.80
2N740	B	•M	1W	30	125	§80	200	–5	60	2.70	1.80
2N870	B	•P	1.8W	...	100	40	120	150	50	5.25	3.50
2N871	B	•P	1.8W	...	100	100	300	150	60	5.33	3.56
2N910	B	•P	1.8W	...	100	§80	200	5	60	2.61	1.74
2N911	B	•P	1.8W	...	100	§40	100	5	50	5.55	3.70
2N912	B	•P	1.8W	...	100	§20	50	5	40	5.30	4.00
2N956	B	•P	1.8W	...	75	100	300	150	70	2.60	1.73
2N1252	C	•EP	2W	...	30	15	45	150	40	6.90	4.55
2N1253	C	•EP	2W	...	30	30	90	150	50	11.95	7.95
2N1276	C	•GJ	*150	25	40	§9	22	1	‡30	3.85	2.55
2N1277	C	•GJ	*150	25	40	§18	44	1	‡30	4.25	2.84
2N1278	C	•GJ	*150	25	40	§37	90	1	‡30	4.75	3.15
2N1279	C	•GJ	*150	25	40	§76	333	1	‡34	5.60	3.70
2N1420	C	•P	2W	..	60	100	300	150	50	1.20	.80
2N1507	C	•P	2W	...	60	100	200	150	50	1.20	.80
2N1564	C	•M	1.2W	50	80	§20	50	5	60	2.50	1.65
2N1565	C	•M	1.2W	50	80	§40	100	5	60	2.50	1.65
2N1566	C	•M	1.2W	50	80	§80	200	5	60	2.50	1.65
2N1566A	C	•M	1.2W	100	80	§80	200	5	100	2.50	1.65
2N1613	C	•P	3W	...	75	40	120	150	60	2.30	1.53
2N1711	C	•P	3W	...	75	100	300	150	70	2.30	1.53
2N1889	C	•P	3W	...	100	40	120	150	50	5.25	3.50
2N1890	C	•P	3W	...	100	100	300	150	60	5.32	3.55
2N1893	C	•P	3W	...	120	40	120	150	50	3.42	2.28
2N1973	C	•P	3W	...	100	§80	200	5	60	8.00	6.00
2N1974	C	•P	3W	...	100	§40	100	5	50	6.70	5.00
2N1975	C	•P	3W	...	100	§20	50	5	50	5.30	4.00
2N2192	C	•EP	2.8W	1A	#40	100	300	150	50	4.20	2.80
2N2192A	C	•EP	2.8W	1A	#40	100	300	150	50	4.45	2.95
2N2193	C	•EP	2.8W	1A	#50	40	120	150	50	2.95	1.95
2N2193A	C	•EP	2.8W	1A	#50	40	120	150	50	3.15	2.10
2N2194	C	•EP	2.8W	1A	#40	20	60	150	50	2.20	1.47
2N2194A	C	•EP	2.8W	1A	#40	20	60	150	50	2.45	1.63

NPN SILICON SMALL SIGNAL GENERAL-PURPOSE TRANSISTORS (Cont'd)

Type No.	Fig.	S	Pt mw	Ic ma	BV_{CBO} V	h_{FE} @ I_c Min	Max	ma	f_T mc	EACH 1-99	100-999
2N2217	C	•EP	3W	800	#30	20	60	150	250	3.02	2.01
2N2218	C	•EP	3W	800	#30	40	120	150	250	3.56	2.37
2N2218A	C	•EP	3W	800	#30	40	120	150	250	5.26	3.51
2N2219	C	•EP	3W	800	#30	100	300	150	250	3.56	2.37
2N2219A	C	•EP	3W	800	#30	100	300	150	250	6.07	4.05
2N2220	B	•EP	1.8W	800	#30	20	60	150	250	3.02	2.01
2N2221	B	•EP	1.8W	800	#30	40	120	150	250	3.55	2.37
2N2221A	B	•EP	1.8W	800	#30	40	120	150	250	5.26	3.51
2N2222	B	•EP	1.8W	800	#30	100	300	150	250	3.98	2.65
2N2222A	B	•EP	1.8W	800	#30	100	300	150	250	6.07	4.05
2N2243	C	•EP	2.8W	1A	#80	40	120	150	50	4.80	3.20
2N2243A	C	•EP	2.8W	1A	#80	40	120	150	50	5.10	3.40
2N2389	F	•E	450	500	75	35	75	10	...	14.40	9.65
2N2390	F	•E	450	500	75	35	75	10	...	15.80	10.55
2N2395	F	•E	450	300	60	20	60	150	...	10.10	6.75
2N2396	F	•E	450	300	· 60	40	120	150	...	11.55	7.70
2N3036	C	•EP	5W	1.2A	120	50	150	150	50	5.50	3.70
2N3037	F	•EP	360	500	120	40	120	150	...	18.00	12.00
2N3038	F	•EP	360	500	100	80	240	150	...	19.50	13.00
2N3114	C	•EP	.8W	200	150	30	120	30	...	6.00	4.00
2N3712	C	•P	5W	200	150	30	105	30	40	3.00	2.00

PNP SILICON SMALL-SIGNAL GENERAL-PURPOSE TRANSISTORS

Type No.	Fig.	S	Pt mw	Ic ma	BV_{CBO} V	h_{FE} @ I_c Min	Max	ma	f_T mc	EACH 1-99	100-999
2N721	B	EP	1.5W	...	–50	20	45	–150	50	5.60	3.75
2N722	B	EP	1.5W	...	–50	30	90	–150	60	5.60	3.75
2N1131	F	EP	2W	...	–50	20	45	–150	40	5.60	3.75
2N1132	F	EP	2W	...	–50	30	90	–150	50	5.60	3.75
2N2695	D	EP	2W	500	25	30	130	50	100	12.40	8.25
2N2696	B	EP	1.2W	500	25	30	130	50	100	7.50	5.00
2N2904	F	EP	3W	600	60	40	120	150	200	7.50	5.00
2N2904A	F	EP	3W	600	60	40	120	150	200	10.50	7.00
2N2905	F	EP	3W	600	60	100	300	150	200	9.00	6.00
2N2905A	F	EP	3W	600	60	100	300	150	200	12.00	8.00
2N2906	B	EP	1.8W	600	60	40	120	150	200	7.20	4.80
2N2906A	B	EP	1.8W	600	60	40	120	150	200	10.50	6.70
2N2907	B	EP	1.8W	600	60	100	300	150	200	8.70	5.80
2N2907A	B	EP	1.8W	600	60	100	300	150	200	11.55	7.70
2N3485	D	EP	.....	400	600	60	40	120	...	8.70	5.80
2N3485A	D	EP	.....	400	600	60	40	120	...	12.00	8.00
2N3486	D	EP	.....	400	600	60	100	300	...	10.20	6.80
2N3486A	D	EP	.....	400	600	60	100	300	...	13.50	9.00
2N3502	C	EP	.....	700	....	45	100	300	...	8.70	5.80
2N3503	C	EP	.....	700	....	60	100	300	...	11.55	7.70
2N3504	B	EP	.....	400	....	45	100	300	...	8.70	5.80
2N3505	B	EP	.....	400	....	60	100	300	...	11.55	7.70

SILICON FIELD-EFFECT CHOPPERS

Type No.	Case TO-	I_{GSS} na	Y_{fs} umho Min	Max	r_{ds} (on)	EACH 1-99	100-999
2N3824	18	0.1	....	....	....	14.15	9.40
TIXS05	18	2	6000	12000	....	30.00	20.00
TIXS33	72	....	12000	....	....	33.60	22.50
TIXS34	18	–5	3500	6500	....	4.50	2.80
TIXS41	72	–0.2	....	....	17	19.90	13.35

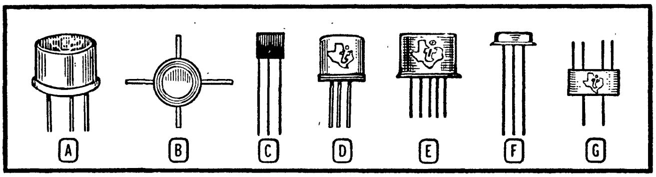
SILICON EPITAXIAL PLANAR DUAL EMITTER CHOPPERS

Ideal for differential amps. Two matched units in one package. Package outline is same as JEDEC TO-18 except for fourth lead.

Type No.	Fig.	S	Pt mw	BV_{E1E2} V	I_{E1E2} na	V_{E1E2} µa	EACH 1-99	100-999
3N74	D	NPN	600	18	±2	50	15.60	10.40
3N75	D	NPN	600	18	±2	100	13.50	9.03
3N76	D	NPN	600	18	±2	200	9.78	6.52
3N77	D	NPN	600	12	±5	50	9.00	6.00
3N78	D	NPN	600	12	±5	100	6.75	4.50
3N79	D	NPN	600	12	±10	200	4.50	3.00
3N108	D	PNP	600	±50	±0.1	30	41.00	27.25
3N109	D	PNP	600	±50	±0.1	150	29.00	19.25
3N110	D	PNP	600	±30	±0.5	30	24.00	16.25
3N111	D	PNP	600	±30	±0.5	150	15.00	10.00

Texas Instruments Silicon Transistors

Military version semiconductors are available from Allied. They are listed in the Semiconductor Directory beginning on page 1.



HOW TO ORDER TEXAS INSTRUMENTS SEMICONDUCTORS

When ordering specify Department Number 49 D 32, then add TI type or JEDEC type number.
Ex.: 49 D 32 2N2160.

EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS

Structure: under S column in headings. A, alloy junc. E, epitaxial. EM, epitaxial mesa. GD, grown diffused. GJ, grown junction; M, mesa P, planar; EP, epitaxial planar. All PNP, except •NPN. Symbols: Column heads: BV_{CBO}, collector-base breakdown voltage, open input; BV_{CEO}, collector-emitter breakdown voltage, open input; BV_{CER}, collector-emitter breakdown voltage, resistance input; BV_{E1E2}, emitter-emitter breakdown voltage; C_{OB}, output capacitance; f_{ab}, alpha cutoff freq; F_T, frequency at which h_{fe} is unity; h_{fb}, small-signal current gain, common base; h_{fe}, small-signal current gain, common emitter; h_{FE}, DC current gain; I_c, max. coll. curr.; I_{E1E2}, emitter cutoff current; P_c, max. collector diss.; P_t, total diss.; S, structure; V_{CBO}, max. collector-base voltage, open input; voltage; V_{BB}, base-to-base voltage; V_{E2E2}, offset voltage; η, intrinsic standoff ratio.

[A] UNIJUNCTION SILICON TRANSISTORS

For pulse timing circuits, relaxation oscillators, medium power switches. Maximum ratings of the units listed in the table below are as follows: peak emitter current, 2 amperes; RMS, 50 milliamps. All are grown junction types with power dissipation from 450 to 600 milliwatts. All are Fig. A except *, Fig. C.

Type No.	S	V_{BB} V	P_t mw	η Min.	η Max.	EACH 1-99	EACH 100-999
2N489	•GJ	65	600	.51	.62	7.10	4.75
2N490	•GJ	65	600	.51	.62	7.80	5.20
2N491	•GJ	65	600	.56	.68	8.40	5.60
2N492	•GJ	65	600	.56	.68	9.80	6.55
2N493	•GJ	65	600	.62	.75	10.75	7.20
2N494	•GJ	65	600	.62	.75	10.90	7.30
2N1671	•GJ	35	450	.47	.62	2.95	1.98
2N1671A	•GJ	35	450	.47	.62	3.20	2.14
2N1671B	•GJ	35	450	.47	.62	3.55	2.36
2N489A	GJ	65	600	.51	.62	7.65	5.10
2N489B	GJ	65	600	.51	.62	9.15	6.10
2N490A	GJ	65	600	.51	.62	8.35	5.55
2N490B	GJ	65	600	.51	.62	9.85	6.55
2N491A	GJ	65	600	.56	.68	8.90	5.95
2N491B	GJ	65	600	.56	.68	10.40	6.95
2N492A	GJ	65	600	.56	.68	10.40	6.95
2N492B	GJ	65	600	.56	.68	11.90	7.95
2N493A	GJ	65	600	.62	.75	11.20	7.50
2N493B	GJ	65	600	.62	.75	12.75	8.50
2N494A	GJ	65	600	.62	.75	11.40	7.60
2N494B	GJ	65	600	.62	.75	12.90	8.60
2N494C	G	65	....	.62	.75	14.95	9.90
2N2160	GJ	35	450	.47	.80	1.49	.99
2N3980*	P	35	....	.68	.82	7.35	4.90

MULTI-ELEMENT SILICON POWER TRANSISTORS

Two triodes and commutating diode in monolithic Darlington configuration. Very high gain—1000 minimum at 5 amps. High-speed switching—0.5 μsec max. t_{on}. NPN epitaxial planar.

Type No.	Fig.	S	Coll.-Base 1 Voltage	I_c Amps	P_t W	EACH 1-99	EACH 100-999
2N3836	B	•EP	80	7	25	66.00	44.00
2N3837	B	•EP	100	7	25	99.00	66.00

SILICON PNP ALLOY REPLACEMENT

Type No.	Fig.	S.	P_t mw	BV_{CEO} V	h_{FE} Min.	h_{FE} Max.	EACH 1-99	EACH 100-999
2N328A	A	EP	500	35	18	44	4.50	3.00
2N328B	A	EP	500	35	18	44	4.85	3.25
2N329A	A	EP	500	30	36	88	6.50	4.35
2N329B	A	EP	500	30	36	88	6.90	4.60

MINIATURE PLANAR SILICON TRANSISTORS

Audio amplifiers for microelectronics. Case only 0.06x0.06x0.05″.

Type No.	Fig.	S	BV_{CEO} V.	Ic ma	P_t mw	h_{FE} Min.	h_{FE} Max.	EACH 1-99	EACH 100-999
TIS22	C	•P	45	50	150	40	120	4.20	2.80
TIS23	C	•P	45	50	150	100	300	4.65	3.20
TIS24	C	•P	60	50	150	100	500	6.45	4.30

EPITAXIAL PLANAR SILICON CHOPPER TRANSISTOR

I_{EBO}—emitter cutoff curr. $V_{EC(off)}$—offset v. (inverted conn.)

Type No.	Fig.	S	BV_{CEO} V	I_{EBO} na	h_{FE} @ I_c Min	h_{FE} @ I_c μa	$V_{EC(off)}$ mv	P_t mw	EACH 1-99	EACH 100-999
2N2432	C	NPN	30	2	30	10	500	600	12.00	8.00
2N2944	F	PNP	—10	—0.1	80	-1000	500	400	5.75	3.85
2N2945	F	PNP	—20	—0.2	40	-1000	300	400	5.00	3.35
2N2946	F	PNP	—35	—0.5	30	-1000	800	400	5.75	3.85
2N4138	F	NPN	15	2.0	.....	.....	500	......	12.00	8.00

AVALANCHE MODE SILICON SWITCHING TRANSISTOR

T_d—delay time, T_r—rise time. V_o—output pulse amp. TO-18 case.

Type No.	Fig.	S	I_c A	BV_{CBO} V Min	BV_{CBO} V Max	T_d Max nsec	T_r Max nsec	V_o Min V	P_t W	EACH 1-99	EACH 100-999
2N3033	D	•EM	10	100	160	3	2	45	1	45.00	30.00
2N3034	D	•EM	10	70	120	3	2	30	1	14.50	9.67
2N3035	D	•EM	10	50	90	3	2	20	1	12.50	8.30

[E] SILICON DUAL DIFFERENTIAL AMPLIFIER TRANSISTORS

h_{FE1}/h_{FE2}—static fwd. curr. gain bal. ratio. $V_{BE1}V_{BE2}$—base-emitter voltage diff. ΔV_{BE}—base-emitter volt. diff./temp. gradient. All are Fig. E, except *, Fig. G.

Type No.	S	BV_{CBO} V	h_{FE} @ I_c Min	h_{FE} @ I_c Max	h_{FE} @ I_c μa	h_{FE1}/h_{FE2}	$V_{BE1}-V_{BE2}$ mv	ΔV_{BE} μv	EACH 1-99	EACH 100-999
2N2060	•P	100	30	90	100	10%	5	10	27.00	18.00
2N2223	•P	100	25	150	100	20%	15	25	10.00	6.70
2N2223A	•P	100	25	150	100	10%	5	25	15.00	10.00
2N2453	•P	60	80	.....	10	10%	5	10	30.00	20.00
2N2639	•P	45	50	300	10	10%	5	10	22.00	14.70
2N2640	•P	45	50	300	10	20%	10	20	20.25	13.50
2N2641	•P	45	50	300	10	......	....	......	9.00	6.00
2N2642	•P	45	100	300	10	10%	5	10	26.25	17.50
2N2643*	•P	45	100	300	10	10%	5	10	25.00	16.70
2N2644	•P	45	100	300	10	......	....	......	15.60	10.40
2N2802	P	25	20	120	100	10%	5	10	39.50	26.30
2N2803	P	25	20	120	100	20%	10	20	24.00	16.00
2N2804	P	25	20	120	100	......	....	......	21.45	14.30
2N2805	P	25	40	120	100	10%	5	10	41.10	27.40
2N2806	P	25	40	120	100	20%	10	20	26.00	17.30
2N2807	P	25	40	120	100	......	....	......	22.50	15.00
2N2913*	•P	....	60	240	10	......	....	......	9.90	6.60
2N2914*	•P	....	150	600	10	......	....	......	12.00	8.00
2N2915*	•P	....	60	240	10	10%	3	10	22.50	15.00
2N2916*	•P	....	150	600	10	10%	3	10	25.50	17.00
2N2917*	•P	....	60	240	10	20%	5	20	21.00	14.00
2N2918*	•P	....	150	600	10	20%	5	20	24.75	16.50
2N2919*	•P	....	60	240	10	10%	3	10	24.00	16.00
2N2920*	•P	....	150	600	10	10%	3	10	27.00	18.00
2N3347	EP	—60	40	300	10	10%	5	1.0	34.50	23.00
2N3348	EP	—60	40	300	10	20%	10	2.0	20.70	13.80
2N3349	EP	—60	40	300	10	40%	20	4.0	16.50	11.00
2N3350	EP	—60	100	300	10	10%	5	1.0	45.40	30.80
2N3351	EP	—60	100	300	10	20%	10	2.0	33.90	22.60
2N3352	EP	—60	100	300	10	40%	20	4.0	27.75	18.50
2N3680	•P	60	150	600	10	10%	3	5	49.00	32.60

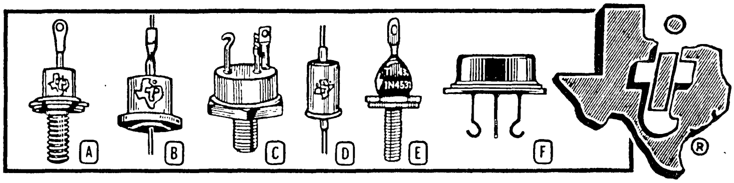
Type No.	S	BV_{CBO} V	h_{FE} @ I_c Min	h_{FE} @ I_c Max	h_{FE} @ I_c μa	$V_{BE1}-V_{BE2}$ mv	ΔV_{BE} μv	EACH 1-24	EACH 25-99	EACH 100-999
2N3043*	•P	45	100	300	10	5	1	44.00	38.00	29.40
2N3044*	•P	45	100	300	10	5	1	37.50	32.50	25.00
2N3045*	•P	45	100	300	10	5	1	22.40	19.40	14.90
2N3046*	•P	45	50	200	10	10	2	40.50	35.10	27.00
2N3047*	•P	45	50	200	10	10	2	29.90	25.90	19.90
2N3048*	•P	45	50	200	10	10	2	15.75	13.70	10.50
2N3049*	•E	—20	20	120	10	—7	1000	50.90	44.00	34.00
2N3050*	•EP	—20	20	120	10	—7	1000	44.00	38.00	29.40
2N3051*	•EP	—20	20	120	10	—7	....	29.25	25.40	19.50
2N3838*	•EP	60	35	.....	100	0.85	....	30.15	26.13	20.10

TYPE 2N997 DARLINGTON TRANSISTOR

NPN device for use in pulse timing circuits, relaxation oscillators, and medium power switches. TO-18 case. P_t @ 25°C case temp. 1.5 watts. BV_{CBO}—75 v. I_c—300 ma I_{CBO}—10 na. BV_{CEO}—40 v. Min. DC gain @ 10 v. coll. to emitter volt. and 100 ma collector curr. 7000.

2 N 997. 1-99.....Each 15.00 100-999........Each 10.00

Texas Instruments Semiconductors



SILICON POWER TRANSISTORS

All of the units listed are NPN. *Indicates @ 25°C; all others 100°C case temperature. ‡TO-3 case. #Stud and leads. **Double, end stud. §Fig. B, ††Fig. A, as illustrated on page 56 of this catalog. ##Flanged. ‡‡Voltages are BV_{CEO} except †BV_{CER} §§TO-39 case; *** TO-63. Other cases as indicated in illustrations.

Type No.	Fig	P_t W	‡‡ V	h_{FE} Min	@ I_c A	EACH 1-99	100-999
TIP04	‡	2.5	300	20	1	10.75	7.95
2N389A	##	85	†60	12	1	21.00	14.00
2N424A	##	85	*80	12	1	16.50	11.00
TI486	...	.8	60	20	.2	4.90	3.25
TI487	...	.2	60	20	.2	5.60	3.75
2N497	A	4	60	12	.2	1.89	1.26
2N497A	A	5	60	12	.2	2.05	1.37
2N498	A	4	100	12	.2	2.12	1.41
2N498A	A	5	100	12	.2	3.45	2.30
2N656	A	4	60	30	.2	2.03	1.35
2N656A	A	5	60	30	.2	2.40	1.60
2N657	A	4	100	30	.2	2.20	1.47
2N657A	A	5	100	30	.2	9.00	6.00
2N1047	#	40	80	12	.5	14.30	9.55
2N1047A	#	40	80	12	.5	14.30	9.55
2N1047B	#	40	80	36	.5	25.95	17.30
2N1048	#	40	120	36	.5	18.10	12.05
2N1048A	#	40	120	36	.5	18.10	12.05
2N1048B	#	40	120	36	.5	38.30	25.50
2N1049	#	40	80	90	.5	16.75	11.15
2N1049A	#	40	80	90	.5	16.75	11.15
2N1049B	#	40	80	90	.5	33.75	22.50
2N1050	#	40	120	90	.5	22.10	14.20
2N1050A	#	40	120	90	.5	22.10	14.20
2N1050B	#	40	120	90	.5	46.90	31.20
2N1488	‡	75	55	45	1.5	4.95	3.30
2N1489	‡	75	40	75	1.5	7.43	4.95
2N1490	‡	*75	55	25	1.5	8.25	5.50
2N1714	§	10	60	20	.2	6.00	4.00
2N1715	§	10	100	20	.2	8.25	5.50
2N1716	§	10	60	20	.2	7.50	5.00
2N1717	§	10	100	40	.2	11.25	7.50
2N1718	**	10	60	20	.2	6.75	4.50
2N1719	**	10	100	20	.2	9.00	6.00
2N1720	**	10	60	40	.2	8.25	5.50
2N1721	**	10	100	40	.2	12.00	8.00
2N1722	F	50	80	20	2	52.50	35.00
2N1722A	F	50	120	30	2	60.00	40.00
2N1723	F	50	80	50	2	54.00	36.00
2N1724	C	50	80	20	2	55.50	37.00
2N1724A	C	50	120	20	2	63.00	42.00
2N1725	C	50	80	50	2	57.00	38.00
2N1936	***	150	60	10	10	67.50	45.00
2N1937	***	150	80	10	10	75.00	50.00
2N2150	**	2	80	20	1	22.50	15.00
2N2151	**	30	80	40	1	24.75	16.50
2N2631	§§	8.8	60	..	1.5	4.79	3.31
2N2876	§§	17.5	60	..	2.5	14.50	10.05
2N3846	***	150	200	15	10	90.00	60.00
2N3848	***	150	200	15	15	125.00	85.00
2N2987	§	15	80	10	.2	8.25	5.50
2N2988	§	15	100	10	.2	11.25	7.50
2N2989	§	15	80	20	.2	10.20	6.75
2N2990	§	15	100	20	.2	13.10	8.75
2N2991	**	15	80	10	.2	9.00	6.00
2N2992	**	15	100	10	.2	12.00	8.00
2N2993	**	15	80	20	.2	10.90	7.25
2N2994	**	15	100	20	.2	13.90	9.25
2N3551	...	40	115	25	5	100.00	67.50
2N3552	...	40	140	25	5	112.50	75.00
2N3418	††	10	60	10	1	12.45	8.30
2N3419	††	10	80	10	1	14.10	9.40
2N3420	††	10	60	10	1	13.35	8.90
2N3421	††	10	80	10	1	16.95	11.30
2N4000	...	1	80	30	.5	10.20	6.75
2N4001	...	1	100	40	.5	13.10	8.75
2N4002	***	4	80	20	15	112.50	75.00
2N4003	***	4	100	20	15	148.00	99.00
2N4004	***	1.2	80	30	10	112.50	75.00
2N4005	***	1.2	100	30	10	148.00	99.00
2N4300	...	1	80	30	1	12.75	8.50
2N4301	...	3.5	80	30	5	58.50	39.00

See Semiconductor Directory Beginning on Page 1 for Additional Listings.

EXPLANATION OF COLUMN HEADINGS

P_t total power dissipation measured in watts. BV_{CBO}, breakdown voltage, collector to base, emitter open. BV_{CER}, breakdown voltage, collector to emitter, with specified resistance between base and emitter. h_{FE}, DC current gain. I_C, collector current (rms). I_c, collector current (DC). I_O, average output (recitified) current. I_{FM}, forward DC current. PIV, peak inverse voltage measured in volts. Also see preceding pages.

GENERAL-PURPOSE SILICON RECTIFIERS

In Type No., * indicates these units also available, from stock, in anode-to-stud configuration. To order, add suffix "R" to Type No. "Each" prices are the same as standard units.

Type No.	Fig	PIV (V)	I_O (A) @ 50°C	I_{FM}(A) @ 50°C	EACH 1-99	100-999
1N253*	A	100	3	10	1.05	.70
1N254	A	200	3	10	1.12	.75
1N255*	A	400	3	10	1.72	1.15
1N256	A	600	3	10	2.40	1.60
1N536	B	50	0.75	2.5	.45	.30
1N537	B	100	0.75	2.5	.49	.33
1N538	B	200	0.75	2.5	.52	.35
1N539	B	300	0.75	2.5	.60	.40
1N540	B	400	0.75	2.5	.67	.45
1N547	B	600	0.75	2.5	.96	.64
1N560	B	800	0.75	1.5	1.50	1.00
1N561	B	1000	0.75	1.5	2.70	1.80
1N588	D	1500	0.015	0.15	6.30	4.25
1N589	D	1500	0.05	0.25	6.30	4.25
1N1115	A	100	1.5	5.0	1.05	.70
1N1116	A	200	1.5	5.0	1.12	.75
1N1117	A	300	1.5	5.0	1.42	.95
1N1118	A	400	1.5	5.0	1.72	1.15
1N1119	A	500	1.5	5.0	1.80	1.20
1N1120	A	600	1.5	5.0	2.40	1.60
1N1124*	A	200	3.0	10.0	2.10	1.40
1N1124A	A	200	3.3	10.0	2.10	1.40
1N1125*	A	300	3.0	10.0	2.55	1.70
1N1125A	A	300	3.3	10.0	2.55	1.70
1N1126	A	400	3.0	10.0	3.90	2.60
1N1126A	A	400	3.3	10.0	3.90	2.60
1N1127A	A	500	3.3	10.0	5.25	3.50
1N1128*	A	600	3.0	10.0	6.00	4.00
1N1130	A	1500	0.3	1.0	5.70	3.80
1N1131	A	1500	0.3	1.0	5.70	3.80
1N1199A	A	50	12	1.35	1.25	.83
1N1200A	A	100	12	1.35	1.40	.94
1N1201A	A	150	12	1.35	1.80	1.21
1N1202A	A	200	12	1.35	2.72	1.82
1N1203A	A	300	12	1.35	4.00	2.75
1N1204A	A	400	12	1.35	5.00	3.30
1N1205A	A	500	12	1.35	5.75	3.38
1N1206A	A	600	12	1.35	6.90	4.50
1N1612	A	50	15.0	50.0	1.10	.72
1N1613	A	100	15.0	50.0	1.20	.80
1N1614	A	200	15.0	50.0	1.90	1.27
1N1615	A	400	15.0	50.0	4.05	2.70
1N1616*	A	600	15.0	50.0	5.77	3.85
1N1692	A	100	0.75	2.5	.49	.33
1N1693	B	200	0.75	2.5	.52	.35
1N1694	B	300	0.75	2.5	.60	.40
1N1695	B	400	0.75	2.5	.67	.45
1N1696	B	500	0.75	2.5	.76	.51
1N1697	B	600	0.75	2.5	.97	.64
1N3649	A	800	3.3	1.0	2.88	1.92
1N3650	A	1000	3.3	1.0	3.60	2.40
1N3775	A	1500	3.3	10.0	5.85	3.90
1N4364	B	100	0.75	20.0	.45	.30
1N4365	B	200	0.75	20.0	.48	.32
1N4366	B	300	0.75	20.0	.56	.37
1N4367	B	400	0.75	20.0	.66	.44
1N4368	B	500	0.75	20.0	.72	.48
1N4369	B	600	0.75	20.0	.90	.60
1N4374	B	1500	0.75	15.0	7.50	5.00
1N4537	E	1500	3	......	8.70	5.80
1N4538	E	2000	3	......	18.75	12.10
1N4540	E	3000	3	......	22.90	15.30

INDUSTRIAL SILICON NPN TRIPLE-DIFFUSED MESA TRANSISTORS

High-voltage, power types. Dissipate 80 watts at 55°C case temp. Welded stud-mount packages. Minimum f_T of 7.5 mc. *Fig. F. †Fig. C.

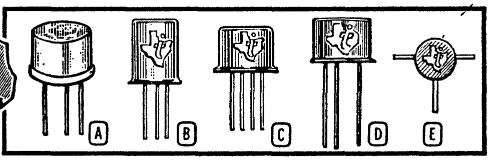
Type TI-	BV_{CBO} (V)	I_C (A)	Max. h_{FE} @ I_C (A)	EACH 1-99	100-999
1121*	200	7.5	120 @ 2	18.00	12.00
1122*	200	7.5	60 @ 2	16.30	10.85
1123*	150	7.5	120 @ 2	14.30	9.55
1124*	150	7.5	60 @ 2	12.70	8.45
1125*	100	7.5	120 @ 2	9.50	6.35
1126*	100	7.5	60 @ 2	8.65	5.75
1131†	200	7.5	120 @ 2	18.15	12.25
1132†	200	7.5	60 @ 2	16.65	11.10
1133†	150	7.5	120 @ 2	14.70	9.80
1134†	150	7.5	60 @ 2	13.05	8.70
1135†	100	7.5	120 @ 2	9.90	6.60
1136†	100	7.5	60 @ 2	9.00	6.00
1141*	200	7.5	80 @ 5	22.20	14.80
1142*	200	7.5	40 @ 5	20.40	13.60
1143*	150	7.5	80 @ 5	19.95	13.30
1144*	150	10	40 @ 5	17.40	11.60
1145*	100	10	80 @ 5	14.85	9.90
1146*	100	10	40 @ 5	12.75	8.50
1151†	200	7.5	80 @ 5	22.95	15.30
1152†	200	7.5	40 @ 5	21.15	14.10
1153†	150	7.5	80 @ 5	19.70	13.80
1154†	150	7.5	40 @ 5	18.15	12.10
1155†	100	7.5	80 @ 5	15.60	10.40
1156†	100	7.5	40 @ 5	13.50	9.00

[A] DIFFUSED-JUNCTION SILICON RECTIFIERS

For high freq., rectifier uses. 1N3879-83 and 1N3889-93 in DO-4 cases; 1N3874-78 and 1N3884-88 in DO-10 cases; 1N3909-3913 in DO-5 cases. $I_{F(surge)}$, 75A max. @ ½ cycle, 100° C (300A and 160A for DO-5's). V_R at I_O, 1.4 v. Max. I_R at PIV; 1N3874-88, 15 μa; 3889-3913, 25 μa.

Type No.	PIV (V)	I_O (A)	EACH 1-24	25-99	100-999
1N3874	50	6	7.50	7.50	5.00
1N3875	100	6	8.03	8.03	5.35
1N3876	200	6	10.50	10.50	7.00
1N3877	300	6	14.62	14.62	9.75
1N3878	400	6	17.28	17.28	11.50
1N3879	50	6	5.25	5.25	3.50
1N3880	100	6	5.77	5.77	3.85
1N3881	200	6	8.25	8.25	5.50
1N3882	300	6	12.38	12.38	8.25
1N3883	400	6	15.00	15.00	10.00
1N3884	50	12	8.55	8.55	5.70
1N3885	100	12	9.00	9.00	6.00
1N3887	300	12	16.90	16.90	11.25
1N3888	400	12	19.90	19.90	13.25
1N3889	50	12	6.30	6.30	4.20
1N3890	100	12	6.75	6.75	4.50
1N3891	200	12	7.75	7.75	6.50
1N3892	300	12	14.65	14.65	9.75
1N3893	400	12	17.60	17.60	11.75
1N3909	50	30	30.00	30.00	22.60
1N3910	100	30	41.50	41.50	31.20
1N3911	200	30	51.00	51.00	38.20
1N3912	300	30	57.00	57.00	44.10
1N3913	400	30	64.00	64.00	48.00

Texas Instruments Transistors



HOW TO ORDER

When ordering specify Department Number 49 D 32 then add TI type number or JEDEC type number. Example: 49 D 32 2N1141.

GERMANIUM SMALL-SIGNAL HIGH FREQUENCY AMPLIFIERS

Dissipation specifications are given at 25° C free-air temp. All are PNP. §h_{fe} at I_E. ‡f_{ab}. Fig. A, TO-5; B, TO-58; C, TO-72; D, TO-39. *TO-18 case.

Type No.	Fig.	S	P_t mw	I_c ma	BV_{CBO} V	h_{FE} @ I_c Min	Max	ma	f_T mc	EACH 1-99	100-999
2N1141	D	EM	300	100	35	10	....	10	‡750	4.83	3.22
2N1141A	D	EM	300	100	35	10	....	10	‡750	13.70	9.14
2N1142	D	EM	300	100	30	10	....	10	‡600	4.20	2.80
2N1142A	D	EM	300	100	30	10	....	10	‡600	6.29	4.18
2N1143	D	EM	300	100	25	10	....	10	‡480	3.50	2.33
2N1143A	D	EM	300	100	25	10	....	10	‡480	5.86	3.91
2N1195	D	EM	225	40	30	§12	....	10	‡750	3.95	2.63
2N2188	B	AD	125	...	40	40	160	1.5	60	1.28	.85
2N2189	B	AD	125	11	40	60	180	1.5	102	1.64	1.09
2N2190	B	AD	125	...	60	40	160	1.5	60	1.47	.98
2N2191	B	AD	125	...	60	60	180	1.5	102	1.85	1.23
2N2416	C	EM	75	20	15	8	200	2	400	3.50	2.25
2N2996	C	EM	75	50	15	25	500	4	400	1.48	.99
2N2997	C	EM	75	50	30	40	500	4	400	3.38	2.25
2N2998	C	EM	75	20	15	15	300	3	600	52.50	35.00
2N2999	C	EM	75	20	15	10	....	3	1400	75.00	50.00
2N3267	C	EP	75	20	15	....	....	...	900	35.00	23.20
2N3371	*	EM	150	100	25	20	300	12	400	5.43	3.62
2N3995	*	EM	300	100	20	40	200	2	600	8.85	5.95
TIXM101	C	EP	75	50	15	....	....	....	1500	19.00	12.65

[A] HIGH-VOLTAGE GERMANIUM SWITCHING TRANSISTORS

Germanium alloy transistors for direct control of neon indicators. Have TO-5 cases.

Type No.	S	P_t mw	I_c ma	BV_{CBO} V	h_{FE} @ I_c Min	ma	f_{hfb} mc	EACH 1-99	100-999
2N398	PNP	50	100	105	20	5	.8	1.24	.83
2N398A	PNP	150	200	105	20	5	.8	1.24	.83
2N1310	NPN	120	300	90	20	5	2.4	4.50	3.00
2N1311	NPN	120	300	75	15	5	2.2	3.23	2.15
2N1312	NPN	120	300	50	20	5	2.6	1.77	1.18

GERMANIUM SMALL-SIGNAL HIGH-SPEED SWITCHING TRANSISTORS

Type No.	Fig.	S	P_t (mw)	BV_{CBO} (V)	I_c (ma)	I_{CBO} @ V_{CB} (μa	@ V)	h_{FE} Min.	f_T mc	EACH 1-99	100-999
2N705	B	M	150	15	50	3	5	25	300	1.04	.69
2N710	B	M	150	15	50	3	5	25	300	1.34	.89
2N711	B	M	150	12	100	3	5	20	300	.89	.59
2N711A	B	M	150	15	100	1.5	5	25	300	.89	.59
2N711B	B	M	150	18		1.5	10	30	300	.94	.63
2N797	B	•M	150	20	150	1	10	40	1000	4.27	2.85
2N960	B	EM	150	15	150	3	6	20	300	.96	.64
2N961	B	EM	150	12	150	3	6	20	300	.91	.61
2N962	B	EM	150	12	150	3	6	20	300	.86	.57
2N963	B	EM	150	12	150	5	6	20	250	.83	.55
2N964	B	EM	150	15	150	3	6	40	300	.99	.66
2N965	B	EM	150	12	150	3	6	40	300	.94	.63
2N966	B	EM	150	12	150	3	6	40	300	.89	.59
2N967	B	EM	150	12	150	5	6	40	250	.87	.58
2N968	B	EM	150	15	150	3	6	20	300	.90	.60
2N969	B	EM	150	12	150	3	6	20	300	.84	.56
2N970	B	EM	150	12	150	3	6	20	300	.81	.54
2N971	B	EM	150	7	150	10	6	20	300	.80	.53
2N972	B	EM	150	15	150	3	6	20	300	.93	.62
2N973	B	EM	150	12	150	3	6	20	300	.89	.59
2N974	B	EM	150	12	150	3	6	20	300	.83	.55
2N975	B	EM	150	7	150	10	6	20	300	.81	.54
2N985	B	EM	150	15	200	3	5	60	300	2.83	1.89
2N2635	B	EM	150	30	....	3	25	45	280	.94	.63

EXPLANATION OF SYMBOLS IN TABLES BELOW

S structure. • NPN, all others are PNP. EM, epitaxial mesa. AD, all diffused. M, mesa. P_t, total power dissipation. I_c collector current. I_{CBO}, collector current, base open. BV_{CBO}, breakdown voltage collector-base, open input. V_{CB}, collector-base voltage. h_{FE}, DC current gain. h_{fe} small signal current gain. f_T frequency at which h_{fe} is unity. f_{hfb}, common base alpha cutoff frequency, NF, spot noise figure.

[A] GERMANIUM BIDIRECTIONAL SMALL-SIGNAL NPN SWITCHING TRANSISTORS

TO-5 Case. All are alloy type. All have P_t=150 mw and I_c=300 ma. h_{FE} test conditions: for 2N594, 2N595 and 2N596, V_{CE}= +0.2 v., I_c= +1 ma; for 2N1994, 2N1995 and 2N1996, V_{CE}= +1 v., I_c= +10 ma. Characteristics measured at 25°C free air temperature.

Type No.	BV_{CBO} (v)	I_{CBO} (μa)	h_{FE}	f_{hfb} (mc)	EACH 1-99	100-999
2N594	20	5	20	1.5	2.75	1.83
2N595	20	5	35	3	4.25	2.83
2N596	20	5	50	5	5.65	3.77
2N1994	30	6	15	3	2.32	1.55
2N1995	25	6	25	5	3.75	2.50
2N1996	20	6	35	8	5.14	3.43

[A] GERMANIUM SMALL SIGNAL GENERAL-PURPOSE SWITCHING AND AMPLIFIER TRANSISTORS

Dissipation at 25° C free air. Germanium alloy PNP transistors, except •NPN. +Positive voltage, others negative.

Type No.	P_t mw	BV_{CBO} V	I_c ma	I_{CBO} @ V_{CB} μa	@ V	h_{FE} Min.	f_{hfb} mc	EACH 1-99	100-999
TIA01	150	50	1	5	25	100	4	.47	.31
TIA02	150	40	1	5	25	120	4	.50	.33
TIA03	150	25	1	5	20	45	....	.35	.23
TIA04	150	25	1	5	20	100	....	.36	.24
TIA05	150	20	1	7	20	30	....	.32	.21
2N388•	150	+25	200	5	+1	60	15	.60	.40
2N388A•	150	+40	200	5	+1	60	16	1.03	.69
2N395	150	30	250	6	15	20	3	.50	.33
2N396	150	30	250	6	20	30	5	.61	.41
2N397	150	30	250	6	15	40	10	1.11	.74
2N404	150	25	100	5	12	30	12	.46	.31
2N404A	150	40	150	5	12	30	12	.66	.44
2N426	150	30	400	4	1.5	30	30	.72	.48
2N427	150	30	400	4	1.5	40	10	.92	.61
2N428	150	30	400	4	1.5	60	10	1.23	.82
2N650A	200	45	500	3	30	33	5	1.69	1.13
2N651A	200	45	500	3	30	45	6	1.69	1.13
2N652A	200	45	500	3	30	80	8	2.25	1.50
2N658	170	30	1000	6	12	15	9	1.28	.85
2N659	170	30	1000	6	12	25	10	1.30	.87
2N660	250	25	1000	1.5	25	40	15	1.48	.99
2N661	250	25	1000	1.5	25	55	22	1.71	1.14
2N662	250	25	1000	1.5	25	18	10	1.40	.93
2N1273	150	15	150	14	12	30	.....	.42	.28
2N1274	150	25	150	14	20	30	.....	.50	.33
2N1302•	150	+25	300	6	+25	20	3	.50	.33
2N1303	150	30	300	6	25	20	3	.50	.33
2N1304•	150	+25	300	6	+25	40	5	.60	.40
2N1305	150	30	300	6	25	40	5	.60	.40
2N1306•	150	+25	300	6	+25	60	10	.80	.53
2N1307	150	30	300	6	25	60	10	.80	.53
2N1308•	150	+25	300	6	+25	80	15	1.08	.72
2N1309	150	30	300	6	25	80	15	1.07	.72
2N1372	250	25	200	7	20	30	5.5	.81	.54
2N1373	250	45	200	7	20	30	5.5	1.20	.80
2N1374	250	25	200	7	20	50	7	1.02	.68
2N1375	250	45	200	7	20	50	7	1.38	.92
2N1376	250	25	200	7	20	75	10	1.29	.86
2N1377	250	45	200	7	20	75	10	1.50	1.00
2N1378	250	12	200	7	12	95	13	1.29	.86
2N1379	250	25	200	7	20	95	13	1.44	.96
2N1380	250	12	200	14	12	30	7	.66	.44
2N1381	250	25	200	14	20	30	7	.72	.48
2N1382	200	25	200	14	20	50	7	.99	.66
2N1383	200	25	200	14	20	50	5	.92	.61
2N1404	150	25	300	5	15	.....	4	.58	.39
2N1605•	150	+25	100	5	+12	40	12	.72	.48
2N1808•	150	+25	300	5	+15	.....	4	.58	.39
2N1997	250	45	500	6	15	40	4	1.77	1.18
2N1998	250	35	500	6	15	50	7	1.88	1.25
2N1999	250	30	500	6	15	75	12	2.07	1.38
2N2000	300	50	1000	10	30	50	.....	2.50	1.67
2N2001	300	30	1000	6	15	60	.....	2.17	1.45

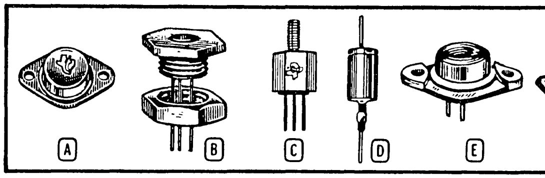
UHF TRAVELING-WAVE TUBE REPLACEMENT

Mfr's Type	Fig.	P_t mw	I_c ma	BV_{CBO} V	h_{fe} @ I_c Min.	Max.	ma	EACH 1-99	100-999
TIXM103	E	40	20	12	10	250	2	82.50	55.00
TIXM104	E	40	20	12	10	250	2	52.50	35.00

Texas Instruments Transistors and Zeners

EXPLANATION OF COLUMN HEADINGS

BV_{CBO}, collector-base breakdown voltage. B_{VR}, reverse breakdown voltage. f_t, frequency at which beta is one. h_{FE}, DC current gain. I_C, collector current. I_F, forward curr. I_R, reverse curr. I_Z, zener curr. I_{ZT}, zener test curr. P_c, power diss. at 25°C case. $V_{CE(sat)}$, collector-to-emitter saturation voltage. V_R, reverse voltage. V_Z, zener voltage. Z_Z, zener dynamic impedance.



[A] GERMANIUM POWER TRANSISTORS

All are PNP alloy-junction types.

Type No.	Pc (W)	Ic (A)	hFE @ Ic Min.-Max.	VCE(sat) (V)	BVCBO (V)	EACH 1-99	EACH 100-999
2N250	25	3	25-100 @ 3A	0.7	40	1.90	1.25
2N250A	90	7	25-100 @ 3A	0.7	40	1.90	1.15
2N251	25	3	25-100 @ 3A	0.7	60	2.25	1.50
2N251A	90	7	25-100 @ 3A	0.7	60	2.25	1.25
2N456A	150	7	30-90 @ 5A	0.3	40	1.80	1.20
2N456B	150	7	30-90 @ 5A	0.3	40	1.80	1.20
2N457A	150	7	30-90 @ 5A	0.3	60	2.65	1.45
2N457B	150	7	30-90 @ 5A	0.3	60	2.65	1.45
2N458A	150	7	30-90 @ 5A	0.3	80	2.80	1.75
2N458B	150	7	30-90 @ 5A	0.3	80	2.80	1.75
2N1021	150	7	30-90 @ 5A	0.3	100	3.55	2.05
2N1021A	150	7	30-90 @ 5A	0.3	100	3.55	2.05
2N1022	150	7	30-90 @ 5A	0.3	120	4.15	2.40
2N1022A	150	7	30-90 @ 5A	0.3	120	4.15	2.40
2N1539	150	5	50-100 @ 3A	0.3	40	1.60	1.05
2N1540	150	5	50-100 @ 3A	0.3	60	1.80	1.20
2N1541	150	5	50-100 @ 3A	0.3	80	2.85	1.90
2N1542	150	5	50-100 @ 3A	0.3	100	3.50	2.35
2N1543	150	5	50-100 @ 3A	0.3	120	5.75	3.15

GERMANIUM MEDIUM-POWER TRANSISTORS

All are PNP alloy-junction types.

Type No.	Fig. or Desc.	Pc (W)	Ic (A)	hFE @ Ic Min.-Max.	VCE(sat) (V)	BVCBO (V)	EACH 1-99	EACH 100-999
2N1038	Round	20	3	20-60 @ 1A	0.25	40	2.85	1.90
2N1039	Round	20	3	20-60 @ 1A	0.25	60	3.75	2.50
2N1040	B	20	3	20-60 @ 1A	0.25	80	5.70	3.80
2N1041	B	20	3	20-60 @ 1A	0.25	100	7.50	5.00
2N1042	B	20	3	20-60 @ 3A	0.75	40	4.50	3.00
2N1043	B	20	3	20-60 @ 3A	0.75	60	5.85	3.90
2N1044	B	20	3	20-60 @ 3A	0.75	80	8.80	5.85
2N1045	B	20	3	20-60 @ 3A	0.75	100	11.45	7.65
2N2552	C	20	3	20-60 @ 1A	0.25	40	3.00	2.00
2N2553	C	20	3	20-60 @ 1A	0.25	60	3.90	2.60
2N2554	C	20	3	20-60 @ 1A	0.25	80	5.85	3.90
2N2555	C	20	3	20-60 @ 1A	0.25	100	9.15	6.10
2N2556	B	20	3	20-60 @ 1A	0.25	40	3.05	2.05
2N2557	B	20	3	20-60 @ 1A	0.25	60	3.95	2.65
2N2558	B	20	3	20-60 @ 1A	....	80	5.90	3.95
2N2559	B	20	3	20-60 @ 1A	....	100	9.20	6.15
2N2560	C	20	3	20-60 @ 3A	0.75	40	4.45	3.95
2N2561	C	20	3	20-60 @ 3A	0.75	60	5.80	3.85
2N2562	C	20	3	20-60 @ 3A	0.75	80	8.70	5.80
2N2563	C	20	3	20-60 @ 3A	0.75	100	11.40	7.60
2N2564	B	20	3	20-60 @ 3A	0.75	40	4.30	2.85
2N2565	B	20	3	20-60 @ 3A	0.75	60	5.65	3.75
2N2566	B	20	3	20-60 @ 3A	....	80	8.55	5.70
2N2567	B	20	3	20-60 @ 3A	....	100	11.25	7.50
2N2659	Round	15	3	30-90 @ ½A	0.2	50	1.80	1.20
2N2660	Round	15	3	30-90 @ ½A	0.2	70	2.35	1.55
2N2661	Round	15	3	30-90 @ ½A	0.2	90	2.85	1.90
2N2662	C	15	3	30-90 @ ½A	0.2	30	1.95	1.30
2N2663	C	15	3	30-90 @ ½A	0.2	40	2.50	1.65
2N2664	C	15	3	30-90 @ ½A	0.2	50	3.00	2.00
2N2665	Round	15	3	50-150 @ ½A	0.2	50	2.40	1.60
2N2666	Round	15	3	50-150 @ ½A	0.2	70	3.10	2.05
2N2667	Round	15	3	50-150 @ ½A	0.2	90	3.75	2.50
2N2668	C	15	3	50-150 @ ½A	0.2	50	2.55	1.70
2N2669	C	15	3	50-150 @ ½A	0.2	70	3.25	2.15
2N2670	C	15	3	50-150 @ ½A	0.2	90	3.90	2.60

[A] ECONOMY GERMANIUM POWER TRANSISTORS

Germanium alloy PNP transistors. Dissipation at 25° case temp., 150 watts. TO-3 case.

Type No.	Ic A	BVCBO V	hFE @ Ic Min	Max	A	VCE (sat) V	EACH 1-99	EACH 100-999
TI3027	7	45	40	250	3	0.5	1.35	.80
TI3028	7	60	40	250	3	0.5	1.45	.95
TI3029	7	80	40	250	3	0.5	1.65	1.10
TI3030	7	100	40	250	3	0.5	1.90	1.25
TI3031	7	120	40	250	3	0.5	2.05	1.35

[A] GERMANIUM HIGH-VOLTAGE HIGH-POWER TRANSISTORS

Both units listed are PNP alloy-junction types and are supplied in TO-3 case.

Type No.	Pc (W)	Ic (A)	hFE @ Ic Min.-Max.	VCE(sat) (V)	BVCBO (V)	EACH 1-99	EACH 100-999
2N3146	150	15	30-90 @ 5A	0.4	150	4.60	3.50
2N3147	150	15	30-90 @ 5A	0.4	180	5.65	3.75

[A] GERMANIUM HIGH-SPEED HIGH-FREQUENCY POWER TRANSISTORS

PNP alloy-diffused types supplied in TO-3 case.

Type No.	Fig.	Pc (W)	Ic (A)	Min. hFE @ Ic	BVCBO (V)	ft (mc)	EACH 1-99	EACH 100-999
2N1046	A	50 @ 75°C	12	60 @ 5A	100	10	8.25	5.50
2N1907	A	60 @ 70°C	20	20 @ 15A	100	10	7.90	5.25
2N1908	A	60 @ 70°C	20	20 @ 15A	300	10	11.30	7.50

[D] 1-WATT DIFFUSED SILICON ZENER REGULATORS

Have flangeless case. *Maximum.

Type No.	Vz (V)	IzT (ma)	Zz (Ohms)	*Iz (ma)	Iz Surge (ma)	EACH 1-24	EACH 25-99
1N3016	6.8	37	3.5	100	740		
1N3017	7.5	34	4.0	90	680		
1N3018	8.2	31	4.5	80	600		
1N3019	9.1	28	5.0	70	540		
1N3020	10	25	7.0	65	480	Add Suffix "A" to type No. for 10% tolerance; Suffix "B" for 5% tolerance. No Suffix indicates a normal 20% tolerance.	
1N3021	11	23	8.0	55	420		
1N3022	12	21	9.0	53	400		
1N3023	13	19	10.0	50	370		
1N3024	15	17	14.0	42	320		
1N3025	16	15.5	16.0	40	300		
1N3026	18	14.0	20.0	35	260		
1N3027	20	12.5	22.0	32	240		
1N3028	22	11.5	23.0	29	210		
1N3029	24	10.5	25.0	26	200		
1N3030	27	9.5	35.0	23	170		
1N3031	30	8.5	40.0	21	160	No Suffix 20%	
1N3032	33	7.5	45.0	20	150	2.70	2.45
1N3033	36	7.0	50.0	18	130		
1N3034	39	6.5	60.0	15	110	"A" Suffix 10%	
1N3035	43	6.0	70.0	14	100	3.00	2.75
1N3036	47	5.5	80.0	13	95		
1N3037	51	5.0	95.0	12.2	90	"B" Suffix 5%	
1N3038	56	4.5	110.0	11.0	85	3.55	3.20
1N3039	62	4.0	125.0	10.0	75		
1N3040	68	3.7	150.0	9.0	70		
1N3041	75	3.3	175.0	8.5	63		
1N3042	82	3.0	200.0	7.5	58		
1N3043	91	2.8	250.0	7.0	50		
1N3044	100	2.5	350.0	6.0	45		
1N3045	110	2.3	450.0	5.4	42	No Suffix 20%	
1N3046	120	2.0	550.0	5.2	40	2.75	2.55
1N3047	130	1.9	700.0	4.5	35		
1N3048	150	1.7	1000.0	3.7	29	"A" Suffix 10%	
						3.05	2.80
1N3049	160	1.6	1100.0	3.6	27		
1N3050	180	1.4	1200.0	3.4	25	"B" Suffix 5%	
1N3051	200	1.2	1500.0	3.0	23	4.35	4.05

[E] GERMANIUM HIGH-POWER TRANSISTORS

All are PNP alloy-junction types.

Type No.	Pc (W)	Ic (A)	hFE @ Ic Min.-Max.	VCE(sat) (V)	BVCBO (V)	EACH 1-99	EACH 100-999
2N511	150	25	20-60 @ 10A	0.5	40	4.05	2.70
2N511A	150	25	20-60 @ 10A	0.5	60	4.75	3.15
2N511B	150	25	20-60 @ 10A	0.5	80	5.20	3.45
2N512	150	25	20-60 @ 15A	1.0	40	4.75	3.15
2N512A	150	25	20-60 @ 15A	1.0	60	5.40	3.60
2N512B	150	25	20-60 @ 15A	1.0	80	7.10	4.75
2N513	150	25	20-60 @ 20A	1.5	40	6.00	4.00
2N513A	150	25	20-60 @ 20A	1.5	60	6.65	4.45
2N513B	150	25	20-60 @ 20A	1.5	80	8.70	5.80
2N514	150	25	20-60 @ 25A	2.0	40	8.25	5.50
2N514A	150	25	20-60 @ 25A	2.0	60	8.40	5.60
2N514B	150	25	20-60 @ 25A	2.0	80	12.00	8.00

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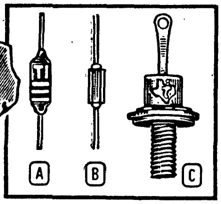


[C] 10-WATT DIFFUSED SILICON ZENER REGULATORS

10-32 stud mtg. Add suffix A to type no. for 10%, suffix "B" for 5% tolerance. No suffix, 20%. Iz is maximum ma.

Type No.	Vz (V)	Izt (ma)	Zz (Ω)	*Iz (ma)	EACH 1-24	EACH 25-99
1N2970	6.8	370	1.2	1500		
1N2971	7.5	335	1.3	1350		
1N2972	8.2	305	1.5	1180		
1N2973	9.1	275	2.0	1100		
1N2974	10	250	3.0	980		
1N2975	11	230	3.0	890		
1N2976	12	210	3.0	820		
1N2977	13	190	3.0	750		
1N2978	14	180	3.0	690		
1N2979	15	170	3.0	640		
1N2980	17	155	4.0	605		
1N2981	17	145	4.0	560		
1N2982	18	140	4.0	525		
1N2983	19	130	4.0	500		
1N2984	20	125	4.0	480		
1N2985	22	115	5.0	435		
1N2986	24	105	5	400	No Suffix 20% 5.10	4.70
1N2988	27	95	7	340		
1N2989	30	85	8	320		
1N2990	33	75	9	300	"A" Suffix 10% 5.50	5.10
1N2991	36	70	10	260		
1N2992	39	65	11	240		
1N2993	43	60	12	220		
1N2994	45	55	13	210	"B" Suffix 5% 6.90	6.30
1N2995	47	55	14	200		
1N2997	51	50	15	185		
1N2998	52	50	15	190		
1N2999	56	45	16	170		
1N3000	62	40	17	150		
1N3001	68	37	18	137		
1N3002	75	33	22	125		
1N3003	82	30	25	115		
1N3004	91	28	35	97		
1N3005	100	25	40	91		
1N3007	110	23	55	82		
1N3008	120	20	75	77		
1N3009	130	19	100	71		
1N3010	140	18	125	66		
1N3011	150	17	175	62		

[C] 10-WATT ANODE DIFFUSED SILICON POWER ZENERS

Top-hat design units have 10-32 mtg. stud.

Type No.	Vz (V)	Izt (ma)	Zz (Ω)	I§ (μa) @ v	EACH 1-24	EACH 25-99
1N1816	13	500	2	25 @ 5	5.60	5.10
1N1817	15	500	2	15 @ 5	5.60	5.10
1N1818	16	500	3	10 @ 5	5.60	5.10
1N1819	18	500	3	10 @ 5	5.60	5.10
1N1820	20	250	3	10 @ 10	5.60	5.10
1N1821	22	250	3	10 @ 10	5.60	5.10
1N1822	24	250	3	10 @ 10	5.60	5.10
1N1823	27	250	3	10 @ 10	5.60	5.10
1N1824	30	250	4	10 @ 10	5.60	5.10
1N1825	33	150	4	10 @ 10	5.60	5.10
1N1826	36	150	5	10 @ 10	5.60	5.10
1N1827	39	150	5	10 @ 10	5.60	5.10
1N1828	43	150	6	10 @ 10	5.60	5.10
1N1829	47	150	7	10 @ 10	5.60	5.10
1N1830	51	150	8	10 @ 10	5.60	5.10
1N1831	56	150	9	10 @ 10	5.60	5.10
1N1832	62	50	12	10 @ 10	5.60	5.10
1N1833	68	50	14	10 @ 10	5.60	5.10
1N1834	75	50	20	10 @ 10	5.60	5.10
1N1835	82	50	22	10 @ 10	5.60	5.10
1N1836	91	50	35	10 @ 10	5.60	5.10

[C] 10-WATT DOUBLE-ANODE DIFFUSED SILICON POWER ZENERS (Cont'd)

Type No.	Vz (V)	Izt (ma)	Zz (Ω)	I§ (μa) @ V	EACH 1-24	EACH 25-99
1N2008	100	50	40	10 @ 10	5.60	5.10
1N2009	110	50	47	10 @ 10	5.60	5.10
1N2010	120	50	56	10 @ 10	5.60	5.10
1N2011	130	50	65	10 @ 10	5.60	5.10

[B] GENERAL-PURPOSE SILICON DIODES UNI-G DOUBLE PLUG CASE

Type No.	Max. VR (V)	BVR (V)	If (ma)	Pc (mw)	EACH 1-99	EACH 100-999
1N463	175	200	1	200	.46	.36
1N464	125	150	3	200	.45	.35
1N482B	30	40	100	500	.59	.46
1N484B	125	150	100	500	.71	.55
1N485B	175	200	100	500	.85	.60
1N486B	225	250	100	500	1.25	.98
1N488	380	420	100	500	2.50	1.95
TI-51	10	20	10	400	.39	.30
TI-52	20	30	30	400	.44	.34
TI-53	30	40	50	400	.47	.36
TI-54	40	50	70	400	.57	.44
TI-55	60	80	100	400	.65	.50
TI-56	100	120	150	400	.73	.56
TI-57	150	200	170	400	.81	.62
TI-58	175	220	220	400	.88	.68
TI-59	200	320	300	400	.96	.74
TI-60	300	400	400	400	.99	.76

STABISTORS—SILICON FORWARD-CONDUCTANCE DIODES

Type No.	Max. If (ma)	PIV (V)	Max. VF @ 1 ma	Temp. Coef. @ 1 ma	EACH 1-99	EACH 100-999
G129	250	10	0.56	−2mv/°C	1.30	.85
G130	150	6	0.64	−2mv/°C	1.30	.85

[A] 400-MW VOLTAGE REGULATOR MOLY/G GLASS CASE ZENER DIODES

Moly/G Hard Glass cases measure only 0.300" maximum by 0.125" maximum diameter. Available in your choice of 5% or 10% tolerances—add proper suffix to Type No. to obtain tolerance desired.

Type No.	Vz Volts	Izt (ma)	Zz Ohms	EACH 1-99	EACH 100-999
1N702	3.2	5	60		
1N703	3.0-3.9	5	55		
1N704	3.7-4.5	5	45		
1N705	4.3-5.4	5	35	No Suffix 10% 2.10	1.60
1N706	5.2-6.4	5	20		
1N707	6.2-8.0	5	10		
1N709	6.2	25	4.1		
1N710	6.8	25	4.7		
1N711	7.5	25	5.3	"A" Suffix 5% 2.80	2.10
1N712	8.2	25	6.0		
1N713	9.1	12	7.0		
1N714	10.0	12	8.0		
1N715	11.0	12	9.0		
1N716	12.0	12	10.0		
1N717	13.0	.....	11.0		
1N718	15.0	.....	13.0		
1N719	16.0	.....	15.0	No Suffix 10% 2.35	1.75
1N720	18.0	.....	17.0		
1N721	20.0	.....	20.0		
1N722	22.0	.....	24.0		
1N723	24.0	.....	28.0	"A" Suffix 5% 2.95	2.20
1N724	27.0	.....	35.0		
1N725	30.0	.....	42.0		
1N726	33.0	.....	50.0		
1N746	3.3	20	28		
1N747	3.6	20	20		
1N748	3.9	20	23	No Suffix 10% 1.50	1.10
1N749	4.3	20	27		
....	....	....	....		
1N750	4.7	20	19		
1N751	5.1	20	17	"A" Suffix 5% 2.05	1.51
1N752	5.6	20	11		
1N753	6.2	20	7		
1N754	6.8	20	5		
1N755	7.5	20	6		

[A] 400-MW VOLTAGE REGULATOR ZENER DIODES (Cont'd)

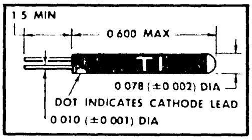
Type No.	Vz Volts	Izt (ma)	Zz Ohms	EACH 1-99	EACH 100-999
1N756	8.2	20	8	Same as 1N746 to 1N755	
1N757	9.1	20	10		
1N758	10.8	20	17		
1N759	12.0	20	30		
1N761	4.3-5.4	10	55		
1N762	5.2-6.4	10	20		
1N763	6.2-8.0	10	8	10% Only 1.90	1.40
1N764	7.5-10.0	10	15		
1N765	9.0-12.0	5	50		
1N766	11.0-14.5	5	70		
1N767	13.5-18	.....	120	10% Only 2.10	1.60
1N768	17-21	.....	200		
1N769	20-27	.....	300		
1N957B	6.8	19	4.5		
1N958B	7.5	17	5.5	"B" Suffix 5% only, 1.70	1.20
1N959B	8.2	15	6.5		
1N960B	9.1	14	7.5		
1N961B	10	13	8.5		
1N962B	11	11.5	9.5		
1N963B	12	10.5	11.5		
1N964B	13	9.5	13		
1N965B	15	8.5	16		
1N966B	16	7.8	17		
1N967B	18	7.0	21	"B" Suffix 5% only, 1.70	1.20
1N968B	20	6.2	25		
1N969B	22	5.6	29		
1N970B	24	5.2	33		
1N971B	27	4.6	41		
1N972B	30	4.2	49		
1N973B	33	3.8	58		
1N974B	36	.....	70		
1N975B	39	.....	80	"B" Suffix 5% only, 2.95	2.20
1N976B	43	.....	93		
1N977B	47	.....	105		
1N978B	51	.....	125		
1N979B	56	.....	150		
1N980B	62	.....	185	"B" Suffix 5% only, 2.95	2.20
1N981B	68	.....	230		
1N982B	75	.....	270		
1N983B	82	.....	330		
1N984B	91	.....	400		
1N3506	3.3	.....	24		
1N3507	3.6	.....	22		
1N3508	3.9	.....	20		
1N3509	4.3	.....	18		
1N3510	4.7	.....	16		
1N3511	5.1	.....	1		
1N3512	5.6	.....	8	No Suffix 5% only, 2.80	2.10
1N3513	6.2	.....	3		
1N3514	6.8	.....	3		
1N3515	7.5	.....	4		
1N3516	8.2	.....	5		
1N3517	9.1	.....	6		
1N3518	10	.....	7		
1N3519	11	.....	8		
1N3520	12	.....	10		
1N3521	13	.....	12		
1N3522	15	.....	14		
1N3523	16	.....	16		
1N3524	18	.....	18		
1N3525	20	.....	20	No Suffix 5% only, 2.95	2.20
1N3526	22	.....	35		
1N3527	24	.....	37		
1N3528	27	.....	40		
1N3529	30	.....	48		
1N3530	33	.....	50		
1N4099	6.8	.....	200		
1N4100	7.5	.....	200		
1N4101	8.2	.....	200		
1N4102	8.7	.....	200	No Suffix 5% only, 5.05	3.80
1N4103	9.1	.....	200		
1N4104	10	.....	200		
1N4105	11	.....	200		
1N4106	12	.....	200		
1N4360	2.28-2.52	.....	60	2.80	2.10
1N4370A	2.4	.....	30	"A" Suffix 5% only, 2.80	2.10
1N4371A	2.7	.....	30		
1N4372A	3.0	.....	30		

For detailed specifications of any Texas Instruments device listed on these pages, write to Allied. Allied maintains large stocks of Texas Instruments Semiconductor devices, ready for same-day shipment in quantity and at OEM prices.

TI Diodes and Light Sensors

NPN PLANAR SILICON LIGHT SENSORS—MICROMINIATURE

LS-400. For character recognition, tape read-out, photo switching, proportional control, differential amplifiers. V_R, 30 v.; BV_F, 8 v. @ 100 μa; BR_R, 50 v. @ 100 μa. See right hand column for explanation of symbols used here. Table below.



LS-600. For high-density matrix and line read-out equipment. Character recognition, tape and card readers, velocity indicators, encoders. $V_{CE(sat)}$, 0.3 v. typ. @ 0.4 ma I_L and 20 mw/cm² H; coll.-emit. v., 50 v.; emit.-coll. v., 7 v. See illus. above for dimensions and leads. LS600 (Fig. A, right), is 60 mil. dia.

Type No.	Min. I_L @ 5 v. (ma)	Max. I_D @ 30 v. (μa)	P_F (mw)	t_r (μsec)	t_f (μsec)	EACH 1-99	EACH 100-999
LS-400	1 @ H=9 mw/cm²	0.025	50	1.5	15	13.50	10.80
LS-600	8 @ H=20 mw/cm²	0.025	50	1.5	15	13.00	9.50

NPN DIFFUSED SILICON PHOTO DUO-DIODE

Have bias voltage ±50 v. maximum. Maximum dark current @ 25°C ±50 v., .5 μa except Type H-38, 10 μa. Light current measured in terms of irradiation. Irradiation =9 mw/cm² in a frequency bandwidth of .7 to 1 micron.

Type No.	Max. Dark Curr. @ 25°C, ±50 v. (μa)	Min. Light Curr. @ 25°C, ±10 v. (μa)	Max. Light Curr. @ 25°C, ±10 v. (μa)	EACH 1-99	EACH 100-999
1N2175	.5	100	...	11.50	8.00
H-11	.5	40	...	4.00	2.80
H-35	.5	60	...	5.00	3.50
H-38	10.	100	...	4.00	2.80
H-60	.5	100	200	8.00	5.60
H-61	.5	200	300	9.00	6.25
H-62	.5	300	400	13.50	10.00

HOW TO ORDER

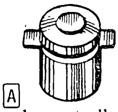
When ordering specify Department Number 49 D 32 then add TI type number or JEDEC type number. Example: 49 D 32 TIXL01.

EXPLANATION OF SYMBOLS

BV_F, forward breakdown v. BV_R, reverse breakdown v. H, irradiance (radiant power per unit area incident upon surface). I_D, dark cur. I_F, forward cur. I_{FD}, forward dark cur. I_L, light cur. I_O, av. rectified cur. I_R, reverse cur. I_{RP}, recurrent peak cur. I_{rr}, reverse recovery cur. P_F, free-air power diss. PIV, peak inverse v. t_f, fall time. t_r, rise time. t_{rr}, reverse recovery time. V_F, fwd. v.

LIGHT SENSITIVE DEVICES

PN PLANAR GALLIUM ARSENIDE DIODE LIGHT SOURCE



A

TIXL01. Emits near infra-red light when forward biased, spectrally matched to silicon sensors. For applications in character recognition, tape and card readers, encoders, etc. At I_F=50 ma., radiant power into 90° cone is 50 μw, min., with V_F=1.3 v. Operating case temperature range —65° to +125°C. Very narrow light beam, only ±20° angle from optical axis. Similar to Fig. A. Design permits matrix assembly directly into PC boards. Approx. size, 0.12″ long x 0.092″ dia.

TIXL01. 1-99........Each 26.00 100-999.........Each 19.00

TIXL02. Improved version of SNX100.

TIXL02. 1-99.........Each 49.50 100-199.........Each 38.00

A PNPN PLANAR-ALLOY SILICON LIGHT-EXCITED SWITCH

LSX-515. Microsensor for same uses as Type LSX-600, left. P_F, 50 mw max.; V_{FDC}, 60 v. max.; V_{RDC}, 7 v. max.; I_{FD}, 1 μa max. @ 10 v.; H_T, 5 min. and 17.5 max. mw/cm²; V_F, 1.5 v. max. @ 100 ma. Approx. size, .062x.092″.

LSX-515. 1-99.........Each 14.95 100-999......... Each 11.30

SILICON VOLTAGE-VARIABLE CAPACITANCE DIODES

For tuning and harmonic generation applications in telemetry, communications. Dissipation at 25° C free air, 250 mw. Hard glass, hermetically-sealed diode package. 15% capacitance tol. *Min.-Max.

Mfr's Type	PIV V	C_T pf	Min. Q	EACH 1-99	EACH 100-999
A580	35	22	60	7.00	5.25
A581	60	22	100	11.00	7.50
A582	35	27	60	7.00	5.25
A583	60	27	100	13.00	10.00
A584	35	33	60	7.00	5.25
A585	60	33	100	15.00	12.50
A586	35	39	60	8.00	6.25
A587	60	39	100	13.00	10.00
A588	35	47	60	10.00	7.25
A589	60	47	100	17.00	13.00
TIV300	15	*5-10	200	1.00	.80
TIV301	15	*9-17	120	1.00	.80
TIV302	15	*15-25	120	1.25	1.00
TIV303	15	*23-43	120	1.25	1.00

C EPITAXIAL PLANAR DIODE ARRAYS

Silicon arrays in hermetically sealed pkg. JEDEC TO-89 outline. Goldplated F-15 leads. All, 8-diodes, except *16. †Com. cathode; ‡com. anode; §nsec; #total unit output. **For larger quantities, write for prices.

Type No.	V_R (v)	I_F (ma)	#MA	§t_{fr}	§t_{rr}	**EACH 1-9	**EACH 10-99
TIXD21†	30	100	200	40	25	25.00	16.80
TIXD22†	15	100	200	40	25	22.50	15.00
TIXD23‡	30	100	200	40	25	25.00	16.80
TIXD24‡	15	100	200	40	25	22.50	15.00
TIXD25*	30	100	200	40	25	59.00	36.00
TIXD26*	15	100	200	40	25	46.50	31.00

TEMPERATURE-COMPENSATED ALLOY SILICON VOLTAGE REGULATOR DIODES

Mounted in a ceramic oven for relatively constant diode junction temperatures.

Type No.	V_Z ±5%	Z_Z Max. Ohms)	I_R (μa)	I_{RI} (ma)	V_{RI} (v)	EACH 1-99	EACH 100-999
TIXD746	3.3	28	30	40	1	3.20	2.70
TIXD753	6.2	7	50	22	4	3.20	2.70
TIXD754	6.8	5	50	20	5	3.20	2.70
TIXD757	9.1	10	50	15	7	3.20	2.70
TIXD759	12	30	50	12	9	3.20	2.70

RADIATION-TOLERANT HIGH-VOLTAGE DIODES

Diffused mesa silicon. Whiskerless Uni/G pkg. I_R, 0.1 μa max. at rated V_R; V_F, 1 v. max. at 100 ma; t_{rr}, 0.7 μsec max.

Type No.	Max. VR (V)	5x10¹⁶ e/cm² Rad. Min. BV_R	Max. I_R	Max. V_F	EACH 1-99	EACH 100-999
TI-550	175	200	0.1 ua	1	8.60	6.50
TI-551	225	290	0.1 ua	1	9.60	7.50

HIGH-CONDUCTANCE 600-MW DIFFUSED SILICON DIODES

Type No.	Fig.	Max. V_R (V)	BV_R (V)	Min. I_F (ma)	EACH 1-99	EACH 100-999
1N645	B	225	275	400	1.40	.85
1N645A	B	225	275	400	1.65	1.10
1N646	B	300	360	400	1.65	1.10
1N647	B	400	480	400	1.80	1.20
1N648	B	500	600	400	1.95	1.30
1N649	B	600	720	400	2.50	1.65

SHOTTKY BARRIER UHF MIXER DIODE

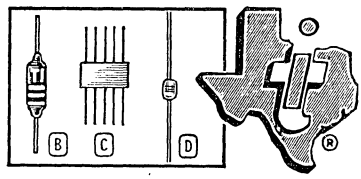
Low noise, high reliability silicon planar diode in hermetically sealed glass case. $V_{(BR)}$ @ 10μa, 8v. typ; I_R @ 3v., 0.1 μa; V_F @ 10 ma, 0.65 max. v.; C_T, 1 pf max; NF, 8 db.

TIV305..1-99 EA. 3.25 100-999..EA. 1.75

HIGH-CONDUCTANCE SWITCHING DIODES

Extremely stable and reliable high speed diodes encased in glass pkg. Fig. D.

Type No.	Io (ma)	$V_{(BR)}$ (v)	V_F 1v@ (ma)	t_{rr} nsec	EACH 1-99	EACH 100-999
TID31	150	75	200	6	3.40	2.28
TID32	150	100	200	10	3.00	1.95
TID33	150	75	200	10	2.81	1.76
TID34	150	100	150	10	2.63	1.58
TID35	150	75	150	10	2.44	1.49
TID36	150	100	100	10	1.76	1.35
TID37	150	75	100	6	1.76	1.35
TID40	....	250	50	30	1.67	1.45
TID41	.....	200	100	30	1.58	1.39
TID42	.....	150	100	30	1.65	1.45
TID43	.....	150	150	30	1.83	1.61
TID44	....	100	200	30	1.92	1.69



OPTOELECTRONIC ISOLATOR

Combines silicon planar light sensor with gallium arsenide light source in a single epoxy pkg. Isolation to 5000 volts. Input current: 50 ma; output: 250 μa min., 500 μa typ. High-speed switching; t_r, 1.5 μsec, t_f, 15 μsec typ. Good temp. stability.

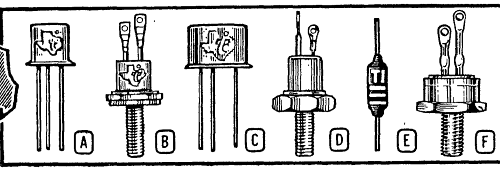
TIXL101..1-99 EA. 42.00 100-999 EA.34.00

D SILICON COMPUTER DIODES

Glass case. Uni/G pack. †Jan. 256 (30 ma I_F switched to 35 v. VR recov. to 400K); *JAN 256 (5 ma to 40 v. recov. to 200K); §Same, to 100K. ††JAN 256 (5 ma to 10 v. recov. to 24K). #EGG 2236A (10 ma to 6 v. recov. to 1 ma rev.).

Type No.	PIV (V)	t_{rr} (μsec)	Max. I_R(μa)	EACH 1-99	EACH 100-999
1N251	30	0.15††	0.1	.65	.43
1N625	20	1†	1	.43	.29
1N626	35	1†	1	.43	.30
1N627	75	1†	1	.72	.47
1N628	125	1†	1	.72	.47
1N629	175	1†	1	.86	.55
1N643	175	0.3*	1	1.33	1.00
1N658	50	0.3*	1	1.75	1.20
1N659	50	0.3†	5	.58	.39
1N660	100	0.3†	5	.69	.46
1N661	200	0.3†	10	1.75	1.30
1N662	80	0.5§	20	.66	.44
1N663	80	0.5*	5	1.20	.80
1N914	75	0.004#	5	.45	.30
1N914A	75	0.004#	0.025	.50	.33
1N914B	75	0.004#	0.025	1.35	.90
1N915	50	0.010	0.025	.95	.60
1N916	75	0.004#	5	.67	.44
1N916A	75	0.004#	0.025	.75	.50
1N916B	75	0.004#	0.025	.92	.61
1N917	30	0.003	0.05	2.05	1.37
1N3064	50	0.004	0.1	.67	.44
1N3070	175	5	0.5	5.25	3.50

Texas Instruments Rectifiers and Switches



As New Semiconductors Are Released Allied Will Stock Them. Contact the Allied Facility Nearest You

EXPLANATION OF COL. HEADINGS

V_{RDC}, continuous rev. blocking v. V_F, fwd. v. V_R, reverse v. I_o, av. rect. cur. I_{sur}, surge cur. PIV, peak inverse v. BV_F, fwd. breakdown v. I_{RP}, recurrent peak cur. I_A, cont. anode fwd. cur. I_{GO}, gate turn-off cur. I_{GT}, gate trigger cur. I_H, holding current. V_{FB}, forward blocking voltage.

HOW TO ORDER

When ordering specify Department Number 49 D 32, then add TI type number or JEDEC type number. Example: 49 D 32 2N3001.

HIGHLY SENSITIVE PLANAR SILICON PNP CONTROLLED RECTIFIERS

All are planar, oxide passivated junctions; no solder or fluxes. Anode is in electrical contact with case. 250 ma except *1 amp up to 100° C. I_{GT}, 20 μa except †200 μa. JEDEC TO-18 except *TO-5. Typical characteristics: gate trigger voltage, 0.6v.; forward voltage, 1.4 v.

Type No.	Fig.	V_{FB} (V)	V_R (V)	V_F (V)	Peak V_{RDC} (V)	EACH 1-99	EACH 100-999
2N876	†A	15	15	15	15	7.20	5.40
2N877	†A	30	30	30	30	10.00	6.70
2N878	†A	60	60	60	60	13.00	8.90
2N879	†A	100	100	100	100	17.77	11.85
2N880	†A	150	150	150	150	28.25	18.90
2N881	†A	200	200	200	200	30.00	20.00
2N884	A	15	15	15	15	9.00	6.00
2N885	A	30	30	30	30	11.25	7.50
2N886	A	60	60	60	60	14.70	9.80
2N887	A	100	100	100	100	21.60	14.40
2N888	A	150	150	150	150	33.00	22.00
2N889	A	200	200	200	200	36.00	24.00
2N3001	A	30	30	30	30	7.45	4.95
2N3002	A	60	60	60	60	8.95	5.95
2N3003	A	100	100	100	100	11.20	7.45
2N3004	A	200	200	200	200	14.20	9.45
2N3005	†A	30	30	30	30	5.75	3.83
2N3006	†A	60	60	60	60	6.15	4.10
2N3007	†A	100	100	100	100	8.60	5.75
2N3008	†A	200	200	200	200	9.50	6.33
2N3555	†*C	30	30	30	30	7.45	4.95
2N3556	†*C	60	60	60	60	8.95	5.95
2N3557	†*C	100	100	100	100	11.20	7.45
2N3558	†*C	200	200	200	200	14.20	9.45
2N3559	†*C	30	30	30	30	5.75	3.83
2N3560	†*C	60	60	60	60	6.15	4.10
2N3561	†*C	100	100	100	100	8.60	5.75
2N3562	†*C	200	200	200	200	9.50	6.33

ALL-DIFFUSED SILICON CONTROLLED RECTIFIERS

*In table below, asterisk indicates 8 micro-second pulse; duty cycle not to exceed .01. ** at 55°C

Type No.	Fig.	I_o (A)	I_H @ 25°C (ma)	I_{sur} (A)	PIV (V)	BV_F(V) @ 125°C	I_{GT}(ma) @ 25°C Min.	I_{GT}(ma) @ 25°C Max.	EACH 1-99	EACH 100-999
TI-40A0	B	5	25	75	50	60	1	60	1.70	1.18
TI-40A1	B	5	25	75	100	120	1	50	1.85	1.28
TI-40A2	B	5	25	75	200	240	1	50	2.05	1.52
TI-40A3	B	5	25	75	300	360	1	50	3.65	2.45
TI-40A4	B	5	25	75	400	480	1	50	5.50	3.55
TI-145A0	C	.56	25	30	50	60	1	50	2.25	1.50
TI-145A1	C	.56	25	30	100	120	1	50	2.40	1.60
TI-145A2	C	.56	25	30	200	240	1	50	2.70	1.80
TI-145A3	C	.56	25	30	300	360	1	50	3.65	2.45
TI-145A4	C	.56	25	30	400	480	1	50	5.50	3.70
2N2653	B	*140	25	75	400	480	....	**20	24.00	16.00
2N681A	D	18	50	250	25	35	10	40	3.58	2.42
2N682A	D	18	50	250	50	75	10	40	4.55	3.03
2N683A	D	18	50	250	100	150	10	40	6.80	4.55
2N684A	D	18	50	250	150	225	10	40	7.00	4.65
2N685A	D	18	50	250	200	300	10	40	7.25	4.84
2N686A	D	18	50	250	250	350	10	40	7.70	5.15
2N687A	D	18	50	250	300	400	10	40	16.00	10.70
2N688A	D	18	50	250	400	500	10	40	18.80	12.50
2N689A	D	18	59	250	500	600	10	40	22.60	15.10
2N1595	C	1	25	15	50	60	1	10	3.05	2.05
2N1596	C	1	25	15	100	120	1	10	4.50	3.05
2N1597	C	1	25	15	200	240	1	10	9.45	6.30
2N1598	C	1	25	15	300	360	1	10	14.45	9.65
2N1599	C	1	25	15	400	480	1	10	19.35	12.90
2N1600	B	3	25	25	50	60	1	10	5.10	3.40
2N1601	B	3	25	25	100	120	1	10	5.70	3.45

ALL-DIFFUSED SILICON CONTROLLED RECTIFIERS (Cont'd)

Type No.	Fig.	I_o (A)	I_H @ 25° (Ma)	I_{sur} (A)	PIV (V)	BV_F(V) @125°C	I_{GT}(ma). @ 25°C Min.	I_{GT}(ma). @ 25°C Max	EACH 1-99	EACH 100-999
2N1602	B	3	25	25	200	240	1	10	9.45	6.30
2N1603	B	3	25	25	300	360	1	10	13.50	9.00
2N1604	B	3	25	25	400	480	1	10	16.80	10.80
2N1770	B	4.7	10	60	25	30	1	15	4.05	2.70
2N1771	B	4.7	10	60	50	60	1	15	4.65	3.10
2N1772	B	4.7	10	60	100	120	1	15	5.75	3.85
2N1773	B	4.7	10	60	150	180	1	15	7.00	4.65
2N1774	B	4.7	10	60	200	240	1	15	8.15	5.45
2N1775	B	4.7	10	60	250	300	1	15	9.35	6.25
2N1776	B	4.7	10	60	300	360	1	15	10.65	7.10
2N1777	B	4.7	10	60	400	480	1	15	12.45	8.30
2N1842B	D	16	20	150	25	35	2	75	2.89	1.93
2N1843B	D	16	20	150	50	75	2	75	3.71	2.48
2N1844B	D	16	20	150	100	150	2	75	5.78	3.85
2N1845B	D	16	20	150	150	225	2	75	5.94	3.96
2N1846B	D	16	20	150	200	300	2	75	6.19	4.13
2N1847B	D	16	20	150	250	350	2	75	6.60	4.40
2N1848B	D	16	20	150	300	400	2	75	12.70	8.45
2N1849B	D	16	20	150	400	500	2	75	15.60	10.40
2N1850B	D	16	20	150	500	600	2	75	18.40	12.25
2N3936	....	7	110	100	100	100	.....	60	7.35	4.90
2N3937	....	7	110	100	200	200	.....	60	14.60	9.75
2N3938	....	7	110	100	300	300	.....	60	18.75	12.50
2N3939	....	7	110	100	400	400	.....	60	26.25	17.50
2N3940	..	7	110	100	500	500	.....	60	30.00	20.00
TI-3010	....	7	30	100	50	50	1	25	1.73	1.30
TI-3011	....	7	30	100	100	100	1	25	1.93	1.45
TI-3012	....	7	30	100	200	200	1	25	2.15	1.60
TI-3013	....	7	30	100	300	300	1	25	2.93	2.20
TI-3014	....	7	30	100	400	400	1	25	4.66	3.50
TI-3038	D	25	130	200	100	100	2.5	100	10.00	7.00
TI-3039	D	25	130	200	200	200	2.5	100	14.00	9.35
TI-3040	D	25	130	200	300	300	2.5	100	19.00	13.50
TI-3041	D	25	130	200	400	400	2.5	100	29.25	19.50
TI-3042	D	25	130	200	500	500	2.5	100	44.65	29.75

Type No.	Fig.	I_{II} I_o (A) @60°C	I_{sur} (A)	PIV (V)	BV_F(V) @125°C	I_{GT}(ma) @ 25°C Min.	I_{GT}(ma) @ 25°C Max.	EACH 1-24	EACH 25-99	EACH 100-999
TIC01	D	110	1000	400	500	5	125	126.00	97.00	84.00
TIC02	D	110	1000	600	720	5	125	156.00	124.00	103.00
TIC03	D	110	1000	800	1000	5	125	212.00	169.00	129.00
TIC04	D	110	1000	1000	1200	5	125	239.00	188.00	157.00
TIC05	D	110	1000	1200	1500	5	125	432.00	327.00	279.00

E PNPN TRIGGER

Mfr's Type	I_{RP} (ma) @ 60°C	BV_F (V) @ 125°C	Max. Case Temp.	Anode Current to Trigger	EACH 1-99	EACH 100-999
TI-42	1A	32±4	150°C	300 μa max.	.87	.58
TI-43	Same as above, but with symmetrical trigger.				1.02	.68

SILICON BIDIRECTIONAL TRIODE THYRISTORS

Type No.	Fig.	V_{FB} V	$I_{A(RMS)}$ @ 75°C	I_{sur} A	I_{GT} ma	EACH 1-99	EACH 100-999
TIC20	......	200	6A	50	100	6.82	4.55
TIC21	......	300	6A	50	100	7.50	5.00
TIC22	F	200	6A	50	100	6.98	4.65
TIC23	F	300	6A	50	100	7.66	5.11

General Electric Silicon Transistors

EXPLANATION OF COLUMN HEADINGS

BV_{CBO}—coll.-to-base breakdown v., open input C_{ob}—output cap. f_t—gain bandwidth product freq. at which h_{fe} is unity h_{FE}—DC fwd. curr. trans. ratio h_{fe}—AC fwd. current transfer ratio I_{CBO}—coll. cutoff current, emitter open I_F—fwd. current I_{GFC}—cathode gate current to fire r_s—series "on" resistance P_d—power dissipation P_T—total power t_{off}—turn-off time t_{on}—turn-on time V_{CB}—coll.-to-base volts V_{CEO}—coll.-to-emitter volts, open input V_{CER}—coll.-to-emitter v., res. input $V_{CE(sat)}$—saturation v. V_{EEO}—emitter-to-emitter v. V_{GFA}—anode gate volts to fire V_{GFC}—cathode gate volts to fire V_{EBO}—emitter-to-base volts, open input V_{SAT}—saturation voltage V_o—offset v. differential.

PLANAR PASSIVATED TRANSISTORS

For switching and amplifier use. TO-5 package. Typ. f_t, 130 mc.

Type No.	P_T@25°C (w)	V_{EBO} (v)	V_{CER} (v)	h_{FE} Min. Max.	h_{fe} Min. Max.	EACH 1-99	EACH 100-999
2N696	0.6	5	40	20-60	....	.93	.62
2N697	0.6	5	40	40-120	....	.93	.62
2N698	0.8	7	80	20-60	15	2.50	1.67
2N699	0.6	5	80	40-120	35-100	1.68	1.12
2N1613	0.8	7	50	40-120	30-100	1.50	1.00
2N1711	0.8	7	50	100-300	50-200	1.75	1.17
2N1889	0.8	7	80	40-120	30-100	5.25	3.50
2N1890	0.8	7	80	100-300	50-200	5.30	3.55
2N1893	0.8	7	100	40-120	30-100	2.10	1.60
2N1973	0.8	7	80	75 min.	76-200	2.37	1.58
2N1983	0.6	5	30	....	70-210	2.50	1.67
2N1984	0.6	5	30	....	35-100	2.33	1.56
2N2049	0.8	7	50	....	75	9.45	6.30

PLANAR PASSIVATED TRANSISTORS (TO-18 PKG.)

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CER} (v)	V_{CEO} (v)	t_{on} (nsec)	t_{off} (nsec)	C_{ob} (pf)	@ V_{CB} (v)	EACH 1-99	EACH 100-999
2N717	20	60	40	.....	.....	.....	35	10	.99	.66
2N718	40	120	40	.....	.....	.....	35	10	1.30	.86
2N718A	50	120	50	.....	.....	.....	25	10	1.52	1.01
2N719	20	60	80	.....	.....	.....	20	10	2.35	1.56
2N719A	20	60	80	60	.....	.....	15	10	2.50	1.67
2N720	40	120	80	.....	.....	.....	20	10	1.83	1.22
2N870	40	120	80	60	.....	.....	15	10	5.25	3.50
2N871	100	300	80	60	.....	.....	15	10	5.33	3.56
2N910	75	.....	80	.....	.....	.....	15	10	2.37	1.58
2N956	100	300	50	.....	.....	.....	25	10	2.17	1.44

PLANAR EPITAXIAL PASSIVATED TRANSISTORS

For high speed switching, amplifier and driver applications.

Type No.	JEDEC Pkg.	P_T @ 25°C (w)	V_{EBO} (v)	V_{CE} (sat) (v)	V_{CER} (v)	h_{FE} Min.	h_{FE} Max.	EACH 1-99	EACH 100-999
2N2192	TO-5	0.8	5	0.35	40	100	300	4.20	2.80
2N2350	TO-46	0.4	5	0.35	40	100	300	4.80	3.20
2N2192A	TO-5	0.8	5	0.25	40	100	300	4.45	2.95
2N2350A	TO-46	0.4	5	0.25	40	100	300	5.05	3.35
2N2193	TO-5	0.8	8	0.35	50	40	120	2.95	1.95
2N2351	TO-46	0.4	8	0.35	50	40	120	3.55	2.35
2N2193A	TO-5	0.8	8	0.25	50	40	120	3.15	2.10
2N2351A	TO-46	0.4	8	0.25	50	40	120	3.75	2.50
2N2194	TO-5	0.8	5	0.35	40	20	60	2.20	1.47
2N2352	TO-46	0.4	5	0.35	40	20	60	2.95	1.87
2N2194A	TO-5	0.8	5	0.25	40	20	60	2.45	1.63
2N2352A	TO-46	0.4	5	0.25	40	20	60	3.20	2.13
2N2195	TO-5	0.6	5	0.35	25	20	.....	1.38	.92
2N2353	TO-46	0.35	5	0.35	25	20	.....	1.98	1.32
2N2195A	TO-5	0.6	5	0.25	25	20	.....	1.53	1.02
2N2353A	TO-46	0.35	5	0.25	25	20	.....	2.13	1.42
2N2364	TO-46	0.4	7	0.35	80	40	120	5.40	3.60
2N2364A	TO-46	0.4	7	0.25	80	40	120	5.70	3.80
2N2868	TO-5	0.8	5	0.25	40	40	120	1.68	1.12
2N2909	TO-46	0.4	5	0.25	40	40	120	2.28	1.52
2N2217	TO-5	0.8	5	0.4	30	20	60	3.02	2.01
2N2218	TO-5	0.8	5	0.4	30	40	120	3.35	2.25
2N2218A	TO-5	0.8	6	0.3	40	40	120	5.26	3.51
2N2219	TO-5	0.8	5	0.4	30	100	300	3.56	2.37
2N2219A	TO-5	0.8	6	0.3	40	100	300	6.07	4.05
2N2220	TO-18	0.5	5	0.4	30	20	60	3.02	2.01
2N2221	TO-18	0.5	5	0.4	30	40	120	3.35	2.25
2N2221A	TO-18	0.5	6	0.3	40	40	120	5.26	3.51
2N2222	TO-18	0.5	5	0.4	30	100	300	3.95	2.65
2N2222A	TO-18	0.5	6	0.3	40	100	300	6.07	4.05
2N3722	TO-5	0.8	6	0.5	60	40	150	10.50	7.00
2N3723	TO-5	0.8	6	0.75	80	40	150	12.97	8.65

PLANAR EPITAXIAL PASSIVATED TRANSISTORS ULTRA HIGH-SPEED SWITCHES (TO-18 PKG.)

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CER} (v)	V_{CEO} (v)	t_{on} (nsec)	t_{off} (nsec)	C_{ob} (pf)	@ V_{CB} (v)	EACH 1-99	EACH 100-999
2N706	20	.....	20	.....	.....	.....	6	10	.90	.60
2N706A	20	60	20	15	40	75	5	5	.97	.64
2N708	30	120	20	15	40	70	6	10	1.08	.72
2N709	20	120	.....	6	15	15	3	5	2.50	1.65

HOW TO ORDER

When ordering, specify Department Number, 49 D 3, then add GE type number or JEDEC type number. Example: 49 D 3 2N2439.

PLANAR EPITAXIAL PASSIVATED TRANSISTORS ULTRA HIGH SPEED SWITCHES (TO-18 PKG.) (CONT'D)

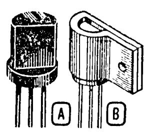
Type No.	h_{FE} Min.	h_{FE} Max.	V_{CER} (v)	V_{CEO} (v)	t_{on} (nsec)	t_{off} (nsec)	C_{ob} (pf)	@ V_{CB} (v)	EACH 1-99	EACH 100-999
2N709A	30	90	.....	6	15	15	3	5	4.87	3.25
2N743	20	60	.....	12	12	24	5	5	6.20	4.15
2N743A	20	60	.....	15	10	15	3	5	6.65	4.45
2N744	40	120	.....	12	12	24	5	5	2.90	1.95
2N744A	40	120	.....	15	10	15	3	5	3.40	2.25
2N834	25	.....	30	.....	35	75	4	10	2.58	1.72
2N914	30	120	20	15	40	40	6	10	1.40	.93
2N2368	20	60	.....	15	12	15	4	5	2.31	1.54
2N2369	40	120	.....	15	12	18	4	5	2.40	1.60
2N2784	40	120	.....	6	9	9	3	5	11.25	7.50
2N3010	25	125	.....	6	12	12	3	5	1.90	1.27

PLANAR PASSIVATED AMPLIFIERS (TO-18 PKG.)

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CER} (v)	V_{CEO} (v)	t_{on} (nsec)	t_{off} (nsec)	C_{ob} (pf)	@ V_{CB} (v)	EACH 1-99	EACH 100-999
2N759	36	90	.....	45	.....	.....	8	5	1.75	1.17
2N760	76	333	.....	45	.....	.....	8	5	1.80	1.20
2N760A	76	333	.....	60	.....	.....	8	5	1.83	1.22
2N915	40	160	.....	50	.....	.....	3.5	10	5.08	3.39
2N916	50	200	.....	25	.....	.....	6	5	3.65	2.90
2N917	20	.....	.....	15	.....	.....	1.7	10	4.95	3.30
2N918	20	.....	.....	15	.....	.....	1.7	10	5.25	3.50
2N929	40	120	.....	45	.....	.....	8	5	3.67	2.44
2N930	100	300	.....	45	.....	.....	8	5	4.00	2.67
2N2387	Same as 2N929, but TO-50 pkg.								11.55	7.70
2N2388	Same as 2N930, but TO-50 pkg.								14.40	9.65
2N2483	40	120	.....	60	.....	.....	.....	.....	3.67	2.44
2N2484	100	500	.....	60	.....	.....	.....	.....	4.00	2.67

ECONOMY PLANAR PASSIVATED NPN SILICON TRANSISTORS

Engineered to deliver excellent performance with maximum economy. These NPN silicon transistors are designed for a broad variety of consumer and industrial applications. *h_{fe}. †Maximum noise figure. NF, C_{ob}, and f_t are typical measurements. Pkg. No. 1, small signal amplifiers, fig., A. Pkg. No. 2, high frequency amplifiers and oscillators, fig., B.



[A] SMALL SIGNAL AMPLIFIERS—AUDIO TO 30 MC

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CEO} (v)	P_t (mw)	C_{ob} (pf)	V_{sat} (v)	NF† (db)	f_t (Mc)	EACH 1-99	EACH 100-999
2N2711	30	90	18	200	7	0.2	....	120	.45	.30
2N2712	75	225	18	200	7	0.2	.....	120	.48	.32
2N2923	90	180*	25	200	7	0.2	....	120	.48	.32
2N2924	150	300*	25	200	7	0.2	.....	120	.53	.35
2N2925	235	170*	25	200	7	0.2	.....	120	.60	.40
2N3391	250	500	25	200	7	0.2	1.9	.....	.72	.48
2N3391A	250	500	25	200	7	0.2	1.9	.....	.80	.53
2N3392	150	300	25	200	7	0.2	.....	120	.53	.35
2N3393	90	180	25	200	7	0.2	.....	120	.45	.30
2N3394	55	110	25	200	7	0.2	.....	120	.43	.29
2N3721	60	660*	18	200	7	0.2	....	120	.43	.29
2N3900	250	500	18	200	7	0.2	1.9	120	.67	.45
2N3900A	250	500	18	200	7	0.2	1.9	120	.75	.50
2N4086	150	300	12	200	7	0.2	1.9	120	.45	.30
2N4087	250	500	12	200	7	0.2	1.9	120	.59	.39
2N4087A	250	500	12	200	7	0.2	1.9	120	.65	.43

[B] HIGH FREQUENCY AMPLIFIERS AND OSCILLATORS 262.5 KC TO 100 MC EPITAXIAL

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CEO} (v)	P_t (mw)	C_{ob} (pf)	V_{sat} (v)	NF† (db)	f_t (Mc)	EACH 1-99	EACH 100-999
2N3843	20	40	30	200	2.8	1.0	.....	135	.54	.36
2N3844	35	70	30	200	2.8	1.0	.....	135	.57	.38
2N3845	60	120	30	200	2.8	1.0	.....	135	.62	.42
2N3854	35	70	18	200	2.5	1.0	....	300	.51	.34
2N3854A	35	70	30	200	2.5	1.0	....	300	.54	.36
2N3855	60	120	18	200	2.5	1.0	.....	350	.53	.35
2N3855A	60	120	30	200	2.5	1.0	.....	350	.57	.38
2N3856	100	200	18	200	2.5	1.0	.....	375	.57	.38
2N3856A	100	200	30	200	2.5	1.0	.....	375	.62	.42

General Electric Silicon Transistors

SEE FACING PAGE FOR EXPLANATION OF COLUMN HEADINGS

HIGH FREQUENCY AMPLIFIERS AND OSCILLATORS 262.5 KC TO 100 MC EPITAXIAL (Cont'd)

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
2N3843A	20	40	30	200	2.8	1.0	5.5	135	.59	.39
2N3844A	35	70	30	200	2.8	1.0	5.5	135	.62	.42
2N3845A	60	120	30	200	2.8	1.0	5.5	135	.67	.45
2N3858	60	120	30	200	2.5	1.0	....	135	.48	.32
2N3859	100	200	30	200	2.5	1.0	....	135	.49	.33
2N3860	150	300	30	200	2.5	1.0	...	135	.54	.36

10 MC to 950 MC EPITAXIAL

Type No.	h_{FE}	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
2N3662	20 Min. VCE 10V Ic=2ma	12	200	1.2	0.6	4	900	.75	.50
2N3663		12	200	1.2	0.6	4	900	.80	.53

10 MC TO 250 MC FORWARD AGC

*32db Typ. Gain @ V_{CE}, 9.5V; Ic, 4ma; f, 45mc; Iagc, 11.4ma min., 13.5 ma max. †32 db Typ. Gain @ V_{CE}, 9.5V; Ic, 4ma; f, 45 mc; Iagc, 12.5ma min., 15ma max. §17db Typ. Gain @ V_{CE}, 9.5V; Ic, 4ma; f, 200mc; Iagc, 10ma min., 15ma max.

Type No.	h_{FE}	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
16K1*	60 Typ. @ Ic=4ma	30	200	1.4	1.0	6	650	.94	.62
16K2†		30	200	1.4	1.0	6	650	.98	.66
16K3§		30	200	1.4	1.0	6	650	1.06	.70

LARGE SIGNAL AMPLIFIERS AND MEDIUM SPEED SWITCHES—EPITAXIAL

*V_{CE} (sat) @ I_c = 50ma Ib, = 3ma. § h_{FE} @ V_{CE} = 1V, Ic = 10ma. †V_{CE} (sat) @ I_c 150ma, Ib = 5ma.

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
2N2713	30	90	18	200	6.0	0.3*	....	120	.51	.34
2N2714	75	225	18	200	6.0	0.3	.	120	.53	.35
2N3414	75	225	25	360	6.0	0.3*	....	120	.59	.39
2N3415	180	540	25	360	6.0	0.3	...	120	.65	.43
2N3416	75	225	50	360	6.0	0.3*	....	120	.65	.43
2N3417	180	540	50	360	6.0	0.3	.	120	.69	.46
2N3973	35	100†	40	360	5.2	0.3	....	350	.89	.59
2N3974	55	200†	40	360	5.2	0.3§	....	350	.94	.62
2N3975	35	100†	40	360	5.2	0.3	....	350	.79	.53
2N3976	55	200†	40	360	5.2	0.3	....	350	.82	.54
2N3402	75	225	25	900	....	0.3*	....	120	.75	.50
2N3403	180	540	25	Pkg. No. 2 Attached to Heatsink		0.3	....	120	.80	.53
2N3404	75	225	50			0.3*	....	120	.80	.53
2N3405	180	540	50			0.3	....	120	.86	.58

HIGH VOLTAGE APPLICATIONS—TO 100 MC

Type No.	h_{FE} Min.	h_{FE} Max.	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
2N3858A	60	120	60	200	2.5	0.25	....	135	.60	.40
2N3859A	100	200	60	200	2.5	0.25	...	135	.62	.41
2N3877	20	.....	70	200	2.5	1.0	...	135	.56	.38
2N3877A	20	....	85	200	2.5	1.0	...	135	.63	.42

HIGH SPEED SWITCHES—LOW STORAGE TIMES EPITAXIAL, GOLD DOPED

*t_s @ I_c = 10ma, Ib1 = 3ma, Ib2 = 1ma, = 25 nsec typical.

Type No.	h_{FE}	V_{CEO} (v)	P_T (mw)	C_{ob} (pf)	V_{ast} (v)	NF (db)	ft (Mc)	EACH 1-99	EACH 100-999
2N3605*	30 Min. @ I_c=10ma VCE=10V	14	200	4	0.25	....	350	.60	.40
2N3606*		14	200	4	0.25	...	350	.54	.36
2N3607*		14	200	4	0.25	...	350	.51	.34

DUAL DIODES—COMMON CATHODE MATCHED PAIRS

Mfr's Type	V_f	Pt	CO	NF (db)	ft (M_c)	EACH 1-99	EACH 100-999
1N4951	0.85V Max @ 1ma	200 mw	1.4 pf Typ.	Vr	20V	.42	.28
1N4952	0.85V Max @ 1ma	200 mw	1.4 pf Typ.	Vr	50V	.48	.32
D16U3	0.54 0.66 @ 1ma	200 mw	1.4 Typ.	Vr	20V	.63	.41
D16U4	0.54 0.66 @ 1ma	200 mw	1.4 Typ.	Vr	50V	.72	.48

MESA NPN PASSIVATED POWER TRANSISTORS FOR GENERAL-PURPOSE USE

Typical ft. 15 mc. †V_{CE}=10 volts. I_c=200 milliamps. #I_c=250 microamps.

Type No.	h_{FE}† Min. Max.	V_{CEO}# (v)	Max. P_T @ 25°C Case (w)	Max. Power @ 25°C Air (watts)	EACH 1-99	EACH 100-999
2N497	12-36	60	4	0.8	1.89	1.26
2N497A	12-36	60	5	1.0	2.05	1.37
2N498	12-36	100	4	0.8	2.12	1.41
2N498A	12-36	100	5	1.0	3.45	2.30
2N656	30-90	60	4	0.8	2.03	1.35

MESA NPN PASSIVATED POWER TRANSISTORS FOR GENERAL-PURPOSE USE (Cont'd)

Typ. f., 15 mc. *At 100°C. †V_{CE}=10 v.; I_C=200 ma. #I_C=250 μa.

Type No.	h_{FE}† Min. Max.	V_{CEO}# (v)	Max. P_T @ 25°C Case (w)	Max. Power @ 25°C Air (watts)	EACH 1-99	EACH 100-999
2N656A	30-90	60	5	1.0	2.40	1.60
2N657	30-90	100	4	0.8	2.20	1.47
2N657A	30-90	100	5	1.0	2.92	1.94
2N2017	50-200	60	5	1.0	1.95	1.30
2N2106	12-36	60	......	1.0	1.97	1.32
2N2107	30-90	60	......	1.0	2.09	1.39
2N2108	75-200	60	......	1.0	2.10	1.40
2N2726	30-90	200	5	1.0	2.10	1.40
2N2727	75-150	200	5	1.0	4.27	2.85
7A30	12-36	40	5	1.0	1.01	.67
7A31	30-90	30	5	1.0	1.08	.72
7A32	75-200	30	5	1.0	2.25	1.50
2N2196	30-90	60	10*	2.0	4.50	3.00
2N2197	75-200	60	10*	2.0	4.62	3.25
2N2201	30-90	100	10*	2.0	6.90	4.60
2N2202	30-90	100	10*	1.0	13.20	8.95
2N2203	30-90	100	10*	1.0	13.30	8.85
2N2204	30-90	100	10*	1.0	15.55	10.35
2N2611	12-36	100	10*	2.0	6.90	4.60
2N2995	30-90	100	10*	1.5	10.50	7.00

TRIPLE-DUFFUSED NPN PASSIVATED HIGH-POWER TRANSISTORS

Stud mounting types. *V_{CE}=15 v.; I_C=2 amps. †V_{CE}=5 v.; I_C=500 ma. #Maximum P_T @ 25°C case temperature.

Type No.	h_{FE} Min. Max.	V_{CEO} (v)	Max. P_T @ 100°C Case (w)	Max. P_T @ 25° Air (watts)	EACH 1-99	EACH 100-999
2N1616	15-75*	60	60#	3	26.00	17.50
2N1617	15-75*	80	60#	3	30.00	20.00
2N1618	15-75*	100	60#	3	35.00	23.50
2N1724	20-90*	80	50	3	55.50	37.00
2N1724A	20-90*	120	50	3	63.20	42.10
2N1725	50-150*	80	50	3	57.00	38.00
2N2150	20-60†	80	30	2	22.50	15.00
2N2151	40-120†	80	30	2	24.75	16.50
2N3220	20-60†	80	30	2	20.00	13.35
2N3221	40-120†	80	30	2	22.00	14.65
2N3222	20-60†	60	30	2	18.00	12.00
2N3223	40-120†	60	30	2	19.85	13.25

GROWN DIFFUSED PASSIVATED NPN TRANSISTORS

*V_{CB}=5 v.; I_E=1 ma; f=1 kc. V_{CE}=5 v.; I_C=1 ma. All types have TO-5 isolated case.

Type No.	h_{fe}* Min. Max.	Min. BV_{CBO} (v)	Max. P_d (mw)	h_{FE}† Min. Max.	EACH 1-99	EACH 100-999
2N332	9-22	45	150	14	4.65	3.10
2N332A	9-22	45	500	14	4.95	3.30
2N333	18-44	45	150	27	4.65	3.10
2N333A	18-44	45	500	27	4.95	3.30
2N334	18-90	45	150	36	4.65	3.10
2N334A	18-90	45	500	36	4.95	3.30
2N335	37-90	45	150	45	4.95	3.30
2N335A	37-90	45	500	45	5.25	3.50
2N335B	37-90	60	500	45	8.90	5.95
2N336	76-333	45	150	75	6.00	4.00
2N336A	76-333	45	500	75	6.30	4.20
2N337	55	45	125	20-55	4.85	3.20
2N337A	55	45	500	20-55	5.15	3.40
2N338	99	45	125	45-150	5.50	3.65
2N338A	99	45	500	45-150	5.80	3.85

NPNP LOW-CURRENT CONTROLLED SWITCHES

TO-5 4-lead pkg., isolated case. *Measured @ V_{AC}=40 v.; R_{GC}=0; R_L=800 ohms. †Measured @ V_{AC}=40 v.: R_L=800 ohms.

Type No.	Anode Blk'g Voltage (v)	I_F @ 100°C (ma)	V_{GFA}* (v)	Max. I_{GFC}† (μa)	V_{GFC}† (v)	EACH 1-99	EACH 100-999
3N58	40	100	....	1.0	.4 to .65	3.40	2.25
3N59	40	100	−.6 to −1.2	.....	....	3.75	2.50
3N60	40	100	−.6 to −1.2	1.0	.4 to .65	4.15	2.75
13A8	20	100	−1.25 max.	......	.7 max.	2.00	1.33

As new General Electric Semiconductors become available, Allied will stock them.

General Electric Transistors and Diodes

EXPLANATION OF COLUMN HEADINGS

BV_{CEO}—coll.-emitter breakdown v., open input. BV_{CER}—c.-e. breakdown v., res. input. f_{hfb}—small signal fwd. curr. trans. ratio cutoff freq. h_{FE}—lge. signal (DC) curr. gain. I_F—recurrent fwd curr. I_f—instantaneous fwd curr. I_{ZM}—max. zener curr. I_{ZT}—zener test curr. PRV—peak rev. v. T_A—ambient temp. T_j—junc. temp. T_s—storage time. V_{BO}—breakover v. V_{CE}—c.-e. voltage. V_{CEO}—c.-e. volt., open input. V_F—maximum forward voltage. V_{R1}—minimum reverse voltage. V_Z—nominal zener voltage ΔV_Z—typical zener volt. regulation. Z_{ZT}—zener impedance.

HOW TO ORDER

When ordering, specify Department Number, 49 D 3, then add GE type number or JEDEC type number. Example: 49 D 3 3N81.

PNPN PLANAR PASSIVATED CONTROLLED SWITCHES

TO-18 4-lead pkg. *Measured @ $V_{AC}=40$ v.; $R_L=800$ ohms; $R_{GC}=10K$. †Measured @ $V_{AC}=40$ v.; $R_L=800$ ohms.

Type No.	Anode Blk'g. Voltage (v)	I_F @ 25°C (ma)	V_{GFA}* (v)	Max. I_{GFC}† (µa)	V_{GFC}* (v)	EACH 1-99	EACH 100-999
3N81	65	200	.4 to .8	1.0	.4 to .65	3.40	2.25
3N82	100	200	.4 to .8	1.0	.4 to .65	4.95	3.30
3N83	70	50	....	150	.4 to .80	2.13	1.42
3N84	40	175	....	10	.4 to .65	1.98	1.32
3N85	100	175	....	10	.4 to .65	3.30	2.20
3N86	65	200	.4 to .8	1.0	.4 to .65	6.00	4.00

SILICON UNILATERAL SWITCH

Planar integrated PNPN trigger diode; 30v reverse breakdown—forward switching voltage 6 to 10 volts at 500 µa maximum.
D13 D1. 1-99........Each 1.50 100-999...............Each 1.00

SILICON BILATERAL SWITCH

Planar integrated bilateral trigger diode similar to the above unilateral switch back to back, but in monolithic structure. Useful as triac phase controllers or reversible ring counters.
D13 E1. 1-99........Each 1.65 100-999...............Each 1.10

UNIJUNCTION TRANSISTORS

Available in TO-5 or TO-18 type cases, order Type No. under specific case style required.

Type No. TO-5	Type No. TO-18	Interbase Res. (K ohms)	Intrinsic Standoff Ratio	Min. Emitter Rev. Volts	EACH 1-99	EACH 100-999
2N489	2N2417	4.7-6.8	.51-.62	60	7.10	4.75
2N489A	2N2417A	4.7-6.8	.51-.62	60	7.65	5.10
2N489B	2N2417B	4.7-6.8	.51-.62	60	9.15	6.10
2N490	2N2418	6.2-9.1	.51-.62	60	7.80	5.20
2N490A	2N2418A	6.2-9.1	.51-.62	60	8.35	5.55
2N490B	2N2418B	6.2-9.1	.51-.62	60	9.85	6.55
2N490C	....	6.2-9.1	.51-.62	60	11.85	7.90
2N491	2N2419	4.7-6.8	.56-.68	60	8.40	5.60
2N491A	2N2419A	4.7-6.8	.56-.68	60	8.90	5.95
2N491B	2N2419B	4.7-6.8	.56-.68	60	10.40	6.95
2N492	....	6.2-9.1	.56-.68	60	9.90	6.60
2N492A	2N2420A	6.2-9.1	.56-.68	60	10.40	6.95
2N492B	2N2420B	6.2-9.1	.56-.68	60	11.90	7.95
2N492C	....	6.2-9.1	.56-.68	60	13.90	9.28
2N493	2N2421	4.7-6.8	.62-.75	60	10.75	7.20
2N493A	2N2421A	4.7-6.8	.62-.75	60	11.20	7.50
2N493B	2N2421B	4.7-6.8	.62-.75	60	12.75	8.50
2N494	2N2422	6.2-9.1	.62-.75	60	10.90	7.30
2N494A	2N2422A	6.2-9.1	.62-.75	60	11.40	7.60
2N494B	2N2422B	6.2-9.1	.62-.75	60	12.90	8.60
2N494C	....	6.2-9.1	.62-.75	60	14.95	9.95
2N1671	....	4.7-9.1	.47-.62	30	2.95	1.97
2N1671A	....	4.7-9.1	.47-.62	30	3.20	2.13
2N1671B	....	4.7-9.1	.47-.62	30	3.55	2.36
2N1671C	....	4.7-9.1	.47-.62	30	8.25	5.50
2N2160	....	4.0-12.0	.47-.80	30	1.49	.99
....	2N2646	4.7-9.1	.56-.75	30	1.05	.70
....	2N2647	4.7-9.1	.68-.82	30	3.00	2.00
....	2N2840	4.7-9.1	.62 typ.	30	6.35	4.25
....	5E35	4.7-9.1	.62-.82	30	1.35	.90
....	5E36	4.7-9.1	.62-.82	30	2.67	1.78

NPN CHOPPERS

Type No.	Max. V_o (µvolts)	Min. V_{EEO} (volts)	Max. r_s (ohms)	Max. I_{CBO} (na)	EACH 1-99	EACH 100-999
2N2356	100@+25°C to +125°C	20	40	10	20.00	13.40
2N2356A	50@−55°C to +125°C	20	40	10	23.00	15.30
2N3082	75@+25°C	20	40	10	27.50	18.00
2N3083	75@−55°C to +125°C	20	40	10	30.50	20.30

SILICON NPN DIFFERENTIAL AMPLIFIERS

All types listed below have TO-5 case except: †TO-18 case. *6-lead network.

Type No.	V_{CEO} (volts)	h_{FE} Min. Max.	h_{FE1}/h_{FE2}	Max. V_{BE1}-V_{BE2} (mvolts)	EACH 1-99	EACH 100-999
2N2060	60	30 min.	0.9-1.0	5	27.00	18.00
2N2223	60	25-150	0.8-1.0	15	10.00	6.70
2N2223A	60	25-150	0.9-1.0	5	15.00	10.00
2N2480	40	30-350	0.8-1.0	10	13.50	9.00
2N2480A	40	50-200	0.8-1.0	5	16.50	11.00
2N2453	30	150-600	0.9-1.0	5	30.00	20.00
2N2453A	50	150-600	0.9-1.0	5	50.00	33.50
2N2652	60	50-200	.85-1.0	3	18.80	12.50
2N2652A	60	50-200	0.9-1.0	3	21.70	14.50
2N2910	25	80 min.	0.8-1.0	10	12.75	9.35
2N2913	45	150 min.	....	....	10.00	6.70
2N2914	45	300 min.	....	....	15.00	10.00
2N2915	45	150 min.	0.9-1.0	5	27.00	18.00
2N2916	45	300 min.	0.9-1.0	5	30.00	20.00
2N2917	45	150 min.	0.8-1.0	10	21.00	14.00
2N2918	45	300 min.	0.8-1.0	10	25.50	17.00
2N2919	60	150 min.	0.9-1.0	5	29.25	19.50
2N2920	60	300 min.	0.9-1.0	5	32.25	21.50
12A8	30	30 min.	0.6-1.0	15	5.65	3.75
2N3513†	40	50-200	0.8-1.0	5	19.65	13.10
2N3515*	40	50-200	0.8-1.0	5	33.85	22.55
2N3516†	60	50-200	0.9-1.0	3	24.15	16.10
2N3518*	60	50-200	0.9-1.0	3	38.35	25.55
2N3520*	30	150-600	0.9-1.0	5	31.85	21.20
2N3521	45	155-500	0.8-1.0	10	32.60	21.70
2N3522†	45	155-500	0.8-1.0	10	35.10	23.40
2N3524*	45	155-500	0.8-1.0	10	37.50	25.00
2N2639	45	50-300	0.9-1.0	5	27.00	18.00
2N2640	45	50-300	0.8-1.0	10	20.25	13.50
2N2641	45	50-300	....	....	9.90	5.50
2N2642	45	100-300	0.9-1.0	5	38.00	25.25
2N2643	45	100-300	0.8-1.0	10	30.00	20.00
2N2644	45	100-300	....	....	18.37	8.25

SILICON NPN DARLINGTON CIRCUITS. *@$I_C=100\mu a$

Type No.	Min. V_{CEO} (v)	h_{FE} @ 100 ma Min. Max.	h_{FE} @ 10 ma Min. Max.	Min. h_{FE} $I_C=1$ ma	EACH 1-99	EACH 100-999
2N998	60	2000	1600-8000	800	14.65	9.80
2N2785	40	2000-20,000	1200 min.	600	13.35	8.90
2N997	40	7000-70,000	4000 min.	1000*	14.90	9.95
2N999	60	7000-70,000	4000 min.	1000*	15.85	10.55

GERMANIUM ALLOY PNP TRANSISTORS

Type No.	h_{FE} Min. Max.	Typ. f_{hfb} (mc)	BV_{CER} (v)	Power Diss. (mw)	EACH 1-99	EACH 100-999
2N43A	34-65	1.3	30	240	4.13	2.75
2N44	18-43	1.0	30	240	2.93	1.95
2N187A	25-42	1.0	25	200	1.50	1.00
2N188A	34-65	1.2	25	200	1.65	1.10
2N189	25-42	0.8	25	200	.78	.52
2N190	34-65	1.0	25	200	.83	.55
2N191	53-121	1.2	25	200	.90	.60
2N192	72-176	1.5	25	200	1.59	1.06
2N241A	50-125	1.3	25	200	.98	.65
2N319	25-42	2.0	20	225	.44	.29
2N320	34-65	2.5	20	225	.59	.39
2N321	53-121	3.0	20	225	.65	.43
2N322	34-65	3.0	16	200	.42	.28
2N323	53-121	3.5	16	200	.59	.39
2N324	72-198	4.0	16	200	.72	.48
2N394A	30-120	7.0	15	150	.60	.40
2N396A	30-150	8.0	20	200	.62	.41
2N404	....	8.0	24	150	.47	.31
2N404A	....	8.0	35	150	.66	.44
2N413	....	6.0	18	150	.42	.29
2N414	30-120	7.0	15	150	.42	.29
2N508	100-200	4.5	16	200	.69	.46
2N508A	100-200	4.5	25	200	.81	.54
2N524	25-42	2.5	30	225	1.02	.68
2N525	34-65	3.0	30	225	1.02	.68

ALLIED STOCKS OVER 8600 TYPES OF SEMICONDUCTORS, WITH NEW TYPES CONSTANTLY BEING ADDED

General Electric Transistors and Diodes

SEE PAGE 67 FOR EXPLANATION OF COLUMN HEADINGS

GERMANIUM ALLOY PNP TRANSISTORS (Cont'd)

Type No.	h_{FE} Min. Max.	Typ. f_{hfb} (mc)	BV_{CER} (v)	Power Diss. (mw)	EACH 1-99	EACH 100-999
2N524	25-42	2.5	30	225	1.02	.68
2N525	34-65	3.0	30	225	1.02	.68
2N526	53-90	3.5	30	225	1.04	.69
2N527	72-121	4.0	30	225	1.23	.82
2N1057	34-90	1.3	30	240	5.25	3.50
2N1097	34-90	3.0	16	200	.57	.38
2N1098	25-90	3.0	16	200	.53	.35
2N1175	70-140	4.0	25	200	.93	.62
2N1175A	70-140	4.0	25	200	1.35	.90
2N1303	20 min.	7.0	25	150	.49	.33
2N1305	40-200	8.0	20	150	.52	.35
2N1307	60-300	12.0	15	150	.66	.44
2N1309	80 min.	17.0	15	150	1.07	.72
2N1413	25-42	3.2	25	200	.78	.52
2N1414	34-65	3.6	25	200	.81	.54
2N1415	53-90	4.0	25	200	.93	.62
2N1614	18-43	1.3	40	240	2.50	1.65
2N1924	34-65	3.0	40	225	1.57	1.04
2N1925	53-90	3.5	40	225	1.77	1.18
2N1926	72-121	4.0	40	225	2.08	1.39

GERMANIUM RATE-GROWN NPN TRANSISTORS

*Measured at $V_{CE}=1$ volt, $I_C=1$ ma. †At $I_C=300$ μamp. #At 455 kc.

Type No.	h_{FE}* Min. Max.	BV_{CEO}† (v)	Power Gain# (db)	Power Diss. (mw)	f_{hfb} (mc)	EACH 1-99	EACH 100-999
2N78	45-135	15	26.0-31.0	65	9	2.49	1.66
2N78A	45-135	15	26.0-31.0	65	9	2.75	1.83
2N167A	45-135	20	26.0-31.0	65	9	5.16	3.44
2N169	34-200	15	23.5	65	9	1.59	1.06
2N169A	34-200	25	23.5	65	9	2.42	1.61
2N292	8-51	15	21.0-26.0	65	5	.83	.55
2N293	8-51	15	23.5-28.0	65	8	.90	.60
2N1086	17-200	9	23.0-29.0	65	9	1.11	.74
2N1086A	17-200	9	23.0-27.0	65	9	1.59	1.06
2N1087	17-200	9	25.0-29.0	65	9	1.83	1.22
2N1121	34-200	15	26.5-30.5	65	9	1.59	1.06
2N1217	40-100	20	......	75	9	2.91	1.94
2N1510	8-90	70	......	75	9	2.42	1.61
2N1694	15-45	20	. .	75	9	.99	.66

SILICON REFERENCE-AMPLIFIER TRANSISTORS

Type No.	h_{FE}	V_{CEO} (v)	Max. Temp Coeff. K_T	Ref. Volt. V_{ref} (v)	EACH 1-99	EACH 100-999
RA1	10-120	45	.02%/°C	7.0 ±10%	4.50	3.00
RA1A	10-120	45	.005%/°C	7.0 ±10%	7.95	5.30
RA1B	10-120	45	.002%/°C	7.0 ±10%	14.10	9.40
RA1C	10-120	45	.001%/°C	7.0 ±10%	27.75	18.50
RA2	40-120	45	.02%/°C	7.0 ±5%	7.95	5.30
RA2A	40-120	45	.005%/°C	7.0 ±5%	22.50	15.00
RA2B	40-120	45	.002%/°C	7.0 ±5%	49.50	33.00
RA3	30-90	60	.02%/°C	7.0 ±5%	8.25	5.50
RA3A	30-90	60	.005%/°C	7.0 ±5%	23.40	15.60
RA3B	30-90	60	.002%/°C	7.0 ±5%	54.00	36.00

SILICON SIGNAL DOUBLE-HEATSINK DIODES

Double heatsink diodes (DHD)—recommended for new designs. Feature small size, no spring, greater power. ‡Stabistor.

Type No.	Breakdown Volt. (min.)	Fwd. Current (ma)	Rev. Recovery (nsec)	EACH 1-99	EACH 100-999
1N4148	DHD version of 1N914		....	.45	.30
1N4149	DHD version of 1N916		....	.67	.44
1N4150	DHD version of 1N3600		....	3.75	2.50
1N4151	DHD version of 1N3604		....	.83	.56
1N4152	DHD version of 1N3605		....	.72	.48
1N4153	DHD version of 1N3606		....	1.00	.67
1N4154	DHD version of 1N4009		....	.42	.28
1N4156‡	30	10.0, 1.58V	....	.75	.50
1N4157‡	30	10.0, 2.32V	....	1.04	.69
1N4305	DHD version of 1N3063			1.34	.88
1N4444	70	10.0, 0.82V	7.0	1.56	1.04
1N4446	DHD version of 1N914A		....	.50	.33
1N4447	DRD version of 1N916A		....	.75	.50
1N4448	DHD version of 1N914B		....	1.35	.90
1N4449	DHD version of 1N916B		....	.92	.61
1N4450	40	10.0, 0.76V	4	1.48	.97
1N4451	40	10.0, 0.72V	10	1.54	1.03
1N4452	40	100.0, 0.83V	20	1.95	1.30
1N4453‡	30	10.0, 0.80V	....	.54	.36
1N4454	DHD version of 1N3064			.67	.44

SILICON SIGNAL DOUBLE-HEATSINK DIODES (Cont'd)

Type No.	Breakdown Volt. (min.)	Fwd. Current (ma)	Rev. Recovery (nsec)	EACH 1-99	EACH 100-999
1N4606	85	200.0, 1.0V	6	1.32	.88
1N4607	85	350.0, 1.0V	15	1.42	.95
1N4608	85	450.0, 1.0V	15	1.49	.99
1N4727	30	10.0, 0.85V	Qs=40 pC	.42	.28
1N4828‡	30	10.0, 0.83V	....	.45	.30
1N4829‡	30	10.0, 1.61V	....	.69	.46
1N4830‡	30	10.0, 2.35V	....	.93	.62
1N4863	70	10.0, 0.82V	7	.96	.64
1N4864	125	10.0, 0.82V	9	1.35	.90

SILICON SIGNAL DIODES

1N251	40	5.0, 1.0 V	150	.65	.43
1N811	30	1.0, 1.0 V	250	.82	.54
1N812	40	2.0, 1.0 V	250	1.18	.79
1N903	40	10.0, 1.0 V	4.0	1.02	.68
1N903A	40	20.0, 1.0 V	4.0	1.17	.78
1N904	30	10.0, 1.0 V	4.0	.99	.66
1N904A	30	20.0, 1.0 V	4.0	1.14	.76
1N905	20	10.0, 1.1 V	4.0	1.14	.76
1N905A	20	20.0, 1.0 V	4.0	1.55	1.09
1N906	20	10.0, 1.0 V	4.0	.90	.60
1N906A	20	20.0, 1.0 V	4.0	1.13	.75
1N907	30	10.0, 1.0 V	4.0	.89	.59
1N907A	30	20.0, 1.0 V	4.0	1.52	1.01
1N908	40	10.0, 1.0 V	4.0	.87	.58
1N914	100	10.0, 1.0V	4.0	.45	.30
1N914A	100	20.0, 1.0V	4.0	.50	.33
1N914B	100	100.0, 1.0V	4.0	1.35	.90
1N916	100	10.0, 1.0V	4.0	.67	.44
1N916A	100	20.0, 1.0V	4.0	.75	.50
1N916B	100	20.0, 1.0V	4.0	.92	.61
1N917	50	10.0, 1.0V	3.0	2.05	1.37
1N997	40	10.0, 1.0V	150	.98	.65
1N3063	75	10.0, 0.85V	2.0	.67	.44
1N3064	75	20.0, 1.0V	4.0	.67	.44
1N3067	30	5.0, 1.0V	2.0	.83	.56
1N3068	30	5.0, 1.0V	50.0	.62	.41
1N3600	50	200.0, 1.0V	6.0	3.75	2.50
1N3604	75	50.0, 1.0V	2.0	.83	.56
1N3605	40	2.0, 0.7V	2.0	.72	.48
1N3606	75	2.0, .07V	2.0	1.00	.67
1N3873	50	20.0, 0.85V	4.0	1.65	1.10
1N4009	35	30.0, 1.0V	2.0	.42	.28
1N4726	30	10.0, 0.85V	Qs=40 pC	.42	.28
SSD974	2	20.0, 1.0V	6	.30	.20

SILICON SIGNAL MILI-HEATSINK DIODES

Feature small size, no spring. 500 mw power rating.

Type No.	Description	EACH 1-99	EACH 100-999
1N4531	Mili-heatsink version of 1N914	.59	.39
1N4532	Mili-heatsink version of 1N3064	.78	.52
1N4533	Mili-heatsink version of 1N3605	.96	.63
1N4534	Mili-heatsink version of 1N3606	1.20	.80
1N4536	Mili-heatsink version of 1N4009	.59	.39

SILICON SIGNAL DIODES AVAILABLE IN MATCHED PAIRS AND QUADS

#Maximum forward voltage difference between diodes in pairs or quads ($T_A=-50$°C to $+125$°C). *At $I_f=0.1$ to 10 ma; †at $I_F=10$ to 50 ma. §$I_R=5$ μa.

Type No.	Max. V_F (v)	I_R @ 25°C (μa)	Breakdown § (v)	ΔV_F# *mv	ΔV_F# †mv	EACH 1-99	EACH 100-999
1N4306	1.0 @ 100 ma	.05 @ 50V	75	10	20	8.25	5.50
MP-2	1.0 @ 10 ma	.10 @ 30V	40	10	50	7.50	5.00
1N4307	1.0 @ 100 ma	.05 @ 50V	75	10	20	16.50	11 00
MQ-2	1.0 @ 10 ma	.10 @ 30V	40	10	50	15.00	10.00

GERMANIUM TUNNEL DIODES

Type No.	Peak Point Curr. (ma.)	Max. Cap. (pf)	Peak Voltage (mv)	Typ. Res. Cutoff (kmc)	EACH 1-99	EACH 100-999
1N3712	1.0±10%	10	65 Typ.	2.3	3.30	2.20
1N3713	1.0±2.5%	5	65±7	3.2	5.00	3.30
1N3714	2.2±10%	25	65 Typ.	2.2	2.90	1.95
1N3715	2.2±2.5%	10	65±7	3.0	4.60	3.05
1N3716	4.7±10%	50	65 Typ.	1.8	2.25	1.50

See Ordering Information on Facing Page

General Electric Diodes, Sensors and Stacks

SEE PAGE 67 FOR EXPLANATION OF COLUMN HEADINGS

HOW TO ORDER

When ordering, specify Department Number, 49 D 3, then GE type number or JEDEC type number. Example: 49 D 3 1N1693.

TUNNEL DIODES

Germanium, except ‡gallium arsenide.

Type No.	Peak Point Curr.(ma)	Max. Cap. (pf)	Peak Voltage (mv)	Typ. Resistive Cutoff (kmc)	EACH 1-99	EACH 100-999
1N3717	4.7 ± 2.5%	25	65 ± 7	3.4	3.90	2.60
1N3718	10.0 ± 10%	90	65 Typ.	1.6	2.25	1.50
1N3719	10.0 ± 2.5%	50	65 ± 7	2.8	3.90	2.60
1N3720	22.0 ± 10%	150	65 Typ.	1.6	1.60	1.05
1N3721	22.0 ± 2.5%	100	65 ± 7	2.6	3.90	2.60
TD-9	.55 ± 10%	5.0	60 Typ.	1.3	4.00	2.65
1N3118‡	10.0 ± 10%	20	160 Typ.	....	9.15	6.10
TD-251A	2.2 ± 10%	1.0	80 Typ.	....	12.00	8.00
TD-252A	4.7 ± 10%	1.0	90 Typ.	....	12.00	8.00
TD-253A	10 ± 10%	5.0	80 Typ.	....	9.00	6.00
TD-253B	10 ± 10%	2.0	90 Typ.	....	12.00	8.00
TD-254A	22 ± 10%	4.0	100 Typ.	....	12.00	8.00
TD-255A	50 ± 10%	5.0	130 Typ.	....	12.00	8.00
TD-256A	100 ± 10%	6.0	180 Typ.	....	12.00	8.00

GERMANIUM BACK DIODES

*I_{F1} = milliamperes listed below. †Forward voltage at $I_{F2} = 3\ I_{F1}$. #$I_R = I_P$ maximum.

Type No.	FwdCurrent V_{F1}=90 mv ±10 mv*	Fwd Voltage† (mv)	Max. Reverse Peak Pt. (ma)	V_{R1}# (mv)	EACH 1-99	EACH 100-999
BD-1	10.0	120	1.0	440	5.00	3.30
BD-2	5.0	130	0.5	420	5.00	3.30
BD-3	2.0	170	0.2	400	3.00	2.00
BD-4	1.0	170	0.1	380	5.00	3.30
BD-5	0.5	160	0.05	350	10.00	6.65
BD-6	0.2	160	0.02	330	10.00	6.65
BD-7	0.1	160	0.01	300	10.00	6.65
1N4090	2.0	170	0.2	430	3.35	2.20

SEMICONDUCTOR STRAIN AND SHEAR SENSORS

SINGLE-ELEMENT STRAIN SENSOR—ACTIVE LENGTH 0.200″

Type No.	Unstrained Res.(Ohms)	Gage Factors GLL	Gage Factors GLT	EACH 1-24	EACH 25-99	EACH 100-999
4JN101R350	350	+120	−60	26.34	21.06	17.55
4JN102R350	350	+100	−100	26.34	21.06	17.55
STRAIN SENSOR, EPITAXIAL—ACTIVE LENGTH 0.100″						
4JN301R1000	1000	+120	−60	31.59	25.26	21.05
4JN302R1000	1000	+100	−100	31.59	25.26	21.05
4JN303R1000	1000	+100	0	31.59	25.26	21.05
4JN301S1000	1000	+120	−60	6.67	5.33	4.44
4JN302S1000	1000	+100	−100	6.67	5.33	4.44
4JN303S1000	1000	+100	0	6.67	5.33	4.44
DUAL ELEMENT EPITAXIAL SENSOR—ACTIVE LENGTH 0.100″						
4JN304R1000	1000	+120	−60	25.68	42.13	35.11
4JN305R1000	1000	+100	−100	52.68	42.13	35.11
4JN306R1000	1000	+100	0	52.68	42.13	35.11

SILICON BRIDGE RECTIFIER STACKS

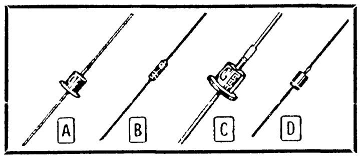
Series 4JA1011. Feature excellent regulation, high efficiency and low leakage. Forward voltage drops less than 1 volt per cell; efficiency is up to 99%. Negligible reverse losses. Oper. temp. range. −65° to +170°C. 35 amp 1-cycle surge rating. *Amp. rating @ 25°C. Compact design; require no fins or insulation. 2-bolt mtg.

Type 4JA1011-	AC V.	DC Output V.	DC Output *Amps	Size	EACH 1-9	EACH 10-Up
AB1AD1	70	60	3.6	2½x1½x3½″	7.00	5.80
AB1AD2	70	60	7.2	2½x1½x5½″	14.00	11.60
AB1AD3	70	60	10.8	2½x1½x7″	21.00	17.40
BB1AD1	140	123	3.6	2½x1½x3½″	7.20	6.00
BB1AD2	140	123	7.2	2½x1½x5½″	14.40	12.00
BB1AD3	140	123	10.8	2½x1½x7″	21.60	18.00
CB1AD1	210	186	3.6	2½x1½x3½″	7.60	6.20
CB1AD2	210	186	7.2	2½x1½x5½″	15.20	12.40
CB1AD3	210	186	10.8	2½x1½x7″	22.80	18.60
DB1AD1	280	250	3.6	2½x1½x3½″	8.40	6.80
DB1AD2	280	250	7.2	2½x1½x5½″	16.80	13.60
EB1AD1	350	312	3.6	2½x1½x3½″	8.40	6.80
MB1AD1	420	376	3.6	2½x1½x3½″	11.20	9.20

GERMANIUM AND SILICON LOW-CURRENT RECTIFIER CELLS

EXPLANATION OF COLUMN HEADINGS

(W)PRV—(working) peak reverse voltage
I_{DC}—DC current
T_j—junction temp.
V_{BO}—breakover v.



[A] GERMANIUM LOW-CURRENT CELLS

JEDEC No.	PRV	Max. I_{DC} @ 55°C Amb.	Max. Full-Load Voltage Drop (Volts)	Max. Oper. °C	EACH 1-99	EACH 100-999
1N93	300	75 ma	.18	95°	2.70	1.80
1N315	300	75 ma	Min. fwd./rev. ratio 700 @ 55°C	85°	3.00	2.00
1N92	200	100 ma	.19	95°	1.95	1.30
1N91	100	150 ma	.22	95°	.90	.60

[B] SILICON SUBMINIATURE GLASS CELLS (LEAD MOUNTED)

JEDEC No.	Repetitive PRV	Transient PRV	Max. I_{DC} @ 25°C	Max. Oper. °C	EACH 1-99	EACH 100-999
1N645	225	275	400 ma	175°	1.40	.93
1N645A	225	275	400 ma	175°	1.65	1.10
1N646	300	360	400 ma	175°	1.65	1.10
1N647	400	480	400 ma	175°	1.80	1.20
1N648	500	600	400 ma	175°	1.95	1.30
1N649	600	720	400 ma	175°	2.50	1.65
1N677	100	120	400 ma	175°	1.05	.70
1N682	300	360	400 ma	175°	1.65	1.10
1N684	400	480	400 ma	175°	1.88	1.25
1N686	500	600	400 ma	175°	2.25	1.50
1N689	600	720	400 ma	175°	2.50	1.65

[C] SILICON LOW-CURRENT CELLS (LEAD MOUNTED)

1N5059/A14 Series similar to Fig. B.

JEDEC or G-E No.	PRV	Max. I_{DC} @ T°C Amb. @ 50°C	Max. Peak 1-Cycle Surge	Max. Oper. °C	EACH 1-99	EACH 100-999
1N560	800	600 ma @ 30°C	15 A	150°	1.80	1.20
1N1692	100	600 ma @ 50°C	20 A	115°	.45	.30
1N1693	200	600 ma @ 50°C	20 A	115°	.48	.32
1N1694	300	600 ma @ 50°C	20 A	115°	.56	.37
1N1695	400	600 ma @ 50°C	20 A	115°	.66	.44
1N1696	500	600 ma @ 50°C	20 A	115°	.72	.48
1N1697	600	600 ma @ 50°C	20 A	115°	.93	.62
1N444B	500	650 ma @ 50°C	15 A	150°	1.05	.70
1N445B	600	650 ma @ 50°C	15 A	150°	1.43	.95
1N440B	100	750 ma @ 50°C	15 A	165°	.66	.44
1N441B	200	750 ma @ 50°C	15 A	165°	.69	.46
1N442B	300	750 ma @ 50°C	15 A	165°	.79	.53
1N443B	400	750 ma @ 50°C	15 A	165°	.98	.65
1N1487	100	750 ma @ 25°C	15 A	140°	.53	.35
1N1488	200	750 ma @ 25°C	15 A	140°	.63	.42
1N1489	300	750 ma @ 25°C	15 A	140°	.66	.44
1N1490	400	750 ma @ 25°C	15 A	140°	.81	.54
1N1491	500	750 ma @ 25°C	15 A	125°	.90	.60
1N1492	600	750 ma @ 25°C	15 A	120°	1.19	.79
1N536	50	750 ma @ 50°C	15 A	165°	.45	.30
1N537	100	750 ma @ 50°C	15 A	165°	.50	.33
1N538	200	750 ma @ 50°C	15 A	165°	.53	.35
1N539	300	750 ma @ 50°C	15 A	165°	.60	.40
1N540	400	750 ma @ 50°C	15 A	165°	.68	.45
1N1095	500	675 ma @ 50°C	15 A	150°	.77	.51
1N1096	600	640 ma @ 50°C	15 A	150°	.96	.64
1N547	600	750 ma @ 50°C	15 A	165°	.96	.64
A10A	100	1.5 A @ 25°C	45 A	165°	.51	.34
A10B	200	1.5 A @ 25°C	45 A	165°	.53	.35
A10C	300	1.5 A @ 25°C	45 A	165°	.66	.44
A10D	400	1.5 A @ 25°C	45 A	165°	.77	.51
A10E	500	1.5 A @ 25°C	45 A	165°	.87	.58
A10M	600	1.5 A @ 25°C	45 A	165°	1.04	.69
A10N	800	1.5 A @ 25°C	45 A	165°	1.80	1.20
1N5059	200	1.5 A @ 50°C	50 A	175°	.46	.31
A14C	300	1.5 A @ 50°C	50 A	175°	.54	.36
1N5060	400	1.5 A @ 50°C	50 A	175°	.56	.37
A14E	500	1.5 A @ 50°C	50 A	175°	.68	.45
1N5061	600	1.5 A @ 50°C	50 A	175°	.75	.50
1N5062	800	1.5 A @ 50°C	50 A	175°	1.12	.75

General Electric Diodes and Rectifiers

SEE PAGE 67 FOR EXPLANATION OF COLUMN HEADINGS, PAGE 69 FOR ILLUSTRATIONS

D SILICON LOW-CURRENT CELLS—(FLANGELESS)

JEDEC No.	PRV	Max. I_{DC} @ 25°C Amb.	Max. Peak 1-Cycle Surge	Max. Oper. °C	EACH 1-99	EACH 100-999
1N2610	100	850 ma	30 A	175°	1.02	.68
1N2611	200	850 ma	30 A	175°	1.14	.76
1N2612	300	850 ma	30 A	175°	1.52	1.01
1N2613	400	850 ma	30 A	175°	1.71	1.14
1N2614	500	850 ma	30 A	175°	1.92	1.28
1N2615	600	850 ma	30 A	175°	2.30	1.53
1N2616	800	850 ma	30 A	175°	3.38	2.25
1N2617	1000	850 ma	30 A	175°	5.25	3.50
1N3639	200	750 ma	40 A	100°	.57	.38
1N3640	400	750 ma	40 A	100°	.72	.48
1N3641	600	750 ma	40 A	100°	1.05	.70
1N3642	800	500 ma	40 A	100°	1.46	.97
1N3189	200	1 A @ 100°C	30 A	175°	2.70	1.80
1N3190	400	1 A @ 100°C	30 A	175°	3.75	2.50
1N3191	600	1 A @ 100°C	30 A	175°	6.00	4.00

SILICON LOW-CURRENT CELLS—(STUD MOUNTED)

JEDEC No.	PRV	Max. I_{DC} @ T°C	Max. Oper. °C	EACH 1-99	EACH 100-999
1N1115	100	1.5A @ 85° Case	170°	1.05	.70
1N1116	200	1.5A @ 85° Case	170°	1.12	.75
1N1117	300	1.5A @ 85° Case	170°	1.43	.95
1N1118	400	1.5A @ 85° Case	170°	1.73	1.15
1N1119	500	1.3A @ 85° Case	155°	1.80	1.20
1N1120	600	1.3A @ 85° Case	155°	2.40	1.60
1N1124A	200	3.3A @ 50° Amb.	150°	1.86	1.24
1N1125A	300	3.3A @ 50° Amb.	150°	2.27	1.51
1N1126A	400	3.3A @ 50° Amb.	150°	3.45	2.30
1N1127A	500	3.3A @ 50° Amb.	150°	4.43	2.95
1N1128A	600	3.3A @ 50° Amb.	150°	5.20	3.47

SILICON MEDIUM-CURRENT CELLS—(STUD MOUNTED)

†No stud; solid term. Others stud mt., solid terminals.

JEDEC or G-E No.	Repetitive PRV	Transient PRV	Max. I_{DC} @ Stud T°C Single-Phase	Max. Peak 1-Cycle Surge	EACH 1-99	EACH 100-999
1N3569	100	150	3.5A @ 85°C	35A	1.34	.89
1N3570	200	275	3.5A @ 85°C	35A	1.62	1.08
1N3571	300	400	3.5A @ 85°C	35A	2.10	1.40
1N3572	400	525	3.5A @ 85°C	35A	2.55	1.70
1N3573	500	650	3.5A @ 85°C	35A	3.82	2.55
1N3574	600	775	3.5A @ 85°C	35A	5.50	3.65
1N1612	50	100	5A @ 150°C	150A	1.08	.72
1N1613	100	200	5A @ 150°C	150A	1.25	.83
1N1614	200	350	5A @ 150°C	150A	1.91	1.27
1N1615	400	600	5A @ 150°C	150A	3.75	2.50
1N1616	600	800	5A @ 150°C	150A	5.55	3.70
1N1341A	50	100	6A @ 145°C	150A	1.13	.75
1N1342A	100	200	6A @ 145°C	150A	1.28	.85
1N1343A	150	300	6A @ 145°C	150A	1.64	1.09
1N1344A	200	350	6A @ 145°C	150A	2.22	1.48
1N1345A	300	450	6A @ 145°C	150A	3.17	2.11
1N1346A	400	600	6A @ 145°C	150A	4.11	2.74
1N1347A	500	700	6A @ 145°C	150A	4.97	3.31
1N1348A	600	800	6A @ 145°C	150A	5.93	3.95
1N1199A	50	100	12A @ 145°C	240A	1.25	.83
1N1200A	100	200	12A @ 145°C	240A	1.41	.94
1N1201A	150	300	12A @ 145°C	240A	1.82	1.21
1N1202A	200	350	12A @ 145°C	240A	2.63	1.75
1N1203A	300	450	12A @ 145°C	240A	3.60	2.40
1N1204A	400	600	12A @ 145°C	240A	4.58	3.05
1N1205A	500	700	12A @ 145°C	240A	5.33	3.55
1N1206A	600	800	12A @ 145°C	240A	6.38	4.25
1N3670A	700	900	12A @ 150°C	240A	9.06	6.04
1N3671A	800	1000	12A @ 150°C	240A	9.50	6.34
1N3672A	900	1100	12A @ 150°C	240A	9.88	6.59
1N3673A	1000	1200	12A @ 150°C	240A	10.20	6.80
1N3208	50	50	15A @ 150°C	250A	1.73	1.15
1N3209	100	100	15A @ 150°C	250A	1.77	1.18
1N3210	200	200	15A @ 150°C	250A	1.82	1.21
1N3211	300	300	15A @ 150°C	250A	2.40	1.60
1N3212	400	400	15A @ 150°C	250A	2.90	1.93
1N3213	500	500	15A @ 150°C	250A	3.53	2.35
1N3214	600	600	15A @ 150°C	250A	4.20	2.80
A40F	50	50	20A @ 110°C	300A	1.73	1.15
A40A	100	100	20A @ 110°C	300A	1.77	1.18
A40B	200	200	20A @ 110°C	300A	1.82	1.21
A40C	300	300	20A @ 110°C	300A	2.40	1.60
A40D	400	400	20A @ 110°C	300A	2.90	1.93
A40E	500	500	20A @ 110°C	300A	3.53	2.35
A40M	600	600	20A @ 110°C	300A	4.20	2.80
A44F†	50	50	20A @ 110°C	300A	1.05	.70
A44A†	100	100	20A @ 110°C	300A	1.10	.73
A44B†	200	200	20A @ 110°C	300A	1.16	.77

SILICON MEDIUM-CURRENT CELLS (Cont'd)

JEDEC or G-E No.	Repetitive PRV	Transient PRV	Max. I_{DC} @ Stud °C Single-Phase	Max. Peak 1-Cycle Surge	EACH 1-99	EACH 100-999
A44C†	300	300	20A @ 110°C	300A	1.28	.85
A44D†	400	400	20A @ 110°C	300A	1.49	.99
A44E†	500	500	20A @ 110°C	300A	2.40	1.60
A44M†	600	600	20A @ 110°C	300A	3.00	2.00
1N250C	220	....	20A @ 145°C	350A	2.78	1.85
1N1195A	300	....	20A @ 145°C	350A	4.02	2.68
1N1196A	400	....	20A @ 145°C	350A	4.95	3.30
1N1197A	500	....	20A @ 145°C	350A	6.15	4.10
1N1198A	600	....	20A @ 145°C	350A	7.50	5.00
1N2154	50	100	25A @ 110°C	400A	2.39	1.59
1N2155	100	200	25A @ 110°C	400A	3.00	2.00
1N2156	200	350	25A @ 110°C	400A	4.38	2.92
1N2157	300	450	25A @ 110°C	400A	5.25	3.50
1N2158	400	600	25A @ 110°C	400A	5.92	3.95
1N2159	500	700	25A @ 110°C	400A	6.15	4.10
1N2160	600	800	25A @ 110°C	400A	6.30	4.20
1N1183	50	....	35A @ 140°C	500A	1.95	1.30
1N1184	100	....	35A @ 140°C	500A	2.40	1.60
1N1185	150	....	35A @ 140°C	500A	2.93	1.95
1N1186	200	....	35A @ 140°C	500A	3.45	2.30
1N1187	300	....	35A @ 140°C	500A	5.13	3.42
1N1188	400	....	35A @ 140°C	500A	5.85	3.90
1N1189	500	....	35A @ 140°C	500A	6.45	4.30
1N1190	600	....	35A @ 140°C	500A	6.90	4.60
1N3765	700	....	35A @ 140°C	500A	10.95	7.30
1N3766	800	....	35A @ 140°C	500A	11.70	7.80
1N3767	900	....	35A @ 140°C	500A	12.30	8.20
1N3768	1000	....	35A @ 140°C	500A	12.90	8.60

1-WATT AVALANCHE ZENER DIODES

All tests at 25°C. Operating junction temperature, —65° to +165°C V_Z tolerance ±10% except Z4XL series, ±20%. For ±10% tolerance on Z4XL series, add Suffix B to TypeNo. Price of Z4XL Series ±10% Tol.; 1-99............Each .84 100-999............Each .56

Type No.	V_Z (v)	@ I_{ZT} (ma)	Z_{ZT} @ I_{ZT} (ohms)	Typ. ΔV_Z (v)	Max. I_{ZM} @T_A=50°C (ma)	EACH 1-99	EACH 100-999
Z4X5.1B	5.1	100	7.0	0.11	160	2.40	1.60
1N1765	5.6	100	1.2	0.14	150	2.40	1.60
1N1766	6.2	100	1.5	0.16	130	2.40	1.60
1N1767	6.8	100	1.7	0.20	120	2.40	1.60
1N1768	7.5	100	2.1	0.24	109	2.40	1.60
1N1769	8.2	100	2.4	0.28	100	3.00	2.00
1N1770	9.1	50	3.0	0.34	90	3.00	2.00
1N1771	10.0	50	3.5	0.41	82	3.00	2.00
1N1772	11.0	50	4.2	0.48	74	3.00	2.00
1N1773	12.0	50	5.0	0.57	68	3.00	2.00
1N1774	13.0	50	5.8	0.66	63	3.00	2.00
1N1775	15.0	50	7.6	0.86	54	3.00	2.00
1N1776	16.0	50	8.6	0.97	51	3.00	2.00
Z4XL6.2	6.2	20	9	....	123	.75	.50
Z4XL7.5	7.5	20	12	....	101	.75	.50
Z4XL9.1	9.1	20	15	....	83	.75	.50
Z4XL12	12.0	20	24	....	63	.75	.50
Z4XL14	14.0	20	30	....	54	.75	.50
Z4XL16	16.0	20	40	....	47	.75	.50
Z4XL18	18.0	20	50	....	43	.75	.50
Z4XL20	20.0	20	60	....	38	.75	.50
Z4XL22	22.0	20	72	....	34	.75	.50
Z4XL24	24.0	20	82	....	30	.75	.50

SILICON MEDIUM CURRENT—FAST RECOVERY

200 nanoseconds maximum recovery time except §3 microseconds max. recovery time.

JEDEC or G-E No.	Repetitive PRV	Transient PRV	Max. I_{DC} @ Stud °C Single-Phase	Max. Peak 1-Cycle Surge	EACH 1-99	EACH 100-999
1N3958§	100	150	3.5A @ 85°C	35A	1.49	.99
1N3959§	200	275	3.5A @ 85°C	35A	1.80	1.20
1N3960§	300	400	3.5A @ 85°C	35A	2.33	1.55
1N3961§	400	525	3.5A @ 85°C	35A	2.85	1.90
1N3962§	500	650	3.5A @ 85°C	35A	4.28	2.85
1N3963§	600	775	3.5A @ 85°C	35A	6.15	4.10
1N3879	50	......	6A @ 100°C	75A	5.25	3.50
1N3880	100	......	6A @ 100°C	75A	5.77	3.85
1N3881	200	......	6A @ 100°C	75A	8.25	5.50
1N3882	300	......	6A @ 100°C	75A	12.38	8.25
1N3883	400	......	6A @ 100°C	75A	15.00	10.00
1N3889	50	......	12A @ 100°C	150A	6.30	4.20
1N3890	100	......	12A @ 100°C	150A	6.75	4.50
1N3891	200	......	12A @ 100°C	150A	9.75	6.50
1N3892	300	......	12A @ 100°C	150A	14.65	9.75
1N3893	400	......	12A @ 100°C	150A	17.60	11.75

General Electric Semiconductors

HOW TO ORDER

When ordering, specify Department Number, 49 D 3, then add GE type number or JEDEC type number. Example: 49 D 3 1N3909.

SILICON MEDIUM CURRENT—FAST RECOVERY (cont'd)

‡200 nanoseconds max. recovery time. #100 nanoseconds max. recovery time.

JEDEC or G-E No.	Repetitive PRV	Transient PRV	Max. IDC @ Stud °C Single-Phase	Max. Peak 1-Cycle Surge	EACH 1-99	100-999
A28F#	50	......	12A @ 135°C	240A	8.25	5.50
A28A#	100	......	12A @ 135°C	240A	9.00	6.00
A28B#	200	......	12A @ 135°C	240A	12.75	8.50
A28C#	300	......	12A @ 135°C	240A	19.25	12.85
A28D#	400	......	12A @ 135°C	240A	23.40	15.60
1N3899‡	50	......	20A @ 100°C	225A	18.00	12.00
1N3900‡	100	......	20A @ 100°C	225A	22.40	14.95
1N3901‡	200	......	20A @ 100°C	225A	27.90	18.60
1N3902‡	300	......	20A @ 100°C	225A	31.90	21.25
1N3903‡	400	......	20A @ 100°C	225A	36.00	24.00
1N3909‡	50	......	30A @ 100°C	300A	29.30	19.50
1N3910‡	100	......	30A @ 100°C	300A	39.00	25.95
1N3911‡	200	......	30A @ 100°C	300A	47.50	31.60
1N3912‡	300	......	30A @ 100°C	300A	53.80	35.90
1N3913‡	400	......	30A @ 100°C	300A	60.00	40.00

SILICON 100 AND 250-AMP CELLS—STUD MOUNT

*Stud mount, flexible terminal.

JEDEC No.	G-E Type No.	Repetitive PRV	Transient PRV	Max. IDC Stud Single Phase Av.	EACH 1-24	25-99
1N3736*	A90B	200	300	250A @ 130°C	29.40	22.60
1N3737*	A90C	300	400	250A @ 130°C	34.20	26.30
1N3738*	A90D	400	525	250A @ 130°C	37.00	28.40
1N3739*	A90E	500	650	250A @ 130°C	46.60	35.90
1N3740*	A90M	600	800	250A @ 130°C	55.50	42.60
1N3741*	A90N	800	1050	250A @ 130°C	70.00	55.00
1N3742*	A90P	1000	1300	250A @ 130°C	84.00	66.00
....	A90PB	1200	1400	250A @ 130°C	97.00	77.00

JEDEC No.	G-E Type No.	Repetitive PRV	Transient PRV	Max. IDC Stud Single Phase Av.	EACH 1-99	100-499
1N3289*	A70B	200	300	100A @ 130°C	12.95	10.15
1N3290*	A70C	300	400	100A @ 130°C	14.15	10.80
1N3291*	A70D	400	500	100A @ 130°C	15.40	11.90
1N3292*	A70E	500	600	100A @ 130°C	17.10	13.20
1N3293*	A70M	600	700	100A @ 130°C	20.10	15.50
1N3294*	A70N	800	1050	100A @ 130°C	25.40	19.50
1N3295*	A70P	1000	1300	100A @ 130°C	30.20	23.20
1N3296*	A70PB	1200	1500	100A @ 130°C	34.50	26.40

CASE G LOW-CURRENT CONTROLLED AVALANCHE

Type No.	WPRV	Min. Avalanche V. @ 25° C	Max. IDC	Peak Trans. Rev. Surge 10 μsec	EACH 1-99	100-999
A7B	200	300 @ 50 μa	500 ma @ 50° C Amb.	310 w.	1.95	1.30
A7D	400	500 @ 50 μa	500 ma @ 50° C Amb.	310 w.	1.95	1.30
A7E	500	600 @ 50 μa	500 ma @ 50° C Amb.	310 w.	1.95	1.30

MEDIUM-CURRENT CONTROLLED AVALANCHE

Case configuration, §DO-4; ††DO-5.

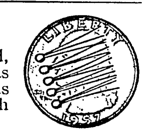
1N4506	200	250 @ 5 ma	12 A @ 135° C Case§	3900 w.	5.10	3.40
1N4507	400	500 @ 5 ma	12 A @ 135° C Case§	3900 w.	6.90	4.60
1N4508	600	750 @ 5 ma	12 A @ 135° C Case§	3900 w.	9.18	6.12
1N4509	800	1000 @ 5 ma	12 A @ 135° C Case§	3900 w.	10.20	6.80
1N4510	1000	1250 @ 5 ma	12 A @ 135° C Case§	3900 w.	10.20	6.80
1N4511	1200	1500 @ 5 ma	12 A @ 135° C Case§	3900 w.	14.40	9.60
1N4525	200	250 @ 5 ma	35 A @ 115° C Case††	12,000 w.	6.45	4.30
1N4526	400	500 @ 5 ma	35 A @ 115° C Case††	12,000 w.	8.78	5.85
1N4527	600	750 @ 5 ma	35 A @ 115° C Case††	12,000 w.	10.70	6.90
1N4528	800	1000 @ 5 ma	35 A @ 115° C Case††	12,000 w.	12.30	8.20
1N4529	1000	1250 @ 5 ma	35 A @ 115° C Case††	12,000 w.	13.50	9.00
1N4530	1200	1500 @ 5 ma	35 A @ 115° C Case††	12,000 w.	17.25	11.50

HI-VOLTAGE CONTROLLED AVALANCHE

Series-connected diodes in potted assemblies. Operating temp., −65°C to +150°C. Case type, DO5.

Type No.	WPRV (V)	Avalanche V. @ 25°C Min. @ 50 μa.	Max. @ 500 μa.	Max IDC @ 25°C amb. ma.	EACH 1-9	10-29
1N1730	1000	1200	1700	200	4.48	3.68
1N1731	1500	1800	2550	200	6.30	5.18
1N1732	2000	2400	3400	200	8.12	6.67
1N1733	3000	3600	5100	150	11.76	9.66
1N2382	4000	4800	6800	150	11.00	9.90
1N1734	5000	6000	8500	100	19.04	15.64
1N2385	10,000	12,000	17,000	70	26.60	23.94

MICROTAB TRANSISTORS



New Microtab Transistors are extremely small, (.070x.070x.085″) yet give the same performance as their larger counterparts. Ideal for applications where microminiature transistors are needed, such as instrumentation or hybrid circuits.

Type No.	hFE Min./Max.	Equivalent To	EACH 1-99	100-999
D26E-1	100/300 @ 10 μa	2N930	3.60	2.40
D26E-2	40/90 @ 100 μa	2N929	2.30	1.20
D26E-3	70/145 @ 100 μa	2N2483	2.20	1.45
D26E-5	180/330 @ 100 μa	2N2484	2.95	1.95
D26E-6	40/330 @ 100 μa	......	1.55	1.05
D26G-1	6 @ 100 μa	2N918	3.25	2.17

THYRECTOR DIODES.

Use as transient voltage suppressors for connection across AC input of rectifiers. Gives instant response and high dissipation. Temperature-stable. Maximum operating temp., 100° C. Sizes; 6RS21, 1″ sq.; 6RS20, 37/64″ dia. **RMS input.

Type No.	V**	1-49 EA.	50-999, EA.
6RS21SA1D1	25	1.87	1.33
6RS21SA2D2	50	2.00	1.45
6RS21SA3D3	75	2.20	1.63
6RS21SA4D4	100	2.38	1.70
6RS21SA5D5	125	2.55	1.85
6RS21SA6D6	150	2.75	1.97
6RS21SA7D7	175	2.90	2.10
6RS21SA8D8	200	3.10	2.25
6RS21SA9D9	225	3.30	2.40

Type No.	V**	1-49, EA.	50-999, EA.
6RS21SA10D10	250	3.47	2.55
6RS21SA11D11	275	3.65	2.70
6RS21SA12D12	300	3.85	2.88
6RS21SA14D14	350	4.20	3.23
6RS21SA16D16	400	4.55	3.60
6RS21SA18D18	450	4.90	3.95
6RS21SA19D19	475	5.10	4.15
6RS21SA20D20	500	5.25	4.30
6RS20SP1B1	30	.69	.52

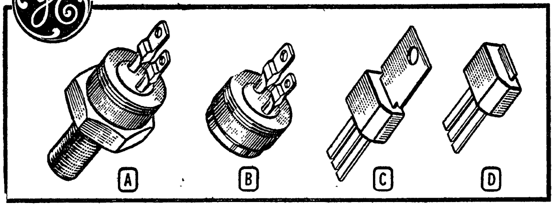
Type No.	V**	EACH 1-49	50-999
6RS20SP2B2	60	.80	.60
6RS20SP3B3	90	.91	.69
6RS20SP4B4	120	1.03	.78
6RS20SP5B5	150	1.15	.87
6RS20SP6B6	180	1.26	.95
6RS20SP7B7	210	1.38	1.04
6RS20SP8B8	240	1.50	1.13
6RS20SP9B9	270	1.62	1.22
6RS20SP10B10	300	1.73	1.31

SELENIUM RECTIFIERS

The new Universal Selenium Stack Line ("U Line") includes direct replacements for most selenium rectifiers, regardless of manufacturer. †Indicates voltage with capacitive loading.

Type No.	Output DC Volts	DC Amp	Max. Input AC Volts	EACH 1-9	10-99
U130H0.065	0-150†	.065	130†	.30	.23
U130H0.075	0-150†	.075	130†	.45	.37
U130H0.15	0-150†	.150	130†	.60	.47
U130H0.5	0-150†	.500	130†	.95	.77
U18C1.5	0-14	1.5	18†	1.40	1.12
U18C5	0-14	5.0	18†	3.45	2.76
U18C10	0-14	10.0	18†	4.85	3.88
U18C0.5	0-14	.5	18†	.95	.75
U18C20	0-14	20.0		7.45	5.97
U144B0.5	0-116	.5	144	5.50	4.45
U144B1.5	0-116	1.5	144	8.10	6.50

General Electric Silicon Rectifiers



HOW TO ORDER

When ordering, specify Department Number, 49 D 3, then add GE type number or JEDEC type number. Example: 49 D 3 2N2439.

LOW-CURRENT SILICON CONTROLLED RECTIFIERS

Gate Signal at 25°C, except: *125°C; †100°C.

Type No.	Fig./ Case	PRV and V_{BO} (v)	Max. I_{DC} (amp) @ Temp. °C	Max. Required Gate Signal	EACH 1-99	EACH 100-999
2N877	TO-18	30	.23A @ 25°C amb.	0.8V, 200 μa	7.55	5.05
2N878	TO-18	60	.23A @ 25°C amb.	0.8V, 200 μa	8.85	5.90
2N879	TO-18	100	.23A @ 25°C amb.	0.8V, 200 μa	11.10	7.40
2N880	TO-18	150	.23A @ 25°C amb.	0.8V, 200 μa	15.00	10.00
2N881	TO-18	200	.23A @ 25°C amb.	0.8V, 200 μa	19.15	12.75
2N885	TO-18	30	.23A @ 25°C amb.	0.6V, 20 μa	9.00	6.00
2N886	TO-18	60	.23A @ 25°C amb.	0.6V, 20 μa	11.00	7.30
2N887	TO-18	100	.23A @ 25°C amb.	0.6V, 20 μa	13.35	8.90
2N888	TO-18	150	.23A @ 25°C amb.	0.6V, 20 μa	19.15	12.75
2N889	TO-18	200	.23A @ 25°C amb.	0.6V, 20 μa	22.50	15.00
2N2344	TO-5	25	.6A @ 87°C case	0.8V, 20 μa	7.95	5.30
2N2345	TO-5	50	.6A @ 87°C case	0.8V, 20 μa	9.15	6.10
2N2346	TO-5	100	.6A @ 87°C case	0.8V, 20 μa	13.35	8.90
2N2347	TO-5	150	.6A @ 87°C case	0.8V, 20 μa	15.45	10.30
2N2348	TO-5	200	.6A @ 87°C case	0.8V, 20 μa	18.90	12.60
2N2322	TO-5	25	1.6A @ 87°C case	0.8V, 020 μa	3.00	2.00
2N2323	TO-5	50	1.6A @ 87°C case	0.8V, 200 μa	3.30	2.20
2N2324	TO-5	100	1.6A @ 87°C case	0.8V, 200 μa	5.40	3.60
2N2325	TO-5	150	1.6A @ 87°C case	0.8V, 200 μa	7.95	5.30
2N2326	TO-5	200	1.6A @ 87°C case	0.8V, 200 μa	10.35	6.90
2N2327	TO-5	250	1.6A @ 87°C case	0.8V, 200 μa	12.95	8.65
2N2328	TO-5	300	1.6A @ 87°C case	0.8V, 200 μa	16.00	10.65
2N2329	TO-5	400	1.6A @ 87°C case	0.8V, 200 μa	21.20	14.15
2N2322A	TO-5	25	1.6A @ 87°C case	0.6V, 20 μa	3.60	2.40
2N2323A	TO-5	50	1.6A @ 87°C case	0.6V, 20 μa	4.00	2.65
2N2324A	TO-5	100	1.6A @ 87°C case	0.6V, 20 μa	6.60	4.40
2N2325A	TO-5	150	1.6A @ 87°C case	0.6V, 20 μa	9.60	6.40
2N2326A	TO-5	200	1.6A @ 87°C case	0.6V, 20 μa	12.40	8.25
2N2327A	TO-5	250	1.6A @ 87°C case	0.6V, 20 μa	15.75	10.50
2N2328A	TO-5	300	1.6A @ 87°C case	0.6V, 20 μa	19.35	12.90
C106Y1	C	30	2.0A @ 75°C anode tab	0.8V, 200 μa	1.05	.70
C106F1	C	50		0.8V, 200 μa	1.20	.80
C106A1	C	100		0.8V, 200 μa	1.35	.90
C106G1	C	150		0.8V, 200 μa	1.44	.96
C106B1	C	200		0.8V, 200 μa	1.50	1.00
C106Y2	D	30	2.0A @ 40°C anode lead	0.8V, 200 μa	1.05	.70
C106F2	D	50		0.8V, 200 μa	1.20	.80
C106A2	D	100		0.8V, 200 μa	1.35	.90
C106G2	D	150		0.8V, 200 μa	1.44	.96
C106B2	D	200		0.8V, 200 μa	1.50	1.00
C511U	TO-5	25	1.6A @ 104°C case	0.8V, 200 μa	4.28	2.85
C511F	TO-5	50	1.6A @ 104°C case	0.8V, 200 μa	4.58	3.05
C511A	TO-5	100	1.6A @ 104°C case	0.8V, 200 μa	6.75	4.50
C511G	TO-5	150	1.6A @ 104°C case	0.8V, 200 μa	9.20	6.15
C511B	TO-5	200	1.6A @ 104°C case	0.8V, 200 μa	11.60	7.75
C511H	TO-5	250	1.6A @ 104°C case	0.8V, 200 μa	14.25	9.50
C511C	TO-5	300	1.6A @ 104°C case	0.8V, 200 μa	17.25	11.50
C511D	TO-5	400	1.6A @ 104°C case	0.8V, 200 μa	22.60	15.05
C6U	TO-5	25	.6A @ 25°C amb.	0.8V, 1.0 ma	1.57	1.05
C6F	TO-5	50	.6A @ 25°C amb.	0.8V, 1.0 ma	1.65	1.10
C6A	TO-5	100	.6A @ 25°C amb.	0.8V, 1.0 ma	1.87	1.25
C6G	TO-5	150	.6A @ 25°C amb.	0.8V, 1.0 ma	1.98	1.32
C6B	TO-5	200	.6A @ 25°C amb.	0.8V, 1.0 ma.	2.07	1.38
C611U	TO-5	25	1.6A @ 104°C case	0.8V, 1.0 ma	2.10	1.40
C611F	TO-5	50	1.6A @ 104°C case	0.8V, 1.0 ma	2.20	1.45
C611A	TO-5	100	1.6A @ 104°C case	0.8V, 1.0 ma	2.40	1.60
C611G	TO-5	150	1.6A @ 104°C case	0.8V, 1.0 ma	2.50	1.67
C611B	TO-5	200	1.6A @ 104°C case	0.8V, 1.0 ma	2.60	1.73
2N1595	TO-5	50	1.6A @ 87°C case	3V, 10 ma	3.00	2.00
2N1596	TO-5	100	1.6A @ 87°C case	3V, 10 ma	4.60	3.05
2N1597	TO-5	200	1.6A @ 87°C case	3V, 10 ma	9.35	6.25
2N1598	TO-5	300	1.6A @ 87°C case	3V, 10 ma	14.50	9.65
2N1599	TO-5	400	1.6A @ 87°C case	3V, 10 ma	19.35	12.90
2N1929	Lead Mtd.	25	1.1A @ 25°C amb.	2V, 8 ma*	6.15	4.10
2N1930		50	1.1A @ 25°C amb.	2V, 8 ma*	7.65	5.10
2N1931	Lead Mtd.	100	1.1A @ 25°C amb.	2V, 8 ma*	10.70	7.10
2N1932		150	1.1A @ 25°C amb.	2V, 8 ma*	13.20	8.80
2N1933		300	1.1A @ 25°C amb.	2V, 8 ma*	15.00	10.00
C15F	TO-64	50	7A @ 75°C stud	2.5V, 25 ma	1.88	1.25
C15A	TO-64	100	7A @ 75°C stud	2.5V, 25 ma	2.10	1.40
C15G	TO-64	150	8A @ 63°C case	2.5V, 25 ma	2.14	1.45
C15B	TO-64	200	8A @ 63°C case	2.5V, 25 ma	3.75	2.50
C15C	TO-64	300	8A @ 63°C case	2.5V, 25 ma	6.75	4.50
C15D	TO-64	400	8A @ 63°C case	2.5V, 25 ma	9.75	6.50

LOW-CURRENT SILICON CONTROLLED RECTIFIERS (Cont'd)

Type No.	Fig./ case	PRV and V_{BO} (v)	Max. I_{DC}(amp) @ Temp. °C	Max. Required Gate Signal	EACH 1-99	EACH 100-999
C15E	TO-64	500	8A @ 63°C case	2.5V, 25 ma	15.00	10.00
C15M	TO-64	500	8A @ 63°C case	2.5V, 25 ma	19.50	13.00
C20U	A	25	7.4A @ 80°C case	1.5V, 25 ma	1.71	1.14
C20F	A	50	7.4A @ 80°C case	1.5V, 25 ma	1.77	1.18
C20A	A	100	7.4A @ 80°C case	1.5V, 25 ma	1.92	1.28
C20B	A	200	7.4A @ 80°C case	1.5V, 25 ma	1.98	1.32
C20C	B	300	7.4A @ 80°C case	1.5V, 25 ma	2.64	1.76
C20D	B	400	7.4A @ 80°C case	1.5V, 25 ma	3.00	2.00
C22U	B	25	7.4A @ 80°C case	1.5V, 25 ma	1.41	.94
C22F	B	50	7.4A @ 80°C case	1.5V, 25 ma	1.47	.98
C22A	B	100	7.4A @ 80°C case	1.5V, 25 ma	1.62	1.08
C22B	TO-64	200	7.4A @ 80°C case	1.5V, 25 ma	1.68	1.12
C22C	TO-64	300	7.4A @ 80°C case	1.5V, 25 ma	2.34	1.56
C22D	TO-64	400	7.4A @ 80°C case	1.5V, 25 ma	2.70	1.80
2N1770A	TO-64	25	7.4A @ 115°C case	2V, 15 ma	6.15	4.10
2N1771A	TO-64	50	7.4A @ 115°C case	2V, 15 ma	7.00	4.65
2N1772A	TO-64	100	7.4A @ 115°C case	2V, 15 ma	9.00	6.00
2N1773A	TO-64	150	7.4A @ 115°C case	2V, 15 ma	11.10	7.40
2N1774A	TO-64	200	7.4A @ 115°C case	2V, 15 ma	13.50	9.00
2N1775A	TO-64	250	7.4A @ 115°C case	2V, 15 ma	15.75	10.50
2N1776A	TO-64	300	7.4A @ 115°C case	2V, 15 ma	18.40	12.25
2N1777A	TO-64	400	7.4A @ 115°C case	2V, 15 ma	23.65	15.75
2N1770	TO-64	25	6A @ 70°C case	2V, 15 ma	4.05	2.70
2N1771	TO-64	50	6A @ 70°C case	2V, 15 ma	4.65	3.10
2N1772	TO-64	100	6A @ 70°C case	2V, 15 ma	5.77	3.85
2N1773	TO-64	150	6A @ 70°C case	2V, 15 ma	6.97	4.65
2N1774	TO-64	200	6A @ 70°C case	2V, 15 ma	8.17	5.45
2N1775	TO-64	250	6A @ 70°C case	2V, 15 ma	9.37	6.25
2N1776	TO-64	300	6A @ 70°C case	2V, 15 ma	10.65	7.10
2N1777	TO-64	400	6A @ 70°C case	2V, 15 ma	12.45	8.30
2N1778	TO-64	500	6A @ 70°C case	2V, 15 ma	18.20	12.10
2N2619	TO-64	600	6A @ 70°C case	2V, 15 ma	21.35	14.20
C12U	TO-64	25	Ratings and characteristics same as 2N1770-1777, except turn-off time is under 12 microseconds. Designed specifically for fast turn-off time for inverter applications.		6.15	4.10
C12F	TO-64	50			6.60	4.40
C12A	TO-64	100			8.40	5.60
C12B	TO-64	200			13.95	9.30
C12C	TO-64	300	6A @ 70°C stud	2V, 15 ma	20.25	13.50
C12D	TO-64	400	6A @ 70°C stud	2V, 15 ma	30.00	20.00

MEDIUM-CURRENT CONTROLLED RECTIFIERS

Type No.	Fig./ case	PRV and V_{BO} (v)	Max. I_{DC}(amp) @ Temp. °C	Max. Required Gate Signal	EACH 1-99	EACH 100-999
C37F	TO-48	50	16A @ 60°C stud	3.5V, 80 ma	4.10	2.75
C37A	TO-48	100	16A @ 60°C stud	3.5V, 80 ma	4.95	3.30
C37B	TO-48	200	16A @ 60°C stud	3.5V, 80 ma	5.75	3.85
C37C	TO-48	300	16A @ 60°C stud	3.5V, 80 ma	8.50	5.65
C37D	TO-48	400	16A @ 60°C stud	3.5V, 80 ma	12.25	8.15
C37E	TO-48	500	25A @ 27°C case	3.5V, 80 ma	15.00	10.00
C37M	TO-48	600	25A @ 27°C case	3.5V, 80 ma	18.00	12.00
C37S	TO-48	700	25A @ 27°C case	3.5V, 80 ma	21.00	14.00
C37N	TO-48	800	25A @ 27°C case	3.5V, 80 ma	24.00	16.00
2N1842A	TO-48	25	25A @ 40°C stud	3.5V, 50 ma†	5.55	3.75
2N1843A	TO-48	50	25A @ 40°C stud	3.5V, 50 ma†	6.15	4.10
2N1844A	TO-48	100	25A @ 40°C stud	3.5V, 50 ma†	6.90	4.60
2N1845A	TO-48	150	25A @ 40°C stud	3.5V, 50 ma†	8.10	5.40
2N1846A	TO-48	200	25A @ 40°C stud	3.5V, 50 ma†	9.50	6.35
2N1847A	TO-48	250	25A @ 40°C stud	3.5V, 50 ma†	10.65	7.10
2N1848A	TO-48	300	25A @ 40°C stud	3.5V, 50 ma†	12.70	8.45
2N1849A	TO-48	400	25A @ 40°C stud	3.5V, 50 ma†	15.60	10.40
2N1850A	TO-48	500	25A @ 40°C stud	3.5V, 50 ma†	18.40	12.25
C36M	TO-48	600	16A @ 25°C stud	3.5V, 50 ma†	20.60	13.75
C36S	TO-48	700	16A @ 25°C stud	3.5V, 50 ma†	25.20	16.95
C30U	A	25	25A @ 70°C case	1.5V, 25 ma	3.75	2.50
C30F	A	50	25A @ 70°C case	1.5V, 25 ma	4.10	2.75
C30A	A	100	25A @ 70°C case	1.5V, 25 ma	4.95	3.30
C30B	A	200	25A @ 70°C case	1.5V, 25 ma	5.75	3.85
C30C	A	300	25A @ 70°C case	1.5V, 25 ma	7.40	4.95
C30D	A	400	25A @ 70°C case	1.5V, 25 ma	9.35	6.25
C31U	A	25	25A @ 70°C case	1.5V, 9 ma	4.00	2.75
C31F	A	50	25A @ 70°C case	1.5V, 9 ma	4.50	3.00
C31A	A	100	25A @ 70°C case	1.5V, 9 ma	5.40	3.60
C31B	A	200	25A @ 70°C case	1.5V, 9 ma	6.45	4.30
C31C	A	300	25A @ 70°C case	1.5V, 9 ma	8.10	5.40
C31D	A	400	25A @ 70°C case	1.5V, 9 ma	10.25	6.85
C32U	B	25	25A @ 70°C case	1.5V, 25 ma	3.35	2.25
C32F	B	50	25A @ 70°C case	1.5V, 25 ma	3.75	2.50
C32A	B	100	25A @ 70°C case	1.5V, 25 ma	4.55	3.05
C32B	B	200	25A @ 70°C case	1.5V, 25 ma	5.40	3.60
C32C	B	300	25A @ 70°C case	1.5V, 25 ma	7.05	4.70
C32D	B	400	25A @ 70°C case	1.5V, 25 ma	9.00	6.00
C33U	B	25	25A @ 70°C case	1.5V, 9 ma	3.75	2.50
C33F	B	50	25A @ 70°C case	1.5V, 9 ma	4.10	2.75
C33A	B	100	25A @ 70°C case	1.5V, 9 ma	5.00	3.35

Specify Dept. No., Mfr's Name and Type No. on Semiconductor Orders

General Electric Semiconductors

MEDIUM-CURRENT CONTROLLED RECTIFIERS (Cont'd)

Type No.	Fig./ Case	PRV and V_{BO} (V)	Max. I_{DC} (amp) @ Temp. °C	Max. Required Gate Signal	EACH 1-99	100-999
C33B	B	200	25A @ 70°C case	1.5V, 9 ma	5.90	3.95
C33C	B	300	25A @ 70°C case	1.5V, 9 ma	7.70	5.15
C33D	B	400	25A @ 70°C case	1.5V, 9 ma	9.90	6.60
2N681	A	25	25A @ 57°C case	3V, 40 ma	6.50	4.35
2N682	A	50	25A @ 57°C case	3V, 40 ma	7.30	4.85
2N683	A	100	25A @ 57°C case	3V, 40 ma	8.05	5.35
2N684	A	150	25A @ 57°C case	3V, 40 ma	9.40	6.25
2N685	A	200	25A @ 57°C case	3V, 40 ma	11.10	7.40
2N686	A	250	25A @ 57°C case	3V, 40 ma	12.45	8.30
2N687	A	300	25A @ 57°C case	3V, 40 ma	14.60	9.75
2N688	A	400	25A @ 57°C case	3V, 40 ma	17.10	11.40
2N689	A	500	25A @ 57°C case	3V, 40 ma	20.60	13.75
2N690	A	600	25A @ 57°C case	3V, 40 ma	23.25	15.50
2N691	A	700	25A @ 57°C case	3V, 40 ma	31.50	21.00
2N692	A	800	25A @ 57°C case	3V, 40 ma	36.00	24.00
2N3654	TO-48	50	25A @ 40°C case		10.35	6.90
2N3655	TO-48	100	25A @ 40°C case	Designed for	11.25	7.50
2N3656	TO-48	200	25A @ 40°C case	fast turn-off	16.10	10.70
2N3657	TO-48	300	25A @ 40°C case	of 10 μsec.	24.20	16.10
2N3658	TO-48	400	25A @ 40°C case		29.25	19.50
C38U	A	25	35A @ 57°C case	3V, 40 ma	11.25	7.50
C38F	A	50	35A @ 57°C case	3V, 40 ma	12.40	8.25
C38A	A	100	35A @ 57°C case	3V, 40 ma	13.90	9.25
C38G	A	150	35A @ 57°C case	3V, 40 ma	16.50	11.00
C38B	A	200	35A @ 57°C case	3V, 40 ma	19.50	13.00
C38H	A	250	35A @ 57°C case	3V, 40 ma	23.25	15.50
C38C	A	300	35A @ 57°C case	3V, 40 ma	27.40	18.25
C38D	A	400	35A @ 57°C case	3V, 40 ma	34.15	22.75
C38E	A	500	35A @ 57°C case	3V, 40 ma	41.65	27.75
C135F	A	50	35A @ 40°C stud	3V, 100 ma	9.40	6.25
C135A	A	100	35A @ 40°C stud	3V, 100 ma	10.20	6.80
C135B	A	200	35A @ 40°C stud	3V, 100 ma	14.25	9.50
C135C	A	300	35A @ 40°C stud	3V, 100 ma	21.00	14.00
C135D	A	400	35A @ 40°C stud	3V, 100 ma	25.50	17.00
C135M	A	600	35A @ 40°C stud	3V, 100 ma	37.50	25.00
C135N	A	800	35A @ 40°C stud	3V, 100 ma	48.00	32.00

Type No.	PRV and V_{BO} (v)	Max. I_{DC} (amp) @ Temp, °C	Max. Required Gate Signal	EACH 1-24	25-99
C45B	200	55A @ 85°C stud	3V, 75 ma	28.50	22.30
C45D	400	55A @ 85°C stud	3V, 75 ma	50.15	39.25
C45E	500	55A @ 85°C	3V, 75 ma	60.25	47.15
C45M	600	55A @ 85°C stud	3V, 75 ma	73.15	57.25
C45S	700	55A @ 85°C	3V, 75 ma	89.70	70.20

HIGH-CURRENT SILICON CONTROLLED RECTIFIERS

JEDEC No.	G.E. Type No.	PRV and V_{BO}	Max. I_{DC} @Stud Temp °C	Max. Req'd Gate Signal @ T_J	EACH 1-24	25-99
2N1913	C50B	200	110A @ 59°C	3V, 75 ma	38.00	29.40
2N1916	C50D	400	110A @ 59°C	3V, 75 ma	66.50	51.50
....	C50E	500	110A @ 59°C	3V, 75 ma	80.50	62.50
....	C50M	600	110A @ 59°C	3V, 75 ma	97.50	75.50
....	C50S	700	110A @ 59°C	3V, 75 ma	120.00	94.00
....	C50N	800	110A @ 59°C	3V, 75 ma	145.00	112.00
2N1792	C52F	50			24.80	19.20
2N1793	C52A	100	PRV for 2N1792-2N1798,		28.80	22.30
2N1794	C52G	150	C52E and C52M are 20%		33.40	25.80
2N1795	C52B	200	higher than the V_{BO} rating.		38.00	29.40
2N1796	C52H	250	Other ratings and character-		44.50	34.50
2N1797	C52C	300	istics same as for 2N1910		50.50	39.20
2N1798	C52D	400	Series. Solid flag-type top		66.50	51.50
....	C52E	500	terminals.		80.50	62.50
....	C52M	600			97.50	75.50
2N2023	C60U	25	110A @ 87°C	3V, 30 ma	22.40	17.50
2N2024	C60F	50	110A @ 87°C	3V, 30 ma	28.50	22.30
2N2025	C60A	100	110A @ 87°C	3V, 30 ma	33.20	26.00
2N2027	C60B	200	110A @ 87°C	3V, 30 ma	43.60	34.20
2N2028	C60H	250	110A @ 87°C	3V, 30 ma	48.70	38.20
2N2029	C60C	300	110A @ 87°C	3V, 30 ma	58.10	45.50
2N2030	C60D	400	110A @ 87°C	3V, 30 ma	76.50	60.00
....	C180A	100	235A @ 90°C	3V, 150 ma	82.50	70.50
....	C180B	200	235A @ 90°C	3V, 150 ma	99.00	84.00
....	C180C	300	235A @ 90°C	3V, 150 ma	120.00	108.00
....	C180D	400	235A @ 90°C	3V, 150 ma	145.00	123.00
....	C180M	600	235A @ 90°C	3V, 150 ma	197.00	167.00

ATTENTION INDUSTRIAL BUYERS

As new General Electric semiconductors are made available, Allied will stock them. Contact your nearest Allied facility for quotations.

TRIAC—BIDIRECTIONAL TRIODE SWITCHES

TRIAC triode switches for gate control of AC power. *At 75°C case.

Mfr's Type	Fig.	V_{BV} (V)	Max. RMS Load Curr.	Max. Req'd Gate Signal @ 25°C T_J	EACH 1-99	100-999
SC40B	A	±200	6A*	±3V, ±50 ma	3.81	2.54
SC41B	B	±200	6A*	±3V, ±50 ma	3.36	2.24
SC45B	A	±200	10A*	±3V, ±50 ma	4.32	2.88
SC46B	B	±200	10A*	±3V, ±50 ma	3.87	2.58
SC40D	A	±400	6A	±3V, ±50 ma	5.85	3.90
SC41D	B	±400	6A*	±3V, ±50 ma	5.40	3.60
SC45D	A	±400	10A*	±3V, ±50 ma	6.85	4.57
SC46D	B	±400	10A*	±3V, ±50 ma	6.40	4.27

DIAC—BIDIRECTIONAL TRIGGER DIODE

For gate trigger of TRIAC's or SCR's. *10 microsec. duration, 120 cps rep. rate.

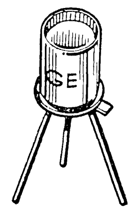
Mfr's Type	V_{BR} Min.	V_{BR} Max.	I_{BR} μa	Peak Current @ 50° C Amb.	EACH 1-99	100-999
ST2	±28	±36	±200 max.	±2 A max.*	1.02	.68

SOLID-STATE THYRATRONS

†Replace thyratron tubes in many uses if certain conditions met.

Mfr's Type	Peak Anode Volts	Max. Cathode Current, I_{DC}	†May Replace	EACH 1-9	10-29
S26	200	.9 A @ 25° C Amb.	2D21	9.95	8.30
S27	200	1.0 A @ 30° C Amb.	2050	11.30	9.45

LASERS AND LIGHT EMITTING DIODES



Type H1A1. A gallium arsenide device which emits light in the near infrared region at 8400°A@77°K. Pulsed power output at 70Apk, with 1 μsec pulse, 200 pps, is 15 watts at 77°K. Type H1B1 is a gallium arsenide-gallium phosphide device which emits light in the red-orange region near 7200°A at 77°K. Pulsed power output at 90Apk, with 1 μsec pulse, 200 pps, is 100 mw at 77°K. Available on Special Order Only.

Type LED. Light-emitting diode, noncoherent.

LASERS

Mfr's Type	Temp.	Power (Typ.)	EACH 1-99
H1D1 (Pulsed)	Room	5 watts	95.00
H1A1 (Pulsed)	77°K	15 watts	95.00
H1B1	77°K	100 m watts	650.00

LIGHT EMITTING DIODES

Mfr's Type	Light	Power	EACH 1-99
LED7	Red	15	135.00
LED8	Green	15	135.00
LED9	1 R	2.5	12.00
LED10	1 R	15	45.00
LED11	1 R	30	45.00

LIGHT-ACTIVATED SILICON CONTROLLED RECTIFIERS

Photo-operated. Act as switch. Inputs for light source or direct electrical supply. Max. electrical gate signal to fire, 0.8 v., 220 μa @ 25° T_j. Trigger irradiance (mw/cm²) @ 25° C. T_j, 6 v.

Max. curr., .44 amp @ 25° C amb. Trigger irrad., 0.68 min/10 max.

Mfr's Type	PRV and V_{BO} (v)	EACH 1-99	100-999
L8U	25	4.50	3.00
L8F	50	4.90	3.25
L8A	100	7.00	4.65

Max. curr., 1 amp @ 87°C case. Trig. irrad., 0.68 min/10 max.

L811U	25	6.00	3.75
L811F	50	6.40	4.00
L811A	100	8.50	5.45
L811G	150	10.95	7.05
L811B	200	13.35	8.65

Max. curr., .44 amp @ 25° C amb. Trig. irrad., 0.68 min/4.2 max.

Mfr's Type	PRV and V_{BO} (v)	EACH 1-99	100-999
L9U	25	4.95	3.30
L9F	50	5.40	3.60
L9A	100	7.65	5.10

Max. curr., 1 amp @ 87°C case. Trig. irrad., 0.68 min/4.2 max.

L911U	25	6.45	4.05
L911F	50	6.90	4.35
L911A	100	9.15	5.85
L911G	150	11.95	7.70
L911B	200	14.55	9.45

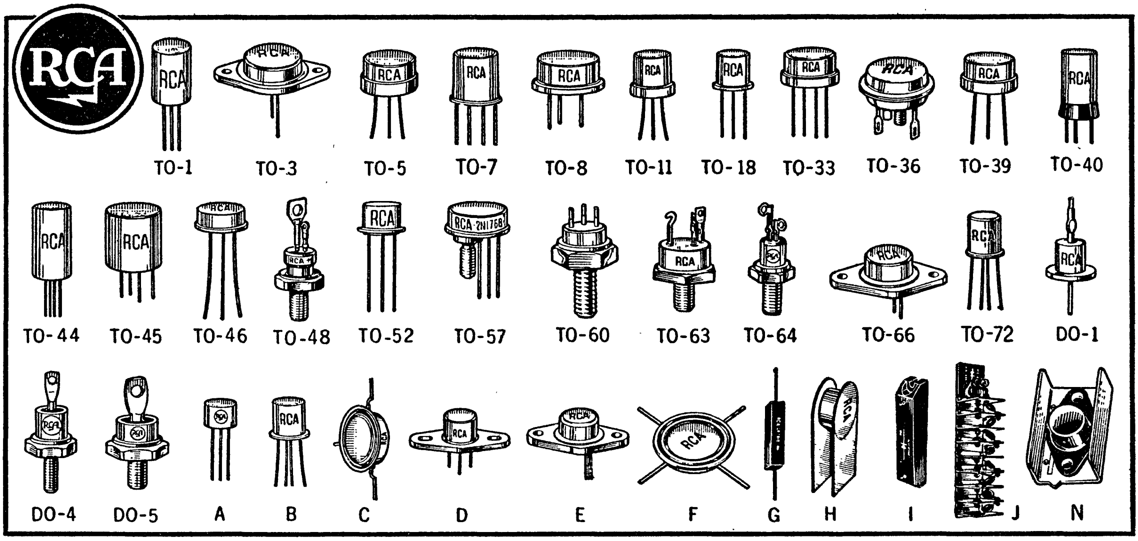
LIGHT DETECTORS
LIGHT ACTIVATED SILICON CONTROLLED SWITCH

Mfr's Type	PRV (v)	I_{fwd} (ma)	EACH 1-99	100-999
4JLIV	40	170	3.15	2.10

PHOTO TRANSISTOR

Mfr's Type	V_{ceo}-V_{cbo} (v)	EACH 1-99	100-999
14A502	45	15.00	10.00

RCA Semiconductor Products



EXPLANATION OF COLUMN HEADINGS AND SYMBOLS

Column Headings: C, capacitance. C_{iss}, input capacitance, C_{OB}, common base output capacitance (collector-to-base). C_{rss}, output capacitance. E_{FWD}, forward voltage drop. f_{hfb}, cutoff frequency. f_T, gain-bandwidth product frequency at which h_{fe} is 0 db. g_{fs}, transfer characteristic. G_p, power gain. h_{fe}, small-signal forward current transfer ratio. h_{FE}, static value of forward current transfer ratio. I_C, collector current. I_{CBO}, collector cutoff current, emitter open. I_D, drain current. I_F, forward DC current. I_F Peak surge, peak surge forward current (°C refers to free air temperature). I_{FM}, peak forward current. I_{FRMS}, RMS forward current. I_{GT}, gate-trigger current. I_p, peak current. I_R, reverse DC current. P_O, output power. P_T, power dissipation. PRV, peak reverse voltage. R_{gs}, gate-to-source leakage resistance. R_{iss}, input resistance. S, structure. T_C, case Temp. T_{FA}, Ambient or free air Temp. V_{CB}, collector-to-base voltage. V_{CBO}, collector cutoff voltage, emitter open. V_{CE}, collector-to-emitter voltage. V_{CEO}, collector-to-emitter voltage, base open. V_{DS}, drain to source voltage. V_{GT}, gate-trigger voltage. V_{RM}, peak reverse voltage.

Symbols: *Similar but not identical to case indicated. **Typical value. †Capacitive load. ††V_{CFO}, voltage, collector-to-emitter, base open. ‡Static value. ‡‡P_o, power output minimum in watts. §Minimum value. §§Two transistors and diode in Darlington circuit. #f_{hfb}, cutoff frequency. ▲pulsed. 'V_{CEV}, breakdown voltage, collector to emitter, with voltage on base. ''V_{CER}, breakdown voltage, collector to emitter, resistance from base to emitter. •BV_{CEO}, breakdown voltage, collector to emitter, with base open.

Structure: AL, alloy. DEP, double diffused epitaxial planar. DF, drift field. DJ, diffused junction. EX, epitaxial EXP, epitaxial planar. HO, hometaxial base construction. M, mesa. OV, overlay construction. P, planar. TD, triple diffused. TDP, triple diffused planar.

HOW TO ORDER

When ordering, specify Department Number, 49 D 1, then add RCA type number or JEDEC type number, Example: 49 D 1 40208.

TUBULAR SINGLE-ENDED TYPES FOR CONSUMER-PRODUCT APPLICATIONS—PRV to 400V

Type No.	Case	PRV V.	Avg. I_F @ °T_{FA} A	°C	I_F Peak Surge A.	Max. E_{FWD} V.	Max. I_R Ma	EACH 1-99	100-999
1N3754	*TO-1	100	0.125	65	30	1	0.3	.32	.22
1N3755	*TO-1	200	0.125	65	30	1	0.3	.32	.22
1N3756	*TO-1	400	0.125	65	30	1	0.3	.35	.24
40265	*TO-1	400	0.125	65	30	1	−0.4	.35	.24

AXIAL-LEAD TYPES FOR INDUSTRIAL AND CONSUMER-PRODUCT APPLICATIONS—PRV to 1000V, IF to 2A

1N2858A	DO-1	50	0.75	75	40	1.2	0.4	.37	.25
1N2859A	DO-1	100	0.75	75	40	1.2	0.4	.38	.27
1N3193	*TO-1	200	0.75	75	35†	1.2	0.2	.35	.24
1N3253	Insulated version of 1N3193							.40	.28
1N2860A	DO-1	200	0.75	75	40	1.2	0.4	.40	.28
1N2861A	DO-1	300	0.75	75	40	1.2	0.3	.43	.30
1N3194	*TO-1	400	0.75	75	35†	1.2	0.2	.38	.27
1N3254	Insulated version of 1N3194							.45	.31
1N2862A	DO-1	400	0.75	75	40	1.2	0.3	.61	.43
1N2863A	DO-1	500	0.75	75	40	1.2	0.3	.66	.46
1N2864A	DO-1	600	0.75	75	40	1.2	0.3	.83	.57
1N3195	*TO-1	600	0.75	75	35†	1.2	0.2	.66	.46
1N3255	Insulated version of 1N3195							.70	.48
1N3196	*TO-1	800	0.5	75	35†	1.2	0.2	.91	.63
1N3256	Insulated version of 1N3196							.94	.65
1N3563	*TO-1	1000	0.4	75	35†	1.2	0.2	1.65	1.14
1N1763A	DO-1	400	0.75	75	35	......	.1	.42	.29
1N1764A	DO-1	500	0.75	75	35	......	.1	.58	.40
40266	DO-1	100	2†	105	35	3	−10	.29	.20
40267	DO-1	200	2†	105	35	3	−10	.33	.23

AXIAL-LEAD TYPES FOR MILITARY AND INDUSTRIAL APPLICATIONS—IF to 0.75A

Type No.	Case	PRV V.	Avg. I_F @ °T_{FA} A.	°C.	I_F Peak Surge A.	Max. E_{FWD} V.	Max. I_R μa	EACH 1-99	100-999
1N444B	DO-1	500	0.65	50	15	1.5	1.75‡	1.06	.71
1N445B	DO-1	600	0.65	50	15	1.5	2‡	1.42	.95
1N536	DO-1	50	0.75	50	15	1.1	5‡	.45	.30
1N440B	DO-1	100	0.75	50	15	1.5	0.3‡	.66	.44
1N537	DO-1	100	0.75	50	15	1.1	5‡	.50	.33
1N441B	DO-1	200	0.75	50	15	1.5	0.75‡	.70	.47
1N538	DO-1	200	0.75	50	15	1.1	5‡	.53	.36
1N442B	DO-1	300	0.75	50	15	1.5	1‡	.80	.53
1N539	DO-1	300	0.75	50	15	1.1	5‡	.60	.40
1N443B	DO-1	400	0.75	50	15	1.5	1.5‡	.98	.65
1N540	DO-1	400	0.75	50	15	1.1	5‡	.68	.46
1N1095	DO-1	500	0.75	50	15	1.2	5‡	.88	.59
1N547	DO-1	600	0.75	50	15	1.2	5‡	.96	.64

STUD-MOUNTED RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS—Avg. IF to 40A

Type No.	Case	PRV V.	Avg. I_F @ °T_C A.	°C.	I_F Peak Surge A.	Max. E_{FWD} V.	Max. I_R Ma	EACH 1-99	100-999
1N1612	DO-4	50	5	135	.....	1.5	1	1.07	.72
1N1612R	DO-4	50	5	135	.....	1.5	1	1.07	.72
1N1613	DO-4	100	5	135	.....	1.5	1	1.24	.83
1N1613R	DO-4	100	5	135	.....	1.5	1	1.24	.83
1N1614	DO-4	200	5	135	.....	1.5	1	1.90	1.27
1N1614R	DO-4	200	5	135	.....	1.5	1	1.90	1.27
1N1615	DO-4	400	5	135	.....	1.5	1	3.71	2.48
1N1615R	DO-4	400	5	135	.....	1.5	1	3.71	2.48
1N1616	DO-4	600	5	135	.....	1.5	1	5.36	3.58
1N1616R	DO-4	600	5	135	.....	1.5	1	5.36	3.58

See Explanation Above for Column Heads and Symbols

RCA Silicon Rectifiers

STUD-MOUNTED RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS—Avg. I_F to 40A (Cont'd)

Type No.	Case	PRV V.	Avg. I_F @ °Tc A.	°C.	I_F Peak Surge A.	Max. E_{FWD} V.	Max. I_R Ma	EACH 1-99	EACH 100-999
1N1341B	DO-4	50	6	150	160	0.65	0.45	1.16	.77
1N1341RB	DO-4	50	6	150	160	0.65	0.45	1.16	.77
1N1342B	DO-4	100	6	150	160	0.65	0.45	1.32	.88
1N1342RB	DO-4	100	6	150	160	0.65	0.45	1.32	.88
1N1344B	DO-4	200	6	150	160	0.65	0.45	2.15	1.43
1N1344RB	DO-4	200	6	150	160	0.65	0.45	2.15	1.43
1N1345B	DO-4	300	6	150	160	0.65	0.45	3.05	2.04
1N1345RB	DO-4	300	6	150	160	0.65	0.45	3.05	2.04
1N1346B	DO-4	400	6	150	160	0.65	0.45	3.96	2.64
1N1346RB	DO-4	400	6	150	160	0.65	0.45	3.96	2.64
1N1347B	DO-4	500	6	150	160	0.65	0.45	4.79	3.19
1N1347RB	DO-4	500	6	150	160	0.65	0.45	4.79	3.19
1N1348B	DO-4	600	6	150	160	0.65	0.45	5.78	3.85
1N1348RB	DO-4	600	6	150	160	0.65	0.45	5.78	3.85
40108	DO-4	50	10	150	140	0.60	2.0	.99	.69
40108R	DO-4	50	10	150	140	0.60	2.0	.99	.69
40109	DO-4	100	10	150	140	0.60	2.0	1.16	.80
40109R	DO-4	100	10	150	140	0.60	2.0	1.16	.80
40110	DO-4	200	10	150	140	0.60	1.5	1.57	1.09
40110R	DO-4	200	10	150	140	0.60	1.5	1.57	1.09
40111	DO-4	300	10	150	140	0.60	1.5	2.15	1.48
40111R	DO-4	300	10	150	140	0.60	1.5	2.15	1.48
40112	DO-4	400	10	150	140	0.60	1.0	2.48	1.71
40112R	DO-4	400	10	150	140	0.60	1.0	2.48	1.71
40113	DO-4	500	10	150	140	0.60	0.85	3.14	2.17
40113R	DO-4	500	10	150	140	0.60	0.85	3.14	2.17
40114	DO-4	600	10	150	140	0.60	0.75	3.71	2.57
40114R	DO-4	600	10	150	140	0.60	0.75	3.71	2.57
40115	DO-4	800	10	150	140	0.60	0.65	6.60	4.56
40115R	DO-4	800	10	150	140	0.60	0.65	6.60	4.56
40116	DO-4	1000	10	150	140	0.60	0.50	9.50	6.55
40116R	DO-4	1000	10	150	140	0.60	0.50	9.50	6.55
1N1199A	DO-4	50	12	150	240	0.55	3	1.24	.83
1N1199RA	DO-4	50	12	150	240	0.55	3	1.24	.83
1N1200A	DO-4	100	12	150	240	0.55	2.5	1.41	.94
1N1200RA	DO-4	100	12	150	240	0.55	2.5	1.41	.94
1N1202A	DO-4	200	12	150	240	0.55	2	2.48	1.65
1N1202RA	DO-4	200	12	150	240	0.55	2	2.48	1.65
1N1203A	DO-4	300	12	150	240	0.55	1.75	3.47	2.31
1N1203RA	DO-4	300	12	150	240	0.55	1.75	3.47	2.31
1N1204A	DO-4	400	12	150	240	0.55	1.5	4.46	2.97
1N1204RA	DO-4	400	12	150	240	0.55	1.5	4.46	2.97
1N1205A	DO-4	500	12	150	240	0.55	1.25	5.36	3.58
1N1205RA	DO-4	500	12	150	240	0.55	1.25	5.36	3.58
1N1206A	DO-4	600	12	150	240	0.55	1	6.19	4.13
1N1206RA	DO-4	600	12	150	240	0.55	1	6.19	4.13
40259	DO-4	600	12	150	250	0.65	0.6	14.10	9.75
40208	DO-5	50	18	150	250	0.65	3.0	.99	.69
40208R	DO-5	50	18	150	250	0.65	3.0	1.19	.83
40209	DO-5	100	18	150	250	0.65	3.0	1.32	.92
40209R	DO-5	100	18	150	250	0.65	3.0	1.32	.92
40210	DO-5	200	18	150	250	0.65	2.5	1.78	1.23
40210R	DO-5	200	18	150	250	0.65	2.5	1.78	1.23
40211	DO-5	300	18	150	250	0.65	2.5	2.39	1.65
40211R	DO-5	300	18	150	250	0.65	2.5	2.39	1.65
40212	DO-5	400	18	150	250	0.65	2.0	2.89	2.00
40212R	DO-5	400	18	150	250	0.65	2.0	2.89	2.00
40213	DO-5	500	18	150	250	0.65	1.75	3.63	2.51
40213R	DO-5	500	18	150	250	0.65	1.75	3.63	2.51
40214	DO-5	600	18	150	250	0.65	1.5	4.21	2.91
40214R	DO-5	600	18	150	250	0.65	1.5	4.21	2.91
1N248C	DO-5	55	20	150	350	0.6	3.8	1.65	1.10
1N248RC	DO-5	55	20	150	350	0.6	3.8	1.65	1.10
1N249C	DO-5	110	20	150	350	0.6	3.6	2.06	1.38
1N249RC	DO-5	110	20	150	350	0.6	3.6	2.06	1.38
1N250C	DO-5	220	20	150	350	0.6	3.4	2.72	1.82
1N250RC	DO-5	220	20	150	350	0.6	3.4	2.72	1.82
1N1195A	DO-5	300	20	150	350	0.6	3.2	3.88	2.59
1N1195RA	DO-5	300	20	150	350	0.6	3.2	3.88	2.59
1N1196A	DO-5	400	20	150	350	0.6	2.5	4.95	3.30
1N1196RA	DO-5	400	20	150	350	0.6	2.5	4.95	3.30
1N1197A	DO-5	500	20	150	350	0.6	2.2	5.94	3.96
1N1197RA	DO-5	500	20	150	350	0.6	2.2	5.94	3.96
1N1198A	DO-5	600	20	150	350	0.6	1.5	7.01	4.68
1N1198RA	DO-5	600	20	150	350	0.6	1.5	7.01	4.68
1N1183A	DO-5	50	40	150	800	0.65	2.5	2.15	1.43
1N1183RA	DO-5	50	40	150	800	0.65	2.5	2.15	1.43
1N1184A	DO-5	100	40	150	800	0.65	2.5	2.48	1.65
1N1184RA	DO-5	100	40	150	800	0.65	2.5	2.48	1.65
1N1186A	DO-5	200	40	150	800	0.65	2.5	3.55	2.37
1N1186RA	DO-5	200	40	150	800	0.65	2.5	3.55	2.37
1N1187A	DO-5	300	40	150	800	0.65	2.5	4.95	3.30
1N1187RA	DO-5	300	40	150	800	0.65	2.5	4.95	3.30

HOW TO ORDER

When ordering, specify department number, 49 D 1, then add RCA type number or JEDEC type number. Example: 49 D 1 40109.

All RCA power rectifiers are 100% production line tested for peak reverse current, peak reverse voltage and high current forward pulse. Rectifiers below are grouped by application, and within application, by specification, not by JEDEC number.

STUD-MOUNTED RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS—Avg. I_F to 40A Cont'd

Type No.	Case	PRV V.	Avg. I_F @ °Tc A.	°C	I_F Peak Surge A.	Max. E_{FWD} V.	Max. I_R Ma	EACH 1-99	EACH 100-999
1N1188A	DO-5	400	40	150	800	0.65	2.2	6.19	4.13
1N1188RA	DO-5	400	40	150	800	0.65	2.2	6.19	4.13
1N1189A	DO-5	500	40	150	800	0.65	2	7.43	4.95
1N1189RA	DO-5	500	40	150	800	0.65	2	7.43	4.95
1N1190A	DO-5	600	40	150	800	0.65	1.8	8.65	5.80
1N1190RA	DO-5	600	40	150	800	0.65	1.8	8.65	5.80

SILICON RECTIFIER STACKS FOR HIGH-VOLTAGE APPLICATIONS—PRV 1,200 to 12,000V

CR100 Series in Case I; CR200, Case G; CR300, Case J.

Type No.	PRV Rep. V.	PRV Non-Rep. V.	Avg. I_F @T_{FA}=°C A.	°C.	I_F Peak Surge A.	Max. I_R (Dynamic) Ma	EACH 1-29	EACH 30-Up
CR101	1200	1440	0.85	60	15	0.3	5.75	5.47
CR201	1500	1800	0.3	60	9	0.1	3.10	2.96
CR102	2000	2400	0.825	60	15	0.3	7.20	6.85
CR301	2400	2880	5	50	250	1.5	28.00	26.55
CR311	2400	2880	9	50	250	1.5	30.00	28.50
CR321	2400	2880	12	50	400	1.5	35.00	33.25
CR331	2400	2880	17	50	400	1.5	37.00	35.15
CR341	2400	2880	23	50	850	1.5	44.00	41.80
CR351	2400	2880	35	50	850	1.5	46.00	43.70
CR103	3000	3600	0.725	60	15	0.3	8.15	7.75
CR203	3000	3600	0.3	60	9	0.1	4.80	4.56
CR302	3600	4320	5	50	250	1.5	40.00	37.95
CR312	3600	4320	19	50	250	1.5	42.00	39.90
CR322	3600	4320	12	50	400	1.5	49.00	46.55
CR332	3600	4320	17	50	400	1.5	52.00	49.40
CR342	3600	4320	23	50	850	1.5	61.00	57.95
CR352	3600	4320	35	50	850	1.5	64.00	60.80
CR104	4000	4800	0.625	60	15	0.3	9.60	9.10
CR204	4500	5400	0.3	60	9	0.1	5.75	5.47
CR303	4800	5760	5	50	250	1.5	51.00	48.45
CR313	4800	5760	9	50	250	1.5	53.00	50.35
CR323	4800	5760	12	50	400	1.5	62.00	58.90
CR333	4800	5760	17	50	400	1.5	65.00	61.75
CR343	4800	5760	23	50	850	1.5	78.00	74.10
CR353	4800	5760	35	50	850	1.5	82.00	72.90
CR105	5000	6000	0.625	60	15	0.3	10.55	10.05
CR106	6000	7200	0.575	60	15	0.3	12.00	11.40
CR206	6000	7200	0.3	60	9	0.1	6.95	6.60
CR304	6000	7200	5	50	250	1.5	62.00	58.90
CR314	6000	7200	9	50	250	1.5	64.00	60.75
CR324	6000	7200	12	50	400	1.5	76.00	72.20
CR334	6000	7200	17	50	400	1.5	79.00	75.05
CR344	6000	7200	23	50	850	1.5	94.00	89.30
CR354	6000	7200	35	50	850	1.5	98.00	93.10
CR107	7000	8400	0.55	60	15	0.3	12.95	12.30
CR305	7200	8640	5	50	250	1.5	73.00	69.35
CR315	7200	8640	9	50	250	1.5	75.00	71.25
CR325	7200	8640	12	50	400	1.5	90.00	85.50
CR335	7200	8640	17	50	400	1.5	93.00	88.35
CR108	8000	9600	0.55	60	15	0.3	13.90	13.20
CR208	8000	9600	0.3	60	9	0.1	8.40	8.00
CR306	8400	10,080	5	50	250	1.5	83.00	78.85
CR316	8400	10,080	9	50	250	1.5	85.00	80.75
CR109	9000	10,080	0.55	60	15	0.3	15.35	14.60
CR307	9600	11,520	5	50	250	1.5	93.00	88.35
CR317	9600	11,520	9	50	250	1.5	95.00	90.25
CR110	10,000	12,000	0.55	60	15	0.3	16.30	15.50
CR210	10,000	12,000	0.3	60	9	0.1	10.10	9.60
CR212	12,000	14,400	0.3	60	9	0.1	12.00	11.40

See Page 74 for Explanations of Symbols, Column Heads and Illustrations

RCA Transistors, Diodes, Rectifiers

EXPLANATION OF COLUMN HEADINGS

See Page 74 for Illustrations of Cases and Information on Column Headings and Symbols Used on This Page.

HOW TO ORDER

When ordering, specify Department Number, 49 D 1, then add RCA type or JEDEC type number. Ex.: 49 D 1 2N3528.

HIGH-POWER SWITCHING TRANSISTORS

GERMANIUM PNP—P_T to 150W

Note: For types below, V_{CBV} is shown in V_{CE} column; $f_{hfe(kc/s)}$ is shown in the f_T column. $V_{CE.\ (sat.)}$ @ I_C.

Type No.	S	Case	P_T Max. @ 25°C W.	$V_{CE.}$ V.	h_{FE} Min. @I_C	$V_{CE.}$ (sat) Max. V.	f_T Mc/s	EACH 1-99	EACH 100-999
2N277	Al	TO-36	150	40	35	0.7	10	2.72	1.88
2N441	Al	TO-36	150	40	20	0.7	10	2.23	1.54
2N278	Al	TO-36	150	50	35	0.7	10	3.10	2.14
2N442	Al	TO-36	150	50	20	0.7	10	2.31	1.60
2N173	Al	TO-36	150	60	35	0.7	10	3.75	2.59
2N174	Al	TO-36	150	60	25	0.7	10	4.01	2.77
2N443	Al	TO-36	150	60	20	0.7	10	2.39	1.65
2N1099	Al	TO-36	150	80	35	0.3	10	4.31	2.98
2N1100	Al	TO-36	150	100	25	0.3	10	5.02	3.47
2N1358	Al	TO-36	150	80	25	0.7	100	4.59	3.17
2N1412	Al	TO-36	150	100	25	0.7	10	5.76	3.98

SILICON NPN TRANSISTORS

Note: For 2N2015 and 2N2016, $f_{hfe(kc/s)}$ shown in f_T column.

Type No.	S	Case	P_T Max. @ 25°C W.	$V_{CE.}$ V.	h_{FE} Min. @I_C	$V_{CE.}$ (sat) Max. V.	f_T Mc/s	EACH 1-99	EACH 100-999
2N1487	DJ	TO-3	75	60	15	3	1#	4.54	3.14
2N1489	DJ	TO-3	75	60	25	3	1#	7.43	5.13
2N1702	DJ	TO-3	75	60	15	3.2	....	4.54	3.14
2N1488	DJ	TO-3	75	100	15	3	1#	4.95	3.42
2N1490	DJ	TO-3	75	100	25	1	1#	8.25	5.70
2N3263	E	C	84	80	25	0.75	20§	99.00	68.40
2N3264	E	C	84	120	20	1.2	20§	66.00	45.60
2N3055	DJ	TO-3	115	100	20	1.1	0.7§	2.89	2.00
2N3442	DJ	TO-3	117	160	.....	1.0	0.8	4.95	3.42
40251	DJ	TO-3	117	50	15	1.5	0.5	2.89	2.00
2N3265	E	TO-63	125	150	25	0.75	20§	99.00	68.40
2N3266	E	TO-63	125	120	20	1.2	20§	66.00	45.60
2N2338	DJ	TO-36	150	60	15	1.5	....	6.60	4.56
2N2015	DJ	TO-36	150	100	15	1.25	25	9.08	6.25
2N2016	DJ	TO-36	150	130	15	1.25	25	9.90	6.85
2N3265	EX	TO-63	125	150	25	0.75	20§	99.00	68.40
2N3266	EX	TO-63	125	120	20	1.2	20§	66.00	45.60
2N3771	HO	TO-3	150	50′	15▲	2▲	....	5.78	3.99
2N2338	HO	TO-36	150	60	15	1.5	....	6.60	4.56
2N2015	HO	TO-36	150	100	15	1.25	25	9.08	6.25
2N3772	HO	TO-3	150	100′	15▲	1.4▲	....	5.78	3.99
2N2016	HO	TO-36	150	130	15	1.25	25	9.90	6.85
2N3773	HO	TO-3	150	160′	15▲	1.4▲	....	7.84	5.42

DIFFERENTIAL AND OPERATIONAL AMPLIFIER TYPES

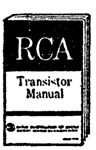
SILICON NPN TRANSISTORS $V_{ce\ (sat)}$ @ I_c

Type No.	S	Case	P_T Max @ 25°C W.	$V_{CE.}$ V.	h_{FE} Min. @I_c	$V_{CE.}$ (sat) Max. V.	f_T Mc/s	EACH 1-99	EACH 100-999
2N1613	TDP	TO-5	3	50	35	1.5	60	1.08	.72
2N2270	TDP	TO-5	5	60	35	0.9	60	1.16	.80
2N2102	TDP	TO-5	5	80	35	0.5	60	1.41	.97
2N3439	TD	TO-5	5	.....	40	0.5	20	4.13	2.85
2N3440	TD	TO-5	5	.....	40	0.5	20	2.06	1.43
40346	TDP	TO-5	5	.....	25	0.5	.....	1.14	.79
40255	TD	D	10	.....	40	0.5	20	4.21	2.91
40256	TD	D	10	.....	40	0.5	20	2.15	1.48

KEY TO RCA LISTINGS

Semiconductor types in this RCA section are grouped by application, and by specification, not by JEDEC number. Example: Silicon Controlled Rectifiers (above right), are listed in ascending I_{FRMS}. See preceding pages for additional listings.

RCA TRANSISTOR MANUAL



Prepared by RCA Semiconductor and Materials Division. Designed for use by engineers, technicians, educators, students, etc. Easy to understand, covers basic semiconductor theory and operation. Contains detailed information on all semiconductors made by RCA, and reference data on discontinued types. 304 pages. 5½x8½". Shpg. wt., 8 oz. 23 D 7683 E.............................1.50

SILICON CONTROLLED RECTIFIERS

For military and industrial applications. Temperatures for 2N3528 and 2N3529 are free air temperatures; other are case temperatures.

Type No.	Case	I_{FRMS} @ T_C A.	°C.	Maximum V_{RM} Non-Rep.V	Maximum I_{FM} Surge A.	Maximum V_{GT} V.	Maximum I_{GT} Ma DC	EACH 1-99	EACH 100-999
2N3528	TO-8	2	25	330	60	2	15	1.63	1.12
2N3529	TO-8	2	25	660	60	2	15	2.31	1.60
2N3228	TO-66	5	75	330	60	2	15	1.62	1.12
2N3525	TO-66	5	75	660	60	2	15	2.31	1.60
2N1770	TO-64	7.4	60	35	60	2	15	5.36	3.58
2N1771	TO-64	7.4	60	75	60	2	15	5.78	3.85
2N1772	TO-64	7.4	60	150	60	2	15	7.43	4.95
2N1773	TO-64	7.4	60	225	60	2	15	9.49	6.35
2N1774	TO-64	7.4	60	300	60	2	15	11.96	8.00
2N1775	TO-64	7.4	60	350	60	2	15	14.03	9.35
2N1776	TO-64	7.4	60	400	60	2	15	16.09	10.75
2N1777	TO-64	7.4	60	500	60	2	15	20.65	13.75
2N1778	TO-64	7.4	60	600	60	2	15	24.75	16.50
2N3668	TO-3	12.5	80	150	200	2	40	2.89	2.00
2N3669	TO-3	12.5	80	330	200	2	40	3.27	2.26
2N3670	TO-3	12.5	80	660	200	2	40	4.92	3.40
2N1842A	TO-48	16	80	35	125	3.5	45	2.89	1.93
2N1843A	TO-48	16	80	75	125	3.5	45	3.71	2.48
2N1844A	TO-48	16	80	150	125	3.5	45	5.78	3.85
2N1845A	TO-48	16	80	225	125	3.5	45	5.94	3.96
2N1846A	TO-48	16	80	300	125	3.5	45	6.19	4.13
2N1847A	TO-48	16	80	350	125	3.5	45	6.60	4.40
2N1848A	TO-48	16	80	400	125	3.5	45	7.01	4.68
2N1849A	TO-48	16	80	500	125	3.5	45	8.25	5.50
2N1850A	TO-48	16	80	600	125	3.5	45	9.90	6.60
2N681	TO-48	25	65	35	150	3	25	3.30	2.20
2N682	TO-48	25	65	75	150	3	25	4.13	2.75
2N683	TO-48	25	65	150	150	3	25	6.19	4.13
2N684	TO-48	25	65	225	150	3	25	6.35	4.24
2N685	TO-48	25	65	300	150	3	25	6.60	4.40
2N686	TO-48	25	65	350	150	3	25	7.01	4.68
2N687	TO-48	25	65	400	150	3	25	7.43	4.95
2N688	TO-48	25	65	500	150	3	25	8.65	5.80
2N689	TO-48	25	65	600	150	3	25	10.30	6.90
2N690	TO-48	25	65	720	150	3	25	11.95	8.00
2N3870	....	35	65	150	350	2	40	4.70	3.25
2N3871	....	35	65	330	350	2	40	5.12	3.53
2N3872	....	35	65	660	350	2	40	7.18	4.96
2N3873	....	35	65	700	350	2	40	10.50	7.25
2N3896	....	35	65	150	350	2	40	4.95	3.42
2N3897	....	35	65	330	350	2	40	5.36	3.71
2N3898	....	35	65	600	350	2	40	7.43	5.13
2N3899	....	35	65	700	350	2	40	10.75	7.40
40216	TO-48	900▲	65	720	......	......	......	48.00	33.15

TUNNEL DIODES

In special RCA package H. See the beginning of RCA section for illustration. For switching and microwave applications.

Type No.	Material	S	I_P ±Tol. A.	%	Min. I_P/I_V	Max. C. pf	EACH 1-99	EACH 100-999
1N3851	Ge	E	0.1	10	6:1	40	4.95	3.42
1N3856	Ge	E	0.1	5	8:1	25	8.17	5.64
1N3850	Ge	E	0.05	10	6:1	40	4.95	3.42
1N3130	Ge	.....	0.05	5	8:1	25	8.17	5.64
1N3855	Ge	E	0.05	5	8:1	25	8.17	5.64
1N3860	Ge	E	0.05	5	8:1	12	10.73	7.40
1N3849	Ge	E	0.02	10	6:1	30	4.95	3.42
1N3854	Ge	E	0.02	5	8:1	20	7.59	5.24
1N3129	Ge	.....	0.02	5	8:1	20	7.59	5.24
1N3859	Ge	E	0.02	5	8:1	10	8.17	5.64
40063	GaAs	Al	0.01	10	9:1	25	8.66	6.00
1N3848	Ge	E	0.01	10	6:1	25	4.95	3.42
1N3853	Ge	E	0.01	5	8:1	15	5.94	4.10
1N3858	Ge	E	0.01	5	8:1	8	6.52	4.50
1N3847	Ge	E	0.005	10	6:1	25	4.95	3.42
1N3852	Ge	E	0.005	5	8:1	15	6.35	4.39
1N3128	Ge	.....	0.005	5	8:1	15	6.35	4.39
1N3857	Ge	E	0.005	5	8:1	8	8.58	5.95

EXPLANATION OF SEMICONDUCTOR STRUCTURE

AL, alloy. **DF**, drift field. **DJ**, diffused junction. **EX**, epitaxial. **EXP**, epitaxial planar. **HO**, hometaxial base construction. **M**, mesa. **TD**, triple diffused. **TDP**, triple diffused planar.

See Page 74 for Explanation of Column Headings and Symbols

RCA Switching Transistors

ADDITIONAL RCA LISTINGS WILL BE FOUND ON FOLLOWING PAGES

EXPLANATION OF COLUMN HEADINGS

See Page 74 for Illustrations of Cases and Information on Column Headings and Symbols Used on This Page.

HOW TO ORDER

When ordering, specify Department Number, 49 D 1, then add RCA type or JEDEC type Number. Ex: 49 D 1 2N396.

TRANSISTORS FOR COMPUTER SWITCHING APPLICATIONS

HIGH VOLTAGE TYPES

GERMANIUM PNP TRANSISTORS

Type No.	S	Case	f_T Min. Mc/s	h_{FE} Min. @ I_c	C_{ob} Max. pf	Max. P_T Mw	Max. V_{CB} V.	EACH 1-99	EACH 100-999
2N398	Al	TO-5	......	20	......	50	105	.99	.69
2N398A	Al	TO-5	......	20	......	150	105	1.08	.75
2N398B	Al	TO-5	1#	20	......	250	105	1.24	.86
2N586	Al	TO-7	......	30	......	250	45	1.73	1.20

MEDIUM SPEED TYPES

GERMANIUM PNP TRANSISTORS

Type No.	S	Case	f_T Min. Mc/s	h_{FE} Min. @ I_c	C_{ob} Max. pf	Max. P_T Mw	Max. V_{CB} V.	EACH 1-99	EACH 100-999
2N395	Al	TO-5	3#	20	20	150	30	.50	.33
2N1303	Al	TO-5	3#	20	20	150	30	.45	.30
40269	Al	TO-5	4#	50	......	150	25	.52	.36
2N404	Al	TO-5	4#	24	20	150	25	.42	.28
2N404A	Al	TO-5	4#	24	20	150	40	.58	.39
2N581	Al	TO-5	4#	20	20	150	18	.50	.35
2N396	Al	TO-5	5#	30	20	150	30	.61	.41
2N1305	Al	TO-5	5#	40	20	150	30	.53	.36
2N414	Al	TO-5	8#	80	11	150	30	.42	.28
2N397	Al	TO-5	10#	40	20	150	30	1.11	.74
2N1307	Al	TO-5	10#	60	20	150	30	.75	.50
2N582	Al	TO-5	14#	40	20	150	25	.91	.63
2N1309	Al	TO-5	15#	80	20	150	30	1.08	.75
2N1384	DF	TO-11	20	20	......	240	30	2.06	1.43
2N1300	M	TO-5	25	30	12	150	13	.91	.63
2N1301	M	TO-5	35	30	12	150	13	1.04	.72
2N1853	M	TO-5	......	30	......	150	18	1.32	.92
2N1854	M	TO-5	40	40	12	150	18	1.65	1.14
2N1683	M	TO-5	50	50	12	150	13	1.65	1.14

GERMANIUM NPN TRANSISTORS

Type No.	S	Case	f_T Min. Mc/s	h_{FE} Min. @ I_c	C_{ob} Max. pf	Max. P_T Mw	Max. V_{CB} V.	EACH 1-99	EACH 100-999
2N585	Al	TO-5	3#	20	25	120	25	.99	.69
2N1302	Al	TO-5	3#	20	20	150	25	.45	.31
2N1605	Al	TO-5	4#	24	20	150	25	.99	.69
2N1605A	Al	TO-5	4#	24	20	200	40	1.26	.87
2N1090	Al	TO-5	5#	30	25	120	25	1.11	.77
2N388	Al	TO-5	5#	30	20	150	25	.50	.35
2N388A	Al	TO-5	5#	30	20	150	40	1.04	.72
2N1304	Al	TO-5	5#	40	20	150	25	.53	.37
2N1091	Al	TO-5	10#	40	25	120	25	1.41	.97
2N1306	Al	TO-5	10#	60	20	120	25	.75	.52
2N1308	Al	TO-5	15#	80	20	150	25	1.08	.75

HIGH-SPEED TYPES

SILICON NPN TRANSISTORS—f_T to 600Mc

Type No.	S	Case	f_T Min. Mc/s	h_{FE} Min. @ I_c	C_{ob} Max. pf	P_T Mw	V_{CB} V.	EACH 1-99	EACH 100-999
2N706	M	TO-18	200	20	6	300	25	.99	.66
40217	Same as 2N706 but with TO-52 pkg.							.99	.69
2N706A	M	TO-18	200	20	......	300	25	1.19	.80
40218	Same as 2N705A but with TO-52 pkg.							1.19	.82
2N2205	EP	TO-18	200	20	6	300	25	1.24	.83
40222	Same as 2N2205 but with TO-52 pkg.							1.24	.86
2N2476	EP	TO-5	250	20	10	600	60	2.89	2.00
2N2477	EP	TO-5	250	40	10	600	60	3.30	2.28
2N914	EP	TO-18	300	30	6	360	40	1.57	1.05
40221	Same as 2N914 but with TO-52 pkg.							1.57	1.09
2N708	P	TO-18	......	30	6	360	40	1.32	.88
40219	Same as 2N708 but with TO-52 pkg.							1.32	.92
2N834	EP	TO-18	350	25	4	·300	30	3.05	2.04
40220	Same as 2N834 but with TO-52 pkg.							3.05	2.11
2N3512	EP	TO-5	375	10	10	800	60	3.71	2.57
40283	EP	TO-46	375	10	10	400	60	3.71	2.57
2N3011	EXP	TO-18	400	30	4	360	30	2.06	1.43
2N2369A	EXP	TO-18	400	40	4	360	–25	2.89	2.00
2N709	EP	TO-18	600	15	3	300	15	1.65	1.14
2N2475	EP	TO-18	600	20	3	300	15	2.56	1.71
2N2938	EP	TO-52	600	25	4	300	25	2.15	1.48
2N3261	EP	TO-52	600	40	3.5	1000	40	3.30	2.28

FOR POWER-SWITCHING APPLICATIONS

MEDIUM POWER TYPES

SILICON NPN TRANSISTORS—P_T to 5W, V_{CE} (sat) at I_c

Type No.	S	Case	P_T Max. @25°C W.	V_{CE} V.	h_{FE} Min. @ I_c	V_{CE} (sat) Max. V.	f_T(typ) F_{hfb} (typ) Mc/s	EACH 1-99	EACH 100-999
2N718A	TDP	TO-18	1.8	50	40	1.2	60§	1.08	.72
2N720A	TDP	TO-18	1.8	100	40	1.5	50§	1.32	.88
2N697	DJ	TO-5	2	40	40	1.5	100	.81	.56
2N1613	TDP	TO-5	3	50	35	1.5	60§	1.08	.72
2N1893	TDP	TO-5	3	80	40	1.2	50§	1.32	.88
2N3119	TDP	TO-5	4	100	40	0.5	250§	5.36	3.71
40082	TDP	TO-39	5	60	......	......	....	5.69	3.93
2N3053/ 40053	TDP	TO-5	5	60	50	1.4	100§	.99	.69
2N1479	DJ	TO-5	5	60	20	1.4	1.5#	2.15	1.48
2N1481	HO	TO-5	5	60	35	1.4	1.5	2.48	1.71
2N1700	HO	TO-5	5	60	20	1.0	....	1.90	1.31
40347	HO	TO-5	5	60	20	1.0	....	.80	.55
2N2270	TDP	TO-5	5	60	35	0.9	60§	1.16	.80
40360	DJ	TO-5	5	70	40	1.4	100	1.03	.71
40361	DJ	TO-5	5	70″	40	1.4	100	1.04	.72
2N2102	TDP	TO-5	5	80	35	0.5	60§	1.41	.97
40348	HO	TO-5	5	90°	30	0.75	....	1.06	.73
2N2405	TDP	TO-5	5	90	60	0.2	120§	2.06	1.43
2N1480	HO	TP-5	5	100	20	1.4	1.5	2.31	1.60
2N1482	HO	TO-5	5	100	35	1.4	1.5	3.30	2.28
40349	HO	TO-5	5	160	24	0.5	....	1.56	1.08
2N3440	TD	TO-5	5	....	40	0.5	20§	2.06	1.43
2N3439	TD	TO-5	5	....	40	0.5	20§	4.13	2.85

GERMANIUM PNP—P_T to 50W

2N1183	A1	TO-8	7.5	45	20	0.5	0.5§	1.82	1.25
2N1184	A1	TO-8	7.5	45	40	0.5	0.5§	2.48	1.71
2N1183A	A1	TO-8	7.5	60	20	0.5	0.5§	2.31	1.60
2N1184A	A1	TO-8	7.5	60	40	0.5	0.5§	2.81	1.94
2N1183B	A1	TO-8	7.5	80	20	0.5	0.5§	2.89	2.00
2N1184B	A1	TO-8	7.5	80	40	0.5	0.5§	4.13	2.85
2N2869/ 2N301	A1	TO-3	30	50	50	0.75	0.45	1.52	1.05
2N2870/ 2N301A	A1	TO-3	30	50	50	0.75	0.45	3.15	2.18
2N1905	DF	TO-3	50	40	50	1	7.5	4.13	2.85
2N1906	DF	TO-3	50	40	75	1	7.5	6.60	4.56

SILICON NPN TRANSISTORS—V_{CE} (sat) at I_c

Type No.	S	Case	P_T Max. @25°C W.	V_{CE} V.	h_{FE} Min.	V_{CE} (sat) Max. V.	f_T(typ) f_{hfb} (typ) Mc/s	EACH 1-99	EACH 100-999
40250V1	DJ	N	5.8	40	25	1.5	1	1.65	1.14
2N3262	EP	TO-39	8.75	100	40	0.6	....	9.90	6.85
40255	TD	D	10	.....	40	0.5	20§	4.79	3.31
40256	TD	D	10	.....	40	0.5	20§	2.72	1.88
2N3231§§	EP	F	20	100	2000	2	40§	99.00	68.40
40278	High-Reliability Type from 2N3231 family.							181.50	125.40
2N1483	DJ	TO-8	25	60	20	2	1.25#	2.89	2.00
2N1485	DJ	TO-8	25	60	35	0.75	1.25#	4.46	3.08
2N1701	DJ	TO-8	25	60	20	1.5	....	2.31	1.60
2N3054	TDP	TO-66	25	90	20	1.0	1.2§	2.06	1.43
2N1484	DJ	TO-8	25	100	20	2	1.25#	3.63	2.51
2N1486	DJ	TO-8	25	100	35	0.75	1.25#	6.77	4.67
2N3230§§	EP	F	25	80	2000	2	40§	66.00	45.60
2N3441	DJ	TO-66	25	160	20	1	....	2.89	2.00
40250	DJ	TO-66	29	50	25	1.5	....	1.57	1.09
2N3583	TD	TO-66	35	.....	10	......	10§	3.30	2.28
2N3584	TD	TO-66	35	.....	25	0.75	10§	6.60	4.56
2N3585	TD	TO-66	35	.....	25	0.75	10§	13.20	9.10
2N3878	EX	TO-66	35	65″	50	2	40	4.54	3.14
2N3879	EX	TO-66	35	90″	40	1.2	40	5.36	3.71

RCA Audio-Frequency Transistors

See Page 74 for Illustrations of Cases and Information on Column Headings and Symbols Used on This Page.

HOW TO ORDER
When ordering, specify Department Number, 49 D 1, then add RCA type or JEDEC type number. Ex.: 49 D 1 40084.

SMALL-SIGNAL TRANSISTORS Class A
GERMANIUM PNP—P_T to 150mw

Type No.	S	Case	Maximum P_T @25°C Mw.	Maximum V_{CB} V.	Maximum I_C Ma	Maximum I_{CBO} μa	Typical h_{fe}	Typical f_T Mc/s	EACH 1-99	EACH 100-999
2N175	AI	TO-40	20	10	2	12	65	0.85#	1.64	1.13
2N220	AI	TO-1	20	10	2	12	65	0.85#	1.52	1.05
2N591	AI	TO-1	50	32	20	7	70	0.7#	.48	34
2N2613	AI	TO-1	100	30	50	5	200	10#	.55	.38
2N2614	AI	TO-1	100	40	50	5	160	10#	.50	.35
40263	AI	TO-1	120	20	50	....	160	10#	.42	.29
2N104	AI	TO-40	150	30	50	10	44	0.7#	1.65	1.14
2N215	AI	TO-1	150	30	50	10	44	0.7#	1.73	1.20
2N405	AI	TO-40	150	20	35	14	35	0.65#	.37	.25
2N406	AI	TO-1	150	20	35	14	35	0.65#	.33	.23

GERMANIUM NPN

2N1010	AI	TO-1	20	10	2	10	35	2.0#	2.89	2.00

SILICON NPN

40231	P	B	500	18	100	0.5	80	60	.47	.32
40232	P	B	500	18	100	0.5	175	60	.53	.37
40233	P	B	500	18	100	0.25	175	60	.60	.42
40234	P	B	500	18	100	0.25	80	60	.42	.29
2N3241	P	B	500	30	100	0.1	150	60	.73	.51
2N3242	P	B	500	30	200	0.01	150	60	.83	.57
2N718A	TDP	TO-18	1.8W	75	....	0.01	35§	100	1.08	.72
2N720A	TDP	TO-18	1.8W	120	....	0.01	30§	100	1.32	.88
2N2895	TDP	TO-18	1.8W	120	1A	0.002	50§	120§	1.41	.97
2N2896	TDP	TO-18	1.8W	140	1A	0.01	50§	120§	2.06	1.43
2N2897	TDP	TO-18	1.8W	60	1A	0.05	50§	100§	1.16	.80
2N2900	TDP	TO-46	1.8W	60	1A	0.05	50§	100§	1.90	1.31
40084	TDP	TO-18	1.8W	60	1A	0.25	5§	100§	.99	.69
2N2102	TDP	TO-5	5.0W	120	1A	0.002	40§	120§	1.41	.97
2N2270	TDP	TO-5	5.0W	60	1A	0.1	30§	100§	1.16	.80
2N2405	TDP	TO-5	5.0W	120	1A	0.01	30§	120§	2.06	1.43
2N3053/40053	TDP	TO-5	5.0W	60	0.7A	0.25	5§	100§	.99	.69

LARGE-SIGNAL TYPES Classes A & B
GERMANIUM PNP—P_T to 50W

Type No.	S	Case	Maximum P_T @25°C W.	Maximum V_{CB} V.	Maximum I_C A.	Maximum I_{CBO} μa	Typical h_{fe} @I_C	Typical f_T Mc/s	EACH 1-99	EACH 100-999
2N407	AI	TO-40	0.15	20	0.07	14	65	.....	.42	.29
2N408	AI	TO-1	0.15	20	0.07	14	65	.....	.38	.27
2N109	AI	TO-40	0.165	35	0.15	14	75	1.0#	.60	.41
2N217	AI	TO-1	0.165	35	0.15	14	75	1.0#	.52	.36
40329	AI	TO-1	0.25	....	0.10	14	90	1.5	.38	.27
2N270	AI	*TO-7	0.25	25	0.075	16	70	1	.70	.48
2N2953	AI	TO-1	0.30	30	0.15	5	350	1	.50	.35
40253	AI	TO-1	0.65	25	0.50	14	75	1	.53	.37
2N1183	AI	TO-8	7.5	45	3	30	40	0.5#	1.82	1.25
2N1183A	AI	TO-8	7.5	60	3	30	40	0.5#	2.31	1.60
2N1183B	AI	TO-8	7.5	80	3	30	40	0.5#	2.89	2.00
2N1184	AI	TO-8	7.5	45	3	30	80	0.5#	2.48	1.71
2N1184A	AI	TO-8	7.5	60	3	30	80	0.5#	2.81	1.94
2N1184B	AI	TO-8	7.5	80	3	30	80	0.5#	4.13	2.85
2N176	AI	TO-3	10	40	3	3 ma	63	.....	1.31	.90
2N351	A1	TO-3	10	40	3	3 mv	65	.....	1.73	1.20
2N376	A1	TO-3	10	40	3	3 mv	78	.....	1.88	1.30
2N301	See 2N2869/2N301 below									
2N301A	See 2N2870/2N301A below									
2N2147	DF	TO-3	12.5	75	5	1ma	150	4.0	1.57	1.09
2N2148	DF	TO-3	12.5	60	5	100	80	3.0	1.16	.80
40022	AI	TO-3	12.5	32	5	500	50	0.3	.83	.57
40050	AI	TO-3	12.5	40	5	500	90	0.5	.99	.69
40051	AI	TO-3	12.5	50	5	1ma	90	0.5	1.21	.84
40254	AI	TO-3	12.5	32	5	3ma	70	0.3	.78	.54
2N2869/2N301	AI	TO-3	30	60	10	500	90	0.45	1.52	1.05
2N2870/2N301A	AI	TO-3	30	80	10	500	90	0.45	3.15	2.18
2N1905	DF	TO-3	50	60	10	500	90	7.5	4.13	2.85
2N1906	DF	TO-3	50	100	10	500**	125	7.5	6.60	4.56
2N173	AI	TO-36	150	60	15	100**	25	.....	3.75	2.59
2N174	AI	TO-36	150	80	15	100**	20	.....	4.01	2.77
2N277	AI	TO-36	150	40	15	100**	25	.....	2.72	1.88
2N278	AI	TO-36	150	50	15	100**	25	.....	3.10	2.14
2N441	AI	TO-36	150	40	15	100**	20	.....	2.23	1.54
2N442	AI	TO-36	150	50	15	100**	20	.....	2.31	1.60

LARGE-SIGNAL TYPES Classes A & B (Cont'd.)
GERMANIUM NPN

Type No.	S	Case	Maximum P_T @25°C	Maximum V_{CB} V.	Maximum I_C A.	Maximum I_{CBO} μa	Typical h_{fe} @I_C	Typical f_T Mc/s	EACH 1-99	EACH 100-999
2N443	AI	TO-36	150	60	15	100**	20	.....	2.39	1.65
2N1099	AI	TO-36	150	80	15	100**	25	.....	4.31	2.98
2N1100	AI	TO-36	150	100	15	100**	20	.....	5.02	3.47
2N1358	AI	TO-36	150	80	15	200**	55**	.....	4.59	3.17
2N1412	AI	TO-36	150	100	15	100**	20**	.....	5.76	3.98
2N647	AI	TO-1	0.1	25	0.05	.....	70**	.....	1.08	.75
2N649	AI	TO-1	0.1	20	0.05	.....	65**	.....	.86	.60

SILICON NPN—P_T to 50W

40084	P	TO-18	1.8	60	1.0	0.25	50	100§	.99	.69
2N699	P	TO-5	2	120	.....	2	40	50	1.57	1.05
2N1711	TD	TO-5	3	75	1.0	0.01	100	70§	1.16	.77
40264	DJ	E	4	300	0.05	100	60**	25	1.21	.84
40360	DJ	TO-5	5	....	0.7	......	40	100	1.03	.71
40361	DJ	TO-5	5	.....	0.7	......	70	100	1.04	.72
2N1700	HO	TO-5	5	60	1	75	20	....	1.90	1.31
40347	HO	TO-5	5	60	1	1	20	....	.80	.55
2N1479	HO	TO-5	5	60	1.5	10	20	....	2.15	1.48
2N1481	HO	TO-5	5	60	1.5	10	35	....	2.48	1.71
40348	HO	TO-5	5	90	1	1	30	....	1.06	.73
2N1480	HO	TO-5	5	100	1.5	10	20	....	2.31	1.60
2N1482	HO	TO-5	5	100	1.5	10	35	....	3.30	2.28
40349	HO	TO-5	5	160	1	10	25	....	1.56	1.08
2N3585	TD	TO-66	5	500	2	5 ma	40	10	13.20	9.10
40309	TDP	TO-5	5	†† 18	0.7	0.25	70	100	.70	.48
40311	TDP	TO-5	5	†† 30	0.7	0.25	70	100	.73	.51
40314	TDP	TO-5	5	†† 40	0.7	0.25	35	100	.78	.54
40315	TDP	TO-5	5	†† 35	0.7	0.25	70	100	.75	.52
40317	TDP	TO-5	5	†† 40	0.7	0.25	40	100	.78	.54
40320	TDP	TO-5	5	†† 40	0.7	0.25	40	....	.78	.54
40321	TDP	TO-5	5	††300	1	100	25	....	1.24	.86
40323	TDP	TO-5	5	†† 18	0.7	0.25	70	100	.70	.48
40326	TDP	TO-5	5	†† 40	0.7	0.25	40	....	.78	.54
40327	TDP	TO-5	5	††300	1	5	40	....	1.24	.86
40250VI	DJ	N	5.8T_{FA}	50	4	1	25	1	1.65	1.14
2N3584	DJ	TO-66	7.5	375	2	5 ma	40	10§	6.60	4.56
2N3583	DJ	TO-66	15	250	2	10 ma	40	10§	3.30	2.28
2N1483	DJ	TO-8	25	60	3	15	20	....	2.89	2.00
2N1484	DJ	TO-8	25	100	3	15	20	....	3.63	2.51
2N1485	DJ	TO-8	25	60	3	15	35	....	4.46	3.08
2N1486	DJ	TO-8	25	100	3	15	35	....	6.77	4.67
2N1701	DJ	TO-8	25	60	2.5	100	20	....	2.31	1.60
2N3054	DJ	TO-66	25	90	4	......	25	1.0	2.06	1.43
40250	DJ	TO-66	29	††40	4	1ma	25	1	1.57	1.09
40310	DJ	TO-66	29	††35	4	10	20	0.75	1.21	.84
40312	DJ	TO-66	29	60	4	10	20	0.75	1.26	.87
40316	DJ	TO-66	29	40	4	10	20	0.75	1.21	.84
40324	DJ	TO-66	29	35	4	10	20	0.75	1.21	.84
40364	DJ	TO-66	35	.....	7	......	20	15	4.46	3.08
40313	TD	TO-66	35	300	2	5 ma	40	....	2.23	1.54
40318	TD	TO-66	35	300	2	......	50	....	2.10	1.45
40322	TD	TO-66	35	300	2	......	75	....	2.15	1.48
40328	TD	TO-66	35	300	2	......	20	....	2.19	1.52
2N1487	DJ	TO-3	75	40	6	25	15	....	4.54	3.14
2N1488	DJ	TO-3	75	55	6	25	15	....	4.95	3.42
2N1489	DJ	TO-3	75	40	6	25	25	....	7.43	5.13
2N1490	DJ	TO-3	75	55	6	25	25	....	8.25	5.70
2N1702	DJ	TO-3	75	40	5	200	15	....	4.54	3.14
2N3263	E	C	75	90	25	4ma	25	20§	99.00	68.40
2N3264	E	C	75	60	25	10ma	20	20§	66.00	45.60
40363	DJ	TO-3	115	.....	15	......	20	0.7	2.48	1.71
2N3055	DJ	TO-3	115	60	15	......	20	0.5	2.89	2.00
2N3442	DJ	TO-3	117	140	10	5ma	....	....	4.95	3.42
40251	HO	TO-3	117	††40	15	5ma	15	0,5	2.89	2.00
40325	DJ	TO-3	117	35	15	5ma	12	....	2.48	1.71
2N3265	E	TO-63	125	90	25	4ma	25	20§	99.00	68.40
2N3266	E	TO-63	125	60	25	10ma	20	20§	66.00	45.60
2N2015	DJ	TO-36	150	50	10	50	15	....	9.08	6.25
2N2016	DJ	TO-36	150	65	10	50	15	....	9.90	6.85
2N2338	DJ	TO-36	150	40	7.5	200	15	....	6.60	4.56

SILICON PNP—P_T to 5W

40319	DEP	TO-5	5	40	0.7	0.25	35	0.75	1.32	.92
40362	DJ	TO-5	5	.....	0.7	.....	35	1.00	1.46	1.01

See Previous Pages for Additional Listings of RCA Semiconductors

RCA Transistors for AF and RF

HOW TO ORDER

When ordering, specify Department Number, 49 D 1, then add RCA type or JEDEC type number. Ex: 49 D 1 2N3932.

EXPLANATION OF COLUMN HEADINGS AND SYMBOLS

See Page 74 for Case Illustrations and Information on Column Headings and Symbols Used on This Page.

See Previous Pages for Additional Listings of RCA Semiconductor Devices for a Wide Variety of Applications.

TRANSISTORS FOR RF APPLICATIONS

UHF AND VHF SMALL SIGNAL TRANSISTORS

SILICON NPN—f_T to 1000Mc

Type No.	S	Case	G_p (Typ.) @ Oper. Freq. Mc	db	f_T Typ. Mc/s	h_{fe} Typ. @ I_c	V_{CB} Max. V.	EACH 1-99	100-999
2N3478	EXP	A	470	12	900	9.0	30	1.90	1.31
2N2857	EXP	TO-72	450	12.5	1000	50§	30	6.60	4.56
40294	Like 2N2857, But for use in military applications.							33.40	23.10
40296								48.70	33.65
40235	EXP	A	216	18.1	1200	TV Tuner	35	.98	.68
2N918	EXP	TO-72	200	18	600	....	30	3.30	2.20
2N3600	EXP	TO-72	200	17	850§	8.5§	30	4.13	2.85
2N3933	EXP	TO-72	200	14§	750§	7.5§	40	2.31	1.60
2N2708	EXP	TO-72	200	12	700§	30§	35	3.71	2.57
40295	High reliability version of 2N2708 for military applications							14.85	10.25
2N917	EXP	TO-72	200	11.5	500§	....	30	2.48	1.65
2N3932	EXP	TO-72	200	11.5§	750§	7.5§	30	2.06	1.43
40242	P	A	100	38.5	FM-RF Stages		35	.93	.64
40238	P	A	45	28	900§	For TV	35	.83	.57
40239	P	A	45	28	900§	IF Amp	35	.81	.56
40240	P	A	45	28	900§	Service	35	.80	.55

GERMANIUM PNP TRANSISTORS

Type No.	S	Case	Mc	db	f_T Typ. Mc/s	h_{fe} Typ. @ I_c	V_{CB} Max. V.	1-99	100-999
2N1178	DF	TO-45	120	Osc.	140	48	30	.81	.56
2N1179	DF	TO-45	100	17	140	80	30	.81	.56
2N1177	DF	TO-45	100	14	140	100	30	.83	.57
2N1023	DF	TO-44	50	24	120	60	40	2.72	1.88
2N1066	DF	TO-33	50	24	30	40	40	1.98	1.37
2N1397	DF	TO-33	50	24	120	90	40	2.15	1.48
40006	TO-44 Version of 2N1397							3.30	2.28
2N384	DF	TO-44	50	21	100	60	40	1.65	1.14
2N1225	DF	TO-33	50	21	100	60	40	1.41	.97
2N1396	DF	TO-33	50	21	100	60	40	1.65	1.14
40005	TO-44 Version of 2N1396							2.53	1.76

IF, RF, AND VIDEO AMPLIFIERS

GERMANIUM PNP—Freq. to 30Mc

2N370	DF	TO-7	20	17	30	100	24	.81	.56
2N1226	DF	TO-33	12.5	22	30	60	60	1.49	1.03
2N274	DF	TO-44	12.5	27	30	60	40	1.24	.86
2N1224	DF	TO-33	12.5	27	30	60	40	1.24	.86
2N1395	DF	TO-33	12.5	27	30	90	40	1.49	1.03
40004	TO-44 Version of 2N1395							1.65	1.14
2N1285	DF	TO-33	12.5	27	.....	30	40	1.72	1.19
2N1180	DF	TO-45	10.7	36	100	80	30	.68	.47
2N1631	DF	TO-40	1.5	47.7	45	80	34	.53	.37
2N1632	DF	TO-1	1.5	47.7	45	80	34	.49	.34
2N1637	DF	TO-1	1.5	47.7	45	80	34	.52	.36
40262	DF	TO-1	0.455	56	30	150	50	.40	.28
2N139	Al	TO-40	0.455	37	4.7	48	16	1.16	.80
2N218	Al	TO-1	0.455	37	4.7	48	16	1.16	.80
2N409	Al	TO-40	0.455	37.8	6.7	48	13	.43	.30
2N410	Al	TO-1	0.455	37.8	6.7	48	13	.40	.28
2N1524	DF	TO-1	0.455	54.4	33	60	24	.40	.28
2N1525	DF	TO-40	0.455	54.4	33	60	24	.43	.30
2N1638	DF	TO-1	0.262	61.5	40	75	34	.45	.31

HOW TO ORDER CONANT RECTIFIERS

To order Conant Instrument Rectifiers, specify Department Number 49 D 22, followed by type number. Ex.: 49 D 22 BHS.

Order from Allied and be sure of prompt shipment. At Allied you always pay the lowest prices—and you get the best service.

IF, RF, AND VIDEO AMPLIFIERS (Cont'd)

GERMANIUM PNP—Freq. to 30Mc

Type No.	S	Case	G_p (Typ.) @ Oper. Freq. Mcs	db	f_{hfb} Typ. Mc/s	h_{fe} Typ. @ I_c	V_{CB} Max. V.	EACH 1-99	100-999
40080	TDP	TO-5	27	0.1‡‡	For CB xmtrs			1.08	.75
40081	TDP	TO-5	27	0.4‡‡				1.65	1.14
40082	TDP	TO-39	27	3.0‡‡				5.69	3.93
40245	P	A	10.7	33.2	For FM IF		35	.81	.56
40246	P	A	10.7	33.2	Amp. Stages		35	.80	.55

CONVERTER, OSCILLATOR AND MIXER TYPES

GERMANIUM PNP TRANSISTORS

2N1178	DF	TO-45	120	Osc	140	40	30	.81	.56
2N1179	DF	TO-45	100	17	140	80	30	.81	.56
2N371	DF	TO-7	23	Osc	30	80	24	.80	.55
2N372	DF	TO-7	10	26.2	30	80	24	.80	.55
40261	DF	TO-1	1.5	53	40	80	50	.43	.30
2N1526	DF	TO-1	1.5	48.9	33	130	24	.41	.28
2N1527	DF	TO-40	1.5	48.9	33	130	24	.47	.32
2N1639	DF	TO-1	1.5	37	45	75	34	.48	.34
2N140	Al	TO-40	1	32	10	75	16	1.24	.86
2N219	Al	TO-1	1	32	10	75	16	1.24	.86
2N411	Al	TO-40	1	32	10	75	13	.47	.32
2N412	Al	TO-1	1	32	10	75	13	.43	.30

SILICON NPN TRANSISTORS

40236	P	A	216	19	For TV		35	.90	.62
40237	P	A	216	......	Tuner Use		35	.83	.57
40243	P	A	100	37.6	FM Mixer		35	.86	.60
40244	P	A	120	Osc.	FM Osc.		35	.83	.57

GERMANIUM COMPENSATING DIODE—TO-1 Pkg.

1N2326	V_R (max.) = −1.0 volt	I_F(max.) = 100 ma	E_{FWD} @ 25°C = 135 mv	.50	.35

UHF AND VHF LARGE-SIGNAL POWER TYPES

SILICON NPN TRANSISTORS—f_T to 550Mc

Type No.	S	Case	Po Min. @ Oper Freq. Mc/s	W.	f_T Typ. Mc/s	Maximum V_{CBO} V.	P_T W.	EACH 1-99	100-999
2N3733	OV	TO-60	400	10	400	65	23	49.50	34.20
2N3375	OV	TO-60	400	3	500	65	11.6	23.10	15.95
40306	High Reliability Version of 2N3375							46.20	31.90
40279	Ultra-High reliability version of 2N3375							125.00	125.00
2N3866	OV	TO-39	400	1	800	55	5	4.95	3.42
2N3632	EP	TO-60	260	10**	400	65	23	33.00	22.80
40307	High Reliability Version of 2N3632							99.00	68.40
2N3553	EP	TO-39	260	2.5**	500	65	7	4.95	3.42
40305	High Reliability Version of 2N3553							24.75	17.10
40282	EP	TO-60	175	12	350	36	23.2	33.00	22.80
40281	EP	TO-60	175	4	400	36	11.6	23.10	15.95
40280	EP	TO-39	175	1	550	36	7	4.62	3.19
40292	EP	TO-60	135	6	300	.....	23.2	29.70	20.50
40290	EP	TO-39	135	2	500	.....	7	4.79	3.31
40291	EP	TO-60	135	2	500	.....	11.6	14.85	10.25
2N1493	TD	TO-5	70	0.5**	180§	100	3	7.01	4.85
2N1492	TD	TO-5	70	0.1**	180§	60	3	4.29	2.96
2N1491	TD	TO-5	70	0.01**	180§	30	3	1.82	1.25
40341	TD	TO-60	50	30	.....	80	70	33.00	22.80
40340	TD	TO-60	50	25	.....	60	70	33.00	22.80
2N3229	TDP	TO-60	50	15	200	105	17.5	46.20	31.90
2N2876	TDP	TO-60	50	10	200	80	17.5	14.50	10.05
2N2631	TDP	TP-39	50	7.5	200	80	8.75	4.79	3.31
2N3118	TDP	TO-5	50	1	250	.....	4	4.95	3.42
2N699	TDP	TO-5	....	....	50	120	2	1.57	1.05

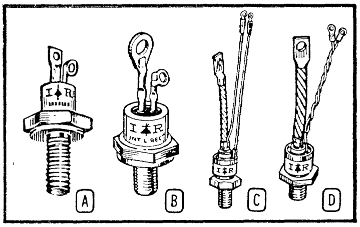
CONANT INSTRUMENT RECTIFIERS

Copper oxide cells with 24 carat gold contacts applied in high vacuum. All have color coded insulated wire leads, and input of 5 volts. Ideal for new equipment or as exact replacement in relays or meters. **Series 500:** For apparatus drawing up to 100 ma. Cell size, .500″. Active area, .125 sq. in. Mtg., 6-32 stud. Lacquer finish. **Series 160, 160U, and 160C:** Differ only in construction, excellent for use in VOM or VTVM. Cell size, .166″. Active area, .012 sq. in. Mtg., #2 screw, except 160C, fuse clip. Solid fill finish. **Series 80:** Microminiature units. Cell size, .080″. Active area, .0012 sq. in. Mtg., #2 screw. Bonded vinyl finish.

Type No.	Series	Output Ma	EA.	Type No.	Series	Output Ma	EA.
M	500	100	2.10	BHS-U	160U	5	1.41
B	160	10	2.10	B-C	160C	10	2.10
BHS	160	5	1.53	A	80	1	2.10
B-U	160U	10	1.98	....	....	....	.....

Silicon and Selenium Rectifiers

SILICON CONTROLLED RECTIFIERS



[A] 3 AMPS

*Maximum repetitive peak reverse voltage.

JEDEC No.	IR No.	*	EACH 1-99	100-999
2N1600	3RC5A	50	5.10	3.40
2N1601	3RC10A	100	5.70	3.95
2N1602	3RC20A	200	9.45	6.30
2N1603	3RC30A	300	13.50	9.00
2N1604	3RC40A	400	16.80	10.80

[A] 5 AMPS

2N1770	5RC2A	25	5.00	3.30
2N1771	5RC5A	50	5.40	3.60
2N1772	5RC10A	100	6.55	4.00
2N1773	5RC15A	150	8.75	4.85
2N1774	5RC20A	200	9.35	5.60
2N1775	5RC25A	250	12.80	6.25
2N1776	5RC30A	300	14.80	7.50
2N1777	5RC40A	400	17.95	8.35
2N1778	5RC50A	500	22.50	12.10
2N1770A	5RC2B	20	5.50	3.63
2N1771A	5RC5B	50	6.30	3.97
2N1772A	5RC10B	100	8.10	4.40
2N1773A	5RC15B	150	10.00	5.35
2N1774A	5RC20B	200	12.10	6.15
2N1775A	5RC25B	250	14.20	6.87
2N1776A	5RC30B	300	16.50	8.25
2N1777A	5RC40B	400	21.25	9.20

[B] 10 AMPS

2N1842	10RC2	25	6.00	3.50
2N1843	10RC5	50	6.75	3.85
2N1844	10RC10	100	7.40	4.20
2N1845	10RC15	150	9.05	4.95
2N1846	10RC20	200	10.80	5.90
2N1847	10RC25	250	12.75	6.60
2N1848	10RC30	300	15.10	7.95
2N1849	10RC40	400	18.00	9.25
2N1850	10RC50	500	20.40	11.15
2N1842A	10RC2A	25	6.95	3.85
2N1843A	10RC5A	50	7.60	4.25
2N1844A	10RC10A	100	8.30	4.62
2N1845A	10RC15A	150	10.25	5.40
2N1846A	10RC20A	200	11.70	6.49
2N1847A	10RC25A	250	14.50	7.25
2N1848A	10RC30A	300	16.00	8.75
2N1849A	10RC40A	400	19.60	10.70
2N1850A	10RC50A	500	22.50	12.25

[B] 16 AMPS

2N681	16RC2A	25	7.65	4.50
2N682	16RC5A	50	8.35	5.00
2N683	16RC10A	100	9.20	5.45
2N684	16RC15A	150	11.50	6.30
2N685	16RC20A	200	12.80	7.48
2N686	16RC25A	250	16.20	8.35
2N687	16RC30A	300	18.35	10.10
2N688	16RC40A	400	23.00	11.45
2N689	16RC50A	500	28.70	13.95
2N690	16RC60A	600	33.70	15.50
2N691	16RC70A	700	38.50	21.75
2N692	16RC80A	800	44.00	24.00
....	16RC100A	1000	53.00	30.00

[C] 35 AMPS

*Maximum repetitive peak reverse voltage.

JEDEC No.	IR No.	*	EACH 1-9	10-99
....	36RC10A	100	19.30	15.10
....	36RC20A	200	25.30	20.00
....	36RC30A	300	34.10	26.70
....	36RC40A	400	45.00	35.25
....	36RC50A	500	54.25	40.75

[C] 35 AMPS (Cont'd)

*Maximum repetitive peak reverse voltage.

JEDEC No.	IR No.	*	EACH 1-9	10-99
....	36RE60	600	54.40	40.50
....	36RE80	800	75.50	56.60
....	36RE100	1000	106.00	79.50
....	36RE120	1200	144.00	108.00

[C] 70 AMPS

*Maximum repetitive peak reverse voltage.

JEDEC No.	IR No.	*	EACH 1-9	10-99
2N1909	70RC2A	25	17.50	13.50
2N1910	70RC5A	50	22.30	16.50
2N1911	70RC10A	100	25.90	19.80
2N1912	70RC15A	150	30.00	22.75
2N1913	70RC20A	200	34.20	25.00
2N1914	70RC25A	250	40.00	28.00
2N1915	70RC30A	300	45.50	32.50
2N1916	70RC40A	400	60.00	38.50

[C] 70-AMP EPITAXIAL BULK AVALANCHE

2N3091	71RE60	600	94.50	73.50
2N3093	71RE80	800	136.00	96.50
2N3095	71RE100	1000	198.00	127.00
2N3097	71RE120	1200	268.00	159.00

[D] 150-AMP BULK AVALANCHE

High current type. Temperature range, —40°C. to +125°C.

IR Type Number	Max. PRV	EACH 1-9	10-99
151REB20	200	107.80	85.25
151REB40	400	157.30	115.50
151REB60	600	213.95	157.30
151REB80	800	319.00	210.10
151REB100	1000	396.00	283.80
151REB120	1200	489.50	352.00

SELENIUM STACKS—POWER RECTIFIERS AND BATTERY-CHARGING TYPES

All are bridge-connected, except J14C04, J14C1, J14C5, J14C8—have center-tapped common cathode; JD-4346B—center-tapped common anode. All battery-charger types are single plate for trickle chargers, except JD-4346B—a universal fast-charger replacement. *Rated 100 amps when fan-cooled at 800 linear feet/minute. †Maximum. Battery charger-types: DC output v. 0-13. AC input v: 16.5/33 v.

HIGH-DENSITY POWER RECTIFIERS

Type No.	†AC Input Volts	DC V	DC A	EACH 1-9	10-99
J14C04	36	14	0.4	1.04	.80
J14C1	36	14	1.5	1.52	1.29
J14C5	36	14	4.8	3.90	3.30
J14C8	36	14	8.4	5.34	4.52
J29B04	36	29	0.4	1.70	1.44
J29B1	36	29	1.5	2.48	2.10
J29B5	36	29	4.8	7.02	5.94
J29B8	36	29	8.4	10.25	8.25
J58B04	72	58	0.4	3.41	2.88
J58B1	72	58	1.5	4.90	4.15
J58B5	72	58	4.8	13.98	11.83
J58B8	72	58	8.4	19.38	16.40
J116B04	144	116	0.4	6.08	5.15
J116B1	144	116	1.5	8.91	7.54
J116B5	144	116	4.8	26.48	22.41
J116B8	144	116	8.4	37.13	31.42
J135B04	180	135	0.4	7.70	6.26
J135B1	180	135	1.5	10.86	9.19
J135B5	180	135	4.8	32.72	27.69

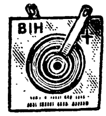
BATTERY-CHARGING TYPES

Type No.	DC Amps	Wt., Lbs.	EACH 1-9	10-99
JD-4346B	*30	3	19.03	16.10
JD-116K	2	2	1.75	1.49
JD-117K	2.7	2	2.34	2.00
JD-241K	6.0	2	3.35	3.04

HOW TO ORDER

When ordering, specify Department Number 49 D 24, then add IR number or JEDEC type number. Example: 49 D 24, IR Number 3RC5A, JEDEC number 2N1600.

LOW-VOLTAGE STACKS



Miniature seleniums All rated at 25 v. rms max., except Q4B, 130 v. rms max. H in Type No. indicates single-plate half-wave; B, full-wave bridge rectifier.

Mfr's Type	Max. DC Ma	Size	EACH 1-99	100-999
Q1H	65	$4\frac{3}{64}$x$4\frac{3}{64}$x$\frac{7}{16}$"	.38	.23
A1H	100	1x1x$\frac{7}{16}$"	.43	.30
B1H	150	$1\frac{13}{64}$x$1\frac{13}{64}$x$\frac{7}{16}$"	.40	.28
C1H	250	$1\frac{1}{2}$x$1\frac{1}{2}$x$\frac{7}{16}$"	.42	.29
M1H	500	2x2x$\frac{7}{16}$"	.56	.34
Q1B	100	$\frac{43}{64}$x$\frac{43}{64}$x$\frac{7}{16}$"	.55	.33
Q4B	100	$\frac{43}{64}$x$\frac{43}{64}$x$\frac{15}{16}$"	1.56	.94
A1B	180	1x1x$\frac{3}{4}$"	1.22	.82
B1B	300	$1\frac{13}{64}$x$1\frac{13}{64}$x$\frac{3}{4}$"	1.28	.86
C1B	600	$1\frac{1}{2}$x$1\frac{1}{2}$x$\frac{3}{4}$"	1.46	1.00
M1B	1200	2x2x$\frac{3}{4}$"	1.72	1.03

SILICON PLUG-IN TUBE-REPLACEMENT RECTIFIERS

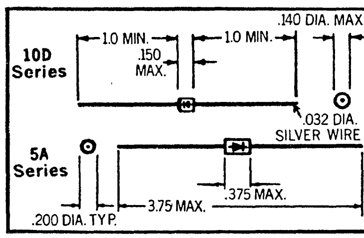
*Order by JEDEC No., below. ST-2, 750 ma; ST-14, 600 ma.

*IR Type No.	1-9, EA.	10-99, EA.
ST-1 to ST-6	9.97	8.90
ST-2A	14.79	13.20
ST-7A	22.25	21.00
ST-14	5.95	5.05

JEDEC No.	IR No.	Replaces Tube Types
1N2630	ST-1	6X4, 12X4
1N2631	ST-2	5AW4, 5AX4, 5AZ4, 5Y3, 5U4, 5T4, 6004
1N2632	ST-2A	5R4, 5R4W
1N2633	ST-3	6AX5, 6W5, 6X5, 6ZY5, 0Z4, 5839, 5852, 5X4
1N2634	ST-4	5Z3, 80, 82, 83, 83V
1N2635	ST-5	6X4, 12X4 (high alt.)
1N2636	ST-6	84/6Z4
1N2637	ST-7A	866, 866A, 3B28
....	ST-14C	5U4, 5T4, 5V4, 5W4, 5Y3, 5Z4, 5AV4, 5AW4, 6004, 5AX4

GENERAL-PURPOSE SILICON RECTIFIERS HANDLE UP TO 1.8 AMPERES

MINIATURE TYPES TO 1000 MA 200-1000 PRV



JEDEC No.	IR No.	Max. PRV (V)	EACH 1-99	100-999
1N2069	10D2	200	.50	.33
....	10D3	300	.55	.40
1N2070	10D4	400	.68	.45
....	10D5	500	.78	.52
1N2071	10D6	600	.87	.58
....	10D8	800	2.00	1.18
....	10D10	1000	2.45	1.43
....	5A2	200	.50	.33
....	5A4	400	.68	.45
....	5A5	500	.78	.52
....	5A6	600	.87	.58
....	5A8	800	2.00	1.18
....	5A10	1000	2.45	1.43

Silicon Rectifiers

EXPLANATION OF COLUMN HEADINGS FOR PAGES 80 AND 81

I_{FWD}, minimum forward current. I_t, test current. I_{ZT}, zener test current. PRV, peak reverse voltage. V_Z, zener voltage. Z_{ZT}, zener dynamic impedance at zener test current.

MINIATURIZED ENCAPSULATED BRIDGE RECTIFIERS TO 1.8 AMPS

Single phase types. *1.5 safety factor of repetitive PRV to WPRV.

Type No.	Max. PRV (V)	Typ. rms V*	EACH 1-99	EACH 100-999
10DB2A	200	95	2.50	2.25
10DB3A	300	140	2.60	2.35
10DB4A	400	190	2.75	2.48
10DB5A	500	235	2.90	2.60
10DB6A	600	280	3.05	2.75
10DB7A	700	330	3.35	3.00
10DB8A	800	380	3.60	3.24
10DB10A	1000	470	5.40	4.85

1-PHASE ENCAPSULATED BRIDGE RECTIFIERS TO 10 AMPS

Extremely compact full-wave units. Max. DC at 55°C, 10 amps. Max. peak 1-cycle surge at 60 cps, 300 amps. Max. recurrent peak forward current, 60 amps. —65 to +150°C.

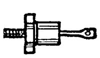
2AFB05AP	50	18	4.05	3.25
2AFB1AP	100	35	4.30	3.45
2AFB2AP	200	70	5.15	4.15
2AFB3AP	300	105	5.55	4.50
2AFB4AP	400	140	6.50	5.30

STANDARD TOP-HATS TO 1800 MA

Type No.	(V) PRV	DC Output Ma @ 50°C	DC Output Ma @ 100°C	EACH 1-99	EACH 100-999
10B1	100	1800	—	.50	.37
10B2	200	1800	—	.55	.40
10B3	300	1800	—	.65	.51
10B4	400	1800	—	.80	.64
10B5	500	1800	—	.95	.75
10B6	600	1800	—	1.10	.88
10B8	800	1800	—	1.60	1.28
10B10	100	1800	—	2.05	1.64
SD-91	100	550	300	.53	.35
SD-91A	100	750	500	.59	.39
SD-92	200	550	300	.63	.42
SD-92A	200	750	500	.68	.46
SD-93	300	550	300	.73	.52
SD-93A	300	750	500	.86	.57
SD-94	400	550	300	.89	.60
SD-94A	400	750	500	.96	.64
SD-95	500	550	300	.99	.67
SD-95A	500	750	500	1.06	.71

LOW-POWER 3-16 AMPS, CASE F

3 AMPS*



*When mounted on 1½x 1½x1/16″ copper fin, free convection cooling. †When mounted on 3x3x1/16″ copper fin, free convection cooling.

JEDEC No.	IR No.	Max. PRV (V)	rms Inp. (V)	EACH 1-99	EACH 100-999
....	3F10	100	70	1.20	.79
....	3F20	200	140	2.20	1.45
....	3F30	300	210	2.75	1.82
....	3F40	400	280	3.85	2.58
....	3F50	500	350	4.95	3.32
....	3F60	600	420	5.85	3.92

IR RECTIFIERS NOT LISTED

Contact your nearest Allied office for information on IR rectifiers not listed.

3 AMPS* (Cont'd)

JEDEC No.	IR No.	Max. PRV (V)	rms Inp. (V)	EACH 1-99	EACH 100-999
....	3F80	800	560	9.05	5.97
....	3F100	1000	700	11.75	7.76

6 AMPS†

1N1341	....	50	35	1.13	.75
1N1342	....	100	70	1.25	.85
1N1343	....	150	105	1.60	1.10
1N1344	....	200	140	2.20	1.46
1N1345	....	300	210	3.15	2.08
1N1346	....	400	280	4.10	2.70
1N1347	....	500	350	4.70	3.10
1N1348	....	600	420	5.50	3.65

6 AMPS HIGH SURGE

1N3987	6F70	700	490	8.25	5.61
1N3988	6F80	800	560	9.10	6.19
1N3989	6F90	900	630	11.05	7.51
1N3990	6F100	1000	700	12.00	8.16

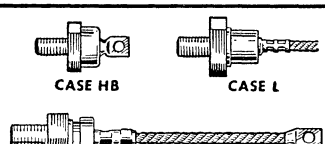
12 AMPS†

1N1199	....	50	35	1.25	.83
1N1200	....	100	70	1.40	.94
1N1201	....	150	105	1.80	1.20
1N1202	....	200	140	2.60	1.75
1N1203	....	300	210	3.50	2.35
1N1204	....	400	280	4.50	3.00
1N1205	....	500	350	5.25	3.50
1N1206	....	600	420	6.10	4.10
1N3670	....	700	490	7.80	5.25
1N3671	....	800	560	8.70	5.85
1N3672	....	900	630	9.40	6.30
1N3673	....	1000	700	9.80	6.60

16 AMPS†

1N3615	16F5	50	35	1.38	.94
1N3616	16F10	100	70	1.54	1.05
1N3617	16F15	150	105	1.98	1.38
1N3618	16F20	200	140	3.03	2.04
1N3619	16F30	300	210	4.10	2.60
1N3620	16F40	400	280	4.90	3.15
1N3621	16F50	500	350	5.60	3.60
1N3622	16F60	600	420	6.70	4.30
1N3623	16F80	800	560	9.00	5.80
1N3624	16F100	1000	700	10.70	6.90

MEDIUM- AND HIGH-POWER 25-250 AMPS



CASE HB CASE L

CASE TYPE U

25-60 AMPS, CASE HB

JEDEC No.	IR No.	Max. PRV (V)	Max. rms (V)	rms (V)	EACH 1-99
1N2128	25HB5	50	35	12	2.40
1N2129	25HB10	100	70	24	3.05
1N2130	25HB15	150	105	36	3.80
1N2131	25HB20	200	140	48	4.50
1N2132	25HB25	250	175	60	5.20
1N2133	25HB30	300	210	72	6.35
1N2134	25HB35	350	245	84	6.50
1N2135	25HB40	400	280	96	6.70
1N2136	25HB45	450	310	108	7.00
1N2137	25HB50	500	350	120	7.30
1N2138	25HB60	600	420	144	8.00
....	25HB80	800	560	192	17.40
....	25HB100	1000	700	240	24.00

40-150 AMPS, CASE L

JEDEC No.	IR No.	Max. PRV (V)	Max. rms (V)	rms (V)	EACH 1-99
1N3111	45L5	50	35	12	7.00
1N3085	45L10	100	70	24	8.00
1N3086	45L20	200	140	48	14.00
1N3087	45L30	300	210	72	17.75
1N3088	45L40	400	280	96	20.00
1N3089	45L50	500	350	120	22.50
1N3090	45L60	600	420	144	24.25
1N3091	45L80	800	560	192	30.10
1N3092	45L100	1000	700	236	42.00

70-250 AMPS, CASE U

1N2054	70U5	50	35	12	12.40
1N2055	70U10	100	70	25	13.90
1N2056	70U15	150	105	36	16.60
1N2057	70U20	200	140	50	18.90
1N2058	70U25	200	140	50	21.00
1N2059	70U30	300	210	75	22.10
1N2060	70U35	350	245	83	22.85
1N2061	70U40	400	280	95	23.95
1N2062	70U45	450	310	106	25.60
1N2063	70U50	500	350	118	30.10
1N2064	70U60	600	420	144	36.00

0.75-1.3 AMP FLANGELESS

Repetitive surge current, 6 amps except 1N2103-1N2108, 1½ amps. *Anode to case; all others cathode to case. Size: .220″ dia. x .345″ long; wire leads.

JEDEC No.	IR No.	Max. PRV (V)	Fwd. Cur. (A)	EACH 1-99	EACH 100-999
....	10C1	100	1.3	.32	.29
....	10C2	200	1.3	.35	.32
....	10C3	300	1.3	.38	.35
....	10C4	400	1.3	.42	.38
....	10C5	500	1.3	.47	.42
....	10C6	600	1.3	.52	.46
....	10C8	800	1.3	.75	.65
....	10C10	1000	1.3	1.70	1.20
1N2103	....	50	0.75	.50	.45
1N2104	....	100	0.75	.54	.48
1N2105	....	200	0.75	.60	.53
1N2106	....	300	0.75	.68	.60
1N2107	....	400	0.75	.76	.67
1N2108	....	500	0.75	.85	.75
1N3639	....	200*	0.75	.60	.40
1N3640	....	400*	0.75	.73	.49
1N3641	....	600*	0.75	1.05	.69
1N3642	....	800*	0.75	1.45	.96

15-40 AMPS, CASE HB

For reverse polarity, add suffix R after Type No. Same price.

Type No.	Max. PRV (V)	EACH 1-99	EACH 100-999
40HF5	50	1.15	.80
40HF10	100	1.45	1.05
40HF20	200	2.00	1.40
40HF30	300	2.55	1.85
40HF40	400	3.05	2.20

400 AMPS, CASE U

Type No.	Max. PRV (V)	EACH 1-24	EACH 25-99	EACH 100-999
400VB5	50	12.10	10.80	9.00
400VB10	100	14.50	12.80	10.80
400VB15	150	15.40	13.70	11.50
400VB20	200	17.60	15.70	13.10
400VB25	250	20.10	17.50	15.10
400VB30	300	23.20	20.00	17.10
400VB40	400	30.20	26.10	22.30
400VB50	500	39.50	33.90	29.10
400VB60	600	52.50	43.30	37.90
400VB70	700	66.80	56.00	49.30
400VB80	800	87.30	72.10	64.00
400VB90	900	95.50	78.30	70.50
400VB100	1000	101.10	86.20	78.20

INDUSTRIAL BUYERS

Allied has huge stocks of IR semiconductor products. They are available for prompt shipment in quantity. You pay lowest OEM price in effect at time your order is received. Contact your nearest Allied office for complete information.

Silicon Zeners and Reference Elements

HOW TO ORDER

When ordering specify Department Number 49 D 24 then add IR type number or JEDEC type number. Ex: 49 D 24 1N1507.

TEMPERATURE-COMPENSATED REFERENCE ELEMENTS

I_t, 7.5 ma. Tolerance, 10%.

Type No.	Volts @ I_t	Temp. Coeff. (%/°C)	EACH 1-99	100 Asst'd	100-999
1N821	5.9-6.5	.01	3.45	2.85	2.30
1N823	5.9-6.5	.005	4.60	3.80	3.05
1N825	5.9-6.5	.002	6.10	5.05	4.05
1N827	5.9-6.5	.001	10.00	8.75	7.50

¾-WATT AXIAL-LEAD TOP HATS

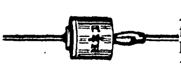
Add suffix "A" for 5% tolerance. No suffix indicates 10% tolerance.

Type No.	Vz (V)	Izt (ma)	Zzt (ohms)	EACH 1-99	100 Asst'd	100-999
1N1507	3.9	35	14			
1N1508	4.7	30	12			
1N1509	5.6	26	5.2	No Suffix,		
1N1510	6.8	22	1.5	10% Tolerance		
1N1511	8.2	18	1.5	2.75	2.45	2.10
1N1512	10	15	1.8			
1N1513	12	12	2.8	"A" Suffix,		
1N1514	15	10	5	5% Tolerance		
1N1515	18	8	9	3.45	3.05	2.65
1N1516	22	6	19			
1N1517	27	5	50			

1-WATT AXIAL-LEAD TOP HATS

1N1518	3.9	50	9	3.00	2.70	2.40
1N1518A	3.9	50	9	3.65	3.50	2.90
1N1519	4.7	40	8.5	3.00	2.70	2.40
1N1519A	4.7	40	8.5	3.65	3.50	2.90
1N1520	5.6	35	5.5	No Suffix,		
1N1521	6.8	30	1.6	10% Tolerance		
1N1522	8.2	25	1.1	2.95	2.63	2.30
1N1523	10	20	1.5			
1N1524	12	15	2.4	"A" Suffix,		
1N1525	15	13	5.4	5% Tolerance		
1N1526	18	10	11	3.60	3.20	2.80
1N1527	22	9	18			
1N1528	27	7	28			

1-WATT 1ZF SERIES



Alloy-junction devices for use where sharp knees, low zener impedance, small size and ease of mounting are of paramount importance. Hermetically sealed for stability. Operating temperature,—65 to +165°C. Tolerance, 10%.

Type No.	Vz (V)	Izt (Ma)	Zzt (ohms)	EACH 1-99	100-999
1ZF3.9T10	3.9	64	15	1.34	1.02
1ZF4.3T10	4.3	58	14	1.34	1.02
1ZF4.7T10	4.7	53	13	1.34	1.02
1ZF5.1T10	5.1	49	12	1.34	1.02
1ZF5.6T10	5.6	45	11	1.34	1.02
1ZF6.2T10	6.2	40	8	1.34	1.02
1ZF6.8T10	6.8	37	3.5	1.12	.85
1ZF7.5T10	7.5	34	4	1.12	.85
1ZF8.2T10	8.2	31	4.5	1.12	.85
1ZF9.1T10	9.1	28	5	1.12	.85
1ZF10T10	10	25	7	1.12	.85
1ZF11T10	11	23	8	1.12	.85
1ZF12T10	12	21	9	1.12	.85
1ZF13T10	13	19	10	1.12	.85
1ZF15T10	15	17	14	1.12	.85
1ZF16T10	16	15.5	16	1.12	.85
1ZF18T10	18	14	30	1.12	.85
1ZF20T10	20	12.5	35	1.12	.85
1ZF22T10	22	11.5	40	1.12	.85
1ZF24T10	24	10.5	60	1.12	.85
1ZF27T10	27	9.8	70	1.12	.85
1ZF30T10	30	8.5	90	1.12	.85

1-WATT AXIAL-LEAD FLANGELESS

Suffix "B" indicates a tolerance of 5%.

Type No.	Vz (V)	Izt (ma)	Zzt (ohms)	EACH 1-99	100 Asst'd	100-999
1N3016B	6.8	37	3.5	3.40	3.05	2.70
1N3017B	7.5	34	4.0	3.40	3.05	2.70
1N3018B	8.2	31	4.5	3.40	3.05	2.70
1N3019B	9.1	28	5.0	3.40	3.05	2.70
1N3020B	10	25	7	3.40	3.05	2.70
1N3021B	11	23	8	3.40	3.05	2.70
1N3022B	12	21	9	3.40	3.05	2.70
1N3023B	13	19	10	3.40	3.05	2.70
1N3024B	15	17	14	3.40	3.05	2.70
1N3025B	16	15.5	16	3.40	3.05	2.70
1N3026B	18	14	20	3.40	3.05	2.70
1N3027B	20	12.5	22	3.40	3.05	2.70
1N3028B	22	11.5	23	3.40	3.05	2.70
1N3029B	24	10.5	25	3.40	3.05	2.70
1N3030B	27	9.5	35	3.40	3.05	2.70
1N3031B	30	8.5	40	3.40	3.05	2.70
1N3032B	33	7.5	45	3.40	3.05	2.70
1N3033B	36	7.0	50	3.40	3.05	2.70
1N3034B	39	6.5	60	3.40	3.05	2.70
1N3035B	43	6.0	70	3.40	3.05	2.70
1N3036B	47	5.5	80	3.40	3.05	2.70
1N3037B	51	5.0	95	3.40	3.05	2.70
1N3038B	56	4.5	110	3.40	3.05	2.70
1N3039B	62	4.0	125	3.40	3.05	2.70
1N3040B	68	3.7	150	3.40	3.05	2.70
1N3041B	75	3.3	175	3.40	3.05	2.70
1N3042B	82	3.0	200	3.40	3.05	2.70
1N3043B	91	2.8	250	3.40	3.05	2.70
1N3044B	100	2.5	350	3.40	3.05	2.70
1N3045B	110	2.3	450	4.20	3.75	3.35
1N3046B	120	2.0	550	4.20	3.75	3.35
1N3047B	130	1.9	700	4.20	3.75	3.35
1N3048B	150	1.7	1000	4.20	3.75	3.35
1N3049B	160	1.6	1000	4.20	3.75	3.35
1N3050B	180	1.4	1200	4.20	3.75	3.35
1N3051B	200	1.2	1500	4.20	3.75	3.35

10-WATT STUD-MOUNTED

For a 5% tolerance, add suffix "A" to the type number. No suffix added to the type number indicates a normal 10% tolerance.

1N1599	3.9	500	.84	5.50	5.00	4.50
1N1599A	3.9	500	.84	7.25	6.75	6.25
1N1600	4.7	400	.68	5.50	5.00	4.50
1N1600A	4.7	400	.68	7.25	6.75	6.25
1N1601	5.6	350	.3	No Suffix,		
1N1602	6.8	300	.2	10% Tolerance		
1N1603	8.2	250	.25	5.00	4.35	3.70
1N1604	10	200	.55			
1N1605	12	170	.95			
1N1606	15	140	1.5			
1N1607	18	110	2	"A" Suffix,		
1N1608	22	90	3	5% Tolerance		
1N1609	27	70	4.5	5.50	4.80	4.07
1N1805	6.8	1000	1			
1N1806	7.5	1000	1			
1N1807	8.2	1000	1			
1N1808	9.1	500	1			
1N1351	10	500	2			
1N1352	11	500	2			
1N1353	12	500	2			
1N1354	13	500	2	No Suffix		
1N1355	15	500	2	10% Tolerance		
1N1356	16	500	2	4.90	4.25	3.60
1N1357	18	150	3			
1N1358	20	150	3			
1N1359	22	150	3			
1N1360	24	150	3			
1N1361	27	150	3			
1N1362	30	150	4			
1N1363	33	150	4			
1N1364	36	150	5			
1N1365	39	150	5	"A" Suffix		
1N1366	43	150	6	5% Tolerance		
1N1367	47	150	7	5.10	4.45	3.80
1N1368	51	150	8			
1N1369	56	150	9			
1N1370	62	50	12			
1N1371	68	50	14			
1N1372	75	50	20			
1N1373	82	50	22			
1N1374	91	50	35			

250-MW GLASS ZENER DIODES

Add suffix "A" to indicate 5% tolerance. No suffix indicates 10% tolerance.

Type No.	Vz (V)	Izt (Ma)	Zzt (ohms)	PRICES	
1N702	2.6	5	60		
1N703	3.4	5	55	No Suffix,	
1N704	4.1	5	45	10% Tolerance	
1N705	4.8	5	35	Quantity	EA.
1N706	5.8	5	20	1-99	1.50
1N707	7.1	5	10	100 Asst'd	1.38
1N708	5.6	25	3.6	100-999	1.25
1N709	6.2	25	4.1	1000-4999	.95
1N710	6.8	25	4.7		
1N711	7.5	25	5.3		
1N712	8.2	25	6	"A" Suffix,	
1N713	9.1	12	7	5% Tolerance	
1N714	10.0	12	8	Quantity	EA.
1N715	11.0	12	9	1-99	1.75
1N718	15.0	12	13	100 Asst'd	1.63
1N721	20.0	4	20	100-999	1.50
1N722	22.0	4	24	1000-4999	1.14
1N723	24.0	4	28		

400-MW GLASS ZENER DIODES

Add suffix to Type to indicate tolerance.

Type No.	Vz (V)	Izt (Ma)	Zzt (ohms)	PRICES	
1N746	3.3	20	28	No Suffix,	
1N747	3.6	20	24	10% Tolerance	
1N748	3.9	20	23	Quantity	EA.
1N749	4.3	20	22	1-99	1.50
1N750	4.7	20	19	100 Asst'd	1.38
1N751	5.1	20	17	100-999	1.25
1N752	5.6	20	11	1000-4999	.61
1N753	6.2	20	7		
1N754	6.8	20	5	"A" Suffix,	
1N755	7.5	20	6	5% Tolerance	
				Quantity	EA.
1N756	8.2	20	8	1-99	1.75
1N757	9.1	20	10	100 Asst'd	1.63
1N758	10.0	20	17	100-999	1.50
1N759	12.0	20	30	1000-4999	.87

Add suffix "A" to type no. for 10% tolerance; suffix "B" for 5% tolerance. No suffix, indicates 20% tolerance.

1N957	6.8	20	4.5	No Suffix,	
1N958	7.5	20	5.5	20% Tolerance	
1N959	8.2	20	6.5	1-99	1.40
1N960	9.1	20	7.5	100 Asst'd	1.28
1N961	10	20	8.5	100-999	1.15
1N962	11	11.5	9.5	1000-4999	.61
				"A" Suffix,	
1N963	12	10.5	11.5	10% Tolerance	
1N964	13	9.5	13	1-99	1.50
1N965	15	8.5	16	100 Asst'd	1.38
1N966	16	7.8	17	100-999	1.25
1N967	18	7.0	21	1000-4999	.69
1N968	20	6.2	25	"B" Suffix,	
1N969	22	5.6	29	5% Tolerance	
1N970	24	5.2	33	1-99	1.75
1N971	27	4.6	41	100 Asst'd	1.63
1N972	30	4.2	49	100-999	1.50
1N973	33	3.8	58	1000-4999	.71

50-WATT STUD-MOUNTED

All listed have 10% tolerance.

JEDEC Type No.	Max PRV (v)	Izt (Ma)	Zzt (ohms)	EACH 1-99	100 Asst.	100-999
1N3305	6.8	1850	.4	5.50	4.87	4.25
1N3306	7.5	1700	.5	5.50	4.87	4.25
1N3307	8.2	1500	.6	5.50	4.87	4.25
1N3308	9.1	1370	.7	5.50	4.87	4.25
1N3309	10	1200	.8	5.50	4.87	4.25
1N3310	11	1100	.9	5.50	4.87	4.25
1N3311	12	1000	1.	5.50	4.87	4.25
1N3312	13	960	1.1	5.50	4.87	4.25
1N3313	14	890	1.2	5.50	4.87	4.25
1N3314	15	830	1.4	5.50	4.87	4.25
1N3317	18	700	2.0	5.50	4.87	4.25
1N3321	24	520	2.6	5.50	4.87	4.25
1N3323	27	460	2.8	5.50	4.87	4.25
1N3324	30	420	3.0	5.50	4.87	4.25
1N3325	33	380	3.2	5.50	4.87	4.25
1N3326	36	350	3.5	5.50	4.87	4.25
1N3331	50	250	5.0	5.50	4.87	4.25
1N3340	100	1.20	20.	5.50	4.87	4.25

Contact your nearest Allied office for information on IR rectifiers not listed.

Silicon and Germanium Transistors

SPRAGUE — THE MARK OF RELIABILITY

SILICON SEPT NPN PLANAR EPITAXIAL HI-SPEED

Type No.	Case TO-	P_d (W)	BV_{CBO} V	h_{FE}@ I_c-150 Ma	V_{CESAT} (max)	f_T Mc	C_{ob} (pf)	EACH 1-99	EACH 100-999
2N2218	5	0.8	60	40-120	0.4	250	8	3.35	2.25
2N2218A	5	0.8	75	40-120	0.3	250	8	3.75	2.50
2N2219	5	0.8	60	100-300	0.4	250	8	3.95	2.65
2N2219A	5	0.8	75	100-300	0.3	300	8	4.35	2.90
2N2221	18	0.5	60	40-120	0.4	250	8	3.35	2.25
2N2221A	18	0.5	75	40-120	0.3	250	8	3.75	2.50
2N2222	18	0.5	60	100-300	0.4	250	8	3.95	2.65
2N2222A	18	0.5	75	100-300	0.3	300	8	4.35	2.90
2N2537	5	0.8	60	50-150	0.45	250	8	4.95	3.30
2N2538	5	0.8	60	100-300	0.45	250	8	5.85	3.90
2N2539	18	0.5	60	50-150	0.45	250	8	4.95	3.30
2N2540	18	0.5	60	100-300	0.45	250	8	5.85	3.90
2N2845	18	0.36	60	30-120	0.4	250	8	4.95	3.30
2N2846	5	0.8	60	30-120	0.4	250	8	4.95	3.30
2N2848	5	0.8	60	40-140	0.4	250	8	5.85	3.90
2N2958	5	0.6	60	40-120	0.5	250	8	1.80	1.20
2N2959	5	0.6	60	100-300	0.5	250	8	1.45	.95
TN53	5	0.8	75	50	0.5	100	8	.95	.63
TN54	18	0.5	75	50	0.5	100	8	.95	.63
TN59	5	0.8	40	100	0.4	100	8	.75	.50
TN60	18	0.5	40	100	0.4	100	8	.75	.50
TN61	5	0.8	40	50	0.4	100	8	.65	.43
TN62	18	0.5	40	50	0.4	100	8	.65	.43
TN63	5	0.8	20	25	0.5	20	8	.45	.30
TN64	18	0.5	20	25	0.5	20	8	.45	.30

SILICON PNP DIFFERENTIAL AMPLIFIERS

Type No.	Case 6-Lead TO-	BV_{CBO} V	h_{FE} @ I_c Min.	Max.	μA	h_{FE1}/h_{FE2}	V_{BE1}-V_{BE2}	ΔV_{BE} μV	EACH 1-99	EACH 100-999
2N2802	5	25	20	120	100	10%	5	10	39.00	26.00
2N2805	5	25	40	120	100	10%	5	10	40.50	27.00
2N3049	Flat-D	25	20	120	10	10%	5	10	51.00	34.00
2N3347	5	60	40	300	10	10%	5	10	34.50	23.00
2N3350	5	60	100	300	10	10%	5	10	45.00	30.00

SILICON NPN DIFFERENTIAL AMPLIFIERS

Type No.	Case 6-Lead TO-	BV_{CBO} V	h_{FE} @ I_c Min.	Max.	μA	h_{FE1}/h_{FE2}	V_{BE1}-V_{BE2}	ΔV_{BE} μV	EACH 1-99	EACH 100-999
2N2480	5	75	20	....	100	20%	10	15	13.50	9.00
2N2642	5	45	100	300	10	10%	5	10	25.50	17.00
2N2903A	5	60	60	....	10	10%	5	10	24.00	16.00
2N2915	5	45	60	240	10	10%	3	10	30.00	20.00
2N2920	5	60	150	600	10	10%	3	10	42.00	28.00
2N2979	18	60	150	600	10	10%	3	10	31.50	21.00
2N3043	Flat-D	45	100	300	10	10%	5	10	43.50	29.00
2N3046	Flat-D	45	50	200	10	10%	5	10	40.50	27.00
2N3410	5	60	20	....	10	10%	10	10	15.00	10.00

SILICON NPN DARLINGTON AMPLIFIERS

Type No.	Case TO-	BV_{CBO} V	BV_{CEO} V	h_{FE} @10 Ma	h_{FE} @100 Ma	EACH 1-99	EACH 100-999
2N997	18	75	40	4000	7000	13.50	9.00

SILICON SEPT PLANAR SWITCHES, AMPLIFIERS, CHOPPERS

Type No.	S	Case TO-	BV_{CBO} V	BV_{EBO} V	h_{FE} @ I_c min	max	Ma	V_{OFF} (mv)	rs ohms	EACH 1-99	EACH 100-999
2N2944	PNP	46	15	15	80	450	1	6	20	5.75	3.85
2N2945	PNP	46	25	25	40	250	1	1	35	5.00	3.35
2N2946	PNP	46	40	40	30	150	1	2	45	5.75	3.85
2N3217	PNP	46	15	15	40	....	1	1.25	20	2.55	1.70
2N3218	PNP	46	25	25	30	....	1	1.5	35	2.25	1.50
2N3219	PNP	46	40	40	20	....	1	2.5	45	2.55	1.70
2N3842	PNP	18	120	120	10	....	1	3	40	15.30	10.20
2N2330	NPN	5	30	5	50	....	10	0.75	....	4.35	2.90
2N2331	NPN	18	30	5	50	....	10	0.75	....	4.35	2.90

NPN ISOLAYER DIFFERENTIAL AMPLIFIERS

Type No.	Case TO-	BV_{CBO}	h_{FE} @ I_c Min.	μa	h_{fe1}/h_{fe2}	V_{BE1}/V_{BE2}	V_{BC} μV	C_{ob} pf	EACH 1-99	EACH 100-999
UD2118	5	60	100	100	10%	3mv	5	2	18.00	12.00
UD2119	5	60	100	100	20%	5mv	10	2	15.00	10.00
UD2120	5	60	60	100	10%	3mv	5	2	13.50	9.00
UD2121	5	60	60	100	20%	5mv	10	2	10.50	7.00

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HOW TO ORDER

When ordering specify Department Number, 49 D 30, then add Sprague or JEDEC type number. Ex.: 49 D 30 3N90.

EXPLANATION OF COLUMN HEADS

BV_{CBO}—breakdown volt., coll. to base, emitter open. C_{ob}—output capacitance, common base. f_T—gain bandwidth product freq. at which h_{fe} is unity. h_{fe}—small signal, common emitter, short-circuit, fwd current transfer ratio. h_{FE}—large signal fwd current transfer ratio. P_d—device total power dissipation. r_{ee}—emitter 1-emitter 2 resistance. rs—small signal series resistance. V_{BC}—voltage, base to collector. V_{BE}—DC base-emitter voltage. $V_{CE(SAT)}$—coll.-emitter saturation volt. V_O—output voltage.

SILICON SEPT PLANAR LOW-LEVEL LOW-NOISE AMPLIFIERS

Type No.	S	Case TO-	BV_{CBO} V	BV_{EBO} V	h_{FE} @ I_c Min.	μa	NF db	C_{ob} pf	EACH 1-99	EACH 100-999
TN-55	NPN	5	40	5	100	10	2	8	1.35	.90
TN-56	NPN	18	40	5	100	10	2	8	1.35	.90
TQ-55	PNP	5	40	5	100	10	2	8	2.95	1.95
TQ-56	PNP	18	40	5	100	10	2	8	2.95	1.95

GERMANIUM MADT PNP FOR UHF APPLICATIONS

*Min.-Max. †Conversion Gain. ‡Power output, mw.

Type No.	Case TO-	BV_{CBO} V	f_{Max} (min) (Mc)	PG @ f db (min.)	Mc	NF (max) (db)	EACH 1-99	EACH 100-999
2N2360	12	20	980	14-19*	200	5.5	2.40	1.80
2N2361	12	20	....	14†	200-44	12	2.25	1.65
2N2362	12	20	....	1.5‡	257	.....	2.10	1.55
2N2398	12	20	1200	16-22*	200	4.5	3.45	2.50
2N2399	12	20	....	16†	200-44	9	3.35	2.45

SILICON DUET PNP DUAL EMITTER CHOPPERS

Type No.	Case 4-Lead TO-	BV_{EEO} V	BV_{EBO} V	BV_{ECO} V	V_O (μ V)	r_{ee} (ohms)	EACH 1-99	EACH 100-999
3N90	72	30	30	30	50	100	19.50	13.00
3N91	72	30	30	30	100	100	16.50	11.00
3N92	72	30	30	30	200	100	13.50	9.00
3N93	72	50	50	50	50	75	34.50	23.00
3N94	72	50	50	50	100	75	28.50	19.00
3N95	72	50	50	50	200	100	22.50	15.00
3N108	72	50	50	50	30	50	40.50	27.00
3N109	72	50	50	50	150	50	28.50	19.00
3N110	72	30	30	30	30	50	24.00	16.00
3N111	72	30	30	30	150	50	15.00	10.00
3N114	72	12	12	12	50	50	13.50	9.00
3N115	72	12	12	12	100	50	10.50	7.00
3N116	72	12	12	12	200	50	7.50	5.00
3N117	72	20	20	20	50	50	15.00	10.00
3N118	72	20	20	20	100	50	12.00	8.00
3N119	72	20	20	20	200	50	9.00	6.00

SILICON TWIN DUET PNP DUAL EMITTER CHOPPERS

Type No.	Case	BV_{EEO} V	BV_{EBO} V	BV_{ECO} V	V_O μV	I_{EEO} nA	EACH 1-99	EACH 100-999
3N112	TO-90	30	30	30	50	1	63.00	42.00
3N113	TO-90	50	50	50	50	1	92.00	68.00

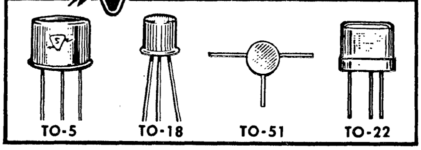
SILICON SEPT PNP PLANAR EPITAXIAL TRANSISTORS

Type No.	Case TO-	P_d W	BV_{CBO} V	h_{FE} @ I_c-150 ma	$V_{CE(sat)}$	f_T	C_{ob}	EACH 1-99	EACH 100-999
TQ-59	5	3	40	100	.2	100	8	1.45	.90
TQ-60	18	1.8	40	100	.2	100	8	1.45	.90
TQ-61	5	3	40	50	.2	100	8	1.20	.80
TQ-62	18	1.8	40	50	.2	100	8	1.20	.80
TQ-63	5	3	20	25	.2	20	8	.83	.55
TQ-64	18	1.8	20	25	.2	20	8	.83	.55

SILICON PNP PLANAR FOR CHOPPER REPLACEMENTS

Type No.	Case TO-	BV_{CBO} V	BV_{BEO} V	I_{EBO} @ V_{EB} μa (max)	V	V_{OFF} (max) mv	rs max ohms	EACH 1-99	EACH 100-999
2N941	18	25	25	0.0025	4.5	1	.....	6.60	4.40
2N942	18	25	25	0.0025	4.5	3	.....	5.30	3.55
2N943	18	40	40	0.005	30	2	.....	7.85	5.25
2N944	18	40	40	0.005	30	3	.....	5.7[illegible]	3.80
2N945	18	50	50	0.005	40	4	.....	3.7[illegible]	[illegible].50
2N946	18	80	80	0.005	60	4	.....	6.4[illegible]	[illegible].30

Sylvania Diodes and Transistors



HOW TO ORDER

When ordering, specify Department Number, 49 D 12, then add Sylvania type number or JEDEC type number. Example: 49 D 12 1N456.

Allied has huge stocks of semiconductors. We can ship large quantities promptly upon receipt of your order, at factory OEM prices.

EXPLANATION OF COLUMN HEADS

f_t—unity gain bandwidth product frequency

I_o—avg. fwd. current

I_R—maximum reverse current

P_t—total power dissipation

T_J—junction temperature

V_{CB}—maximum collector-to-base voltage

V_{CE}—collector-to-emitter voltage

V_R—reverse working voltage

GERMANIUM PNP EPITAXIAL MESA SWITCHING TRANSISTORS

High f_t and fast switching. P_t, 150 mw. T_J, 100°C. All in TO-18 package.

Type No.	V_{CB} (v)	f_t (Mc)	EACH 1-99	EACH 100-999
2N501/18	15	250	3.52	2.35
2N782	12	400	2.40	1.60
2N2455	15	600	3.75	2.50
2N2860	18	350	2.25	1.50

GENL.-PURPOSE AND FAST SWITCH SILICON JUNCTION DIODES

In .265x.105″ dia. case (DO-7) with two tinned axial leads 1″ long (min.). Ratings at 25°C. *Indicates MIL approval.

Type No.	V_R (v)	I_o (Ma)	I_R (µa)	EACH 1-99	EACH 100-999
1N456	25	90	.025	.42	.28
1N456A	25	200	.025	.42	.28
1N457	60*	75	.025	.45	.30
1N457A	60	200	.025	.45	.30
1N458	125*	55	.025	.48	.32
1N458A	125	200	.025	.48	.32
1N459	175*	40	.025	.51	.34
1N459A	175	200	.025	.51	.34
1N461	25	60	.5	.42	.28
1N461A	25	200	.5	.42	.28
1N462	60	50	.5	.44	.29
1N462A	60	200	.5	.44	.29
1N463	175	30	.5	.54	.36
1N463A	175	200	.5	.54	.36
1N464	125	40	.5	.53	.35
1N464A	125	200	.5	.53	.35
1N482	36	100	.25	.66	.44
1N482A	36	200	.025	.69	.46
1N482B	36	200	.025	.69	.46
1N483	70	100	.25	.70	.47
1N483A	70	200	.025	.70	.47
1N483B	70	200	.025	.70	.47
1N484	130	100	.25	.70	.47
1N484A	130	200	.025	.70	.47
1N484B	130	200	.025	.70	.47
1N485	180	100	.25	.90	.60
1N485A	180	200	.025	.90	.60
1N485B	180	200	.025	.90	.60
1N486A	225	200	.05	.90	.60
1N486B	225	200	.025	.90	.60
1N487	300	100	.25	1.05	.70
1N487A	300	200	.1	1.41	.94
1N488	380	100	.25	1.17	.78
1N488A	380	200	.1	1.78	1.19
1N625	30	20	1.0	.43	.29
1N626	50	20	1.0	.45	.30
1N627	100	20	1.0	.60	.39
1N628	150	20	1.0	.72	.47
1N629	200	20	1.0	.81	.54
1N643A	175	40	1.0	1.50	1.00
1N658	100*	200	.05	1.76	1.20

GENL.-PURPOSE AND FAST SWITCH SILICON JUNCTION DIODES

Type No.	V_R (v)	I_o (Ma)	I_R (µa)	EACH 1-99	EACH 100-999
1N659	50	100	5.0	.58	.39
1N662	50*	40	20.0	.92	.44
1N663	75*	40	5	1.20	.80
1N816	5.0	150	.1	.52	.35

NPN GERMANIUM AUDIO AND GENERAL-PURPOSE TRANSISTORS

NPN types for both amplifier and switching service. TO-22 outline. Rated: P_t, 180 mw; collector current, 100 ma. Maximum junction temperature is 85°C.

Type No.	Application	V_{CB} (v)	V_{CE} (v)	EACH 1-99	EACH 100-999
2N213	Hi gain Amp.	40	25	.91	.61
2N213A	Hi gain Audio	40	25	1.59	1.05
2N214	Audio Output	40	25	1.15	.77
2N228	Hi gain Audio	40	15	1.59	1.05
2N229	Gen. Purp.	10	10	.50	.33
2N306	Gen. Purp.	20	15	.67	.45
2N647/22	Audio Out.	25	25	1.16	.77
2N1059	Audio Out.	20	15	1.00	.67
2N1101	Audio Out.	20	15	.58	.39
2N1102	Audio Out.	40	25	.64	.43

GERMANIUM POINT-CONTACT DIODES

DO-7. For use in audio, IF, RF and VHF ranges. *Indicates matched pair.

Type No.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
1N34A	60	50	.30	.23
1N35	50*	23	1.58	1.21
1N38A	100	50	.49	.38
1N38B	100	50	.49	.38
1N48	70	50	.30	.20
1N54A	50	50	.42	.32
1N55A	150	50	.40	.31
1N58A	100	50	.55	.41
1N60	25	50	.30	.23
1N63	100	50	.36	.28
1N64	25	50	.30	.23
1N65	70	50	.48	.35
1N67A	80	30	.28	.21
1N68A	100	40	.28	.21
1N69A	60	40	.30	.23
1N70A	100	30	.48	.38
1N81A	40	30	.48	.36
1N90	60	30	.33	.22
1N115	75	30	.64	.50
1N116	60	45	.49	.36
1N127A	100	30	.42	.28
1N128	40	30	.32	.25
1N191	90	30	.35	.28
1N192	60	30	.34	.26
1N198	80	30	.35	.28
1N198B	80	30	1.03	.78
1N294	60	60	.34	.26
1N295	40	35	.35	.27

SILICON "BULLET" EPOXY RECTIFIERS

Case .375x.225″ with 1″ wire leads.

Type No.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
1N2069	200	750	.65	.43
1N2069A	200	750	.67	.45
1N2070	400	750	.71	.47
1N2070A	400	750	.72	.47
1N2071	600	750	.87	.50
1N2071A	600	750	.92	.59
1N2482	200	750	.65	.43
1N2483	400	750	.69	.46
1N2484	600	750	.71	.47
SR200B	300	200	.65	.42
SR500B	400	500	.68	.45

"BULLET" EPOXY RECTIFIERS (Cont'd)

Case .375x.225″ with 1″ wire leads.

Type No.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
SR1692	100	600	.61	.41
SR1693	200	600	.64	.43
SR1694	300	600	.68	.45
SR1695	400	600	.69	.46

HIGH-SPEED SILICON EPITAXIAL PLANAR DIODES

(Not illus.) Recovery time 4 nsec except: 1N251 and 1N252, 150 nsec; 1N3605, 4 nsec; 1N3731, 3-nsec.

Type No.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
1N251	30	75	.65	.43
1N252	20	100	.65	.43
1N903A	40	50	1.02	.68
1N905A	20	50	1.55	1.09
1N906	20	50	.90	.60
1N906A	20	50	1.13	.75
1N908A	40	50	1.02	.68
1N914	75	75	.45	.30
1N914A	75	75	.50	.33
1N914B	75	75	1.35	.90
1N916	75	75	.75	.50
1N916A	75	75	.75	.50
1N916B	75	75	.92	.61
1N3605	30	75	.72	.48
1N3731	80	175	.85	.68

GERMANIUM BONDED DIODES

Engineered for general-purpose as well as computer applications. DO-7 case.

Type No.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
1N98	80	60	.31	.24
1N99	80	60	.50	.39
1N100	80	60	.32	.27
1N117	60	30	.51	.38
1N118	75	60	.23	.20
1N270	80	60	.32	.25
1N276	50	40	.31	.24
1N277	100	75	.34	.26
1N279	30	80	.29	.22
1N281	60	75	.31	.24
1N283	20	100	.51	.40
1N497	30	80	.39	.30
1N498	60	80	.44	.35
1N500	60	100	.53	.41
1N634	100	60	.52	.41
1N695	20	100	.30	.24
1N770	20	40	.48	.38
1N995	15	30	.60	.45

GERMANIUM PNP MEDIUM-POWER AND AUDIO TRANSISTORS

Designed for high current switching and audio amplifier applications. Features modified TO-5 outline. Average collector current is 3 amperes.

Type No.	V_{CB} (v)	h_{FE}	EACH 1-99	EACH 100-999
2N1038	40	33-200 @ 50 ma	2.80	1.90
2N1039	60	33-200 @ 50 ma	3.75	2.50
2N1040	80	33-200 @ 50 ma	5.70	3.80

NPN SILICON EPITAXIAL PLANAR MICRO-POWER TRANSISTORS

Extremely fast switching transistors. Plague free. Junction temperature, +200°C. Total average power dissipation, 300 mw. In TO-18 package.

Type No.	f_t (Mc)	$T_{on} + T_{off}$ (nsecs)	EACH 1-99	EACH 100-999
2N709	800	30	1.15	.77
2N709A	900	30	1.42	.94
2N2784	1200	18	1.65	1.10

Sylvania, Varo and Ohmite Semiconductors

SYLVANIA DIODES AND TRANSISTORS

MICROWAVE MIXER DIODES

*Asterisk in Figure column indicates MIL approval. †In Noise column indicates comparative db noise figure where IF amplifier noise equals 1.5 db.

Type No.	Fig.	Freq. Band	†Noise (db)	EACH 1-9	EACH 10-99
1N21B	A	S	8.3	.68	.58
1N21C	A	S	8.3	1.02	.88
1N21D	A	S	7.3	2.45	2.10
1N21E	A	S	7.0	4.20	3.60
1N21F	A	S	6.0	8.10	6.90
1N21G	A	S	5.5	12.60	10.80
1N21WE	A*	S	7.0	5.25	4.50
1N23B	A	X	11.5	.67	.58
1N23C	A	X	9.5	1.02	.88
1N23D	A	X	7.8	2.45	2.10
1N23E	A	X	7.5	4.20	3.60
1N23F	A	X	7.0	8.10	6.90
1N23G	A	X	6.5	12.60	10.80
1N23WE	A*	X	7.5	5.25	4.50
1N25	A*	L	12.6	3.53	3.03
1N26	B*	K	13.1	6.50	5.60
1N26C	B	K	9.5	31.15	27.80
1N53	D*	KA	13.1	23.20	19.80
1N78A	B	KU	9.8	5.00	4.28
1N78B	B*	KU	8.8	7.00	6.00
1N78C	B	KU	8.3	14.00	12.00
1N415G	A	X	6.5	12.60	10.80
1N416G	A	S	5.5	12.60	10.80
1N831	C	S	8.3	6.85	5.87

SILICON UHF DIODES

Type No.	Fig.	V_R (v)	I_o (Ma)	EACH 1-99	EACH 100-999
1N82A	D	3	10-25	.70	.55
1N82AG	D	3	10-25	.91	.71

SILICON MULTIPLE DIODES

All have a common cathode, except Type SID3B-3, which has a common anode. All have TO-46 package.

Type No.	Diodes	V_R (v)	I_o (Ma)	trr (nsec)	EACH 1-24	EACH 25-99
SID2A-1	2	40	75	3	4.40	3.90
SID3A-1	3	40	75	3	6.40	5.60
SID2A-3	2	75	75	3	5.70	5.00
SID2B-3	2	40	75	3	4.40	3.90

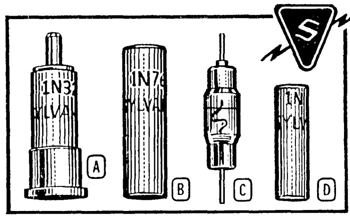
MICROWAVE VIDEO DETECTOR DIODES

Type No.	Fig.	Frequency Band	EACH 1-9	EACH 10-99
1N358A	B	L-X	19.25	16.50
1N830A	A	1000 mc	3.85	3.30
1N3143	A	X	5.60	4.80

NPN SILICON EPITAXIAL PLANAR LARGE SIGNAL TRANSISTORS

High-speed and power dissipation. Low storage time and saturation v. Plague-free.

Type No.	Pkg.	V_{CB} (v)	P_t (Mw)	EACH 1-99	EACH 100-999
2N1959	TO-5	60	600	4.45	2.95
2N1959A	TO-5	60	600	6.60	4.40
2N1959A/51	TO-51	60	300	20.00	12.50
2N1964	TO-5	60	400	6.37	4.25
2N1990	TO-5	100	600	2.25	1.50
2N2218	TO-5	60	800	3.35	2.25
2N2219	TO-5	60	800	3.35	2.37
2N2410	TO-5	60	800	9.00	6.00



HOW TO ORDER

When ordering, specify Department Number, 49 D 12, then add Sylvania type number or JEDEC type number. Example: 49 D 12 2N94A.

Allied, foremost supplier of semiconductors to industry, adds new items to stock as available.

NPN GERMANIUM RF TRANSISTORS (TO-22 PACKAGE)

Widely used in AM radio as IF amplifiers, oscillators, mixers and converters. Closely controlled feedback parameters simplify neutralization. All types are in TO-22 outline (see illustration, page 84). P_t, 150 ma; I_C, 100 ma; T_J, +85°C.

Type No.	Application	V_{CB} (v)	V_{CE} (v)	EACH 1-99	EACH 100-999
2N94	I.F. Amp.	20	20	1.08	.72
2N94A	I.F. Amp.	20	20	1.41	.94
2N194	Mixer/Conv.	18	18	.99	.67
2N212	Mixer/Conv.	18	18	1.50	1.00
2N216	I.F. Amp.	18	18	1.75	1.17
2N233	Gen. Purp.	10	10	.50	.33
2N233A	I.F. Amp.	18	18	1.13	.76

OHMITE

SUBMINIATURE GERMANIUM DIODES

Subminiature types in hermetically sealed glass cases. Tested for leaks, life, shock, hot-and-cold cycle, aging, and electrical parameters. Case length, .255″ to .290″; diameter, .093″ to .102″. Leads, 1¼″ long (±¼″). Rating at 68°F is 80 milliwatts. Temperature range, —85°F to 154°F. Allied is equipped to handle large orders and ship them the same day at OEM prices.

Type No.	PIV (V)	I_{FWD} (Ma)	EACH 1-99	EACH 100-999	EACH 1000-4999
1N34	100	8.5	.22	.17	.14
1N34A	75	5	.24	.18	.15
1N38A	120	4	.50	.38	.31
1N48	85	4	.28	.21	.17
1N54A	75	5	.42	.32	.26
1N56A	50	15	.38	.29	.24
1N64	20	50	.27	.20	.17
1N99	100	10	.45	.34	.28
1N100	100	20	.31	.23	.19
1N191	90	5	.34	.26	.21
1N198	100	4	.34	.26	.21
1N270	100	200	.31	.23	.19
1N276	100	40	.31	.23	.19
1N277	120	100	.34	.26	.21
1N497	30	100	.38	.29	.24

OMC7111 METERSAVER

Can convert 200 times overload to 3 times overload for meters below 1 ma F.S. Connects across meter terminals.

OMC7111. 1-99................Each 1.98
100-999..Each 1.49 1000-4999..Each 1.24

HOW TO ORDER

When ordering, specify Department Number, 49 D 29, then add Ohmite type number or JEDEC type number. Example: 49 D 29 1N54A.

One order fills the bill when you order from Allied where the world's largest stock of semiconductors is maintained.

VARO INC. RECTIFIERS

HIGH VOLTAGE DIFFUSED SILICON RECTIFIERS

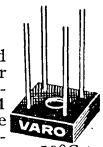
Series 7715 rectifiers are designed for high reliability at moderate cost. Epoxy-encapsulated package provides dielectric strength of 400 volts/mil and electrical insulation resistance of 3×10^{12} ohms @ 95°C and 95% relative humidity. Withstands 500 G's shock, and vibration of 100 cps, with peak acceleration of 10 G's.

Type No.	PRV (v)	I_o (Ma)	V_F (v)	EACH 1-99	EACH 100-999
7715-3	3,000	75	6.0	2.20	1.80
7715-6	6,000	50	12.0	3.03	2.48
7715-10	10,000	25	20.0	4.40	3.60
7715-20	20,000	25	40.0	7.70	6.30
7715-30	30,000	25	60.0	9.90	8.10
7715-50	50,000	25	100.0	15.40	12.60

HOW TO ORDER

When ordering, specify Department Number, 49 D 34, then add Varo type number or JEDEC type number. Example: 49 D 34 VS 247.

2-AMP EPOXY BRIDGE RECTIFIERS

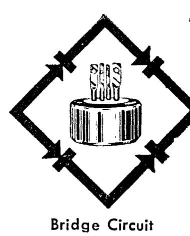


Use VS 247 & 447 for controlled avalanche; VS 248 & 448 for non-controlled avalanche applications. Peak surge current, 1 sec. @ 60 cps, 10 amps; 1 cycle peak @ 6 cps, 100 amps. Operating and storage temp. range, —50°C to +150°C.

Type No.	BV_R(v) (min)	BV_R(v) (max)	V_R (VDC)	V_R (VRMS)	V_{RM} (wkg)	EACH 1-99	EACH 100-999
VS 247	250	700	200	140	200	2.75	2.03
VS 447	450	900	400	280	400	3.05	2.35
VS 248	250	700	200	140	200	2.30	1.75
VS 448	450	900	400	280	400	2.60	2.00

SILICON AVALANCHE INTEGRATED BRIDGE RECTIFIERS

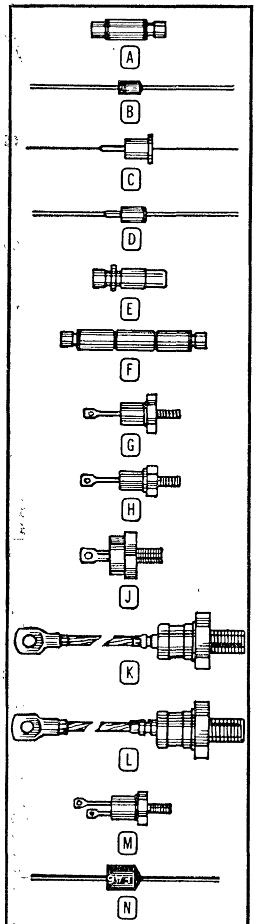
Single-phase full-wave rectification in small and rugged, welded packages. Specified maximum/minimum characteristics permit selection of decreased PRV safety factors in equipment design without greatly reducing transient voltage vulnerability. Restricts peak reverse voltage to point below junction-perimeter degradation or destruction under transient over-voltage conditions. Electrically insulated case (2000 volts, min.) allows flexibility and economies in mounting. I_o (100°C), 10 amps max. Peak one-cycle surge current, 100 amps, max. Continuous power dissipation in BV_R region (T_C, 50°C), 4 watts. Temperature range:—65° to +160°. Max. WVDC: 1N4436, 140 v., rms; 1N4437, 280 v., rms. Max. I_R (T_o, 100°C), 10 ma. Max. forward voltage drop (T_u, 100°C), 1.2 v./leg. *T03 mount. †Stud mount.



Bridge Circuit

Type No.	VRM	BVR Min.	BVR Max.	Max. VR	EACH 1-99	EACH 100-999
1N4436	200	250	500	250	4.15	3.05
1N4436/T*					4.40	3.25
1N4436/S†					4.45	3.30
1N4437	400	450	700	450	5.45	4.00
1N4437/T*					5.70	4.20
1N4437/S†					5.75	4.25

Sarkes Tarzian Rectifiers



HOW TO ORDER

When ordering, specify Department Number, 49 D 31, then add Sarkes Tarzian type number or JEDEC type number. Example: 49 D 31 1N1081.

All Sarkes Tarzian Silicon Rectifiers now feature avalanche protection at standard prices. Eliminates need for suppressor devices, reducing cost and increasing reliability. Special process controls and material selection guarantee that avalanche current flows through the junction, not across the surface. Transient voltage failures are virtually eliminated.

LOW AND MEDIUM CURRENT TYPES

A M SERIES (1.0 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	DC Load Amps	EACH 1-24	25-99	100-Up
1N1081	10M	100	70	1.0	.60	.55	.51
1N1082	20M	200	140	1.0	.65	.57	.53
1N1084	40M or M500	400	280	1.0	.75	.63	.59
....	60M	600	420	1.0	.85	.70	.66

B F SERIES (1.0 AMPS)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	DC Load Amps	EACH 1-24	25-99	100-Up
1N2482	F-2	200	140	1.0	.35	.32	.29
1N2483	F-4	400	280	1.0	.40	.36	.33
1N2484	F-6	600	420	1.0	.45	.40	.37
....	F-8	800	560	1.0	.60	.49	.46

D C SERIES (1.0 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	DC Load Amps	EACH 1-24	25-99	100-Up
1N2610	10C	100	70	1.0	.35	.33	.31
1N2611	20C	200	140	1.0	.40	.36	.33
1N2613	40C	400	280	1.0	.45	.40	.37
1N2615	60C	600	420	1.0	.55	.45	.42

E LA SERIES (2 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	DC Load Amps	EACH 1-24	25-99	100-Up
1N1085A	10LA	100	70	2.0	3.34	2.86	2.66
1N1086A	20LA	200	140	2.0	4.00	3.43	3.20
1N1088A	40LA	400	280	2.0	5.35	4.67	4.27

F HIGH VOLTAGE SERIES (.325 to .45 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	DC Lead Amps	EACH 1-24	25-99	100-Up
1N1108	80SM	800	560	.45	3.15	2.71	2.54
1N1109	120SM	1200	840	.425	4.00	3.43	3.20
1N1110	160SM	1600	1120	.4	4.75	4.15	3.86
1N1111	200SM	2000	1400	.375	5.65	4.86	4.53
1N1112	240SM	2400	1680	.35	6.50	5.57	5.20
1N1113	280SM	2800	1960	.325	7.35	6.30	5.87

MEDIUM CURRENT TYPES

G H3 SERIES (6 AMP)

All are positive base types.

Type No.	S-T No.	Max. PIV	Max. RMS Volts	EACH 1-24	25-99	100-Up
1N1341	10H3P	100	70	1.20	1.03	.96
1N1343	20H3P	200	140	1.25	1.07	1.00
1N1346	40H3P	400	280	1.95	1.67	1.56
1N1348	60H3P	600	420	2.70	2.32	2.16

H ST2 SERIES (12 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	EACH 1-24	25-99	100-Up
1N1202	ST2-20P	200	140	1.12	.96	.89
1N1204	ST2-40P	400	280	1.67	1.45	1.33
1N1206	ST2-60P	600	420	2.34	2.00	1.86

J ST4 SERIES (35 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	EACH 1-24	25-99	100-Up
1N1183	ST4-10P	100	70	2.60	2.22	2.06
1N1185	ST4-20P	200	140	3.10	2.66	2.48
1N1188	ST4-40P	400	280	4.45	3.82	3.56
1N1190	ST4-60P	600	420	6.40	5.50	5.14

K ST6 SERIES (100 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	EACH 1-24	25-99	100-Up
....	ST-610P	100	70	11.20	9.60	8.96
....	ST-620P	200	140	12.20	10.45	9.79
....	ST-640P	400	280	18.80	16.07	15.00

L ST9 SERIES (250 AMP)

Type No.	S-T No.	Max. PIV	Max. RMS Volts	EACH 1-24	25-99	100-Up
1N3161	ST910P	100	70	14.20	12.19	11.36
1N3163	ST920P	200	140	15.80	13.50	12.60
1N3167	ST940P	400	280	24.40	20.95	19.52
1N3170	ST960P	600	420	42.40	36.20	33.80

SILICON CONTROLLED RECTIFIERS

M 3TCR SERIES (3 AMP)

S-T No.	Max. PIV	EACH 1-24	25-99	100-Up
3TCRA	25	2.80	2.39	2.22
3TCRC	100	3.00	2.55	2.39
3TCRE	200	3.25	2.80	2.60
3TCRF	250	4.05	3.50	3.25
3TCRG	300	4.20	3.58	3.33

PLUG-IN TUBE-REPLACEMENT SILICON RECTIFIERS

Type Nos.	Max. PIV	Replaces	1-24 EACH	25-99 EACH	100-499 EACH
S5991	1600	5AU4, 5AW1, 5AZ4, 5T4, 5U4, 5Y3	3.50	3.00	2.80
1N2490 (S5207)	1600	6X4	12.00	10.30	9.60
1N2389 (S5251)	1600	5U4, 5AU4, 5AW4, 5AZ4, 5T4, 5Y3	6.10	5.23	4.87
S5343	7000	816, 836, 3B28	18.10	15.50	14.50
S5130	10100	866, 866A, 3B28	22.50	19.30	18.00

TYPE HVC HIGH-VOLTAGE AXIAL-LEAD CARTRIDGE-TYPE SILICON RECTIFIERS

New high voltage avalanche rectifiers in a wide range of ratings. Use in high-voltage power supplies in TV sets, oscilloscopes and test equipment. All are .375″ in diameter; body length as shown in tables is ±1/32″. Lead length is a minimum of 2″.

Type HVC	Max. PIV	I_F(av) Ma	Max. V_F	Lgth., In.	EACH 1-24	25-99	100-Up
180	1800	250	4	.362	3.35	2.86	2.66
240	2400	250	5	.687	3.60	3.08	2.87
300	3000	200	6	.750	3.85	3.28	3.07
400	4000	200	8	.875	4.00	3.44	3.20
500	5000	200	10	1.0	4.15	3.67	3.34
600	6000	150	12	1.062	4.55	3.92	3.66
650	6500	150	13	1.187	5.00	4.29	4.00
750	7500	150	15	1.312	5.40	4.61	4.34
840	8400	100	16	1.375	5.85	5.00	4.66

Type HVC	Max. PIV	I_F(av) Ma	Max. V_F	Lgth., In.	EACH 1-24	25-99	100-Up
960	9600	100	18	1.5	6.65	5.72	5.34
1000	10,000	100	20	1.75	7.10	6.07	5.66
1200	12,000	75	22	1.937	8.35	7.15	6.66
1500	15,000	75	25	2.312	10.40	8.94	8.34
1800	18,000	75	30	2.625	12.50	10.70	10.00
2100	21,000	50	35	3.0	14.60	12.50	11.67
2500	25,000	50	40	3.5	17.50	15.00	14.00
3000	30,000	50	50	4.062	20.80	17.90	16.70

N VR SERIES LOW-COST ZENER RECTIFIERS

1-watt zeners in rugged plastic case. For use in ¼, .4, ½ and 1-watt applications. V_Z is avalanche voltage. Std. tolerance ±10%; for ±5% add suffix A.

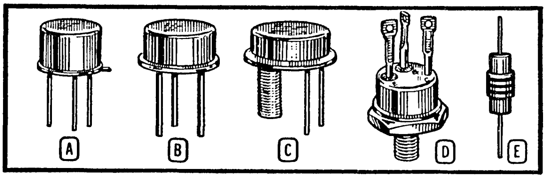
Type	Vz	Type	Vz	Type	Vz	Type	Vz	Type	Vz
VR6	6	VR14	14	VR33	33	VR80	80	VR130	130
VR7	7	VR18	18	VR39	39	VR90	90	VR150	150
VR8.5	8.5	VR20	20	VR47	47	VR105	105	VR160	160
VR10	10	VR24	24	VR56	56	VR110	110	VR200	200
VR12	12	VR28	28	VR67	67	VR120	120		

Tolerance Desired	Suffix to Type No.	EACH 1-24	25-99	100-Up
±5%	A	1.00	.86	.80
±10%	No Suffix	.95	.80	.75

Allied stocks over 8600 semiconductor types for prompt shipment, with new types continually being added. One order to Allied fills your semiconductor needs at low OEM prices. For fast efficient service, contact the Allied facility nearest you.

TRW Semiconductors

HOW TO ORDER
When ordering, specify Department Number, 49 D 33, then add TRW type number or JEDEC type number. Example: 49 D 33 2N2781.



TRW VARICAPS AND TRANSISTORS

Designed expressly to meet the needs of original-equipment manufacturers. High reliability make them ideal for use in regulated power supplies, electronic tuning, switching and similar applications.

COMMUNICATIONS TRANSISTORS

Cover a broad range of power-frequency combinations from 1 to 40 watts, and from 70 mc to 400 mc. Operating source voltage starts at 12 volts, with excellent power gain characteristics. Case Types: Fig. B, TO-8; Fig. C, MT-38; Fig. D, MT-39.

RF POWER TYPES

Type No.	Case	V_{CBO}	V_{CER}	V_{EBO}	f_t (mc)	G_p (db) Min.	P_o/f (mc)	EACH 1-99	EACH 100-Up
2N2781	TO-8	75	75	5	210	5.0	3/125	50.00	37.50
2N2887	MT-39	100	100	4	100	9.0	10/100	50.00	37.50

HIGH-CURRENT SWITCHES

V_{CBO}, 140. V_{CER}, 100. V_{EBO}, 5.

Type No.	Case	h_{fe}	10 mc h_{fe}	f_t (mc) Min.	I_c Max. Amps	EACH 1-99	EACH 100-Up
2N1899	MT-38	10-30	5	50	10	90.00	72.00

E STANDARD HIGH-Q VARICAP CAPACITORS (DO-14 PKG.)

High-Q and high-voltage provide excellent tuning characteristics. Rugged DO-14 housing for shockproof operation. Widely used in many electronic tuning applications, and in harmonic generators with up to 5-watt RF input power and 1.2 kmc output frequency. I_R reverse current (at maximum WVDC, and 25°C), 0.05 μa.

Type No.	Nom. Cap. @ V_R = 4 VDC f = 1 mc (μμf)	Cap. Ratio 0.5 VDC/ MWV f = 1 mc	Q @ V_R =4V.	Q f (mc)	Max. WVDC	EACH 1-99	EACH 100-Up
PC132	10.0	4.5	50	50	30	7.35	5.50
PC135	10.0	5.8	75	100	50	12.00	9.00
PC112	10.0	6.9	50	50	80	9.00	6.75
PC115	10.0	7.7	100	50	100	12.00	9.00
PC126	15.0	7.9	100	50	100	12.00	9.00
PC133	22.0	4.6	50	50	30	7.35	5.50
PC136	22.0	6.0	125	50	50	10.00	7.50
PC113	22.0	7.5	50	50	80	9.00	6.75
PC116	22.0	8.2	100	50	100	12.00	9.00
PC130	33.0	8.2	100	50	100	20.00	15.00
PC137	47.0	6.0	100	50	50	18.00	13.50
PC117	47.0	8.0	100	50	100	30.00	22.50

E STANDARD VARICAP CAPACITORS (DO-14 PACKAGE)

At 250°C, standard types, 100 nanoamps @ maximum WVDC; low-leakage types, 5 nanoamps @ maximum WVDC.

STANDARD TYPES

Type No.	Nom. Cap. @ V_R = 4 VDC f = 1 mc (μμf)	Minimum Q @ V_R = 4 VDC f = 50 mc	Maximum Reverse Cur. @ MWV (μA)	Max. WVDC	EACH 1-99	EACH 100-Up
V7E	7.0	3	0.1	100	3.05	2.30
V12E	12.0	4	0.1	100	3.05	2.30
V15E	15.0	4.5	0.1	100	3.05	2.30
V20E	20.0	7	0.1	90	3.05	2.30
V27E	27.0	7	0.1	65	3.05	2.30
V33E	33.0	7	0.1	60	3.05	2.30
V39E	39.0	7	0.1	55	3.05	2.30
V47E	47.0	7	0.1	50	3.05	2.30
V56E	56.0	7	0.1	40	3.05	2.30
V68E	68.0	9	0.1	30	3.05	2.30
V82E	82.0	9	0.1	20	3.05	2.30
V100E	100.0	8	0.1	20	3.05	2.30

GENERAL PURPOSE NPN SILICON TRANSISTORS

All devices receive as standard, extra processing to assure reliability. Tests include: radiflo leak test, thermal and mechanical shock, and high temperature aging. Solid base headers designed to provide 60% extra power handling capability.

Type No.	V_{CE}	h_{FE} (min)	h_{FE} (max)	I_{CBO} (max)	EACH 1-99	EACH 100-999
2N1342	125	10	150	10 μa	21.60	17.30
2N1893 JAN	100	40	120	10 na	9.75	6.45
2N699B	100	40	120	0.010 μa	6.00	4.50
2N2060	80	40	120	2 na	36.00	25.00

1-WATT ZENER DIODE SERIES IN SUBMINIATURE DO-15 PACKAGE

Zener Knee test current (I_{ZK}) is 1 ma for all types except *0.5 ma and †0.25 ma.

Type No.	V_Z (V)	I_Z (Ma)	Z_Z (ohms)	Z_{ZK} (ohms)	V_R (V)	I_R (ua)	EACH 1-99	EACH 100-999
1N4649	3.3	76	10	400	1	100	3.50	2.75
1N4650	3.6	69	10	400	1	50	3.50	2.75
1N4651	3.9	64	9	400	1	30	3.50	2.75
1N4652	4.3	58	9	400	1	5	3.50	2.75
1N4653	4.7	53	8	500	1	1	3.50	2.75
1N4654	5.1	49	7	550	1	.5	3.50	2.75
1N4655	5.6	45	5	600	2	1	3.50	2.75
1N4656	6.2	41	2	600	3	10	3.50	2.75
1N4657	6.8	37	3.5	300	5.2	50	3.50	2.75
1N4658	7.5	34	4.0	200	5.7	10*	3.50	2.75
1N4659	8.2	31	4.5	200	6.2	5*	3.50	2.75
1N4660	9.1	28	5.0	200	6.9	10*	3.50	2.75
1N4661	10	25	7	300	7.6	0.5†	3.50	2.75

TEMPERATURE-COMPENSATED ZENER DIODES IN HERMETICALLY SEALED DO-7 PACKAGES

Well suited for use in precision-regulated power supply designs or other applications requiring extremely tight temperature co-efficients as high as .0005%/°C. Features include hermetically sealed DO-7 package, full 500-mw rating and single chip construction. 100% standard processing includes 100-hour age at 200°C; temperature cycling per MIL-STD-202B (—55°C to +150°C) and 100% electrical testing. Tinned Dumet leads. Reference voltage at 25°C is 5.9 to 6.5 v. Test current, 7.5 ma.

Type No.	Max. Temp. Coefficient (%/°C)	Max. Dynamic Impedance (ohms)	EACH 1-24	EACH 25-99	EACH 100-999
1N821	.01	15	3.50	3.10	2.35
1N821A	.01	10	4.40	3.85	3.10
1N823	.005	15	4.00	3.50	3.00
1N823A	.005	10	6.00	5.25	4.50
1N825	.002	15	6.40	5.60	4.80
1N825A	.002	10	9.00	7.90	6.75
1N827	.001	15	12.25	10.70	9.20
1N827A	.001	10	16.30	14.25	13.75
1N829	.0005	15	25.00	23.50	22.00
1N829A	.0005	10	36.55	35.00	34.00

JAN 1N645—JAN 1N647—JAN 1N649

Popular low priced general-purpose diodes.

Type No.	PIV	I_R @ 25°C.	I_R @ 100°C	I_R @ 150°C	EACH 1-99	EACH 100-999	EACH 1000-4999
1N645	225 V	0.2 μa	15 μa	....	1.40	.85	....
1N647	400 V	0.2 μa	15 μa	....	1.80	1.20	....
1N649	600 V	0.2 μa	15 μa	....	2.50	1.65	....
JAN 1N645	225 V	0.025 μa	....	15 μa	2.07	1.33	.75
JAN 1N647	400 V	0.025 μa	....	15 μa	3.95	2.65	1.15
JAN 1N649	600 V	0.025 μa	....	15 μa	5.20	3.45	1.25

JAN 1N1731A—JAN 1N1733A—JAN 1N1734A

Low leakage, high-voltage rectifiers designed to give maximum protection against high temperature, high conductance and high surge. Types below also available in commercial equivalents.

Type No.	PIV	Max. Op. Temp.	I_R @ Max Op. Temp	Max. Cur.	EACH 1-24	EACH 25-99	EACH 100-Up
JAN 1N1731A	1500V	150°C	12 μa	6A	7.05	6.35	5.40
JAN 1N1731	1500V	125°C	200 μa	2A	7.05	6.35	5.40
JAN 1N1733A	3000V	150°C	12 μa	6A	11.10	10.00	8.50
JAN 1N1733	3000V	125°C	200 μa	2A	11.10	10.00	8.50
JAN 1N1734A	5000V	150°C	12 μa	6A	15.80	14.20	12.00
JAN 1N1734	5000V	125°C	200 μa	2A	15.80	14.20	12.00

A 2N2060 HIGH-VOLTAGE DUAL DIFFERENTIAL SILICON AMPLIFIER TRANSISTOR

Has minimum collector-to-base voltage of 100 VDC. Minimum collector-to-emitter voltage, 80 VDC. Static value of forward current transfer ratio at 1 ma collector current: minimum, 40; maximum, 120. In TO-5 case. Total power dissipation measured at 25°C case temperature, 1.5 watts.

2N2060. 1-99 ....Each 36.00 100-Up........Each 25.00

Hughes Semiconductors

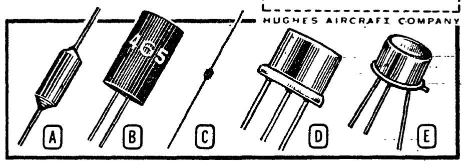
HUGHES
HUGHES AIRCRAFT COMPANY

COLUMN HEADINGS

BV_{CBO}, collector-to-base breakdown v., open input; f_T, unity gain freq. h_{FE}, large signal DC gain, I_{FWD}, min. forward current; I_{MR}, max. rev. current at PIV; I_{test}, test current; PIV, peak inverse voltage; P_t, power dissipation; V_{CE}, voltage, collector-to-emitter (sat) saturation; V_Z, nom. zener voltage @ I_{test}; Z_Z, zener dyn. imp.

HOW TO ORDER

When ordering, specify Department Number, 49 D 23, then add Hughes type number or JEDEC type number. Example: 49 D 23 1N1989.



Allied stocks all Hughes Silicon Voltage Regulator Diodes. See the Allied Semiconductor Directory (front of book) for OEM prices. Allied can supply the entire Hughes semiconductor line; use one order to fill all your needs.

VOLTAGE-VARIABLE SILICON CAPACITORS

Illustrated by Fig. A, in panel above. All are in DO-7 package. Q in table is typical Q at 5 mc at maximum voltage. Range is given for 0.1 v. to maximum voltage. Capacitance variation is 300 ppm/°C over the operating range of —65°C to +150°C. Maximum leakage current (from bias voltage supply) is 1 μa at 25°C, 50 μa at 150°C. In table, capacity is measured in pf at —4 v. DC at 25°C.

Type No.	Cap. ±20%	Max. VDC	Range (μμf)	Q	EACH 1-99	100-999
1N950	35	130	6-88	360	12.00	9.00
1N951	50	80	12-120	330	12.00	9.00
1N952	70	60	20-170	270	6.00	4.50
1N953	100	25	46-240	200	4.50	3.25
1N954	35	25	14-88	175	3.00	2.25
1N955	50	25	22-120	175	3.00	2.25
1N956	70	25	32-170	175	3.50	2.50

PNP PLANAR SILICON TRANSISTORS

Rugged, high-quality planar units for a variety of general purpose applications. All units listed below have operating temperature range of from —65° to +175°C. *Measured at I_c = —150 ma, V_{CE} = —10 VDC. Fig. D, Case TO-5; Fig. E, TO-18.

Type No.	hFE*	Case Style	Pt (W)	VCE (SAT) (V)	BVCBO (V)	Typ. fT (mc)	EACH 1-99	100-999
2N1131	20-45	D	.75	....	50	80	5.00	3.75
2N1132	30-90	D	.75	....	50	80	5.85	4.39
2N722	30-90	E	.4	....	50	80	6.00	4.50
2N1991	15-60	D	.75	....	30	80	3.95	2.96

PNP JUNCTION—GENERAL PURPOSE TYPE SILICON TRANSISTORS

Quality PNP alloy junction transistors for general purpose applications. Ideal for relay and core drivers, amplifiers, switching devices. Operating range, +65° to —160°C. *Minimum AC forward current transfer ratio. Fig. D, TO-5 pkg.

Type No.	hFE	Case Style	Pt (W)	VCE (SAT) (V)	BVCBO (V)	fT (mc)	EACH 1-99	100-999
2N327A	11	D	.385	0.2	50	0.6	2.45	1.84
2N328A	18	D	.385	0.2	50	0.6	5.75	4.31
2N329A	26	D	.385	0.2	50	0.6	10.95	8.21
2N1228	14*	D	.4	0.2	15	0.8	3.10	2.33
2N1229	30*	D	.4	0.2	15	0.8	3.10	2.33
2N1231	30*	D	.4	0.2	35	0.8	10.65	8.00
2N1233	30*	D	.4	0.2	60	0.8	17.50	13.13
2N1234	14*	D	.4	0.2	110	0.8	20.50	15.38
2N1275	9*	D	0.4	0.3	100	0.8	6.50	4.88
2N1623	9*	D	0.4	0.3	50	0.8	2.16	1.62
2N2551	15*	D	0.4	1.2	150	0.8	29.75	22.31

PNP PLANAR HIGH-FREQ. SILICON TRANSISTORS

For high-speed switching. Operating range, —65° to +175°C. TO-5 package, Fig. D above.

2N1254	25-50	D	.275	0.3	30	100	7.80	5.85
2N1255	40-80	D	.275	0.3	30	100	10.27	7.70
2N1258	75-150	D	.275	0.6	30	100	13.00	9.75
2N1259	25-100	D	.275	0.3	50	100	12.85	9.64

A ULTRA-FAST SILICON PLANAR EPITAXIAL DIODES

All units are housed in DO-7 pkg. BV = breakdown voltage. NOTE: MIL types available.

Type No.	BV (V)	IFWD (ma)	IMR (μa)	EACH 1-99	100-999
1N662A	100	100	1.0	1.96	1.47
1N904	30	10	.1	1.33	1.00
1N904A	30	20	.1	1.40	1.05
1N907A	30	20	.1	1.12	.84
1N914B	100	100	.025	2.45	1.84
1N3069	65	50	.005	1.40	1.05
1N4009	35	30	.1	1.68	1.26
1N4092	50	5	1.0	.63	.47
1N4389	5	2	100	1.05	.80
1N4390	20	5	.2	2.85	2.15
1N4391	20	2	.2	2.15	1.60
1N4392	15	25	1	1.55	1.20

C MICROGLASS FAST SILICON PLANAR EPITAXIAL DIODES

HMN types are in Microglass package (affording complete protection from all contaminants) with solderable and weldable silver-clad nickel leads. Large area metal end caps provide for higher dissipation. Rated at 500 mw. Body size is 0.065″ dia., 0.05″ long; with 0.02″ dia. leads, at least 1.36″ long. With glass ambient junction.

HMN 9006	50	300	.100	3.36	2.52
HMN 9007	50	200	.100	2.97	2.23
HMN 9008	50	100	.100	2.45	1.84
HMN 9009	50	20	.100	1.96	1.47
HMN 9010	30	10	.100	1.54	1.16

A GOLD-BONDED GERMANIUM DIODES

DO-7 packages or equivalents. Ratings are for 25° C except as indicated. I_{FWD} given @ +1 volt. *Rev. Recov. (nsec).

Type No.	PIV (V)	IFWD (ma @ +1V)	IMR (ma @ V)	EACH 1-99	100-999
1N95	75	10	.5 @50	.50	.33
1N96	75	20	.5 @50	.59	.44
1N96A	75	40	.500 @50	.59	.44
1N118A	75	40	.100 @50	.63	.47
1N273	100	30	.020 @20	.68	.51
1N695A	20	100	.020@10	.98	.74
1N995	15	100	.01 @65	.60	.45
HD2135	60	5	.1 @50	.64	.48
HD2155	60	50	.5 @50	.85	.64
HD1811	50	100	9*	.77	.58

A ULTRA-FAST SILICON COMPUTER DIODES

Designed for data processing, computers and communication equipment. Also for use in high frequency systems such as radar, UHF communications and related test equipment. Extremely high switching speeds. Max. capacitance @ OV bias, less than 1.0 pf. Body size, .265″x.107″ dia.

Type No.	PIV (V)	IFWD (ma)	Rev. Recov. (nanosec)	EACH 1-99	100-999
HD5000	20	.5	.5	2.85	2.14
HD5001	20	5	.5	2.55	1.91
HD5002	20	2	.5	1.35	1.01
HD5003	20	2	.5	1.20	.90
HD5004	15	2	.5	.90	.68

B SINGLE-ENDED 250-MW ZENER DIODES

Highly stable. Ideal for use in voltage control and regulation circuits. Type Nos. with suffix "A" have 5% tolerance of Vz; others have 10% tolerance.

Type No.	Vz (V)	Itest (ma)	Zz (ohms)	EACH 1-99	100-999
1N465	2.6	5	60	3.00	2.25
1N465A	2.6	5	60	3.50	2.60
1N466	3.45	5	55	3.00	2.25
1N466A	3.45	5	55	3.50	2.60
1N467	4.1	5	45	3.00	2.25
1N467A	4.1	5	45	3.50	2.60
1N468	4.85	5	35	3.00	2.25
1N468A	4.85	5	35	3.50	2.60
1N469	5.8	5	20	3.00	2.25
1N469A	5.8	5	20	3.50	2.60
1N470	7.1	5	10	3.00	2.25
1N470A	7.1	5	10	3.50	2.60
1N1313	8.75	.2	....	3.00	2.25
1N1313A	8.75	.2	....	3.50	2.60
1N1314	10.5	.2	....	3.00	2.25
1N1314A	10.5	.2	....	3.50	2.60
1N1315	12.75	.2	....	3.00	2.25
1N1315A	12.75	.2	....	3.50	2.60
1N1316	15.75	.2	....	3.00	2.25
1N1316A	15.75	.2	....	3.50	2.60
1N1317	19	.2	....	3.00	2.25
1N1317A	19	.2	....	3.50	2.60
1N1318	23.5	.2	....	3.00	2.25
1N1318A	23.5	.2	....	3.50	2.60
1N1319	28.5	.2	....	3.00	2.25
1N1319A	28.5	.2	....	3.50	2.60
1N1983	5.65	5	8	3.00	2.25
1N1984	6.27	5	7	3.00	2.25
1N1985	8.3	5	15	3.00	2.25
1N1986	9.2	5	22	3.00	2.25
1N1987	12	1	30	3.00	2.25
1N1988	14.5	1	50	3.00	2.25
1N1989	18	1	70	3.00	2.25
1N1990	22	1	100	3.00	2.25
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SILICON MIXER DIODES

Type No.	Description	1-9, EA.	10-99, EA.	100-999, EA.
CARTRIDGE CASE TYPE—1000-4000 MC				
1N21B	Forward Polarity	.68	58	.53
1N21BR	Reversed Polarity	1.02	.88	.81
1N21C	Forward Polarity	1.02	.88	.81
1N21CR	Reversed Polarity	1.41	1.22	1.12
1N21E	Forward Polarity	4.20	3.60	3.30
1N21F	Forward Polarity	8.10	6.90	6.35
1N416E	Reversible Polarity	4.20	3.60	3.30
MA4127	High Burn-out Type	3.80	3.42	2.90
CARTRIDGE CASE TYPE—4000-10,000 MC				
1N23BR	Reversed Polarity	1.02	.88	.81
1N23C	Forward Polarity	1.02	.88	.81
1N23E	Forward Polarity	4.20	3.60	3.30
1N23ER	Reversed Polarity	6.30	5.40	4.95
1N23F	Forward Polarity	8.10	6.90	6.35
1N23WE	Reversible Polarity	5.25	4.50	4.15
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1N150	Forward Polarity	3.13	2.82	2.50
1N150R	Reversed Polarity	4.70	4.23	3.76
1N160	Forward Polarity	2.78	2.50	2.22
1N415E	Reversible Polarity	4.20	3.60	3.30

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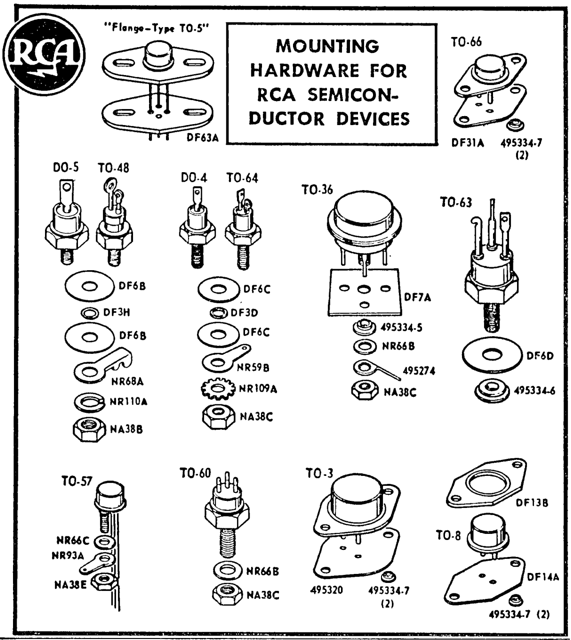
Mfr's Type	Cap. —4 v. DC (pf)	Min. Q @ —4 v. DC, 5 mc	EACH 1-9	10-99	100-999
MA4273B	6.5	100	20.00	18.00	16.00
MA4273C	10	100	12.00	10.50	9.00
MA4273D	15	100	12.00	10.50	9.00
MA4273F	33	100	20.00	17.50	15.00

Mounting hardware for use with standard cases as follows: DF63A mounts flange type TO-5. DF31A, two 495334-6 mount TO-66. Two DF6B, DF3H, NR68A, NR110A, NA38B mount DO-5 or TO-48. Two DF6C, DF3D, NR59B, NR109A, NA38C, mount DO-4 and TO-64. DF7A, 495334-5, NR66B, 495274, NA38C mount TO-36. DF6D, 495334-6 mount TO-63. NR66C, NR93A, NA38E mount TO-57. NR66B, NA38C mount TO-60. 495320, two 495334-7 mount TO-3. DF138, DF14A, two 495334-7 mount TO-8. SA2100 is a heat sink clip for TO-1 or TO-18 case.

Stock No.	Part No.	Description	No. Parts in Std. Pkg.	PER PKG.
47 D 6724	NA38C	Nut	25	.38
47 D 6725	NR109A	Lock Washer	25	.27
47 D 6726	DF6C	Insulator—Mica	50	.68
47 D 6727	DF3D	Insulator—Teflon	25	.81
47 D 6728	NR59B	Connector	25	.59
47 D 6729	NA38B	Nut	25	.52
47 D 6749	NR110A	Lock Washer	25	.30
47 D 6730	NR68A	Connector	25	1.44
47 D 6731	DF3H	Insulator—Teflon	50	1.79
47 D 6732	DF6B	Insulator—Mica	50	.85
47 D 6733	SA2100	Heat Sink Clip	100	1.15
47 D 6734	495320	Insulator—Mica	100	2.40
47 D 6735	495334-7	Washer—Nylon	100	1.64
47 D 6736	DF63A	Insulator—Mica	100	1.70
47 D 6737	DF13B	Mounting Clamp	25	1.09
47 D 6738	DF14A	Insulator—Mica	100	1.96
47 D 6739	NR66B	Washer	25	.26
47 D 6740	495274	Connector	25	.54
47 D 6741	495334-5	Bushing—Delrin	25	1.72
47 D 6742	DF7A	Insulator—Mica	25	.92
47 D 6743	NR93A	Connector	50	.94
47 D 6744	NR66C	Washer	50	.44
47 D 6745	NA38E	Nut	50	.68
47 D 6746	DF6D	Insulator—Mica	100	1.62
47 D 6747	495334-6	Insulator—Teflon	100	11.14
47 D 6748	DF31A	Insulator—Mica	100	1.77



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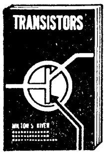

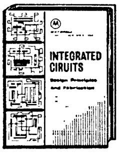

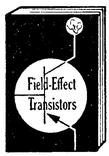

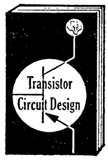

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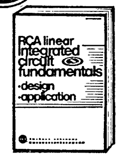

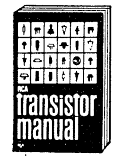

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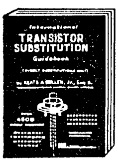

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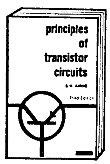

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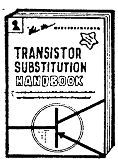

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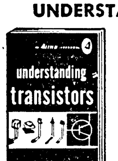

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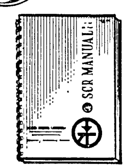

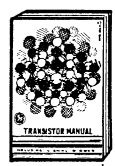

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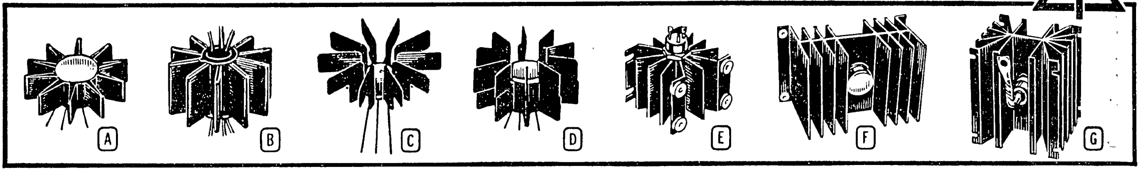

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RISE (0°) FOR 1 WATT

Type	Nat. Conv.	250 Ft./Min.	Fits Jedec Case Styles
201	66	27	TO 18, 24, 28
203	56	19	(222 accepts
222	56	19	2 cases)
205	61	24	TO 5, 9, 11, 12, 16
207	49	17	29, 33, 39, 42, 43
209	34	10	(224 accepts
224	49	17	2 cases)
211	56	20	
213	44	13	TO 8
215	31	8	

Unique fin design permits horizontal or vertical orientation with excellent natural convection in either position. In forced convection applications, the axis of the semiconductor may be oriented either perpendicular or parallel to the direction of air flow. Series 200 coolers are made from a beryllium copper alloy having twice the thermal conductivity of commonly used alloys. Black ebonal finish. Meets MIL-C-81021.

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60 D 6528	NF203	D	.64	.38	.161/.24	.29	.22	.17	.12
60 D 9525	NF204	A	.55	.20	.275/.335	.25	.20	.15	.10
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60 D 6530	NF207	D	.72	.38	.275/.370	.29	.22	.17	.12
60 D 6531	NF209	C	1.28	.44	.275/.370	.34	.29	.23	.18
60 D 7074	NF211	A	.83	.19	.440/.544	.27	.21	.16	.11
60 D 7073	NF213	D	.83	.38	.440/.544	.29	.22	.17	.12
60 D 7075	NF215	C	1.40	.44	.440/.544	.34	.29	.23	.18
60 D 7042	NF222	B	.64	.38	.161/.240	.38	.30	.24	.19
60 D 7043	NF224	B	.72	.44	.275/.371	.38	.30	.24	.19
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60 D 7078	NC301N	.75	2.00	2.00	1.55	1.30	1.05	.90
60 D 7079	NC301R	.75	2.00	2.00	1.55	1.30	1.05	.90
60 D 7080	NC301RR	.75	2.00	2.00	1.55	1.30	1.05	.90
60 D 7082	NC302M	1.50	2.00	2.00	1.65	1.40	1.15	1.00
60 D 7083	NC302N	1.50	2.00	2.00	1.65	1.40	1.15	1.00
60 D 7084	NC302R	1.50	2.00	2.00	1.65	1.40	1.15	1.00
60 D 7087	NC302RR	1.50	2.00	2.00	1.95	1.65	1.35	1.20
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60 D 7090	NC303N	3.00	2.00	2.00	1.90	1.60	1.30	1.15
60 D 7091	NC303R	3.00	2.00	2.00	1.90	1.60	1.30	1.15
69 D 7093	NC303RR	3.00	2.00	2.00	2.20	1.85	1.50	1.35

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Mtg. area, Types 401-423, 6.3 sq. in.; Type 441, 7.13 sq. in.

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60 D 7094	NC401E	F	1.50	4.81	1.25	1.78	1.45	1.22	1.06
60 D 6503	NC401K	F	1.50	4.81	1.25	1.29	1.06	.88	.76
60 D 6504	NC403A	F	3.00	4.81	1.25	1.78	1.45	1.23	1.07
60 D 6505	NC403B	F	3.00	4.81	1.25	1.78	1.45	1.23	1.07
60 D 7096	NC403C	F	3.00	4.81	1.25	1.78	1.45	1.23	1.07
60 D 6506	NC403K	F	3.00	4.81	1.25	1.52	1.24	1.05	.90
60 D 9526	NC413A	F	3.00	4.81	1.87	2.41	1.96	1.65	1.43
60 D 9527	NC413B	F	3.00	4.81	1.87	2.41	1.96	1.65	1.43
60 D 9528	NC413K	F	3.00	4.81	1.87	2.15	1.75	1.46	1.27
60 D 6507	NC421A	F	3.00	4.81	2.63	2.51	2.05	1.73	1.49
60 D 6508	NC421B	F	3.00	4.81	2.63	2.51	2.05	1.73	1.49
60 D 7098	NC421C	F	3.00	4.81	2.63	2.51	2.05	1.73	1.49
60 D 6509	NC421K	F	3.00	4.81	2.63	2.24	1.84	1.54	1.32
60 D 6510	NC423A	F	5.50	4.81	2.63	3.66	2.98	2.52	2.17
60 D 6511	NC423B	F	5.50	4.81	2.63	3.66	2.98	2.52	2.17
60 D 6512	NC423K	F	5.50	4.81	2.63	3.40	2.77	2.33	2.00
60 D 7106	NC441J	G	5.50	4.75	4.50	6.41	6.24	4 37	3.77
60 D 7107	NC441W	G	5.50	4.75	4.50	6.41	6.24	4.37	3.77
60 D 6533	NC441K	G	5.50	4.75	4.50	5.92	4.84	4.03	3.48

HEAT SINK EXTRUSION IN 3-FOOT LENGTHS. Extrusions for use with all heat sink coolers listed on these two pages.

Stock No.	Mfr's Type	For Cooler Type	Inches H	W	PER 3-FT. LGTH. 1-4	5-9	10-25
60 D 9509 X	300	NC301, 302, 303	2.00	2.00	6.00	5.00	4.50
60 D 9510 X	400	NC401, 403	1.25	4.81	7.75	6.50	5.75
60 D 9522 X	410	NC413	1.87	4.81	12.75	11.00	9.50
60 D 9511 X	420	NC421, 423	2.63	4.81	12.75	11.00	9.50
60 D 9512 X	440	NC441	4.50	4.75	20.50	17.50	15.50
60 D 9513 X	600	NC601, 603	.56	2.24	3.25	2.75	2.50
60 D 9515 X	620	NC621, 623	.46	4.81	5.75	5.00	4.25
60 D 9516 X	640	NC641	1.00	4.12	7.20	6.50	5.75

NYLON AND TEFLON INSULATORS

For effective electrical isolation of heat sink cooler from it's mounting. All are Teflon except, *Nylon.

Stock No.	Mfr's Type	For Cooler No.	No. Req.	Bkdn KV	Pkg. of 10
60 D 6534	100*	140, 141, 142	.....		.32
60 D 6520	101	501	2		
		502, 503, 504, 505	4	1.0	.85
60 D 6535	102A*	301	2		.66
		401	3		
		302, 303, 403, 413, 421, 423, 621 623, 641	4	1.5	.57
60 D 6519	103	401	3		
		403, 413, 421, 423, 621, 623, 641	4	1.5	.57
60 D 6536	104*	Same as 102A	.....	3.0	.46
60 D 7067	105	441, 1244, 1245, 1541	4	5.0	2.30
60 D 6537	106*	Same as 105	.....	3.0	.67
60 D 9560	107	Same as 103	.....	3.5	2.30

Stock No.	Type	Quan.	EA.
60 D 9506	122	2 oz.	1.95
60 D 9507	128	8 oz.	5.10

Thermal Joint Compound. Use between semiconductor and cooler. Improves thermal conductance, four times that of silicone grease.

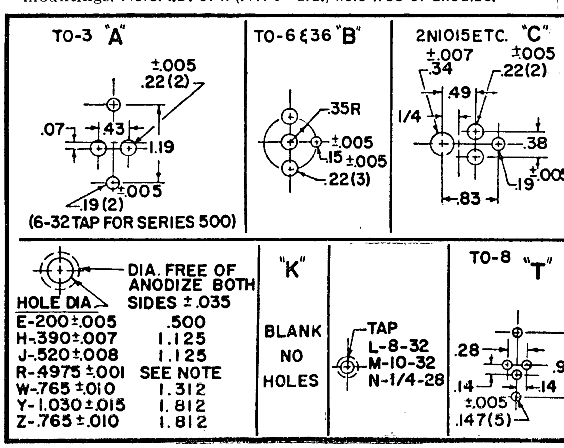
Delta Bond 152 Thermally Conductive Adhesive. For bonding semiconductors to chassis heat sinks, fabricating heat sinks or thermal links and permanent bonding of all materials with highly thermal conductive interface. For porous or nonporous surfaces. 7.5 oz.
60 D 6735..5.00

Vertical Mounting Brackets. Meet MIL 202B vibration specs. For NC-401, 403, use Type 111; for NC421, 423, use Type 113. 2 required per sink. Use Teflon insulator #103 for mounting. 10 oz.

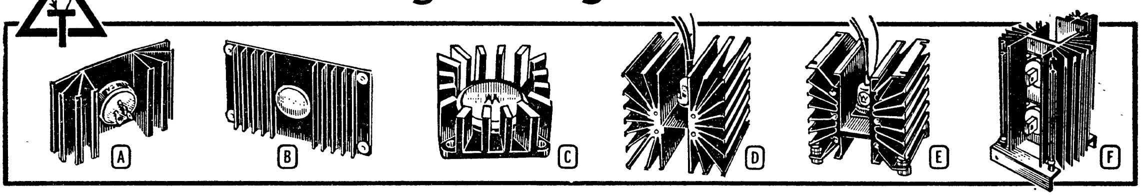
Stock No.	Type No.	1-99 EA.	100-499 EA.
60 D 9529	111	.15	.12
60 D 9530	113	.18	.15

STANDARD SEMICONDUCTOR MTG. ACCOMMODATIONS

Type suffix (A, B, etc.) denotes mounting. Double suffix denotes 2 mountings. Note: I.D. of R (.4975″ dia.) hole free of anodize.



Wakefield Engineering Semiconductor Coolers



SERIES 600 CIRCUIT BOARD COOLERS

Semiconductor mounting area for Type NC601 and Type NC603 is 1.64 sq. inches. Semiconductor mounting area for Type NC621 through Type NC623 is 6.3 square inches. Semiconductor mounting area for Type NC641 is 5.40 square inches.

Stock No.	Mfr's Type	Fig.	Inches H	W	D	EACH 1-49	50-99	100-249	250-499
60 D 7054	NC601K	A	1.25	2.02	.56	1.10	.90	.70	.55
60 D 7049	NC603T	A	2.00	2.02	.56	1.50	1.20	.95	.80
60 D 7055	NC603K	A	2.00	2.02	.56	1.20	.95	.75	.60
60 D 7056	NC621A	B	1.50	4.81	.46	1.65	1.35	1.10	.95
60 D 7057	NC621B	B	1.50	4.81	.46	1.65	1.35	1.10	.95
60 D 7058	NC621K	B	1.50	4.81	.46	1.35	1.10	.90	.75
60 D 7059	NC623A	B	3.00	4.81	.46	1.80	1.50	1.20	1.05
60 D 7061	NC623K	B	3.00	4.81	.46	1.50	1.25	1.00	.85
60 D 7062	NC641A	A	3.00	4.12	1.00	1.95	1.60	1.30	1.10
60 D 7063	NC641B	A	3.00	4.12	1.00	1.95	1.60	1.30	1.10
60 D 7064	NC641K	A	3.00	4.12	1.00	1.65	1.35	1.10	.90

[C] SERIES 680 CIRCUIT BOARD COOLERS

For transistor case sizes such as TO-5, TO-36, 2N1016 or smaller. High thermal conductivity aluminum alloy. 1.81x1.81″ mtg. centers.

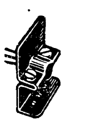
Stock No.	Mfr's Type	Inches H	W	D	EACH 1-24	25-49	50-99	100-499
60 D 9531	NC680-.5A	.50	1.81	1.81	.91	.85	.80	.75
60 D 9532	NC680-.5B	.50	1.81	1.81	.91	.85	.80	.75
60 D 9533	NC680-.5K	.50	1.81	1.81	.91	.85	.80	.75
60 D 9534	NC680-.75A	.75	1.81	1.81	.91	.85	.80	.75
60 D 9535	NC680-.75B	.75	1.81	1.81	.91	.85	.80	.75
60 D 9536	NC680-.75K	.75	1.81	1.81	.91	.85	.80	.75
60 D 9537	NC680-1.0A	1.00	1.81	1.81	.91	.85	.80	.75
60 D 9538	NC680-1.0B	1.00	1.81	1.81	.91	.85	.80	.75
60 D 9539	NC680-1.0K	1.00	1.81	1.81	.91	.85	.80	.75
60 D 9540	NC680-1.25A	1.25	1.81	1.81	.91	.85	.80	.75
60 D 9541	NC680-1.25B	1.25	1.81	1.81	.91	.85	.80	.75
60 D 9542	NC680-1.25K	1.25	1.81	1.81	.91	.85	.80	.75

[D] WN SERIES FOR 70/350 AMP RECTIFIERS

For 1$\frac{1}{16}$″, 1¼″ and 1¾″ hex rectifiers and SCR'S. Min. width of mtg. area: WN1244, 1.10″; WN1245, 1.28″; WN-1541, 1.76″.

Stock No.	Mfr's Type	Inches H	W	D	EACH 1-24	25-49	50-99	100-199
60 D 9546	WN1244-5H	4.00	4.00	5.00	4.85	4.15	3.70	3.30
60 D 9547	WN1244-5J	4.00	4.00	5.00	4.85	4.15	3.70	3.30
60 D 9502	WN1244-5K	4.00	4.00	5.00	4.50	3.85	3.40	3.10
60 D 9548	WN1245-6W	5.00	5.00	6.00	6.15	5.25	4.65	4.15
60 D 9503	WN1245-6K	5.00	5.00	6.00	5.80	4.95	4.40	3.95
60 D 9549	WN1541-6Z	6.25	6.25	9.00	9.55	8.20	7.25	6.50
60 D 9550	WN1541-6Y	6.25	6.25	9.00	9.55	8.20	7.25	6.50
60 D 9504	WN1541-6K	6.25	6.25	9.00	9.00	7.75	6.85	6.15
60 D 9551	WN1541-9Z	6.25	6.25	9.00	13.40	11.50	10.20	9.20
60 D 9552	WN1541-9Y	6.25	6.25	9.00	13.40	11.50	10.20	9.20
60 D 9505	WN1541-9K	6.25	6.25	9.00	13.10	11.25	9.90	8.90

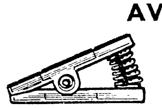
TYPE 150 CIRCUIT BOARD COOLERS



Circuit board cooler for TO-5 cases. Characteristics: Case rise, 40°C @ 1 watt with bright aluminum finish; 34°C @ 1 watt with black anodized finish. Has 3 eyelets for keying to circuit board. Size, 1⅜x1x.375″.

60 D 6538. Aluminum finish.................. Each .06
60 D 6539. Black anodized finish............. Each .10

AVTRON HEAT-SINK CLIP



Convenient, easy way to protect semiconductors from the destructive effects of heat generated while soldering. Spring-loaded, aluminum clip fits around wire between the semiconductor and the joint that is to be soldered. During the soldering process, heat-sink clip effectively absorbs and dissipates most of the heat generated and conducted through the wire. A must for efficient operation.

60 D 8819. 1-99......... Each .25 100-Up.......... Each .20

[E] GN SERIES FOR 70/200 AMP RECTIFIERS

Replace forced convection systems. Black anodized finish. Width of semiconductor mtg. area: GN1157, 1.07″ min.; GN1251, 1.31″ min.

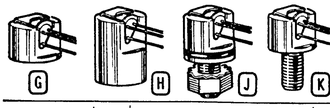
Stock No.	Mfr's Type	Inches H	W	D	EACH 1-24	25-49	50-99	100-199
60 D 9543	GN1157-5H	4.12	4.12	5.00	5.55	4.75	4.20	3.75
60 D 9544	GN1157-5J	4.12	4.12	5.00	5.55	4.75	4.20	3.75
60 D 9500	GN1157-5K	4.12	4.12	5.00	5.20	4.45	3.95	3.55
60 D 9545	GN1251-5.5W	5.00	5.00	5.50	7.00	6.00	5.30	4.75
60 D 9501	GN1251-5.5K	5.00	5.00	5.50	6.65	5.70	5.00	4.55

[F] MN SERIES FOR 240/650 AMP RECTIFIERS

*Inserts for increased heat dissipation.

Stock No.	Mfr's Type	Inches H	W	D	EACH 1-9	10-24	25-49	50-99
60 D 9553	MN2131-3.5K	3.5	9.25	6.75	7.70	6.60	5.85	5.25
60 D 9554	MN2131-6K	6.0	9.25	6.75	11.95	10.30	9.10	8.20
60 D 9555	MN2131-12K	12.0	9.25	6.75	21.80	18.70	16.50	14.85
60 D 9556	MN2159-3.5K*	3.5	3.37	3.43	1.95	1.70	1.50	1.35
60 D 9557	MN2159-6K*	6.0	3.37	3.43	3.15	2.70	2.40	2.15
60 D 9558	MN2159-12K*	12.0	3.37	3.43	5.50	4.75	4.20	3.75
60 D 9559	109	1.5	7.50	1.50	Plastic Angle Brkt. EA. .95			

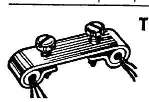
THERMAL RETAINERS FOR TO-5 CASES



Series TR-254 heat sinks are intended as thermal links from transistor to coller or chassis member acting as heat sink.

Stock No.	Fig.	Mfr's Type	θ case to chassis °C/W	EACH 1-99	100-499	500-999	1000-2499
60 D 6540	K	254-S	4.1	.18	.15	.135	.120
60 D 6541	J	254-SI	6.0	.25	.21	.19	.17
60 D 6542	H	254-T	5.3	.20	.17	.15	.135
60 D 6543	G	254-P	4.0	.13	.115	.105	.095
60 D 6544	G	254-D	4.0	.21	.18	.16	.145

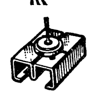
TYPE 255 THERMAL CLAMP FOR TO-1 CASES



For push/pull driver or low power output applications using TO-1 case style transistors. Holds cases solidly to chassis or heat sink. Aluminum.

60 D 6545......................... Each .063

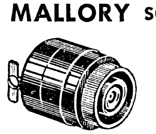
SNAP-ON CIRCUIT BOARD HEAT SINKS



Inexpensive, well designed black anodized circuit board heat sinks fit popular press fit diodes and SCR'S, also JEDEC TO-8 cases. *Transistor case temp. @ 5 watts.

Stock No.	Mfr's Type	Size (HWD)	*Temp. C. (approx)	EACH 1-499
60 D 6546	140	1.03x.93x.52″	85°	.14
60 D 6547	141	1.03x1.41x.52″	71°	.16
60 D 6548	142	1.03x3x.52″	46°	.19

MALLORY SONALERT AUDIBLE WARNING DEVICE



Solid state miniature audible-signal warning device, emits a discernible signal at minimum current. Eliminates arcing and RF noise. Use with communications control systems; appliances; automotive functions, etc. *Pulsing sound output. Av. shpg. wt., 8 oz.

SPECIFICATIONS

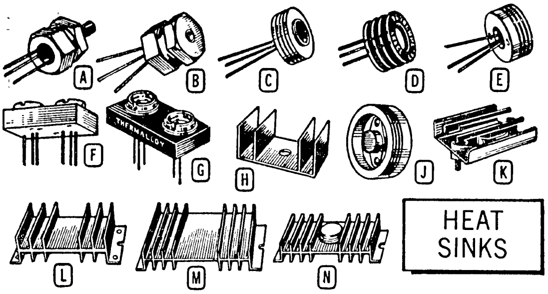
Type	Freq.	Volts	Ma	DB	Temp. F°
SC628	2.5 kc	6-28DC	3-14	68-80	—40-130
SC628P*	2.5 kc	6-28DC	3-14	65-77	—40-130
SC628H	4.5 kc	6-28DC	3-14	68-80	—40-130
SC628A	2.5 kc	6-28AC/DC	3-14	68-80	—40-130
SC110	2.5 kc	110AC/DC	14	80	—40-130

ORDERING INFORMATION

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499	500-UP
60 D 8983	SC628	5.50	5.40	5.15	4.65	4.15	3.85
60 D 9745	SC628P*	9.95	9.75	9.30	8.40	7.45	6.85
60 D 8984	SC628H	6.35	6.25	5.95	5.40	4.80	4.40
60 D 8985	SC628A	8.75	8.60	8.20	7.40	6.60	6.10
60 D 8986	SC110	8.75	8.60	8.20	7.40	6.60	6.10

Thermistors and Heat Dissipators

THERMALLOY TRANSISTOR HEAT SINKS AND MOUNTING PADS

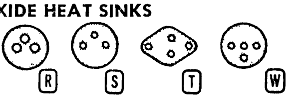


Finish: Black anodized per MIL-A-8625, Type II except *400 v insul. per MIL-F-14072; †Gold chromate per MIL-C-5541. ‡For power semiconductors. #Typical Rt Natural Convection, °C per watt.

Stock No.	Mfr's Type	Fig.	For Case	Size. Inches L. x W. x H.	#	EACH 1-11	EACH 12-99
60 D 6830	1101A	A	TO-5	0.5x0.5x0.88	10*	1.05	.85
60 D 6831	1103A	B	TO-5	0.5x0.5x0.5	10*	1.00	.80
60 D 6832	2207/PR11	C	TO-5	0.81x0.81x0.34	20	1.55	1.25
60 D 6833	2209-4A	C	TO-5	0.81x0.81x0.34	20*	1.45	1.15
60 D 6834	2211C	D	TO-5	0.63x0.63x0.31	55†	.25	.20
60 D 6835	2215B	C	TO-5	0.75x0.75x0.38	20	1.20	.95
60 D 8823	3005A	F	TO-5	1.25x0.5x0.5	30*	2.00	1.60
60 A 6836	1107A	A	TO-18	0.38x0.38x0.56	25*	1.05	.85
60 D 6837	2218B	E	TO-18	0.5x0.5x0.31	40	.50	.40
60 D 8825	3018A	G	TO-18	1.0x0.5x0.31	45*	1.95	1.55
60 D 6838	2212B	C	TO-8	1.06x1.06x0.38	5	1.95	1.55
60 D 6839	6111B-37	H	TO-37	1.5x1.5x0.625	10	.80	.70
60 D 6840	2214A	J	TO-37	1.06x1.06x0.38	14*	1.60	1.30
60 D 6841	6111B-66	H	TO-66	1.5x1.5x0.625	10	.80	.70
60 D 6842	6166B	K	TO-66	1.32x0.87x0.625	11	.45	.41
60 D 6843	6103B	K	Power‡	1.58x1.25x0.5	7	.50	.45
60 D 6844	6363B	L	Power‡	3.06x4.63x1.38	1.5	1.00	.80
60 D 6845	6123B	M	Power‡	3.0x4.63x1.25	1.5	1.10	.90
60 D 6846	6500B	N	Power‡	3.03x4.50x1.03	2.5	1.05	.85

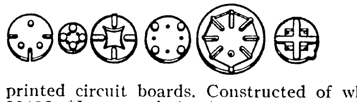
BERYLLIUM OXIDE HEAT SINKS

Thin beryllium oxide heat sinks, designed for a variety of semiconductor case types; rated at 700 and 850 volts.



Stock No.	Mfr's Type	Fig.	For Case	Rated Volts	Size. Inches L. x W. x H.	EACH 1-11	EACH 12-99
60 D 6847	4018	R	TO-18	700	0.22x0.22x0.03	.70	.55
60 D 6848	4005	S	TO-5	700	0.36x0.36x0.03	.75	.60
60 D 6849	4003	T	TO-3	850	1.56x1.05x0.06	1.40	1.10
60 D 6850	4036	W	TO-36	850	1.06x1.06x0.06	1.10	.90
60 D 6851	4066	T	TO-66	850	1.25x0.70x0.06	1.20	1.00

SEMICONDUCTOR LEAD CONVERSION PADS



Low-cost pads protect transistors and integrated circuits from shock and vibration. Provide uniform spacing above printed circuit boards. Constructed of white nylon per MIL-P-20693. *Integrated circuit type; converts lead spacing from .200″ dia. circle to circle size specified. †Epoxy transistor type; converts .05 in-line to standard TO-5 case. Supplied in packages of 100.

Stock No.	Mfr's Type 7717-	Converts Lead Spacing From	To	No. of Leads	Size. Inches O. D.	Max. Thick.	PER 100
60 D 6852	2N	.05 inline	TO-5†	3†	.305	.125	5.00
60 D 9482	7N	TO-18	TO-5	3 or 4	.250	.125	5.00
60 D 9481	44N	TO-18	TO-5	3 or 4	.305	.125	5.00
60 D 6853	80N	TO-18	TO-5	3, 4 or 6	.305	.125	6.00
60 D 6854	106N	Dual TO-5	.05 grid	6	.450	.160	18.00
60 D 6855	104N	.200 to .300″ circle		10*	.420	.250	18.00
60 D 6856	107N	.200 to .350″ circle		8*	.430	.130	18.00
60 D 6857	100N	.200 to .350″ circle		12*	.500	.275	18.00
60 D 6858	19N	.200 to .400″ circle		8*	.500	.275	18.00
60 D 6859	21N	.200 to .400″ circle		10*	.500	.275	18.00
60 D 6860	20N	.200 to .400″ circle		12*	.500	.275	18.00

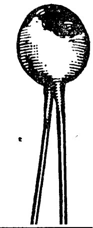
SEMICONDUCTOR MOUNTING PADS

For mounting of TO-5 and TO-18 case semiconductors, and integrated circuits. White nylon construction per MIL-P-20693. *Indicates integrated circuit type; table shows pin circle diameter. †Mfr's Type 7177-81N may be used either with TO-18 cased 6-lead devices, or with TO-5 cased 8-lead devices. §Mfr's Types 7717-8N, 7717-10N, and 7717-12N may be used for either TO-5 cased devices or for integrated circuits.

Stock No.	Mfr's Type	For Case	No. of Leads	Size, Inches O. D.	Thick.	PER 100
60 D 6861	7717-46N	TO-18	3 or 4	.200	.060	5.00
60 D 9480	7717-18N	TO-18	3 or 4	.200	.100	5.00
60 D 6862	7717-81N	TO-18†	6	.290	.125	6.00
60 D 6863	7717-22N	TO-5	3	.344	.075	5.00
60 D 6864	7717-79N	TO-5	3	.355	.038	5.00
60 D 6865	7717-15N	TO-5	3 or 4	.350	.020	5.00
60 D 6866	7717-94N	TO-5	3 or 4	.350	.038	5.00
60 D 9477	7717-3N	TO-5	3 or 4	.344	.075	5.00
60 D 9478	7717-5N	TO-5	3 or 4	.350	.125	5.00
60 D 9483	7717-4N	TO-5	3 or 4	.375	.075	5.00
60 D 9484	7717-6N	TO-5	6	.375	.075	6.00
60 D 9485	7717-8N	.200§	8	.375	.075	6.00
60 D 9486	7717-10N	.200§	10	.375	.075	6.00
60 D 9487	7717-12N	.200§	12	.375	.075	6.00
60 D 6867	7717-38N	.230*	8	.375	.075	6.00
60 D 6868	7717-30N	.230*	10	.375	.075	6.00
60 D 6869	7717-32N	.230*	12	.375	.075	6.00

YELLOW SPRINGS INSTRUMENT PRECISION 1% THERMISTORS AND PROBES

YSI LOW-COST 1% THERMISTORS



Match standard resistance-temperature curves and each other to 1% or less tolerance over range of —80°C to +150°C. Supplied with chart giving resistance values at each degree of temperature; tolerance curves; dissipation and time constants. Serve as transducers for measurement and control circuits; high precision permits interchanging and multiple monitoring from single circuit, direct dialing of set points. Used as temperature-compensating units for meters, etc. Epoxy encapsulated. Size: .09″ diameter; 3-inch leads. Resistance tolerance: 1% at .3°C except †0.8% at .2°C. *At 25°C. Av. wt., 1/4 oz. **Values may be assorted at quantity prices.**

Stock No.	Mfr's Type	Base Res. Ohms*	Stock No.	Mfr's Type	Base Res. Ohms*
60 D 9806	44001	100	60 D 9811	44008	30K†
60 D 9807	44002	300	60 D 9812	44011	100K†
60 D 9808	44003	1000	60 D 9813	44014	300K
60 D 9809	44005	3000†	60 D 9814	44015	1 meg
60 D 9810	44006	10K†			

1-9 . . . . . Each 4.90 10-29 . . . . . Each 4.15 30-99 . . . . . Each 3.50

Thermilinear Thermistor Networks. Precision thermistor devices provide linear voltage outputs with change of temperature. Have sensitivities of 20mv/°C or more, 400 times that of an IC thermocouple. Linearity deviations are as little as 2 parts in 1000 from 0 to 100°C. Useful for direct digital temperature indication with DVM or linear recorder. Linear temperature compensation with thermistor sensitivity. Time constant: 1 sec. in oil. *Additional composite for replacement or multiple work. Av. shpg. wt., 1 oz.

YSI TEFLON 1% THERMISTOR PROBES

Accurate probes have same interchangeable thermistors listed at left, but encased in 2″ long chemically impervious Teflon tube. Specially suited for sensing or control applications. Match standard resistance-temperature curves to 1% tolerance or less. 3″ leads extend 1″ beyond probe; insulated by smaller Teflon tube around one lead. Can be used straight or finger-formed to a specific shape. Time constant (time for thermistor to indicate 63% of new impressed temperature): 2.5 seconds max. in oil bath, 25 seconds in still air. Dissipation constant: 8 mw/°C in oil bath; 1 mw/°C in still air. Size: .11″ maximum diameter. Resistance Tolerance: 1% at .3°C except †0.8% at .2°C. *Base resistance at 25°C. **Values may be assorted at quantity prices.**

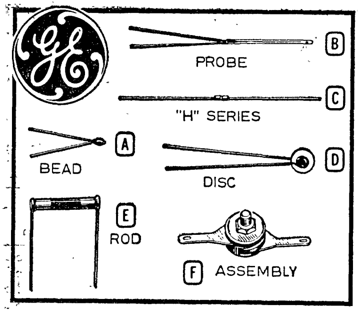
Stock No.	Mfr's Type	Base Res. Ohms*	Stock No.	Mfr's Type	Base Res. Ohms*
60 D 9815	44101	100	60 D 9820	44108	30K†
60 D 9816	44102	300	60 D 9821	44111	100K†
60 D 9817	44103	1000	60 D 9822	44114	300K
60 D 9818	44105	3000†	60 D 9823	44115	1 meg
60 D 9819	44106	10K†			

1-9 . . . . . Each 9.90 10-29 . . . . . Each 8.90 30-99 . . . . . Each 7.75

Stock No.	Mfr's Type	Range	Linearity	EACH 1-9	EACH 10-29	EACH 30-99
60 D 9788	44201	0° to +100°C	±.2°C	19.70	18.25	16.80
60 D 9789	44202	−5° to +45°C	±.1°C	19.70	18.25	16.80
60 D 9790	44203	−30° to +50°C	±.2°C	19.70	18.25	16.80
60 D 9791	44204	30° to +100°F	±.075°F	19.70	18.25	16.80
60 D 9792	44018*	−30° to +100°C	±.15°C	14.90	13.70	12.60

Thermistors are available bulk-packed in larger quantities than those shown above—write for prices and delivery.

General Electric Thermistors



Bead, Bead Probe, and "H" Series thermistors are designed for use where fast response and stability are important requirements, or where high temperatures are encountered. "H" Series thermistors are hermetically sealed in a glass package and are excellent for use in printed circuit boards. Bead Probes are suitable for liquid-immersion applications. Disk thermistors are designed for use in intermediate power ranges. Rods, Washers, and Assemblies have been manufactured to meet higher power requirements. Maximum operating temperatures: for Beads, Bead Probes, and "H" Series. 400°C; for Discs, Rods, Washers, and Assemblies, 150°C. All are 10% tolerance except, *20%. All standard thermistors and varistors listed in GE Stock Catalogs 3201 and 9201 and not on pages 94 and 95 are available from Allied on special order.

ENGINEERING APPRAISAL KITS

KIT "A" LOW RES. THERMISTORS

Type	Grade	2 Ea.	Size (in.) Dia.	Size (in.) Len.	Res. Ohms
Disk	2	2D104	.1	.035	500
Disk	2	2D204	.2	.028	100
Disk	2	2D302	.3	.189	300
Disk	2	2D404	.4	.028	25
Disk	2	2D504	.5	.088	50
Disk	2	2D754	.75	.039	10

60 D 6793.............Per Kit 15.00

KIT "B" HIGH RES. THERMISTORS

Disk	1	1D101	.1	.095	10K
Disk	1	1D203	.2	.038	1K
Rod	1	1R051	.05	.5	100K
Rod	1	1R113	.112	.9	31.5K
Rod	1	1R171	.173	1.8	50K
Rod	2	2R114	.112	.9	4.3K

60 D 6794.............Per Kit 15.00

KIT "D" 1000-OHM THERMISTORS

Disk	1	1D203	.2	.038	1000
Disk	1	1D303	.3	.086	1000
Disk	1	1D401	.4	.152	1000
Disk	1	1D501	.5	.238	1000
Disk	2	2D102	.1	.070	1000
Disk	2	4D753	.75	.053	1000

60 D 6795.............Per Kit 15.00

KIT "E" BEAD-SIZE THERMISTORS

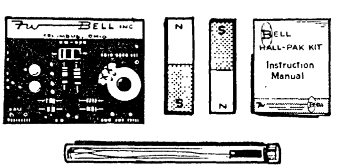
Disk	1	1D501	.05	.048	20K
Disk	1	1D053	.05	.024	10K
Disk	2	2D052	.05	.034	2000
Disk	2	2D054	.05	.017	1000
Disk	3	3D052	.05	.034	200
Disk	3	3D054	.05	.017	100

60 D 6796.............Per Kit 15.00

BEADS, BEAD PROBES, DISKS, RODS, WASHERS AND ASSEMBLIES

Stock No.	Mfr's Type	Fig.	Ohms @ 25°C	Res. Ratio 25°C/125°C	Diss. Const. (Mw/°C)	Time Const. (Secs.)	Dia. (in.)	EACH 1-9	10-24	25-49	50-99	100-499	500-999
60 D 9824	81B105	A	*1 meg	51.5	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9825	81B504	A	*500K	46.5	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9826	81B154	A	*150K	39.7	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9827	81B503	A	*50K	35.0	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9828	81B103	A	*15K	29.85	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9829	81B153	A	*10K	29.85	.7	2	.043	3.20	2.00	1.60	1.20	1.00	.92
60 D 9830	81G105	B	*1 meg	51.5	1	25	.1	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9831	81G504	B	*500K	46.5	1	25	.1	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9832	81G154	B	*150K	39.7	1	25	.1	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9833	81G503	B	*50K	35.0	1	25	.1	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9834	4H105	C	1 meg	48.78	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9835	4H504	C	500K	48.78	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9837	1H104	C	100K	29.85	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9838	1H503	C	50K	29.85	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9839	1H203	C	20K	29.85	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9840	2H103	C	10K	19.80	2	8	07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9841	2H502	C	5000	19.80	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9842	2H202	C	2000	19.80	2	8	.07	5.60	3.50	2.80	2.10	1.75	1.61
60 D 9843	4D051	D	200K	48.78	2	4.5	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9844	4D101	D	100K	48.78	4	12	.1	1.60	1.00	.80	.60	.50	.46
60 D 9845	4D103	D	50K	48.78	4	8	.1	1.60	1.00	.80	.60	.50	.46
60 D 9846	4D201	D	30K	48.78	8	34	.2	1.60	1.00	.80	.60	.50	.46
60 D 9847	1D051	D	20K	29.85	2	4.5	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9848	1D053	D	10K	29.85	2	3.5	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9849	1D101	D	10K	29.85	4	12	.1	1.60	1.00	.80	.60	.50	.46
60 D 9850	1D103	D	5K	29.85	4	8	.1	1.60	1.00	.80	.60	.50	.46
60 D 9851	4D503	D	5K	48.78	16.5	90	.5	1.60	1.00	.80	.60	.50	.46
60 D 9852	1D201	D	3K	29.85	8	34	.2	1.60	1.00	.80	.60	.50	.46
60 D 9853	1D301	D	3K	29.85	11.5	85	.3	1.60	1.00	.80	.60	.50	.46
60 D 9854	4D403	D	2.5K	48.78	14	35	.4	1.60	1.00	.80	.60	.50	.46
60 D 9855	2D052	D	2000	19.80	2	4	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9856	1D203	D	1000	29.85	7.5	19	.2	1.60	1.00	.80	.60	.50	.46
60 D 9857	1D303	D	1000	29.85	9	48	.3	1.60	1.00	.80	.60	.50	.46
60 D 9858	1D401	D	1000	29.85	15.5	80	.4	1.60	1.00	.80	.60	.50	.46
60 D 9859	2D054	D	1000	19.80	2	3	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9860	2D102	D	1000	19.80	4	10	.1	1.60	1.00	.80	.60	.50	.46
60 D 9861	4D753	D	1000	48.78	22	80	.75	2.80	1.75	1.50	1.05	.88	.81
60 D 6646	1D501	D	1000	29.85	19	140	.5	1.60	1.00	.80	.60	.50	.46
60 D 9862	1D503	D	500	29.85	16.5	90	.5	1.60	1.00	.80	.60	.50	.46
60 D 9863	2D104	D	500	19.80	4	6	.1	1.60	1.00	.80	.60	.50	.46
60 D 9864	2D202	D	300	19.80	8	24	.2	1.60	1.00	.80	.60	.50	.46
60 D 9865	2D302	D	300	19.80	10.5	75	.3	1.60	1.00	.80	.60	.50	.46
60 D 9866	1D403	D	250	29.85	14	35	.4	1.60	1.00	.80	.60	.50	.46
60 D 9867	1D901	D	250	29.85	37	260	1.0	2.80	1.75	1.50	1.05	.88	.81
60 D 6655	2D404	D	25	29.85	14	25	.4	1.60	1.00	.80	.60	.50	.46
60 D 9868	1D753	D	100	29.85	22	80	.75	2.80	1.75	1.50	1.05	.88	.81
60 D 9869	2D204	D	100	19.80	7.5	16	.2	1.60	1.00	.80	.60	.50	.46
60 D 9870	2D304	D	100	19.80	8.5	38	.3	1.60	1.00	.80	.60	.50	.46
60 D 9871	2D502	D	100	19.80	17.5	120	.5	1.60	1.00	.80	.60	.50	.46
60 D 9872	3D054	D	100	12.95	2	3	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9873	2D504	D	50	19.80	15.5	70	.5	1.60	1.00	.80	.60	.50	.46
60 D 9874	3D202	D	30	12.95	8	28	.2	1.60	1.00	.80	.60	.50	.46
60 D 9875	2D754	D	10	19.80	20	50	.75	2.80	1.75	1.50	1.05	.88	.81
60 D 9876	2D904	D	10	19.80	30	120	1.0	2.80	1.75	1.50	1.05	.88	.81
60 D 9879	3D204	D	10	12.95	7.5	16	.2	1.60	1.00	.80	.60	.50	.46
60 D 9880	3D402	D	10	12.95	15.5	70	.4	1.60	1.00	.80	.60	.50	.46
60 D 9881	3D502	D	10	12.95	17.5	120	.5	1.60	1.00	.80	.60	.50	.46
60 D 9882	3D504	D	5	12.95	15.5	70	.5	1.60	1.00	.80	.60	.50	.46
60 D 9883	3D404	D	2.5	12.95	14	25	.4	1.60	1.00	.80	.60	.50	.46
60 D 9884	3D754	D	1	12.95	20	50	.75	2.80	1.75	1.50	1.05	.88	.81
60 D 9885	4R051	E	1 meg	48.78	3	12	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9886	4R171	E	500K	48.78	18	120	.173	2.20	1.38	1.10	.83	.69	.63
60 D 9887	4R113	E	315K	48.78	7	50	.112	2.20	1.38	1.10	.83	.69	.63
60 D 9888	1R051	E	100K	29.85	3	12	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9889	1R113	E	315K	29.85	7	50	.112	2.20	1.38	1.10	.83	.69	.63
60 D 6665	1R171	E	50K	29.85	18	120	.173	2.20	1.38	1.10	.83	.69	.63
60 D 9890	1R173	E	20K	29.85	13	80	.173	2.20	1.38	1.10	.83	.69	.63
60 D 9891	2R112	E	10K	19.80	8	70	.112	2.20	1.38	1.10	.83	.69	.63
60 D 9892	2R172	E	5000	19.80	15	120	.173	2.20	1.38	1.10	.83	.69	.63
60 D 9893	2R114	E	4300	19.80	6	50	.112	2.20	1.38	1.10	.83	.69	.63
60 D 9894	2R174	E	2000	19.80	11	80	.173	2.20	1.38	1.10	.83	.69	.63
60 D 9895	3R052	E	1000	12.95	3	12	.05	2.80	1.75	1.50	1.05	.88	.81
60 D 9899	9RT1A5	G	100	29.85	Function of Mounting		.75	6.00	3.75	3.00	2.25	1.88	1.73
60 D 9900	9RT1A4	G	31.5	19.80			.75	6.00	3.75	3.00	2.25	1.88	1.73
60 D 9901	9RT1A6	G	10	19.80			.75	6.00	3.75	3.00	2.25	1.88	1.73

F. W. BELL "HALL PAK" EXPERIMENTAL KIT

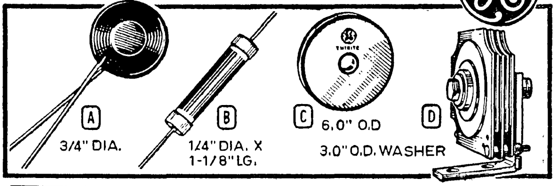


Here is the perfect opportunity for everyone involved in electronic instruction and problem solving to become intimately acquainted with a theory that may well supply the answers to many of today's knottiest problems in magnetic field application. Permits demonstration of the Hall effect—the development of a voltage potential between two edges of a strip of metal in which electric current is flowing longitudinally. An important electromagnetic phenomenon. Complete kit includes all this: Hall-effect device; circuit board for easy hookup and application—contains balancing network and DC transistorized amplifier (voltage gain of 50); magnet to provide stable DC field; instructions with experiments.

60 D 7659..........................21.95

GE Thyrite® Varistors

Thyrite® varistors protect circuits and components from inductive voltage surges by limiting peak discharge voltage to a safe value when AC or DC magnetic or inductive circuit current is suddenly interrupted. All varistors are silicone impregnated for moisture protection. Disks are furnished with black dielectric coating as standard. Maximum continuous body temperature rating is 110°C, maximum short time body temperature is rated at 150°C. AC volts are 90% of DC. Write for prices on quantities of 100 to 999. Letter in type no. indicates: Rod (R), Disk (D) or Washer (W). *½" O.D.; †1⅛" O.D.



Stock No.	Mfr's Type No.	Fig.	DC Oper. Volts	Power Rating Watts	EACH 1-9	10-24	25-49	50-99
60 D 6691	72R-2200	B	3,300	0.4	2.80	1.75	1.50	1.05
60 D 6692	72R-2100	B	1,700	0.25	1.60	1.00	.80	.60
60 D 6693	71R-2100	B	1,100	0.25	1.60	1.00	.80	.60
60 D 6694	69R-2100	B	600	0.25	1.60	1.00	.80	.60
60 D 6695	68R-2100	B	300	0.25	1.60	1.00	.80	.60
60 D 6696	66R-2100	B	150	0.25	1.60	1.00	.80	.60
60 D 6697	70D-5010	A*	150	0.25	1.20	.75	.60	.45
60 D 6698	68D-5010	A*	60	0.25	1.20	.75	.60	.45
60 D 6699	67D-5010	A*	30	0.25	1.20	.75	.60	.45
60 D 6700	65D-5010	A*	15	0.25	1.20	.75	.60	.45
60 D 6701	71D-7000	A	150	0.75	1.80	1.13	.90	.68
60 D 6702	68D-7000	A	60	0.75	1.80	1.13	.90	.68
60 D 6703	66D-7000	A	30	0.75	1.80	1.13	.90	.68
60 D 6704	63D-7000	A	15	0.75	1.80	1.13	.90	.68
60 D 6705	71D-10000	A†	300	1.50	2.00	1.25	1.00	.75
60 D 6706	68D-10000	A†	150	1.50	2.00	1.25	1.00	.75
60 D 6707	66D-10000	A†	60	1.50	2.00	1.25	1.00	.75
60 D 6708	63D-10000	A†	30	1.50	2.00	1.25	1.00	.75
60 D 6797	71W-30100	A	1,500	3.5	7.50	5.65	4.50	3.40
60 D 6798	69W-30100	D	300	3.0	7.50	5.65	4.50	3.40
60 D 6799	68W-30100	D	150	3.0	7.50	5.65	4.50	3.40
60 D 6800	67W-30100	D	60	3.0	5.25	3.95	3.10	2.40
60 D 6801	66W-30100	D	30	3.0	5.25	3.95	3.10	2.40
60 D 6802	63W-30100	D	15	3.0	5.25	3.95	3.10	2.40
60 D 6803	62W-30100	D	7	3.0	5.25	3.95	3.10	2.40
60 D 6804	69W-60100	C	275	10.0	11.90	10.10	8.60	7.45
60 D 6805	68W-60200	C	200	10.0	11.90	10.10	8.60	7.45
60 D 6806	68W-60100	C	150	10.0	11.90	10.10	8.60	7.45

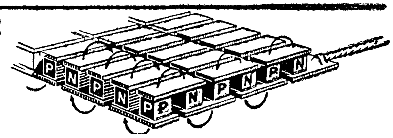
Stock No.	Mfr's Type No.	DC Oper. Volts	Power Rat'g Watts	No. of Disks	EACH 1-9	10-24	25-49	50-99
60 D 6711	9RV3A1	6	3	1	8.70	7.45	6.40	5.65
60 D 6712	9RV3A2	6	6	2	14.80	12.60	10.90	9.60
60 D 6713	9RV3A3	6	12	4	20.30	17.30	14.90	13.15
60 D 6714	9RV3A4	12	3	1	8.70	7.45	6.45	5.65
60 D 6715	9RV3A5	12	6	2	14.80	12.60	10.90	9.60
60 D 6716	9RV3A6	12	12	4	20.30	17.30	14.90	13.15
60 D 6717	9RV3A7	25	6	2	12.45	10.60	9.15	8.05
60 D 6718	9RV3A8	50	3	1	8.70	7.45	6.40	5.65
60 D 6719	9RV3A9	50	6	2	14.80	12.60	10.90	9.60
60 D 6720	9RV3A10	50	12	4	20.30	17.30	14.90	13.15
60 D 6721	9RV3A11	100	6	2	12.45	10.60	9.15	8.05
60 D 6722	9RV3A12	150	3	1	10.40	8.90	7.70	6.75
60 D 6723	9RV3A14	300	3	1	10.40	8.90	7.70	6.75
60 D 6724	9RV3A15	600	6	2	15.30	13.10	11.25	9.90
60 D 6807	9RV3B5	15	6	2	14.80	12.60	10.90	9.60
60 D 6808	9RV3B7	30	6	2	14.80	12.60	10.90	9.60
60 D 6809	9RV3B10	60	12	4	20.30	17.30	14.90	13.15
60 D 6810	9RV3B11	100	6	2	14.80	12.60	10.90	9.60
60 D 6725	9RV6A1	150	10	1	18.95	16.20	13.95	12.25
60 D 6726	9RV6A2	150	20	2	32.00	27.35	23.55	20.75
60 D 6727	9RV6A3	150	30	3	44.70	38.15	32.90	28.95
60 D 6728	9RV6A4	150	40	4	55.50	47.30	40.80	35.90
60 D 6729	9RV6A5	300	20	2	33.20	28.35	24.45	21.50
60 D 6730	9RV6A6	275	10	1	18.95	16.20	13.95	12.25
60 D 6731	9RV6A7	275	20	2	32.00	27.35	23.55	20.75
60 D 6732	9RV6A8	275	30	3	44.70	38.15	32.90	28.95
60 D 6733	9RV6A9	275	40	4	55.50	47.30	40.80	35.90
60 D 6734	9RV6A10	550	20	2	33.20	28.35	24.45	21.50

FRIGISTORS

Frigistor modules are tiny solid-state cooling devices. Direct-current literally pumps heat from one face of module to the other, making one side cold and other hot. Reversing polarity causes cool side to become hot and hot side cool. No moving parts or corrosive fluids. A 12-couple, 30-amp module pumps 100 BTU's per hour (24 watts) from room temperature. Complete thermoelectric set requires a Module Package (FH), Transfer Bar (TB), Heat Sink (HS), Fan Pacage (FP), and Basic Power Supply (BPS). DC power supply operates from 110 volts, 60 cycles AC. Use curves at right to select the module appropriate to your application. **NOTE: Items in table shipped from Burlington, Vermont or Grand Haven, Michigan.**

Stock No.	Type No.	Description	EACH
60 D 9333 F	FH10	10-Couple Module Pkg.	29.90
60 D 9334 F	FH12	12-Couple Module Pkg.	24.80
60 D 9335 F	FH14	14-Couple Module Pkg.	35.10
60 D 9449 F	FH16	16-Couple Module Pkg.	35.50
60 D 9337 F	FH18	18-Couple Module Pkg.	37.80
60 D 9338 F	FH20	20-Couple Module Pkg.	40.50
60 D 9339 F	FH22	22-Couple Module Pkg.	48.50
60 D 9340 F	FH24	24-Couple Module Pkg.	42.60
60 D 9341 F	FH26	26-Couple Module Pkg.	53.50
60 D 9342 F	FH28	28-Couple Module Pkg.	53.30
60 D 9343 F	FH30	30-Couple Module Pkg.	55.70
60 D 9344 F	TB12	Transfer Bar for FH10 and 12	5.70
60 D 9345 F	TB18	Transfer Bar for FH14-18	6.60
60 D 9346 F	TB24	Transfer Bar for FH20-24	7.80
60 D 9347 F	TB30	Transfer Bar for FH26-30	8.60
60 D 9348 F	HS12	Heat Sink for FH10-12	8.50
60 D 9349 F	HS18	Heat Sink for FH10-18	10.00
60 D 9350 F	HS24	Heat Sink for FH10-24	11.50
60 D 9351 F	HS30	Heat Sink for FH10-30	12.50
60 D 9352 F	FP1	Fan and Hardware for All Types	7.70
60 D 9353 F	DK1	Ducting Kit for FH10-18	7.20
60 D 9354 F	DK2	Ducting Kit for FH20-30	13.60
60 D 9355 F	BPS	Basic Power Supply (variable) Up to FH30	93.90
60 D 9356 F	S01	Safety Option, Fan Fail Thermostat	7.00
60 D 9357 F	C01	On/Off, Variable Thermostat	6.90
60 D 9358 F	C02	Variable Hi/Lo Control	34.40
60 D 9359 F	C03	Fully Automatic Proportional Control	88.50
60 D 9360 F	TR1	Efficiency Option. Transistor Rectifier	16.80

FRIGISTOR THERMOELECTRIC MODULES



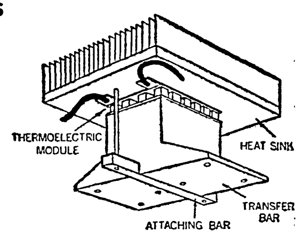
Typical Thermoelectric Frigistor Solid-State Cooling Module

FRIGISTOR DEVELOPMENT SETS

DEMONSTRATION SET. Demonstrates thermoelectricity. Expandible. Includes: FH12, TB12, HS12, FP01, BPS.
60 D 9361 F............125.00

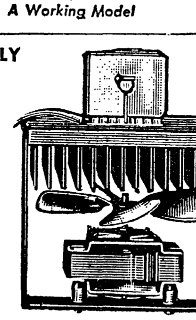
BASIC SET. Larger capacity than above. Includes: FH18, TB18, HS18, FP1, DK1, C01, S01.
60 D 9362 F............150.00

COMPREHENSIVE SET. For setting up development lab. Includes: FH28, FH14, HS12, HS18, HS24, HS30, TB12, TB18, TB24, TB30, FP1(2), DK2, BPS, S01, C02, C03, TR1, C01.
60 D 9363 F............350.00



Complete . . Contain all Necessary Parts to Build A Working Model

NOW FRIGI-PAK® COOLING ASSEMBLY



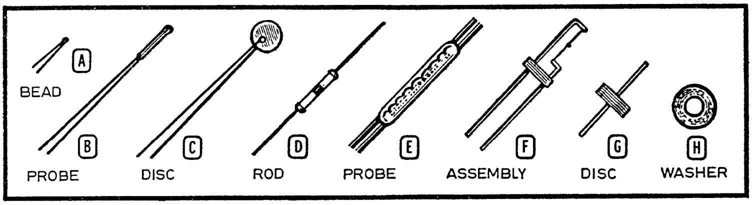
System consists of finned heat sink, 32 couple, 15 amp Frigistor® module, aluminum heat transfer bar, cooling fan and transformer operated, full-wave silicon rectifier power supply. For operation from 115 V., 60 cycle, single phase line. Assembly hardware supplied, less control circuits. Pumping capacity 35 BTU/hour at ambient temp. of 80°F; cold bar maintains 25°F or lower under these conditions. Thermoelectrics, 4x5¼x5½". Power supply, 5¼"x3"x3". 8 lbs.
60 D 6736............1-9, Each 60.00
10-24, Each 53.00.....25-99, Each 42.00

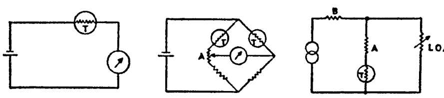
THERMOELECTRIC COOLING MODULE

Has 32 couples, sintered/bonded construction. Each face electrically insulated with patented Delacoat® dielectric. Cooling capacity: at 29.8 watts, 101.6 BTU/hour; at 25.6 watts, 87.4 BTU/hour. 3 oz.
60 D 6635......................................**24.96**

Fenwal Electronics Thermistors

Fenwal Thermistors are "thermal resistors" or resistors with a high negative coefficient of resistance. As temperature increases, resistance goes down. Thermistors listed on this page are available in 5 standard forms: beads coated with glass; probes sealed in glass rods; discs; washers; and rods. Use glass-coated beads where smallness, fast response, high precision, and operation at temperatures up to 600°F are required. Medium-small glass probes are similar to beads, but are more rugged, mount more easily and are useful in liquid media. *Iso-Curve interchangeable glass probe Type GB34P92 is curve-matched to ±2% of resistance over a temperature range of 0 to 350°F. Discs are useful for medium power and time response applications. Rods and washers are used where high power dissipation is required. Discs and rods operate at temperatures to 125°C; washers to 150°C. See "Engineering Package" offer below.





TEMPERATURE MEASUREMENT | GAS ANALYZER | VOLTAGE CONTROL

Thermistors are used in a wide variety of applications, including Temperature Measurement with simple battery and micro-ammeter circuit; Voltage Control with a series resistor; Gas Analysis and other physical measurements when used in a bridge circuit.

Stock No.	Mfr's Type	Fig.	Ohms @ 25°C	Tol. ±%	Resis. Ratio 0°C: 50°C	Diss. Const. mw °C	Time Const. (secs)	Dia. In.	EACH 1-9	EACH 10-24	EACH 25-99
60 D 8621	GD25J1	A	500	20	5.1:1	.7	2	.043	3.24	2.60	2.11
60 D 8622	GB31J1	A	1000	20	7.3:1	.7	2	.043	2.70	2.16	1.76
60 D 9911	GB32J2	A	2000	20	7.3:1	.7	2	.043	2.30	1.84	1.50
60 D 8623	GB35J1	A	5000	20	7.3:1	.7	2	.043	3.24	2.60	2.11
60 D 8624	GB41J1	A	10K	20	7.5:1	.7	2	.043	3.24	2.60	2.11
60 D 8625	GA45J1	A	50K	20	9.1:1	.7	2	.043	2.67	2.14	1.74
60 D 9909	GA51J1	A	100K	15	10.3:1	.7	2	.043	2.70	2.16	1.76
60 D 7113	GA52J2	A	200K	20	10.9:1	.7	2	.043	2.70	2.16	1.76
60 D 8626	GA55J1	A	500K	20	11.8:1	.7	2	.043	3.24	2.60	2.11
60 D 7114	GA61J1	A	1000K	20	14.0:1	.7	2	.043	3.78	3.03	2.46
60 D 8627	GB31P2	B	1000	20	7.3:1	1	25	.1	2.00	1.60	1.30
60 D 8628	GB32P2	B	2000	20	7.3:1	1	25	.1	2.00	1.60	1.30
60 D 9912	GB32P8	B	2000	20	7.3:1	1	25	.1	2.75	2.20	1.79
60 D 8629	GB34P2	B	4000	20	7.3:1	1	25	.1	2.00	1.60	1.30
60 D 7115	GB34P92	E*	4000	2	7.04:1	1.9	25	.180	40.00	32.00	26.00
60 D 8630	GB41P2	B	10K	20	7.5:1	1	25	.1	2.40	1.92	1.56
60 D 8631	GB42P2	B	20K	20	7.5:1	1	25	.1	2.40	1.92	1.56
60 D 7116	GA45P2	B	50K	20	9.1:1	1	25	.1	2.20	1.76	1.43
60 D 9910	GA51P2	B	100K	15	10.3:1	1	25	.1	2.00	1.60	1.30
60 D 9967	GA51P8	B	100K	15	10.3:1	1	25	.1	2.35	1.88	1.53
60 D 8632	GA52P2	B	200K	20	10.9:1	1	25	.1	2.00	1.60	1.30
60 D 8633	GA55P2	B	500K	20	11.8:1	1	25	.1	2.40	1.92	1.56
60 D 8634	GA61P2	B	1000K	20	14.0:1	1	25	.1	2.80	2.24	1.82
60 D 8635	JB25J1	C	500	10	6.9:1	3	10	.1	1.00	.80	.65
60 D 8636	JB31J1	C	1000	10	6.9:1	4	10	.1	1.00	.80	.65
60 D 8637	JA33J1	C	3000	10	9.1:1	3	10	.1	1.00	.80	.65
60 D 9975	JA35J1	C	5000	10	9.1:1	4	10	.1	1.00	.80	.65
60 D 7118	JA38J1	C	8000	10	9.1:1	4	10	.1	1.00	.80	.65
60 D 8638	JA41J1	C	10K	10	9.1:1	4	10	.1	1.00	.80	.65
60 D 8639	KB21J1	C	100	10	6.9:1	4	16	.2	.85	.68	.56
60 D 8640	KB22J1	C	200	10	6.9:1	5	18	.2	.85	.68	.56
60 D 8641	KB23J1	C	300	10	6.9:1	6	20	.2	.85	.68	.56
60 D 8642	KB25J1	C	500	10	6.9:1	6	25	.2	.85	.68	.56
60 D 9914	KA31L1	G	1000	10	9.1:1	6	20	.2	.85	.68	.56
60 D 7119	KA33J1	C	3000	10	9.1:1	6	22	.2	.85	.68	.56
60 D 8643	KA35J3	C	5000	10	9.1:1	7	35	.2	.85	.68	.56
60 D 8644	LB12J2	C	18.6	10	6.9:1	6	26	.4	.97	.78	.64
60 D 7120	LB15J1	C	50	10	6.9:1	7	40	.4	.85	.68	.56
60 D 9915	LB21J1	C	100	10	6.9:1	8	65	.4	.85	.68	.56
60 D 8645	LB22L1	G	200	10	6.9:1	11	110	.4	.85	.68	.56
60 D 8646	LA25L2	G	500	10	9.1:1	8	60	.4	.85	.68	.56
60 D 8647	LA31J1	C	1000	10	9.1:1	10	70	.4	.85	.68	.56
60 D 8648	MB13J1	C	25	10	6.9:1	25	85	.6	.85	.68	.56
60 D 8650	NB11J1	C	10	10	6.9:1	20	90	.77	.85	.68	.56
60 D 8652	NA22J1	C	250	10	9.1:1	30	140	.77	.85	.68	.56
60 D 8653	QB41J1	D	10K	10	7.1:1	2.5	20	.053	1.25	1.00	.82
60 D 9916	QA51J1	D	100K	10	9.1:1	2.5	20	.053	1.25	1.00	.82
60 D 9918	RB41L1	D	10K	10	7.1:1	6	90	.11	1.20	.96	.78
60 D 9878	RA43L1	D	31.5K	10	9.1:1	4	70	.11	1.20	.96	.78
60 D 9925	WB11W1	H	10	10	6.9:1	860	12	.77	1.25	1.00	.82
60 D 8686	WA23W1	H	315	10	9.1:1	350	18	.77	1.25	1.00	.82

THERMISTOR PROBE CAN PERFORM THREE FUNCTIONS

- Use As Remote Temperature Indicator, Liquid Level Control, Delay Circuit
- With Instructions and Schematics

Thermistor mounted on card, with instructions and schematic for uses as a remote temperature indicator, liquid level control or time delay relay. Rated 135K at 25° C. 1 mw/°C dissipation constant. 25 seconds still-air time constant. 0.3 seconds in rapidly stirred water. The resistance of a thermistor is related to its temperature—as temperature goes up, resistance goes down. As a remote temperature indicator, temperature changes cause resistance and resultant current changes which can be read on a remote thermometer. As a liquid level control the thermistor drops out a relay at the desired level. Shpg. wt., 2 oz.
60 D 6615........................1.00

F THERMISTOR ASSEMBLIES

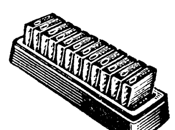
Hermetically-sealed, bead-mounted assemblies for use in gas analysis and chromatography. Lead length, 1¼"; O.D., .380". Time Constant, 1.0. Type G126 consists of two type GC32L3 thermistors, matched to 5% Ro at 25°C; Type G112 consists of two GB38L1 thermistors, matched to 2% Ro; Type G128 consists of two GA51LA thermistors, matched to 5% Ro. Dissipation Constant: 0.1 mw/°C. Ro at 25°C; Type G126, 2000 ohms; G112, 8000 ohms; G128, 100K ohms. Tolerance: G126, ±25%; G112, ±20%; G128, ±15%. Ratio, 0°C: 50°C; G126, 5.7:1; G112, 7.3:1; G128, 10.3:1 (not illus.).

Stock No.	Mfr's Type	Description	EACH 1-9	EACH 10-Up
60 D 7122	G126	2-GC32L3	14.42	11.54
60 D 9961	G112	2-GC38L1	26.00	20.80
60 D 9962	G128	2-GA51LA	33.00	26.40

THERMISTOR ENGINEERING PACKAGE

Includes a resistance-temperature card and thermistor manual giving specifications of all thermistors. Handy guide for determining the right thermistor or assembly for any industrial application. (Not illus.)
60 D 9877. No charge when requested with your next order.

EXPERIMENTER'S THERMISTOR KITS



Model G-200 Standard Kit. Contains 12 different thermistors (2 glass probes, 3 beads, 2 discs, 3 rods, 2 washers). Each thermistor is packed with specification sheets showing complete operating characteristics—resistance-temperature curves; actual resistance at Specific temperatures; ratio of resistance at 0°C and 50°C; dissipation and time constants; current, voltage and temperature parameters.
60 D 9926........................19.95

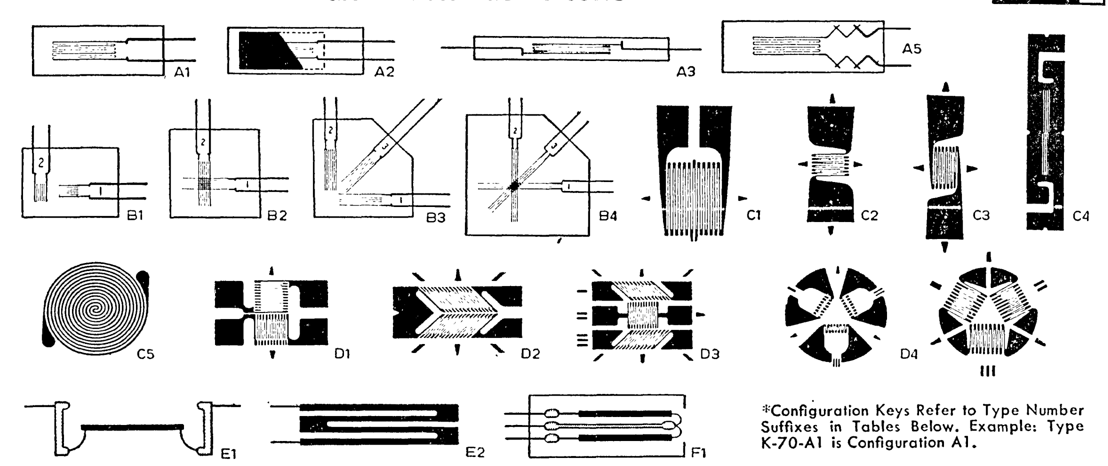
Model G-700 Economy Kit. (Not illustrated.) Includes 4 glass beads and probes for a variety of basic applications. Complete with manual and thermistor data-and-curve computer.
60 D 8658........................4.95

Model G-701 Economy Kit. (Not illustrated.) Includes 10 glass beads and probes in a wider range of resistance values than Model G-700 above. Complete with manual and thermistor data-and-curve computer.
60 D 8659........................9.95

ALLIED ELECTRONICS' TREMENDOUS STOCKS assure fast delivery of industrial quantities at OEM factory prices. Write or call for full information on larger quantities than those listed, and for information on any unlisted items.

Gulton Industries Strain Gages

GAGE CONFIGURATIONS



*Configuration Keys Refer to Type Number Suffixes in Tables Below. Example: Type K-70-A1 is Configuration A1.

Wire, foil and semiconductor type Strain Gages in a variety of backing materials. Resistance, 120 ohms except *60 ohms; †350 ohms. ‡Dual element type, self temperature compensated. Suffix in Mfr's Type indicates configuration (above). In std. pkg. units.

Paper-Based Wire. 4 to 6 hour curing time with BC-11 adhesive; 3 to 5 min. with Eastman 910 (Catalyst A). Temp. range, —40 to +70°C.

Stock No.	*Mfr's Type	Gage Fact.	Lgth. Mm	Ga./Pkg.	PER PACKAGE 1-10	11-24	25-49	50-99
60 D 6300	K-70-A1	2.1	67	10	27.00	24.30	22.95	21.60
60 D 6301	K-70-A2	2.1	67	10	27.00	24.30	22.95	21.60
60 D 6302	K-30-60A1*	2.1#	31	10	27.00	24.30	22.95	21.60
60 D 6303	K-20-A1	2.1	20	10	14.50	13.05	12.33	11.60
60 D 6304	K-20-A2	2.1	20	10	14.50	13.05	12.33	11.60
60 D 6305	K-16-A3	2.1	17	10	22.00	19.80	18.70	17.60
60 D 6306	K-10-A1	2.0	10	10	16.00	14.40	13.60	12.80
60 D 6307	K-10-A2	2.0	10	10	16.00	14.40	13.60	12.80
60 D 6308	K-6-A1	2.0	6	10	19.50	17.55	16.58	15.60
60 D 6309	K-3-A1	1.9	3	10	24.00	21.60	20.40	19.20
60 D 6310	K-20-B4	2.1	20	5	27.00	27.00	24.30	22.95
60 D 6311	K-10-B2	2.0	10	5	22.50	22.50	20.25	19.13
60 D 6312	K-10-B3	2.0	10	5	38.50	38.50	34.65	32.73
60 D 6313	K-6-B2	2.0	6	5	38.00	38.00	34.20	32.30
60 D 6314	K-6-B3	2.0	6	5	45.00	45.00	40.50	38.25
60 D 6315	K-3-B1	1.9	3	5	34.00	34.00	30.60	28.90
60 D 6316	K-3-B3	1.9	3	5	50.00	50.00	45.00	42.50

Paper-Based Wire for High Elongation. Sets in 24 hours with EC-10 adhesive; temperature range, —50°C to +60°C.

60 D 6343	KL-20-A5	2.0	6	10	32.00	28.80	27.20	25.60
60 D 6344	KL-10-A5	2.0	10	10	40.00	36.00	34.00	32.00
60 D 6345	KL-6-A5	2.0	6	10	40.00	36.00	34.00	32.00

Paper-Based Wire Non-Magnetoresistive. Sets in 4 hours with BC-11 adhesive, —50 to +70°C; 3 to 5 min. with Eastman 910 (Cat. A).

60 D 6346	KN-6-A1	2.1	6	10	45.00	40.50	38.25	36.00
60 D 6347	KN-3-A1	2.1	3	10	55.00	49.50	46.75	44.00
60 D 6348	KN-3-B1	2.1	3	5	95.00	95.00	85.50	80.75
60 D 6349	KN-3-B3	2.1	3	5	115.00	115.00	130.50	97.75

Polyester-Based Wire. Uses PC-12 adhesive, —10 to +170°C; sets in 4 hours with CC-15 adhesive, —10 to +100°C. § No backing.

60 D 6317	KP-70-A1	2.1	67	10	35.00	31.50	29.75	28.00
60 D 6318	KP-20-A1	2.1	20	10	27.00	24.30	22.95	21.60
60 D 6319	KP-10-A1	2.0	10	10	27.00	24.30	22.95	21.60
60 D 6320	KP-6-A1	2.0	6	10	30.00	27.00	25.50	24.00
60 D 6321	KP-3-A1	1.9	3	10	37.50	33.75	31.88	30.00
60 D 6322	KP-20-B2	2.1	20	5	34.00	34.00	30.60	28.90
60 D 6323	KP-20-B3	2.1	20	5	40.00	40.00	36.00	34.00
60 D 6324	KP-10-B2	2.0	10	5	37.50	37.50	33.75	31.88
60 D 6325	KP-10-B3	2.0	10	5	33.50	33.50	30.15	28.48
60 D 6326	KP-6-B2	2.0	6	5	38.00	38.00	34.21	32.30
60 D 6327	KP-6-B3	2.0	6	5	49.00	49.00	44.10	41.65
60 D 6328	KP-3-B2	1.9	3	5	45.00	45.00	40.50	38.25
60 D 6329	KP-3-B3	1.9	3	5	56.00	56.00	50.40	47.60

Bakelite-Based Wire. Sets in 3½ hours with PC-6 adhesive, —20 to +200°C; 4 hours with CC-15, —10°C to +100°C.

Stock No.	Mfr's Type	Gage Fact.	Lth. Mm	Ga./Pkg.	PER PACKAGE 1-10	11-24	25-49	50-99
60 D6330	KB-20-A1	2.1	20	10	30.00	27.00	25.50	24.00
60 D6331	KB-10-A1	2.0	10	10	34.00	30.60	28.90	27.20
60 D6332	KB-6-A1	2.0	6	10	34.00	30.60	28.90	27.20
60 D6333	KB-6-350A1*	2.1	6	10	39.50	35.55	33.58	31.60
60 D6334	KB-3-A1	1.9	3	10	75.00	67.50	63.75	60.00
60 D6335	KB-1.5-A1	1.9	1.5	10	99.00	89.10	84.15	72.20
60 D6336	KB-1-A1	1.8	1	10	99.00	89.10	84.15	72.20
60 D6337	KB-10-B2	2.0	10	5	42.00	42.00	37.80	35.70
60 D6338	KB-10-B3	2.0	10	5	50.00	50.00	45.00	42.50
60 D6339	KB-6-B2	2.0	6	5	50.00	50.00	45.00	42.50
60 D6340	KB-6-B3	2.0	6	5	45.00	45.00	40.00	38.25
60 D6341	KB-3-B2	1.9	3	5	60.00	60.00	54.00	51.00
60 D6342	KB-3-B3	1.9	3	5	85.00	85.00	76.50	72.25

Epoxy-Based Foil. Cures in 24 hours, 2-component room temperature setting adhesive EP-18; —50°C to +80°C range.

60 D6354	KF-10-C4	2.1	10	10	32.00	28.80	27.20	....
60 D6355	KF-5-C1	2.1	5	10	20.00	18.00	17.00	....
60 D6356	KF-2-C2	2.0	2	10	26.50	23.85	22.53	....
60 D6357	KF-2-C3	2.0	2	10	26.50	23.85	22.53	....
60 D6358	KF-1-C2	2.0	1	10	31.00	27.90	26.35	....
60 D6359	KF-1-C3	2.0	1	10	31.00	27.90	26.35	....
60 D6360	KF-25-C5	......	25	2	18.00	16.20	15.30	....
60 D6361	KF-15-C5	......	15	2	14.00	12.60	11.90	....
60 D6362	KF-2-D1	2.0	2	5	27.00	24.30	22.95	....
60 D6363	KF-2-D2	2.0	2	5	27.00	24.30	22.95	....
60 D6364	KF-2-D3	2.0	2	5	35.00	31.50	29.75	....
60 D6365	KF-2-D4	2.0	2	5	35.00	31.50	29.75	....
60 D6366	KF-1-D4	2.0	2	5	40.00	36.00	34.00	....

Bakelite-Based Wire Non-Magnetoresistive. Cures in 4 hours with BC-11, —50°C to +70°C; 3-5 min. with Eastman 910, —40 to +70°C.

60 D6350	KBN-6-A1	2.1	6	10	55.00	49.50	46.75	44.00
60 D6351	KBN-3-A1	2.1	3	10	60.00	54.00	51.00	48.00
60 D6352	KBN-3-B2	2.1	3	5	99.00	89.10	84.15	79.20
60 D6353	KBN-3-B3	2.1	3	5	125.00	112.50	106.25	100.00

Semiconductor Type. Cures in 24 hours with EP-18, —50°C to +80°C. 4 hours with EP-17, —50°C to +80°C. §No backing.

60 D6367	KGN-7-E1	—130	7	4	55.00	49.50	46.75	....
60 D6368	KSN-7-E1	—110	7	4	70.00	63.00	59.50	....
60 D6369	KSP-7-E1	+110	7	4	75.00	67.50	65.75	....
60 D6370	KGN-7-E2	—160§	7	4	70.00	63.00	59.50	....
60 D6372	KGN-3.5-E2	—160§	3.5	4	65.00	58.50	55.25	....
60 D6373	KGN-3.5-E1	—130	3.5	4	60.00	54.00	51.00	....
60 D6374	KSN-3.5-E1	—110	3.5	4	65.00	58.50	55.25	....
60 D6375	KSP-3.5-E1	+120	3.5	4	70.00	63.00	59.50	....
60 D6371	KGP-7-F1-11	+200‡	7	2	70.00	63.00	59.50	....

MOISTURE-PROOFING

Type C-1A is petroleum wax for summer; C-1B, same for winter. C-2 is micro-crystalline wax. C-3, 2-component epoxy resin, room temp.

Stock No.	Mfr's Type	Size Grams	EACH
60 D 6390	C-1A	500	8.50
60 D 6391	C-1B	500	8.50
60 D 6392	C-2	500	8.50
60 D 6393	C-3	100	8.50

BONDING ADHESIVES

Room-temp. setting except *thermo-setting. †2-component. BC-11, nitrocellulose; EP-17, epoxy; PC-6, phenolic; CC-15, cyano-acrylate.

Stock No.	Type	Grams	EA.	Stock No.	Type	Grams	EA.
60 D 6379	BC-11	20	1.25	60 D 6385	CC-15	2	8.50
60 D 6380	PC-6	100†	5.00	60 D 6386	CC-15	10	30.00
60 D 6381	MC-8	30†	5.00	60 D 6387	CC-15	20	35.00
60 D 6382	EC-10	20	2.50	60 D 6388	EP-17	30†*	9.50
60 D 6383	PC-12	30†	2.50	60 D 6389	EP-18	30†	5.50
60 D 6384	PC-12	100†	6.00	....	......	......	.....

TERMINALS FOR STRAIN GAGES

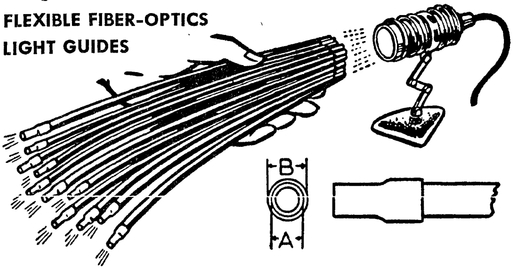
Type TP-1 is polystyrene (specify white, red or blue). Type TF-2 is epoxy-backed foil for use on curved surfaces. Type TF-3 is epoxy-backed foil for 3-lead-wire circuitry.

Stock No.	Mfr's Type	Terminals per Package	PER PKG.
60 D 6376	TP-1	20	8.90
60 D 6377	TF-2	20 5-pc. sheets	10.00
60 D 6378	TF-3	20 5-pc. sheets	10.00

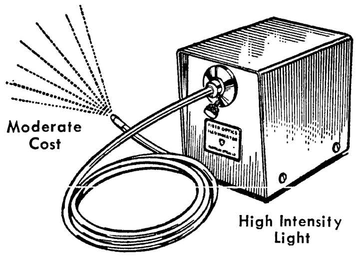
Optical Fibers, Solid-State Controller

AMERICAN OPTICAL FIBER OPTICS

FLEXIBLE FIBER-OPTICS LIGHT GUIDES



FIBER OPTIC ILLUMINATORS



Specially designed for use with all of the AO Fiber Light Guides. Provide a convenient, inexpensive and constant source of intense illumination for a wide variety of fiber optic applications. Adapters available (see below) for coupling any standard AO Light Guide to either of these illuminators.

Flexible Light Guides provide a means for transmitting light over a flexible path. Applications include: remote illumination, data processing, error sensing, scanning systems, fire detection, control systems and automatic programming. Consist of bundles of optical fibers cemented and polished at each end in a closely packed array; free to flex in between. Guides fitted with stainless steel end tips and encased in a PVC sheath. Transmit light through visible and near infrared spectrum to a wave-length about 1.5 microns. 2 oz.

Stock No.	Mfr's Type	Min. Rad. of Bend	Bundle Dia.	A ±.003	B ±.004	Lgth.	EACH
60 D 8989	LGM-1	3/8"	.020"	.032"	.1"	12"	4.80
60 D 9780	LGM-1	3/8"	.020"	.032"	.1"	24"	6.40
60 D 8990	LGM-2	5/8"	.062"	.109"	13/64"	12"	13.00
60 D 9781	LGM-2	5/8"	.062"	.109"	13/64"	24"	14.00
60 D 8991	LGM-2	5/8"	.062"	.109"	13/64"	36"	15.00
60 D 9782	LGM-2	5/8"	.062"	.109"	13/64"	48"	16.00
60 D 9783	LGM-2	5/8"	.062"	.109"	13/64"	60"	17.00
60 D 8992	LGM-2	5/8"	.125"	.169"	13/64"	72"	18.00
60 D 8993	LGM-3	3/4"	.125"	.169"	9/32"	12"	15.00
60 D 9784	LGM-3	3/4"	.125"	.169"	9/32"	24"	18.00
60 D 8994	LGM-3	3/4"	.125"	.169"	9/32"	36"	21.00
60 D 9785	LGM-3	3/4"	.125"	.169"	9/32"	48"	24.00
60 D 9786	LGM-3	3/4"	.125"	.169"	9/32"	60"	27.00
60 D 9787	LGM-3	3/4"	.125"	.169"	9/32"	72"	30.00
60 D 8995	LGM-5	1½"	.250"	.316"	13/32"	12"	21.00
60 D 9772	LGM-5	1½"	.250"	.316"	13/32"	24"	29.50
60 D 8996	LGM-5	1½"	.250"	.316"	13/32"	36"	39.00
60 D 9773	LGM-5	1½"	.250"	.316"	13/32"	48"	46.50
60 D 9774	LGM-5	1½"	.250"	.316"	13/32"	60"	55.00
60 D 9775	LGM-5	1½"	.250"	.316"	13/32"	72"	63.50

Light Transmitting Clad Rod. Consists of a glass core with refraction index of 1.62 and glass cladding having an index of 1.52. Can be bent in Bunsen flame. Should not be bent to radius of under 2.5".
60 D 7225. Type CR-1-6. ⅛" dia. x 12". Wt., 2 oz. 2.30
60 D 7226. Type CR-1-12. ⅛" dia. x 12". Wt., 2 oz. 3.25

Model K-100. For use with Type LGM-1 and Type LGM-2 light guides, listed in column at left. Utilizes 6.8-volt filament lamp and special condensing system to provide an intense cone of illumination covering a dispersion angle of 60°. Supplied complete with built-in on-off switch. Size, 5½x4x4½". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.
60 D 9270 . . . . **69.50**
60 D 9747. Type 1615 Replacement Lamp. For K-100 . . . . **2.10**

Model K-150. Intense illumination for all light guides up to ⅜" in diameter. Light source is 150 watt reflector projection lamp. Light output continuously variable by means of solid-state controller. Efficient fan provides cool operation. Rated lamp life at full voltage 15 hours. For 110-120 v., 60 cycle AC. Shpg. wt., 3½ lbs.
60 D 9271 . . . . **79.75**
60 D 9748. Type DCL Replacement Lamp. For K-150 . . . . **3.50**

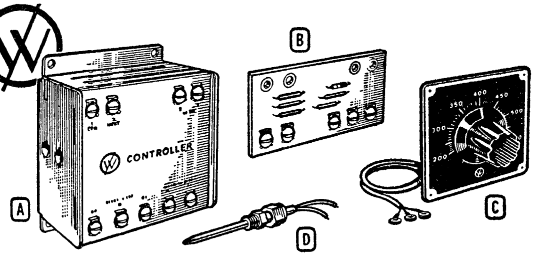
Light Guide Adapters. ½" O.D. aluminum adapters for centering and positioning LGM series Fiber Optic Light Guides in the K-100 and K-150 illuminators listed above. Wt., 2 oz.

Stock No.	Mfr's Type	For Type	Size	EACH
60 D 9776	LGM-1A	LGM-1	.033" ID, ½" Long	1.60
60 D 9777	LGM-2A	LGM-2	.112" ID, ½" Long	1.35
60 D 9778	LGM-3A	LGM-3	.172" ID, ½" Long	1.35
60 D 9779	LGM-5A	LGM-5	.320" ID, ½" Long	1.35

Fused Fiber Image Conduit. Fiber bundle rod is capable of transmitting images from one end to the other. These rods can be heated and bent into complex shapes. Carbon rods or blocks may be used as forms to bend to desired configuration. Conduit supplied with polished ends. *Resolution in total lines per millimeter. Wt., 3 oz.

Stock No.	Mfr's Type	Cross Section	Lgth.	No. of Fibers	Fiber Dia.	Res.*	EACH
60 D 7205	IC-1-6	⅛" hex	6"	73,000	.0005"	80	7.00
60 D 7206	IC-1-12	⅛" hex	12"	73,000	.0005"	80	12.50
60 D 6628	IC-100-6	⅛" Rnd	6"	70,000	.0005"	80	5.50
60 D 6629	IC-100-12	⅛" Rnd	12"	70,000	.0005"	80	9.50

WAYNCO SOLID STATE CONTROLLER AND ACCESSORIES



Versatile and reliable Solid-State Control Modules can be used for controlling any process variable that can be measured by resistance. Ideal for prototype and laboratory instruments. Applications include: ovens, heat sealing, plastic processing, medical and biological apparatus, liquid level control, heat treating, cryogenics, etc. Uses thermistors, wire-wound sensors, photocells, relative humidity sensors, strain gauges, etc. for measurement.

Compensated for changes in ambient temperature from 0 to 125°F and line voltages from 105 to 125 volts. "Fail-safe" operation when used with wirewound sensors. Controller has 1 mv switching differential. May be used with bridge board and 500 ohm remote set pot, as shown in Fig. A, or with ten-turn pots, digital dials, etc. Temperature ranges available from —435°F to +1800°F. Sensitivity to .01°F. Model 15-00-01 has a 50 VA, SPST sealed reed switch output for operating mercury contactors and SCR switches.

Model 15-00-02 has 5 amp, SPDT output. Model 15-00-03 has proportional DC output for SCR power modules; proportional band and reset adjust pots. Instructions supplied give complete information for setting up desired functions and ranges for any application. For operation from 115 v. AC line.

[A] SOLID STATE CONTROLLERS Shpg. wt., 1½ lbs.

Stock No.	Mfr's Type	Output	EACH 1-9	EACH 10-25
60 D 6811	15-00-01	50 VA, SPST	29.75	24.50
60 D 6812	15-00-02	5 Amps, SPDT	29.75	24.50
60 D 6813	15-00-03	DC Proportional	39.00	32.15

[B] ACCESSORY BRIDGE BOARDS Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Range	EACH 1-9	EACH 10-25
60 D 6814	218-000	Blank (With hardware)	3.65	3.10
60 D 6815	218-020	-20° to +60°C (300 ohm thermistor)	3.65	3.10
60 D 6816	218-045	200° to 600°F (100K thermistor)	3.65	3.10
60 D 6817	218-055	0 to 60°C (100 ohm platinum)	3.65	3.10
60 D 6818	218-067	0 to 1000°F (100 ohm platinum)	3.65	3.10

[C] ACCESSORY SET-POT AND DIAL ASSEMBLY Wt., 6 oz.

60 D 6819	212-000	0-10 Graduations	5.50	4.55
60 D 6820	212-020	-20° to +60°C (300 ohm thermistor)	5.50	4.55
60 D 6821	212-045	200° to 600°F (100K thermistor)	5.50	4.55
60 D 6822	212-055	0 to 60°C (100 ohm platinum)	5.50	4.55
60 D 6823	212-067	0 to 1000°F (100 ohm platinum)	5.50	4.55

[D] ACCESSORY SENSOR PROBES Shpg. wt., 5 oz.

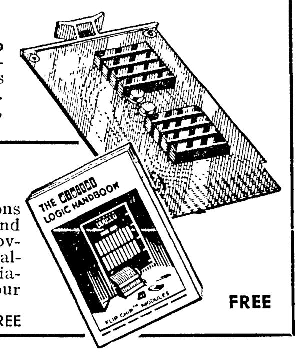
Stock No.	Base Ohms	Element Type	Lgth.	Dia.	Leads	EACH 1-9	EACH 10-25
60 D 6824	100	Platinum	2"	3/16"	2 ft.	29.50	24.30
60 D 6825	100	Platinum	6"	3/16"	2 ft.	29.50	24.30
60 D 6826	300	Thermistor	2"	3/16"	2 ft.	16.80	13.85
60 D 6827	300	Thermistor	6"	3/16"	2 ft.	16.80	13.85
60 D 6828	100K	Thermistor	2"	3/16"	2 ft.	16.80	13.85
60 D 6829	100K	Thermistor	6"	3/16"	2 ft.	16.80	13.85

FLIP CHIP™ Circuit Modules

DIGITAL EQUIPMENT CORPORATION

LOGIC ELEMENTS FOR DESIGNING, COMPUTING SYSTEMS

A new kind of digital system module, FLIP CHIP consists of encapsulated, printed, integrated circuits mounted on a 5½x2½″ printed circuit board. Modules are conventionally mounted in cabinet-width panels with wire-wrap backboards for quick, convenient connections. R-Series modules perform all standard logic functions from DC to 2 mc. Logic circuits in the R-Series are DTL; permit pulse or level triggering. W-Series enables connection of R-Series to other digital devices. All are mechanically and electrically compatible, with simple loading rules and wiring.



352-PAGE FLIP CHIP APPLICATIONS AND SPECIFICATIONS MANUAL AND CATALOG

Contains Complete Information On How To Select and Use FLIP CHIP Modules

Catalog C-105. Brings the advantages of digital techniques to both the beginner and the accomplished designer. Contains not only module specifications, and simple loading and wiring rules, but also complete explanations of how to select and use FLIP-CHIP modules in numerous applications. Introductory chapters describe basic digital circuits, including gates, flip-flops, delays, pulse amplifiers, and clocks. Typical applications include counters, registers, comparators, and synchronizationers. Special interest sections cover such subjects as analog-digital and digital-analog conversion techniques, symbols, abbreviations, and definitions. 352 pages. Ask for your free copy of this book on your next order.
60 D 6625............................FREE

FREE

R-SERIES FLIP CHIP MODULES (Av. shpg. wt., 12 oz.)

60 D 9903. **Type R002 Diode Network.** Five 2-input diode networks for add'l inputs to R107, R111 nodes, flip-flop outputs.......5.70

60 D 9904. **Type R107 Inverter.** 7 one-input diode-transistor gates, one with node input for expansion. All clamped load........27.20

60 D 9905. **Type R111 Diode Gate.** 3—2-input diode gates each with expansion. 3—2 ma clamped loads..................14.00

60 D 9906. **Type R141 And/Nor Gate.** 7—2-input AND's NORed together for neg. assertion; ORs NANDed together for ground assertion . . . No clamped load..........................14.60

60 D 9907. **Type R151 Binary-to-Octal Decoder.** With enable..36.50

60 D 9908. **Type R200 Flip-Flop.** Two transistor. Set or cleared from its own inputs or direct inputs to 2 mc.....................9.50

60 D 9920. **Type R201 Flip-Flop.** JK, RST, with direct inputs and 5 diode-capacitor-diode gates. For adders, up-down counters, other complex operations. Can be set or cleared from its outputs..22.00

60 D 9921. **Type R202 Flip-Flop.** Two JK, RST flip-flops with direct clear, shared direct set, two DCD gates each..............26.20

60 D 9922. **Type R203 Flip-Flop.** Three buffer register flip-flops each with direct clear input and DCD gate set input...........31.50

60 D 9923. **Type R204 Flip-Flop.** Four flip-flops as R200. Each has direct set input and shares direct clear with another........32.70

60 D 9924. **Type R205 Flip-Flops.** Two JK, RST flip-flops with shared direct clear, three DCD gates each.......................31.50

60 D 9927. **Type R302 Delay.** Two independent one-shot multivibrators triggered by DCD gates. Internal or external control.47.20

60 D 9928. **Type R401 Clock.** Gateable free-running multivibrator, 340 cps to 2 mc. Add capacitor for lower rates.............53.00

60 D 9930. **Type R602 Pulse Amplifier.** Two standardizing 100 nsec pulsers, each with two DCD gates. One convertible to 400 nsec. Up to 2 mc operation (1 mc at 400 nsec)....................25.00

60 D 9931. **Type R603 Pulse Amplifier.** Three 100 nsec pulses, each with DCD gate input and direct input. 2 mc, 70 ma output.31.00

60 D 9932. **Type R650 Bus Driver.** Two inverting drivers. Each has two 2-input diode gates, expansion node. Direct, 90 Ω outputs.23.60

W-SERIES FLIP CHIP MODULES (Av. shpg. wt., 12 oz.)

60 D 9934. **Type W005 Clamped Load.** Fifteen clamped load resistors for 5 ma loads....................................17.20

60 D 9935. **Type W040 Solenoid Driver.** Two 600 ma drivers for loads to 70 volts negative. Diode, node inputs.............36.00

60 D 9936. **Type W050 Indicator Driver.** Seven 30 ma drivers for miniature incandescent indicators.........................17.10

60 D 6767. **Type W061 Relay Driver.** Four 250 ma drivers for projection and NIXIE readouts, relays, small solenoids to +55v...44.00

60 D 6768. **Type W080 AC-DC Switch.** Two 250 ma isolated switches for 115 VAC line, or 110 VDC switching. Drive from W061. May be used between gate and anode 2 of 10 amp Triac...........60.00

60 D 6769. **Type W500 Emitter Follower.** Seven high input impedance buffers for inputs to W501 from photocells, tubes, etc.......42.00

60 D 9937. **Type W501 Schmitt Trigger.** For standardizing noisy or slowly varying signals. Includes integrator to filter contact bounce. Thresholds of-0.8 v. and-2.2 v. may be used................18.50

60 D 6770. **Type W520 Comparator.** Three difference amplifiers for input level conversion. Accepts +5 to —10 volts inputs.....43.00

60 D 6771. **Type W602 Bipolar Level Amplifier.** Three inverting drivers for level conversion to ±6, ±3, ±0 volts..........40.60

60 D 9941. **Type W640 Pulse Amplifiers.** Three amplifiers each with transformer isolated 400 nsec or 1 μsec outputs............42.00

60 D 9944. **Type W980 Module Extender.** Troubleshooting aid.14.00

60 D 9945. **Type W990 Blank Module.** For special circuits.....2.50

60 D 9946. **Type W992 Copper Clad Board.** For etched circuits.2.00

60 D 9947. **Type W994 Perforated Board.** For breadboards....4.40

POWER SUPPLIES, CONNECTORS, INDICATORS, PANELS

60 D 9948. **Type H701 Chassis Mounted Power Supply.** Regulated +10V (0.4A) and —15V (3A), 115 VAC. To 100 modules..116.00

60 D 9950. **Type 782 Rack Mounted Power Supply.** As above, with 5¼x19″ rack...150.00

60 D 9952. **Type 783 Power Supply.** 8¾x19″ rack. Regulated ±10V (1A) and—15V (8A).115 VAC, 60-cycle input. To 250 modules.240.00

60 D 9958. **Type H900FP Mounting Panel.** H701 power supply and space for 32 modules. 5¼x19″ rack. For soldered wiring....185.00

60 D 6772. **Type H900WP Mtg. Panel.** As above, for wire wrap.185.00

60 D 9957. **Type 1943FBP Mtg. Panel.** 5¼x19″ rack with terminal block for power. For soldered wiring. Holds 64 modules....121.00

60 D 9956. **Type 1943WBP Mtg. Panel.** As above, for wire wrap.121.00

60 D 6773F. **Type 700D Source Panel.** For Logic Lab.........323.00

60 D 6774. **Type H901 Mtg. Panel.** Holds 10 modules in lab..82.50

60 D 6775. **Type H902 Control Panel.** Switches, indicators...112.80

60 D 6776. **Type H903 A-D Panel.** For adding analog-digital capability to Logic Lab. Has four bit D-A converter, test voltage source, comparator, two meters. 0 to —8 v. range...............143.00

60 D 6777. **Type 4913 Logic Lab Rack.** Holds 700D source panel and four other panels......................................47.00

60 D 6778. **Type 911 2″ Logic Patchcords. Pkg. of 10**..........9.00

60 D 6779. **Type 911 4″ Logic Patchords. Pkg. of 10**...........9.00

60 D 6780. **Type 913 2″ Patchrods.** For wire wrap. **Per 100**.. 18.00

60 D 9954. **Type 913 4″ Patchrods.** For wire wrap. **Per 100**...18.00

60 D 6781. **Type 914-7 Power Jumpers.** Ten 7″ wires fit 782, 1943, etc..**Pkg. of 10** 4.00

60 D 9964. **Type 4906 Panel Indicator.** For ⅜″ hole, with amp. 9.50

60 D 9965. **Type 4908 Panel Bulb.** For 5/16″ hole..............2.00

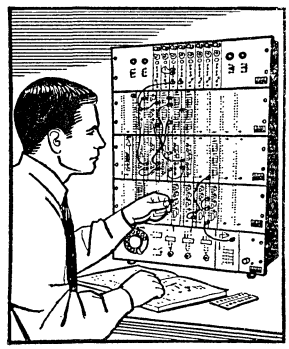
60 D 9949. **Type H800-F Solder Fork Connector Block**..........8.75

60 D 9966. **Type H800-W Wire Wrap Connector Block**.........8.75

NEW LOGIC-LABORATORY TRAINING AND DESIGN BREADBOARD

Newcomers to digital logic learn quickly by designing and operating logical systems. A 137-page laboratory workbook is included which contains 130 illustrations, 15 three-hour experiments. (Ten of the experiments can be performed with the equipment furnished with the basic laboratory.) No prior knowledge of electronics or digital logic is required. Everything is included—power supply, pulse generators, controls, indicators, hardware, and FLIP CHIP logic modules. For the experienced designer, the Logic Laboratory is a convenient breadboard on which computer elements or full scale systems can be built. Modules offer short-circuit-proof design and have high noise rejection and excellent driving capability. Silicon semiconductors and 2 mc capability suit the Logic Laboratory for semi-permanent systems such as production test equipment, special computer peripherals, simulators, etc. The same modules can be used in permanent installations later, if desired. **Specifications:** 700D Source Panel provides power for 100 modules. Four pulse sources: three Schmitt triggers and one variable speed clock. Three pushbuttons and telephone dial control inputs to the Schmitt pulsers. H901 Mounting Panel accepts 10 FLIP CHIP modules. H902 control panel has 8 indicators for data readout; 8 switches for manual inputs; 4 potentiometers for controlling clock and delays. **Modules:** 6-R201 flip-flops, 3-R121 quadruple NOR gates, 1-R122 quadruple NAND gate. **Patchcords:** 120 patchcords from 2″ to 16″ long. 4913 rack holds up to 5 panels. 115 VAC, 60 cycles, 75 watts. 27x19x11½″. Wt., 25 lbs.
60 D 9746 F.......................885.40

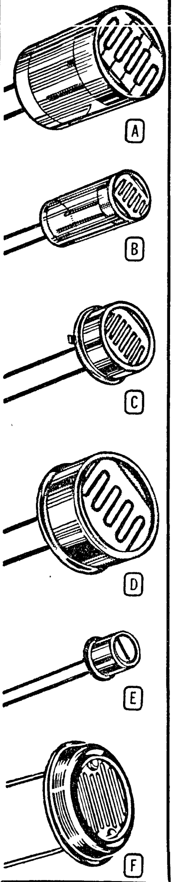
60 D 6782. **Extra Logic Laboratory Workbooks.** As described above. Ppd. in U.S.A....**Ea.** 5.00



Clairex and RCA Photocells

CLAIREX CdS AND CdSe PHOTOCELLS

*Resistance @ 2 fc ±33⅓%. †Resistance ratio from 2 fc to dark within 5 seconds. ‡Power dissipation @ 25°C. (mw).



Stock No.	Type	Fig.	Description	Dia. x L	*Resist. @ 2 fc	†Max. Res. Ratio	Max. Volt.	‡Power Dissip.	EACH 1-99	EACH 100-499
60 D 9488	CL5M2	D	Type 2 CdS, Peak resp. 5150 A., bluest response photosensitive material; high stability, low temp. error. Use with fluorescent and incandescent lamps.	.55x.18	55K	1:100	300	2000-500[1]	1.50	1.15
60 D 7460	CL602	B		.25x.5	1 meg.	1:100	300	75	1.50	1.15
60 D 7472	CL702	C		.36x.18	1 meg.	1:100	300	125	1.50	1.15
60 D 7486	CL902	E		.21x.15	1 meg.	1:100	250	50	1.50	1.15
60 D 7469	CL503	A	Type 3 CdSe, peak spectral reponse 7350 angstroms, fast reponse, and very high light-to-dark resistance ratio. Can be used for high speed switching or counting. Sensitive to near infra red. For use with incandescent or neon lamps.	.5x.5	7.2K	1:10,000	250	500-250[1]	1.50	1.25
60 D 9489	CL5M3	D		.55x.18	7.2K	1:10,000	300	2000-500[1]	1.50	1.25
60 D 7461	CL603	B		.25x.5	133K	1:10,000	300	75	1.75	1.50
60 D 7462	CL603A	B		.25x.5	75K	1:10,000	300	75	1.75	1.50
60 D 7463	CL603AL	B		.25x.5	3.5K	1:10,000	170	75	1.75	1.50
60 D 7473	CL703	C		.35x.18	133K	1:10,000	300	125	1.50	1.25
60 D 6437	CL703A	C		.36x.18	67K	1:10,000	300	125	1.50	1.25
60 D 7474	CL703L	C		.36x.18	2.7K	1:10,000	170	125	1.50	1.25
60 D 7488	CL903	E		.21x.15	133K	1:10,000	250	50	1.50	1.25
60 D 6438	CL903A	E		.21x.15	67K	1:10,000	250	50	1.50	1.25
60 D 6439	CL903L	E		.21x.15	5.9K	1:10,000	170	50	1.50	1.25
60 D 7456	CL504	A	Type 4 CdSe, peak spectral reponse 6900 angstrons, very low resistance photocells. Can be used for "on-off" applications when low resistance is desired. For use with either incandescent or neon lamps.	.5x.5	1.5K	1:1000	250	500-250[1]	1.50	1.25
60 D 9490	CL5M4	D		.55x.18	1.5K	1:1000	300	2000-500[1]	1.50	1.25
60 D 7457	CL504L	A		.5x.5	0.25K	1:1000	170	500-250[1]	1.50	1.25
60 D 6440	CL5M4L	D		.55x.18	0.25K	1:1000	170	2000-500[1]	1.50	1.25
60 D 7464	CL604	B		.25x.5	30K	1:1000	300	75	1.75	1.50
60 D 7465	CL604L	B		.25x.5	1.5K	1:1000	170	75	1.75	1.50
60 D 6441	CL704	C		.36x.18	30K	1:1000	300	125	1.50	1.25
60 D 7476	CL704L	C		.36x.18	0.6K	1:1000	170	125	1.50	1.25
60 D 7490	CL904	E		.21x.15	30K	1:1000	250	50	1.50	1.25
60 D 6442	CL904L	E		.21x.15	2K	1:1000	100	50	1.50	1.25
60 D 7458	CL505	A	Type 5 CdS, peak spectral reponse 5500 angstroms (closely matches the human eye), stable, low memory photocell. Can be used in light measuring applications. and precision low speed switching. For use with incandescent, fluorescent or neon lamps.	.5x.5	9K	1:100	250	500-250[1]	1.50	1.15
60 D 9491	CL5M5	D		.55x.18	9K	1:100	300	2000-500[1]	1.50	1.15
60 D 7459	CL505L	A		.5x.5	1.5K	1:100	170	500-250[1]	1.50	1.15
60 D 6443	CL5M5L	D		.55x.18	1.5K	1:100	170	2000-500[1]	1.50	1.15
60 D 7466	CL605	B		.25x.5	166K	1:100	300	75	1.50	1.15
60 D 7467	CL605L	B		.25x.5	1.5K	1:100	170	75	1.50	1.15
60 D 6444	CL705	C		.36x.18	166K	1:100	300	125	1.50	1.15
60 D 7478	CL705L	C		.36x.18	3.3K	1:100	170	125	1.50	1.15
60 D 6445	CL905	E		.21x.15	166K	1:100	250	50	1.50	1.15
60 D 6446	CL905L	E		.21x.15	10K	1:100	100	50	1.50	1.15
60 D 6447	CL705HL	C	Type 5H CdS, peak response 5500A Uniform color temp. response. For speed switching, hi-stability measuring; incandescent, fluorescent, neon lamps.	.36x.18	28K	1:1000	170	125	1.50	1.35
60 D 6448	CL905HL	E		.21x.15	100K	1:1000	100	50	1.50	1.35
60 D 6449	CL905HN	E		.21x.15	700K	1:1000	100	50	1.50	1.35
60 D 6450	CL507	A	Type 7 CdS, peak spectral reponse 6150 angstroms, moderate speed and ratio. Can be used in general beam breading applications. For use with incandescent, neon or fluorescent lamps.	.5x.5	7.2K	1:1000	250	500-250[1]	1.50	1.25
60 D 9492	CL5M7	D		.55x.18	7.2K	1:1000	300	2000-500[1]	1.50	1.15
60 D 7468	CL607	B		.25x.5	133K	1:1000	300	75	1.50	1.15
60 D 6451	CL707	C		.36x.18	133K	1:1000	300	125	1.50	1.15
60 D 6452	CL707L	C		.36x.18	2.7K	1:1000	170	125	1.50	1.15
60 D 6453	CL907	E		.21x.15	133K	1:1000	250	50	1.50	1.15
60 D 6454	CL907N	E		.21x.15	66K	1:1000	100	50	1.50	1.15
			DUAL ELEMENT[2]							
60 D 6455	CL703/2	C	Type 3 CdSe Photocells contain	.36x.18	50K	1:10,000	300	125	1.80	1.55
60 D 6456	CL703L/2	C	Type 3 CdSe two separate ele-	.36x.18	6.5K	1:10,000	170	125	1.80	1.55
60 D 6457	CL704/2	C	Type 4 CdSe ments with two	.36x.18	17K	1:1000	300	125	1.80	1.55
60 D 6458	CL704L/2	C	Type 4 CdSe separate leads and	.36x.18	1.5K	1:1000	170	125	1.80	1.55
60 D 6459	CL705/2	C	Type 5 CdSe one common lead.	.36x.18	166K	1:100	300	125	1.80	1.45
60 D 6460	CL705L/2	C	Type 5 CdS	.36x.18	7.5K	1:100	170	125	1.80	1.45
60 D 6461	CL707H	C	Type 7H CdS Peak Spectral reponse 6150 Angstroms. Very fast decay time coupled with low resistance and high linearity. Ideal for beam breaking applications.	.36x.18	500K	1:1000	300	125	1.50	1.35
60 D 6462	CL707HM	C		.36x.18	100K	1:1000	250	125	1.50	1.35
60 D 6463	CL707HL	C		.36x.18	10K	1:1000	170	125	1.50	1.35
60 D 6464	CL907H	E		.21x.15	600K	1:1000	250	50	1.50	1.35
60 D 6445	CL907HN	E		.21x.15	300K	1:1000	100	50	1.50	1.35
60 D 6666	CL907HL	E		.21x.15	24K	1:1000	100	50	1.50	1.35

RCA CdS PHOTOCELLS

S-15 spectral response. *Glass or glass-metal. #Max. voltage between terminals, DC or peak AC. †Max. ratings, continuous/demand response. ‡ @ 1 fc/100 fc.

Stock No.	Mfr's Type	Fig.	*Make	#V.	†Watts	‡Ohms Resist.	EACH 1-9	EACH 10-Up
60 D 9968	SQ2503	F	GM	600	.75/1	37.5K/1000	1.35	1.28
60 D 7435	4403	F	GM	250	.75/1	3500/100	1.30	1.24
60 D 7436	4404	F	GM	600	.75/1	10K/350	1.35	1.28
60 D 8926	4448	F	GM	600	.75/1	15K/450	1.35	1.28
60 D 8927	4453	F	GM	600	.75/1	7500/225	1.30	1.24
60 D 7443	7163	F	GM	600	.75/1	18K/750	1.30	1.24
60 D 9980	SQ2520	D	GM	110	.2/50	1100/85	1.80	1.71
60 D 9981	SQ2521	D	GM	250	.2/20	11.5K/450	1.80	1.71
60 D 9982	SQ2525	D	GM	250	.2/20	20.5K/750	1.80	1.71
60 D 9983	SQ2526	D	GM	110	.2/50	6000/350	1.80	1.71
60 D 9984	SQ2527	D	GM	110	.2/50	3000/175	1.80	1.71
60 D 9985	SQ2523	A	G	110	.2/50	6000/350	2.10	2.00
60 D 9986	SQ2524	A	G	110	.2/50	3000/175	2.10	2.00
60 D 7438	4423	A	G	250	.2/20	11.5K/450	2.05	1.95
60 D 7439	4425	A	G	110	.2/50	1100/85	2.05	1.95
60 D 8846	SQ2508	C	GM	200	.05/5	110K/5000	1.90	1.81
60 D 9992	SQ2519	C	GM	300	.05/5	12K/850	1.65	1.57
60 D 9993	SQ2529	C	GM	300	.05/5	1800K/70K	1.65	1.57
60 D 9994	SQ2528	B	G	300	.05/5	1800K/70K	1.70	1.62
60 D 8919	4402	B	G	300	.05/5	12K/850	1.70	1.61
60 D 8922	4413	B	G	110	.05/5	33K/2000	2.35	2.23

CLAIREX PHOTOMOD® PHOTOCELL-LAMP MODULE

Clairex photocells optically coupled to Photocell-lamp modules in rugged package; 1⅛" long, ⅜" dia. Operates 20°C to 75°C; max. power dissip., 50 mw at 25°C. Max. cell volts., 120V with lamp off. †Max. for 5000 life. *Neon lamp.

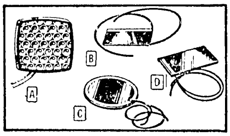
Stock No.	Type	Max. Res.	†Volt.	Ma	EACH
60 D 6467	CLM3006	250	6V	40	3.25
60 D 6468	CLM4006	50	6V	40	3.25
60 D 6469	CLM5006	800	6V	40	3.25
60 D 6470	CLM3012	125	12V	40	3.25
60 D 6471	CLM4012	50	12V	40	3.25
60 D 6472	CLM5012	400	12V	40	3.25
60 D 6473	CLM3024	140	24V	40	3.25
60 D 6474	CLM4024	40	24V	40	3.25
60 D 6475	CLM5024	600	24V	40	3.25
60 D 6476	CLM3120	700	120V	3*	3.25
60 D 6477	CLM4120	200	120V	3*	3.25

CLAIREX PHOTOCELL KIT

5 CdS and CdSe cells. CdS types include: CL505, which closely matches human eye response; CL707, for general beam-breaking; CL902, for linear resistance vs. light-level response (smallest hermetically sealed unit). CdSe types include: CL603A, high speed; CL704L, sensitive—66-ohm resistance @ 100 fc. 60 D 9265. Wt., 5 oz. 10.00

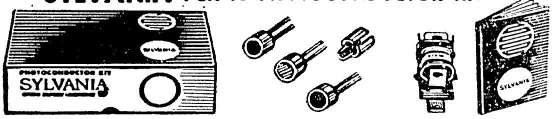
Photocells, Solar Packs, Photo Diodes

IR SOLAR CELL AND PHOTOCELL EXPERIMENTER KIT



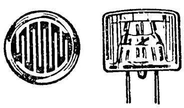
Type K-421. For engineers and hobbyists. May be used for powering transistor radios, building light meters, operating small motors from sunlight, etc. Contains 7 different selenium, silicon, and cadmium-sulfide photocells similar to Figs. A, B, C and D. Instruction manual with circuit diagrams and experiments, plus "Experimenter Handbook." Shpg. wt., 1 lb.
60 D 7660...5.95

SYLVANIA PCK-10 PHOTOCONDUCTOR KIT



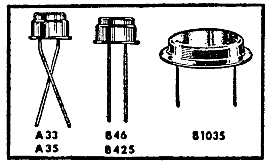
Construct circuits for a game-room target shoot, remote switch, lightmeter, model RR crossing guard, many others. Includes: 3 Sylvania T-4 CdS photoconductors; Sigma AC-DC relay; mtg. bracket; 22K 1-watt resistor with ±10% tolerance; 52-page "Circuits Booklet" that details 19 circuit uses. Photoconductors have hermetically-sealed glass envelopes. Relay has normally closed and normally open contacts that handle up to 20 amps (resistive load); 500 ohms DC coil resistance. Shpg. wt., 1 lb.
60 D 8820...9.95

SYLVANIA TYPE 8100 CADMIUM-SULFIDE PHOTOCELL



Hermetically-sealed glass-case cell for industrial control, furnace safety and lighting. Blue indicator responds if case becomes damaged and moisture enters. Hydrogen filling. 250 mw. —40° to +70° C amb. 5000 ohms under 2 fc @ 2870° K. Dark res., 200K min. after 20 sec.
60 D 7626.......................**1.40**

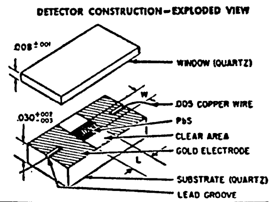
GENERAL ELECTRIC CADMIUM SULFIDE PHOTOCELLS



End-illuminated photocells in glass and metal envelopes with radial leads. Moisture controlled, hermetically-sealed. Operate in any position. Peak spectral response, 6100 Angstroms except Types A33 and A35, 5500. Ambient temperature range, —40° to +65° C except Type B46, —45° to +80°C.

Stock No.	Mfr's Type	Max. Ma	Max. V.	Max. P (Mw)	EACH 1-249	EACH 250-499
60 D 7586	A33	10	30	75	1.34	.96
60 D 7587	A35	10	50	75	1.34	.96
60 D 8932	B46	10	60	250	1.42	1.02
60 D 7588	B425	20	250	250	1.42	1.02
60 D 7591	B1035	50	350	300	1.59	1.14

INFRARED INDUSTRIES PHOTOCELLS



Low-cost lead-sulfide infrared detectors in the form of a flat plate on a quartz substrate. Sealed against humidity. Advantages include: high sensitivity, short time-constant, wide wavelength response, low noise, low impedance, extreme temperature stability. Optical filter types (identified by suffix MF) minimize interference from visible background radiation.

Stock No.	Mfr's Type	Sensitive Area (in.)	Overall Size (in.)	Dark Res.	EACH 1-3	EACH 4-9
60 D 7627	B3-SA19	.015 x .025	.125 x .250	1-4.5 megs	5.75	5.65
60 D 7628	B3-SA19MF	With 3" D. opt. filter			11.15	11.00
60 D 7629	T3-SA20	.060 x .060	.125 x .250	.05 meg	6.80	6.70
60 D 7630	T3-SA20MF	With 3" D. opt. filter			12.30	12.10
60 D 7631	B3-SA22	.200 x .200	.375 x .375	.2-2 megs	8.75	8.60

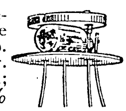
POLARIS "MAJ-I" PHOTOCELL

LDR-C1. CdS cell. 75-300 ohms at 92 fc. 10 megs at total darkness. 0.2 meg/second maximum change. Max. dissipation, 0.2 w. at 40°C. Max. v., 110 AC (peak) or DC.
60 D 7565. 1-24..Ea. **1.00** 25-99..Ea. **.80** 100-249.......Ea. **.68** 250-499..Ea. **.61**

HYGROPAK HUMIDITY SENSORS

Range: 30% to 100% relative humidity. 1x1⅛x¼". ¾" pin spacing.
60 D 7746. Type HA. Under 100K to over 100 megs. 1-99....................Each 5.00
60 D 7747. Type HA-26. 50 to 100 ohms. 1-99..........................Each 6.00
60 D 7748. Sockets. 1-299.........Each .30

G.E. PHOTOCONDUCTIVE CELL-LAMP



Cell operates as variable resistor with changes of voltage on integral 5 v., 60 ma lamp. Cell: 100-mw max. power. Max. dark curr.: 5B1, 80 μa; 5C1, 15 μa. *At 20%/90% max. lamp voltage.

Stock No.	Type PL-	Cell V.	Mat.	*Cell Res. Ω	EACH
60 D 9763	5B1	250	CdS	40K/200	4.18
60 D 9764	5C1	200	CdSe	20K/220	4.18

You Get OEM Prices and the Fastest Service in the Industry—from Allied.

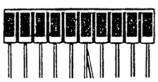
IR PHOTOCELLS

Selenium cells (B2M, B3M) have a spectral response similar to that of the human eye. Silicon cells (S1M, S3M, S5M) are used as solar batteries to convert sunlight to electrical energy for use in radios, light meters, etc. B2M is ½x¾"; others, 1⅛x1⅛x3⁄16". With 24-page handbook.

Stock No.	Mfr's Type	Output Volts	Output Ma	EACH 1-9	EACH 10-99
60 D 7876	B2M	.33-.4	2	1.50	1.35
60 D 7877	B3M	.33-.4	1.5-2.5	1.75	1.55
60 D 7879	S1M	.3-.45	10-16	2.25	2.00
60 D 6494	S3M	.6-.85	10-16	3.95	3.51
60 D 6495	S5M	.6-.85	18-25	4.95	4.40

SOLAR SYSTEMS SILICON AND READOUT CELLS

SILICON READOUT CELL



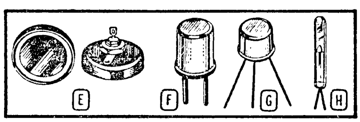
Activate computers, controls in tape readers, punched card systems, etc. 20 μsec response or better.

Stock No.	Type	Cells	EACH 1-24	EACH 25-49
60 D 7578	SSR- 4-001	4	10.00	8.40
60 D 7579	SSR- 5-001	5	12.50	10.50
60 D 7580	SSR- 6-001	6	15.00	12.60
60 D 7581	SSR- 7-001	7	17.50	14.70
60 D 7582	SSR- 8-001	8	20.00	16.80
60 D 7583	SSR- 9-001	9	22.50	18.90
60 D 7584	SSR-10-001	10	25.00	21.00
60 D 7585	SSRC Case	......	5.00	4.50

[E] SS-200 SILICON CELLS

Allow maximum power per unit area. Glass-covered. Overall diameter, 1.312".

Stock No.	Type SS-	Load Curr. Ma (Min.)	Power Mw (Min.)	EACH 1-90
60 D 9749	200A	60	24	11.50
60 D 9750	200B	90	36	13.50
60 D 9751	200C	120	48	17.50
60 D 9752	200D	150	60	25.50



SILICON SOLAR CELLS

(Not illus.) May be used to power transistor radios, operate relays or small motors from sunlight, etc. Respond in 20 microseconds maximum. Peak sensitivity at 0.85 microns. Unmounted. 6" color-coded leads. In Table below, Ma indicates milliamperes; Mw indicates milliwatts.

Stock No.	SS Type	Output Ma	Output Mw	Size	EA.
60 D 7566	10-4L	18.0	7.2	.8x.4"	1.95
60 D 7567	10-6L	27.0	10.8	.8x.4"	2.40
60 D 7568	10-8L	36.0	14.4	.8x.4"	3.60
60 D 7569	11-L	12.0	4.8	.4x.4"	1.95
60 D 7570	12-L	5.0	2.0	.4x.2"	1.50
60 D 7571	20-L	12.0	4.8	.8x.2"	3.50
60 D 7572	21-L	5.0	2.0	.4x.2"	2.20
60 D 7573	22-L	2.5	1.0	.2x.2"	1.40
60 D 7574	23-L	1.3	0.52	.2x.1"	1.00
60 D 7575	30-L	60.0	24.0	1.125" dia.	6.75

PHOTOELECTRIC CONTROL CELL

For photovoltaic or photoresistive use. Typ. output at 1000 ftc tungsten, 2800° Kelvin, 25° C: 370 mv min. at 1000 ohm load. Dark reverse at —0.5 v., below 1 ftc. 20 μa. max. at 25° C. Fig. F plug-in types have 2 pins. *Fig.

Stock No.	Type SS-	*	Case	EACH 1-9	EACH 10-24
60 D 9753	300-1	F	TO-5, plug-in	8.00	7.25
60 D 9754	300-2	G	TO-5, 3 leads	8.00	7.25
60 D 9755	300-3	F	TO-11, plug-in	8.00	7.25
60 D 9756	300-4	G	TO-11, 3 leads	8.00	7.25

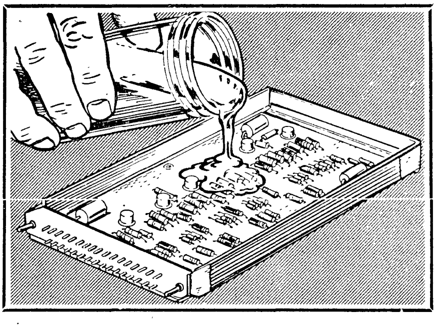
[H] SS-400 SILICON CELLS

Glass encapsulated, hermetically sealed. Outside dia., .080". ½" long. *Voltage at 1250 ftc, 2800° K tungsten, 1000 ohms.

Stock No.	Type SS-	*Output Mv(Min.)	Reverse @ —1V.(Max.)	EA. 1-99
60 D 9757	400-1	300	10 μa	6.50
60 D 9758	400-2	300	20 μa	5.75
60 D 9759	400-3	250	10 μa	5.00
60 D 9760	400-4	250	20 μa	4.30
60 D 9761	400-5	250	50 μa	3.50
60 D 9762	400-6	200	....	2.95

Dow Corning Silicones for Electronics

SYLGARD® RESINS AND SILASTIC® RTV RUBBERS FOR CIRCUIT-SEALING USES



SYLGARD 182 AND 183 RESIN

Sylgard 182 Resin. Transparent and solventless for potting, embedding, filling and encapsulating. Can be cut after curing for circuit change and resealed with new resin. Shelf life about 12 months. Pot life after mixing with curing agent, 8 hours. Cures in any thickness, sealed or exposed to air, in 4 hours at 149°F. Specifications after curing: hardness, shore A scale 40; coefficient of expansion, .00096; passes 10 cycles MIL-I-16923C thermal shock resistance from −55°C to 155°C; water absorption after 7 days immersion at 25°C, 0.1%; mechanical strgenth, 800 to 1000 psi; brittle point, lower than −70°C; minimum dielectric strength (ASTM D 149) 500, volts/mil; heat stability, 392°F. Curing agent supplied blended in ratio of 100 parts resin to 10 parts agent by weight.

60 D 7001. 1-Lb. Kit. 1-11.......Each 8.00 12-47....Each 7.50 48-Up........Each 7.00

Sylgard 183 Resin. Similar to above, but opaque black. Heat stability, up to 482° F.

60 D 7003. 1-Lb. Kit. 1-11.......Each 7.00 12-47.......Each 6.00 48-Up... Each 5.50

SYLGARD 184 AND 185 RESIN

Sylgard 184 Resin. Low viscosity, solventless and transparent for temp. sensitive devices. Pot life 2.5 hours after curing agent added. Cures without exotherm in 24 hours at room temp. or in 4 hours at 149° F. Specifications: hardness, shore A scale 30; passes 10 cycles MIL-I-16923C thermal shock res. from —55°C to 155°C; water absorption after 7 days at 25°C, less than 0.1%; mech. strength, 800 to 1000 psi; brittle point, under —70°C; min. diel. strength (ASTM D 149), 500 v./mil; heat stability, up to 392°F. 100 parts resin to 10 parts curing agent by weight.

60 D 8750. 1-Lb. Kit. 1-11........Each 8.00
12-49......Each 7.50 48-Up....Each 7.00

Sylgard 185. As above, but opaque black; heat stab. to 482°F; hardness, scale 35.

60 D 8751. 1-11 Ea. 7.00 12-Up....Ea. 6.00

SILASTIC RTV 732 ADHESIVE

General-purpose silicone rubber adhesive and sealant, ready-to-use. Needs no catalyst or heat—reacts with moisture in the air. Vulcanizes in 24 hours at 77°F and 50% relative humidity. Moisture resistant, heat stable. Specifications after vulcanizing: color, white; brittle pt., —100°F; hardness shore A scale, 25; Tensile strgth., 150 psi; tack free, under 1 hr. at 77°F, 50% humidity.

60 D 7033. 2-oz. Tube. 1-5.......Each 1.50
6-24..Eacn .78 25-143..........Each .64
144-Up.....................Each .57
60 D 7034. 5-oz. Tube. 1-5........Each 3.00
6-71....Eacn 1.42 72-Up.......Each 1.40

TYPE 340 HEAT SINK COMPOUND

Greaselike silicone material, heavily filled with heat-conductive metal oxides. Combination of base and fillers produces a material with higher thermal conductivity than previously available silicone heat-sink compounds. Specially designed for applying to the base of mounting studs of components such as transistors and diodes—properties of the compound are such that it will not dry out, harden or melt—under virtually any atmospheric condition. Withstand long term exposure to temperatures up to 200°C. Compound maintains a positive heat-sink seal that improves heat transfer from the device to heat sink or chassis. Actually increase life expectancy and overall efficiency of circuit component. Evaporation, 1% after period of 24 hours at temperature of 200°C. Supplied in convenient tubes and cartridges.

60 D 8902. 14-oz. Cartridge. 1-11..Each 10.00
12-47........................Each 8.00
60 D 7021. 5-oz. Tube. 1-11..... Each 5.00
12-Up........................Each 4.00

SYLGARD RESIN THINNER

Sylgard Type 1330. Silicone fluid diluent for 182, 183, 184 and 185 resins. Use where component density and size prevent undiluted potting. 20 parts thinner by weight to 100 parts resin can be used without major change in performance, and without any change in curing cycle characteristics.

60 D 8760. 1-Lb. Package....... Each 6.00

3100 SERIES RTV ENCAPSULANTS

Dow Corning's 3100 3112 and 3120 RTV encapsulants when cured with catalyst types F, S, or H have the following properties: Remain rubbery from below —65°C to +250°C; High dielectric properties over a wide temperature range; Mix and pour without preheating; Offer excellent protection from moisture, air, corona weathering and corrosive atmospheres; Good damping qualities absorb mechanical shock and vibrations. Will cure either at room temperature or upon heating without exothermic heat being produced. Repairs are easily made by cutting away old material and pouring fresh encapsulant. Little shrinkage during cure means little stress on components and accurate reproduction of masters for mold making. Any of the catalysts listed below may be used with the 3100 series encapsulants. Nine combinations possible.

TYPE 3110 RTV ENCAPSULANT

White, low viscosity silicone rubber base with excellent deep section curing characteristics. Wt., 16 oz.

60 D 6788. 1-5 Each 5.60 6-Up..Each 4.30

TYPE 3112 RTV ENCAPSULANT

A white, medium viscosity silicone rubber base that cures readily in deep sections to high durometer, high strength rubber. 16 oz.

60 D 6789. 1-5 Each 5.60 6-Up..Each 4.30

TYPE 3120 RTV ENCAPSULANT

Red, medium viscosity silicone rubber base that cures readily in deep sections to a high durometer, high strength rubber. Has excellent high temperature resistance being usable for short periods to 600°F. 16 oz.

60 D 7029. 1-5 Each 6.00 6-Up...Each 4.75

TYPE "F" RTV CATALYST (fast cure)

A light tan past consistency catalyst, designed to cure RTV encapsulants, above, in 15 minutes to 4 hours. Wt., 16 oz.

60 D 6790. 1-5. Each .90 6-Up...Each .75

TYPE "S" RTV CATALYST (standard cure)

A light blue paste consistency catalyst, designed to cure RTV encapsulants in 4 to 8 hours. Wt., 1.6 oz.

60 D 6791. 1-5. Each .90 6-Up..Each .75

TYPE "H" RTV CATALYST (heat cure)

A light yellow paste-consistency catalyst for curing TRV encapsulants at room temp. or with added heat. Wt., 1.6 oz.

60 D 6792. 1-5..Each .90 6-Up..Each .75

TYPE 4X SPRAY

Handy mold release, rubber preservative and water repellent. Acts as lubricant and insulator. Easily sprayed from aerosol container; for a variety of factory maintenance and production problems. Uses include: lubricating threads of studs, bolts and adjusting screws; eases dismantling of equipment; releasing epoxies, plastic and rubber molds; preventing solder from sticking. Handy around the home for cleaning stove burner reflectors; preventing locks and freeze trays from sticking; waterproofing auto ignition systems; reducing battery-terminal corrosion; preventing rubber seals from sticking.

60 D 7024. 16-oz. Container......Each 1.95

You realize effective economies through one-order purchasing from Allied. You pay no more than the factory price. You reduce your handling costs by lessening paperwork in purchasing and receiving. You place one order, receive one shipment, make one disbursement. You avoid costly delays.

GUIDE TO DOW CORNING POTTING AND ENCAPSULATING MATERIALS

		SILASTIC RTV Rubber Types				SYLGARD Resin			
Properties	**Units**	**732**	**3110**	**3112**	**3120**	**182**	**183**	**184**	**185**
Physical Nature (As Cured)	....	Rubber	Rubber	Rubber	Rubber	Resil. Solid	Resil. Solid	Resil. Solid	Resil. Solid
Color	....	White	White	White	Red	Clear	Black	Clear	Black
Viscosity (25°C)	Centipoises	700000	30000	12.500	30000	5250	8000	5250	8000
Spec. Grav. (25°C)	....	1.07	1.47	1.1	1.47	1.05	1.23	1.02	1.23
Shelf Life (25°C)	Months	6	12	12	12	12	12	12	12
Pot Life (25°C)	Hours	1	4	30	4	8	8	2.5	2.5
Cure	Hr/°C	24/25	24/2.5	24/25	24/25	4/65	4/65	24/25 or 4/65	24/25 or 4/65
Useful Temp. Range	C°	−73 to 260	−54 to 315	−65 to 250	−54 to 315	−65 to 200	−65 to 250	−65 to 200	−65 to 250
Thermal Conductivity	cal/gm/ C/sec	4.95×10^{-4}	7.5×10^{-4}	5.0×10^{-4}	7.5×10^{-4}	3.5×10^{-4}	7.5×10^{-4}	3.5×10^{-4}	7.5×10^{-4}
Tensile Strength	psi	200	650	350	650	900	900	900	900
Elongation	%	250	110	150	110	100	100	100	100
Hardness Shore A	....	25	65	45	65	40	45	40	45
Deep Sec. Cure	....	No.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pour Brittle Point	°C	−73	−33	....	−73	−79	−65	−70	−65
Dielectric Constant	10^6 cps	....	....	2.9	....	2.6	2.75	2.6	2.75
Dissipation Factor	10^6 cps		.047	.005	.047	.001	.01	.001	.01
Electric Strength	volts/mil	.....	550	600	550	550	550	550	550

Silicones and Epoxy Compounds

G. E. SILICONES AND COMPOUNDS

SILICONE RUBBER SEALANTS

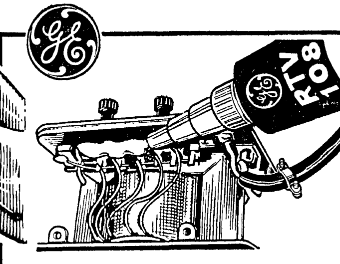
Ready-to-use silicone rubber adhesive/sealants for industrial applications. In squeeze tubes, they are easily applied and air cure to form a durable, flexible silicone rubber. Needs no catalyst. Applied at room temperature, adheres without priming. For use as insulation, bonding silicone rubber parts to metal surfaces, encapsulating. Withstand —75° F to +300° F. Never harden, crack or dry out. Resist moisture, weathering and aging. Contain no solvent and cure with minimum of shrinkage. Excellent electrical properties.

RTV-102. Excellent for shock mounting. White in color.
RTV-103. For rubber repair, other uses. Black in color.
RTV-106. For long term use at temperatures up to 600° F. Red.
RTV-108. Where "see-through" is required. Translucent.
RTV-112. For brushing or spraying on production line. White.

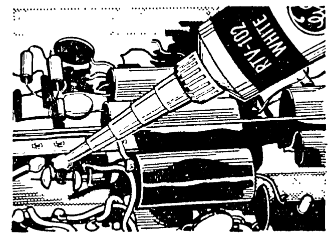
PHYSICAL PROPERTIES OF PRESSED SHEETS CURED 1 WEEK AT 77°F: Hardness, Shore A: 30. Tensile Strength: 350 psi. Tear Resistance: 45 lb/in.

ELECTRICAL PROPERTIES OF PRESSED SHEETS CURED 10 DAYS AT 77°F: Dielectric strength, vpm: 550 for .058" thickness. Volume Resistivity, ohm-cm: $3x10^{15}$.

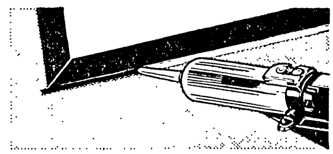
Type RTV-	3-Oz. Tube Stock No.	EACH 1-5	EACH 6-47	EACH 48-Up	12-Oz. Tube Stock No.	EACH 1	EACH 2-11	EACH 12-47	EACH 48-Up
102	60 D 7227	1.75	1.50	1.27	60 D 7228	5.40	5.20	4.90	4.70
103	60 D 7229	1.75	1.50	1.27	60 D 7230	5.40	5.20	4.90	4.70
108	60 D 8594	1.75	1.50	1.27	60 D 8595	5.40	5.20	4.90	4.70
106	60 D 8916	1.75	1.50	1.27	60 D 8918	5.40	5.20	4.90	4.70
112	60 D 7235	1.75	1.50	1.27	60 D 7236	5.40	5.20	4.90	4.70



RTV-108, Translucent For See-Through Uses



RTV-102, White For Affixing Name Plates



RTV-103, Black For Rubber Repairs

- In Ready-to-Use Tubes
- Choose 3-Oz. or 12-Oz. Sizes
- For Many Industrial Applications

RTV-60 AEROSOL SPRAY

For thin applications of Room Temperature Curing Silicone Rubber Compounds (RTV) for encapsulation, protective coating, thermal insulation, mold-release purposes. One 16-ounce can will provide a 4-mil coating over 2000 square inches. Curing agent supplied in separate aerosol can, below. Wt., 16 oz.

60 D 7241. 1-5................Each 3.50
6-11.....Each 3.30 12-Up.....Each 3.05

Aerosol Catalyst. For above. 6 oz.
60 D 7242. 1-5................Each 1.85
6-11.....Each 1.65 12-Up.....Each 1.53

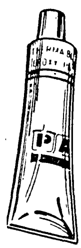
RTV-615 POTTING COMPOUND

(Not illus.) Clear silicone low-viscosity liquid that cures at room temperature, after addition of curing agent, to form a rubber-like, tough, transparent solid. Offers improved physical properties—can be cured within 15-30 minutes at 150° C—suitable for production use. Cures in absence of air. Offers protection against ozone, corona and many harmful contaminants. Withstands temperatures within range of —65° C to +200° C. High dielectric strength. Consists of compound and curing agent. 1-pint can. Net wt., 1 lb.

60 D 7243. 1-11................Each 9.50
12-Up.........................Each 8.00

PLASTIC ASSOCIATES READY-TO-USE EPOXY CEMENTS

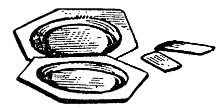
PA-1101 THERMA-BLEND EPOXY PASTE



Thoroughly factory mixed and ready-to-use epoxy cement in paste form. Saves much valuable production time on assembly lines when used for cementing, sealing, insulating and protecting. Works on practically any type of porous and non-porous material. Needs no mixing —only catalyst necessary is the application of 400°F heat from an ordinary heat lamp, oven or even open flame. Curing time is 6 minutes at 400°F; at 360°F, curing time increases to 40 minutes. Once Therma-Blend epoxy cement paste is cured, it forms a perfect and permanent bond. Maintains great sheer strength, even at high temperature extremes. Made and tested in accordance with MIL-A-8623 specifications. Handy 1½-oz. squeeze tube.

60 D 7680. 1-24..Each 2.00 25-49......Each 1.70
50-99...........Each 1.60 100-Up.....Each 1.50

PA-1000 AND PA-1001 ROOM-TEMPERATURE AIR-CURE EPOXY KITS



Pre-measured two-component mixer-package for accurately preparing a small quantity of air-curing, short pot-life epoxy cement without waste or mess. Time-saving and helpful when used on-the-job in production line assembly work, service departments and laboratories. Catalyst and resin are sealed in a vacuum-formed polyethylene container. One component is in a central dish, the other in a concentric ring around the dish. The poly-film cover is peeled back and the stirring stick provided is used to push down the center of the container. This collapses the outer ring, causing the contents to merge and mix with those of the central dish. Resin and catalyst are of contrasting colors for visual indication of even mixture. Adheres to practically any porous or non-porous material. Cures from -50°F to +250°F. Bond has tensile strength of 1900 psi when cured. Shelf life approximately 12 months. Each pkg. of PA-1000 has 10—1/10-oz. individual units; PA-1001, 10—1/5-oz. units.

Stock No.	Mfr's Type	No. of Units	Oz. per Unit	EACH 1-24 Pkgs.	EACH 25-49 Pkgs.	EACH 50-99 Pkgs.
60 D 7690	PA-1000	10	1/10	2.50	2.13	2.00
60 D 7691	PA-1001	10	1/5	4.00	3.40	3.20

DOW-CORNING SILICONE SURFACE-COATING COMPOUNDS

TYPE 3 COMPOUND

Greaselike, nonmelting silicone material with excellent electrical insulating properties, water repellency, and oxidation resistance. Retains consistency and electrical properties from —40 to over 400°F. Easily applied with a grease gun, by wiping or rubbing. Can be brushed or sprayed on if thinned first with xylene, mineral spirits, perchloroethylene or lacquer thinner.

60 D 7022. 2-oz. Container. 1-11..Each 1.95
12-47......Each 1.12 48-Up..... Each .95

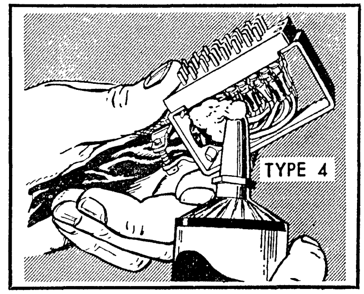
60 D 7023. 8-oz. Container. 1-11..Each 5.00
12-47......Each 2.70 48-Up.....Each 2.45

TYPE 4 COMPOUND

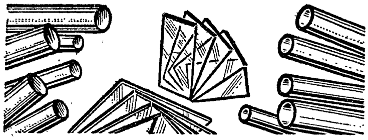
Seat and lubricant for switches, cable and cable connectors, battery terminals and lamp bulb bases. Meets MIL-I-8660A. Used in military applications as a moisture-proof dielectric seal for ignition systems, electrical systems, and electronic equipment. Apply with a grease or putty gun, or by brushing or wiping. Translucent and colorless with petroleum-type consistency.

60 D 7027. 2-oz. Container. 1-11.. Each 1.95
12-47.....Each 1.12 48-Up..... Each .95

60 D 7028. 8-oz. Container. 1-11..Each 5.00
12-47......Each 2.85 48-Up.....Each 2.60



Plastic Rods, Sheets and Tubing



TEFLON®, KEL-F®, NYLON, DELRIN®, LEXAN® SHEETS, ROD

Teflon (TFE) resin has outstanding inertness, highest temperature resistance of any plastic combined with lowest coefficient of friction of any solid. Weather-resistant. **Kel-F** (PCTFE) resin is superb for cryogenics due to flexibility at —423°F; low outgassing, low thermal conductivity, low cold flow and impact sensitivity. **Nylon** Type 6/6 (Zytel 101) gives high tensile strength, resilience, impact strength over wide temp. range, down to —40°F. **Delrin and Lexan.** See listings below.

TEFLON® (TFE) ROD

Premium, electrical grade, virgin Teflon rod. Meets MIL specification P-19468A, AMS-3651B and AMS-3656. Diameter tolerance: up to .375", ±.0005"; .500" to .750", ±.001". Minimum order, 1 ft. per size. Specify length when ordering.

Stock No.	Dia. In.	PER FOOT 1-25'	26-100'	100' Up
60 D 9193 CF	.125	.48	.38	.34
60 D 9194 CF	.250	.78	.62	.56
60 D 9195 CF	.375	1.40	1.26	1.13
60 D 9196 CF	.500	2.19	1.97	1.77
60 D 9197 CF	.625	3.00	2.70	2.40
60 D 9198 CF	.750	4.20	3.78	3.40
60 D 9200 CF	1.000	12.40	11.16	10.04

NYLON ROD

Rods made from Type 6/6 nylon (Zytel 101). Meets MIL specification M-20693A, Type 1, and MIL-P-17091B, Type 1. Also approved for food and drug applications. Tolerances: ⅛ to 1" dia., ±.002", —.000; 1½" dia., ±.005", —.000. Minimum order, 1 foot per size. Specify length when ordering.

Stock No.	Dia. In.	PER FOOT 1-9'	10-100'	100' Up
60 D 9230 CF	⅛	.22	.15	.12
60 D 9231 CF	¼	.33	.24	.18
60 D 9232 CF	⅜	.52	.39	.31
60 D 9233 CF	½	.95	.70	.56
60 D 9234 CF	⅝	1.29	1.03	.82
60 D 9235 CF	¾	1.86	1.40	1.12
60 D 9236 CF	1	3.40	2.55	2.04
60 D 9237 CF	1½	7.00	5.25	4.20

NYLON SHEETS

Same specifications as Nylon Rod above. Sheets are 12"x12". Tolerances: Widths, ±¼", —.000; Lengths, ±¼" —.000; Thickness, ±.031", —.000.

Stock No.	Thickness Inches	PER 12x12" SHEET 1-4	5-9	10 Up
60 D 9239 F	.125	7.20	5.75	4.60
60 D 9240 F	.250	12.75	10.20	9.18
60 D 9241 F	.500	20.50	17.00	15.30

TEFLON® (TFE) SHEETS AND SLABS

Premium grade Teflon in up to 48x48" sheets and up to 2" thick slabs. Tolerances: .062" thick, ±.01", —.000; .125" to .500" thick, ±.015", —.000; 1.000" thick, ±.020", —.000. Specify length and width of sheet when ordering. Minimum order, 1 square foot; maximum size of sheet, 48x48". *Approx. lbs. per 12"x12" sheet.

Stock No.	Thickness Inches	*	PER SQUARE FOOT 2-4 Sq. Ft.	5-9 Sq. Ft.	10-Up Sq. Ft.
60D9205CF	.062	¾	7.65	6.90	6.10
60D9206CF	.125	1½	15.70	14.15	12.55
60D9208CF	.250	3	31.05	27.95	24.85
60D9210CF	.500	6	62.25	56.00	49.80
60D9212CF	1.000	12	124.50	112.05	99.60

LEXAN® ROD

G-E Lexan polycarbonate is dimensionally stable at 265°F, with no brittleness until below —150°F. Low water absorption, highest toughness and impact strength of any thermoplastic. Transparent up to ⅜" diameter. High dielectric strength and volume resistivity. Easily machined. Lexan slabs are 12"x12" in size. Specify Length.

Stock No.	Dia. In.	PER FOOT 1-9'	10-49'	50-99'	100' Up
60 D 9582 CF	⅛	.20	.14	.12	.10
60 D 9583 CF	¼	.45	.36	.29	.25
60 D 9584 CF	⅜	.65	.55	.44	.38
60 D 9585 CF	½	1.10	.93	.78	.70
60 D 9587 CF	¾	2.00	1.70	1.45	1.30
60 D 9588 CF	⅞	2.60	2.21	1.88	1.70
60 D 9589 CF	1	3.35	2.85	2.40	2.16
60 D 9590 CF	1¼	4.80	4.10	3.45	3.10
60 D 9591 CF	1½	7.00	5.60	4.75	4.30

LEXAN® SLAB

Stock No.	Thk., In.	PER 12"x12" SLAB 1-4	5-9	10-24	25-Up
60 D 9594 F	.062	3.75	3.00	2.40	2.16
60 D 9595 F	.125	7.00	5.40	4.60	4.14
60 D 9596 F	.187	11.00	8.80	7.50	6.75
60 D 9597 F	.250	14.60	11.65	10.00	9.00
60 D 9599 F	.500	27.00	21.60	18.50	16.65

KEL-F® CENTERLESS GROUND ROD

For cryogenic use. Tolerances: ⅛" to ½" dia., ±.001"; 1" dia., ±.005", —.001". Minimum order, 1 foot. Specify length when ordering.

Stock No.	Dia. In.	PER FOOT 1-24'	25-99'	100'-Up
60 D 9214 CF	⅛	.60	.45	.40
60 D 9215 CF	3/16	1.10	.80	.72
60 D 9216 CF	¼	1.50	1.20	1.08
60 D 9217 CF	⅜	2.70	2.15	1.93
60 D 9218 CF	½	4.60	3.70	3.33
60 D 9221 CF	1	17.70	14.15	13.40

KEL-F® 12"x12" SHEETS

One foot square sheets in thicknesses from .031" to .125". Thickness tolerance: ±15%, minus .000". For cryogenic applications.

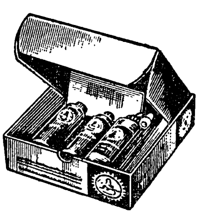
Stock No.	Thick., In.	Lbs./ Sheet	PER SHEET 1-4	5-9
60 D 9224 F	.031	.37	25.35	20.25
60 D 9225 F	.062	.75	27.45	22.00
60 D 9226 F	.125	1.5	48.15	38.50

DELRIN® ROD

DuPont Delrin Acetal Resin. High strength resiliency, easily machinable, excellent electrical properties. Resistant to lubricants and most chemicals. Natural color (white). Low water absorption, plus dimensional stability. Heat distortion temperature at 66 psi, 316-318°F. For use with gears, bearings, screws, bushings, spray nozzles, insulators. Specify number of feet when ordering.

Stock No.	Dia. In.	PER FOOT 1-9'	10-49'	50-99'	100'-Up
60 D 9562 CF	¼	.33	.20	.17	.15
60 D 9563 CF	⅜	.66	.40	.34	.30
60 D 9564 CF	½	1.00	.70	.60	.54
60 D 9565 CF	¾	1.42	1.14	1.02	.92
60 D 9566 CF	⅞	2.00	1.60	1.44	1.30
60 D 9567 CF	1	2.95	2.36	2.12	1.91
60 D 9568 CF	1¼	3.62	2.90	2.61	2.35
60 D 9569 CF	1½	5.00	4.00	3.60	3.24

FLUOROCARBON TEFLON® BONDING KITS



Bonding Kit No. 1. Contains all materials needed to bond "non-bondable" Teflon to itself and other substances. Kit contains a bottle of Teflon treating agent and two tubes of Therma-Blend Epoxy Cement. Treating agent is applied to Teflon surface until it turns permanently brown, then surface is cleaned. Bonding agent is then applied, and parts are fitted together. Cures in about four hours at 300°F, plus 1 hour at 340°F. Comes with complete instructions.

60 D 7037................Per Kit 10.00

Bonding Kit No. 2. For ambient temperature cure. Kit contains all materials in Kit No. 1 (above), but bonding agent supplied with the kit cures at room temperature to form a tough, flexible bond that holds its strength at temperatures up to 175°F. For higher temperature uses, Kit No. 1 should be ordered; material is similar in strength, but requires a higher temperature cure. With complete instructions for use.

60 D 7038................Per Kit 10.00

POLYSTYRENE SHEETS, RODS AND TUBING

High-grade polystyrene is suited to numerous RF applications including VHF, UHF, SHF, due to its extremely low-loss factor. Rods and tubing ideal for coil forms and insulators. Sheets may be used for shielding or dial and gauge glass. High dielectric strength, excellent arc resistance and insulation properties—no moisture absorption. Highly stable under varying climatic conditions—always retain original dimensions, will not warp or stretch. Easily cut to any size—may be sawed, drilled, or tapped.

12"x12" TRANSPARENT POLYSTYRENE

Stock No.	Thickness	Shpg. Wt.	PER SQ. FT. 1-9	10-Up
60 D 9171	1/16"	8 oz.	4.07	3.66
60 D 9172	3/32"	10 oz.	4.70	4.23
60 D 9173	⅛"	12 oz.	5.39	4.85
60 D 9174	3/16"	1 lb.	7.01	6.31
60 D 9175	¼"	1½ lbs.	7.99	7.19

12" POLYSTYRENE RODS

Easily cut to any size for coil forms, etc. Supplied in packages of various quantities. Satin finish except *transparent.

Stock No.	Dia. In.	Pkg. of	Shpg. Wt.	PER PKG. 1-9	10-Up
60 D 6783	⅛*	10	1 lb.	.40	.30
60 D 6784	3/16	5	¾ lb.	.45	.33
60 D 6785	¼	3	¾ lb.	.50	.37
60 D 6786	5/16	3	1 lb.	.65	.49
60 D 6787	⅜	2	10 oz.	.60	.46
60 D 9181	½	1	5 oz.	.55	.44
60 D 9183	¾	1	½ lb.	1.10	.88
60 D 9185	1	1	½ lb.	2.10	1.68

12" POLYSTYRENE TUBING

For a variety of RF applications, including construction of insulators and coil forms. Satin finish, except *transparent. May be cut to any length. Supplied in packages of varying quantities, as shown in table.

Stock No.	O.D. In.	I.D. In.	Pkg. of	Wt. Oz.	PER PKG. 1-9	10-Up
60 D 9186	¼*	⅛	5	8	.70	.52
60 D 9187	5/16*	3/16	3	8	.60	.45
60 D 9188	⅜	¼	3	8	.75	.55
60 D 9189	½	⅜	2	5	.65	.49
60 D 9190	⅝	½	2	6	.75	.58
60 D 9191	¾	⅝	1	4	.45	.37
60 D 9192	1	⅞	1	5	.60	.50

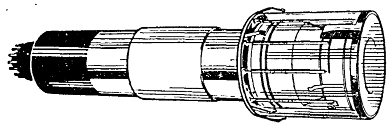
ATTENTION QUANTITY BUYERS

Allied supplies large quantities at OEM prices. Write, wire or phone the Allied facility nearest you for prompt price quotations and for information on any unlisted items.

Special-Purpose Tube Directory

KEY TO NAMES OF MANUFACTURERS

AMP	Amperex Elect. Corp	NU	National Union
DUM	Dumont	PEN	Penta Lab, Inc.
EIM	Eitel-McCullough	RCA	Radio Corp. America
ELEC	Electrons, Inc.	RAY	Raytheon Mfg. Co.
GE	General Electric	SYL	Sylvania Electric
ML	Machlett Lab.	THER	Thermosen, Inc.
MULL	Mullard Products	VIC	Victoreen Instrument
NAT	Nat'l Electronics, Inc.		



- Over **800** Tube Types in Stock from 15 Manufacturers
- All Are Dependable, High-Quality Tubes

Complete selection of high-reliability tubes for almost every purpose. The many photomultipliers, vidicons, and image orthicons listed below are explained on pages 110 and 111. MP indicates matched pair; DI, directly interchangeable. To assure speedy service, give Dept. No. and tube type, thus: 59 D 1—OA2/6073. *Purchases of tube types are billed at current OEM price.*

IMMEDIATE DELIVERY FROM WIDEST STOCKS

Stock No. Dept.	Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1	OA2/6073	RCA	1.32	1.25	1.19	.94
59 D 3	OA2	GE	1.32	1.25	1.18	1.12
59 D 21	OA2/150C2	MULL	1.26	1.20	1.13	1.07
59 D 1	OA2WA	RCA	See 6626/OA2WA			
59 D 1	OA3	RCA	1.54	1.46	1.38	1.30
59 D 3	OA4G	GE	1.90	1.81	1.71	1.62
59 D 12	OA5	SYL	6.96	......	......	......
59 D 1	OB2	RCA	1.37	1.30	1.23	1.16
59 D 3	OB2	GE	1.37	1.30	1.23	1.16
59 D 21	OB2/108C1	MULL	1.32	1.25	1.19	1.12
59 D 1	OB2WA	RCA	2.40	2.28	2.16	1.69
59 D 2	OB3	RAY	2.35	2.23	2.11	......
59 D 3	OB3	GE	2.35	2.23	2.11	......
59 D 1	OC2	RCA	1.50	1.43	1.35	1.28
59 D 1	OC3	RCA	1.50	1.43	1.35	1.28
59 D 1	OD3	RCA	1.44	1.37	1.30	1.22
59 D 3	OD3	GE	1.45	1.38	1.31	1.23
59 D 4	OG3/85A2	AMP	2.30	2.19	2.07	1.96
59 D 21	OG3/85A2	MULL	2.30	2.19	2.07	1.96
59 D 1	OZ4A	RCA	1.12	1.06	1.00	.95
59 D 2	1AD4	RAY	2.80	2.66	2.52	......
59 D 2	1AG4	RAY	7.12	6.76	6.41	6.05
59 D 11	C1A	ELEC	13.65	11.95	10.85	......
59 D 11	C1B	ELEC	15.40	14.63	......	......
59 D 20	1B85	VIC	10.55	9.35	8.10	......
59 D 11	1C	ELEC	10.85	10.31	......	......
59 D 1	1C21	RCA	4.15	3.94	3.74	3.52
59 D 21	1CP1/DH391	MULL	14.50	13.50	12.20	12.20
59 D 12	1D21/SN4	SYL	7.30	7.10	6.90	......
59 D 19	1DP1	NU	20.00	......	......	......
59 D 1	1EP1	RCA	25.75	24.46	23.18	21.89
59 D 11	C1K	ELEC	11.80	11.21	10.62	10.03
59 D 1	C1K/6014	RCA	11.80	11.21	10.62	10.03
59 D 1	1L4	RCA	1.50	1.43	1.35	1.28
59 D 1	1P21	RCA	54.35	51.63	48.29	......
59 D 1	1P22	RCA	15.80	15.01	14.22	......
59 D 1	1P28	RCA	21.50	20.43	19.35	......
59 D 1	1P37	RCA	6.50	6.18	5.85	5.53
59 D 1	1P39	RCA	3.15	2.99	2.84	2.68
59 D 1	1P40	RCA	4.80	4.56	4.32	4.08
59 D 3	1P40	GE	4.10	3.90	3.69	3.49
59 D 1	1P41	RCA	6.00	5.70	5.40	5.10
59 D 1	1P42	RCA	17.95	17.05	16.16	15.26
59 D 9	2-01C	EIM	18.00	17.10	......	......
59 D 9	2-50A	EIM	32.00	30.40	......	......
59 D 1	2AP1A	RCA	19.00	18.05	17.10	16.15
59 D 18	2AS15A	THER	10.00	9.00	8.00	7.00
59 D 1	2BP1	RCA	20.10	19.10	18.09	......
59 D 12	2C36	SYL	50.00	......	......	......
59 D 1	2C39A	RCA	20.75	19.71	......	......
59 D 9	2C39A	EIM	20.75	19.71	......	......
59 D 1	2C39WA	RCA	29.00	27.55	......	......
59 D 1	2C40A	RCA	34.00	32.30	30.60	......
59 D 1	2C43	RCA	26.95	25.60	......	......
59 D 12	2C51	SYL	3.65	3.47	3.29	......
59 D 19	2C53	NU	9.15	8.85	8.40	......
59 D 1	2D21	RCA	1.29	1.23	1.16	1.10
59 D 4	2D21	AMP	1.29	1.23	1.16	1.10
59 D 3	2D21	GE	1.30	1.24	1.17	1.11
59 D 1	2D21W	RCA	2.90	2.76	2.61	2.47
59 D 1	2E24	RCA	6.45	6.13	5.81	5.48
59 D 1	2E26	RCA	3.75	3.56	3.38	3.19
59 D 2	2E32	RAY	6.65	6.32	5.99	5.65
59 D 1 F	2F21	RCA	300.00	285.00	......	......
59 D 3 T	2H21	GE	340.00	......	......	......
59 D 2	2K25	RAY	38.50	......	......	......
59 D 18	2SM15	THER	12.00	11.00	9.60	8.40
59 D 3	2X2A	GE	3.85	3.66	3.47	3.27
59 D 1	2X2A	RCA	3.95	3.75	3.56	3.36
59 D 9 T	3-400Z/8163	EIM	34.00	......	......	......
59 D 1	3A4	RCA	1.25	1.19	1.13	1.06
59 D 1	3A5	RCA	2.03	1.93	1.83	1.73

Stock No. Dept.	Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 3	3B24W	GE	11.25	10.69	......	......
59 D 2	3B24WB	RAY	10.95	10.40	9.87	......
59 D 1	3B25	RCA	9.15	8.59	8.24	7.78
59 D 1	3B28	RCA	7.00	6.65	6.30	5.95
59 D 11	3C	ELEC	11.80	11.21	......	......
59 D 11	3C/L	ELEC	13.00	12.35	......	......
59 D 1	3C23	RCA	11.98	11.38	10.78	10.18
59 D 3	3C23	GE	11.98	11.38	10.78	10.18
59 D 1	3C45	RCA	See 6130/3C45			
59 D 9	3CX100A5/7289	EIM	26.50	25.27	......	......
59 D 9 F	3CX3000A1	EIM	210.00	......	......	......
59 D 9 F	3CX3000F1	EIM	220.00	......	......	......
59 D 9 F	3CX2500A3	EIM	200.00	......	......	......
59 D 9 F	3CX2500F3	EIM	205.00	......	......	......
59 D 1	3D22A	RCA	34.30	32.59	30.87	29.15
59 D 1	3E29	RCA	21.50	20.43	19.35	......
59 D 11	C3J	ELEC	12.70	12.07	11.43	......
59 D 1	C3J/5632	RCA	12.70	12.07	11.43	......
59 D 11	C3J/A	ELEC	13.10	12.45	11.79	......
59 D 1	C3J-A/5684	RCA	13.10	12.45	11.79	......
59 D 11	C3J/L	ELEC	14.20	13.49	12.78	......
59 D 1	3JP1	RCA	26.85	25.51	......	......
59 D 1	3KP1	RCA	27.90	26.51	25.11	......
59 D 1	3RP1	RCA	17.95	17.05	16.16	15.26
59 D 1	3RP1A	RCA	27.65	26.27	......	......
59 D 1	3WP1	RCA	30.05	28.35	......	......
59 D 6 T	3WP7	DUM	35.00	33.25	......	......
59 D 4	4-65A	AMP	27.00	25.65	......	......
59 D 9	4-65A/8165	EIM	27.00	25.65	......	......
59 D 1	4-125A/4D21	RCA	36.00	34.20	32.40	30.60
59 D 9	4-125A/4D21	EIM	36.00	34.20	32.40	30.60
59 D 1	4-250A/5D22	RCA	46.50	44.18	41.85	39.53
59 D 9	4-250A/5D22	EIM	46.50	44.18	41.85	39.53
59 D 9	4-400A/8438	EIM	48.00	45.60	......	......
59 D 9 Z	4-1000A/8160	EIM	131.50	......	......	......
59 D 2	4B31	RAY	32.83	31.19	......	......
59 D 9	4CX250B/7203	EIM	35.60	33.82	......	......
59 D 9	4CX250F/7204	EIM	38.00	......	......	......
59 D 9	4CX250K/8245	EIM	64.00	60.80	......	......
59 D 9	4CX250R/7580W	EIM	44.50	42.75	......	......
59 D 9	4CX300A/8167	EIM	54.00	51.30	......	......
59 D 9	4CX350A/8321	EIM	48.50	46.08	......	......
59 D 9 T	4CX1000A/8168	EIM	181.00	......	......	......
59 D 16	4D21A	PEN	30.50	29.00	......	......
59 D 2	4D32	RAY	42.80	40.66	......	......
59 D 9	4E27A/5-125B	EIM	45.00	42.75	......	......
59 D 11	C4H-2	ELEC	24.35	23.13	......	......
59 D 11	C4H-3	ELEC	24.34	23.13	......	......
59 D 9 T	4PR60B/8252	EIM	107.00	......	......	......
59 D 9 ZF	4W20000A	EIM	2030.00	......	......	......
59 D 9	4X150A/7034	EIM	23.15	21.99	......	......
59 D 9	4X250B	EIM	35.60	33.82	......	......
59 D 1 T	4X500A	RCA	128.50	......	......	......
59 D 9 X	4X500A	EIM	127.50	......	......	......
59 D 1 Z	5ABP1	RCA	35.75	......	......	......
59 D 6 Z	5ADP31	DUM	43.25	41.18	......	......
59 D 6 Z	5ADP1	DUM	42.00	39.00	......	......
59 D 6 Z	5ADP2	DUM	42.00	39.00	......	......
59 D 6 Z	5ADP7	DUM	42.00	39.00	......	......
59 D 6 Z	5AQP1A	DUM	55.30	52.54	......	......
59 D 6 Z	5BHP2AM	DUM	80.50	......	......	......
59 D 1 Z	5BP1A	RCA	35.05	......	......	......
59 D 6 Z	5BP1A	DUM	41.30	39.24	......	......
59 D 1 Z	5CP1A	RCA	37.90	......	......	......
59 D 6 Z	5CP7A	DUM	37.10	......	......	......
59 D 1 Z	5FP4A	RCA	31.45	......	......	......
59 D 6 Z	5LP1AM	DUM	51.10	......	......	......
59 D 3	5R4GYA	GE	2.05	1.95	1.85	1.74
59 D 1	5R4GYB	RCA	2.03	1.93	1.83	1.73
59 D 2	5R4WGA	RAY	8.75	8.31	7.88	7.44
59 D 2	5R4WGB	RAY	13.00	12.35	11.70	11.05

Special-Purpose Tube Directory (Cont'd)

Stock No. Dept.	Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1Z	5UP1	RCA	19.75	17.05	16.16	15.26
59 D 12	5Y3WGTA	SYL	4.05	3.85	3.66	......
59 D 2	6AH6WA	RAY	7.56	7.18	......	......
59 D 1	6AK6	RCA	1.40	1.33	1.26	1.19
59 D 2	6AN5	RAY	4.17	3.96	......	......
59 D 2	6AR6	RAY	5.75	5.46	......	......
59 D 1	6AS6	RCA	3.43	3.26	3.09	2.92
59 D 3	6AS6	GE	3.45	3.28	3.11	2.93
59 D 1	6AS7G	RCA	4.95	4.68	4.44	4.19
59 D 3	6AS7GA	GE	4.95	4.70	4.46	4.20
59 D 1	6AU6WB	RCA	2.70	2.57	2.43	2.30
59 D 11	6B	ELEC	13.00	12.35	......	......
59 D 11	6B/L	ELEC	13.50	12.83	......	......
....	....	.....	......	......	......	......
....	....	.....	......	......	......	......
59 D 11	C6C	ELEC	58.90	......	......	......
59 D 11	6C	ELEC	21.40	20.33	......	......
59 D 12	6D4	SYL	2.85	2.71	2.57	2.42
59 D 4	6DJ8/ECC88	AMP	See ECC88/6DJ8			
59 D 21	6EH7/EF183	MULL	1.93	1.83	1.74	1.64
59 D 4	6EJ7/EF184	AMP	1.93	1.83	1.74	1.64
59 D 21	6EJ7/EF184	MULL	1.93	1.83	1.74	1.64
59 D 11	6F	ELEC	14.15	13.44	......	......
59 D 1	6F4	RCA	14.40	13.68	12.96	12.94
59 D 11	C6H-1	ELEC	29.10	27.65	......	......
59 D 11	C6H-2	ELEC	30.25	28.74	......	......
59 D 11	C6H-3	ELEC	30.25	28.74	......	......
59 D 11	C6J	ELEC	28.10	26.70	......	......
59 D 1	C6J/5C21	RCA	28.10	26.70	......	......
59 D 11	C6J/A	ELEC	29.00	27.55	......	......
59 D 11	C6J/F	ELEC	30.00	28.50	......	......
59 D 11	C6J/K	ELEC	28.30	26.89	......	......
59 D 11	C6J/KL	ELEC	29.45	27.98	......	......
59 D 11	C6J/L	ELEC	29.40	27.93	......	......
59 D 1	6J4	RCA	4.02	3.82	3.60	3.42
59 D 1	6J6WA	RCA	5.35	5.08	4.82	4.55
59 D 6	6Q5G	DUM	10.50	......	......	......
59 D 12	6SL7WGT	SYL	3.15	2.99	......	......
59 D 2	6SN7WGT	RAY	2.34	2.22	2.10	1.99
59 D 2	6X4W	RAY	1.60	1.52	......	......
59 D 12	6X4W	SYL	1.60	1.52	1.45	1.38
59 D 12X	7JP1/7VP1	SYL	43.90	......	......	......
59 D 1Z	7TP4	RCA	75.80	......	......	......
59 D 1Z	7VP1	RCA	31.45	......	......	......
59 D 21	TDO3-10/EL55	MULL	26.50	25.18	23.85	22.53
59 D 1Z	10SP4	RCA	85.00	80.75	......	......
59 D 1	12A6	RCA	3.36	3.19	3.02	2.86
59 D 1	12AT7WA	RCA	2.53	2.40	2.28	2.15
59 D 2	12AT7WA	RAY	2.53	2.40	2.28	2.15
59 D 9T	X-13	EIM	295.00	......	......	......
59 D 11	C16H	ELEC	62.00	58.90	......	......
59 D 11	C16J	ELEC	52.50	49.88	......	......
59 D 1	C16J/5665	RCA	52.50	49.88	......	......
59 D 9	KY21A	EIM	33.80	32.11	......	......
59 D 10	KY21A	NAT	26.75	25.41	24.08	......
59 D 9	RX21A	EIM	32.80	31.16	......	......
59 D 9	25T	EIM	37.00	35.15	......	......
59 D 4	27GB5	AMP	1.83	......	......	......
59 D 3	28D7	GE	4.95	4.70	4.45	......
59 D 4	EL34(6CA7)	AMP	2.60	2.47	2.34	......
59 D 21	EL34(6CA7)	MULL	2.88	2.74	2.59	2.45
59 D 4	EL34/6CA7 MP	AMP	5.45	......	......	......
59 D 21	GZ34(5AR4)	MULL	2.13	2.02	1.92	1.81
59 D 4	GZ34/5AR4	AMP	2.13	2.02	1.92	1.81
59 D 9	35T	EIM	41.00	38.95	......	......
59 D 21	EL37(6L6)	MULL	3.55	3.37	3.20	3.02
59 D 21	EF40	MULL	2.15	2.04	1.94	1.83
59 D 21	E55L	MULL	13.25	12.59	11.93	11.26
59 D 4Z	58AVP	AMP	495.00	......	......	......
59 D 9T	V-58	EIM	290.00	......	......	......
59 D 21	DM70(1M3)	MULL	1.20	1.14	1.08	1.02
59 D 4	Z70U/7710	AMP	1.95	......	......	......
59 D 21	75C1	MULL	2.40	2.28	2.16	2.04
59 D 21	E80CC	MULL	3.30	......	......	......
59 D 21	E80CF	MULL	4.95	4.70	4.46	4.21
59 D 21	EABC80(6AK8)	MULL	1.68	1.60	1.51	1.43
59 D 21	EBF80(6N8)	MULL	1.35	1.28	1.22	1.15
59 D 21	ECF80(6BL8)	MULL	1.88	1.79	1.69	1.60
59 D 21	EF80(6BX6)	MULL	1.53	1.45	1.38	1.30
59 D 21	EZ80(6V4)	MULL	.80	.76	.72	.68
59 D 4	ECC81(12AT7)	AMP	1.43	1.36	1.29	1.22
59 D 21	ECC81(12AT7)	MULL	1.43	1.36	1.29	1.22
59 D 21	ECH81(6AJ8)	MULL	1.40	1.33	1.26	1.19
59 D 21	EM81(6DA5)	MULL	1.48	1.41	1.33	1.26
59 D 21	EZ81(6CA4)	MULL	1.15	1.09	1.04	.98
59 D 4	EZ81	AMP	.98	.93	.88	.83
59 D 4	ECC82(12AU7)	AMP	1.15	1.09	1.03	.97
59 D 21	ECC82(12AU7)DI	MULL	1.15	1.09	1.03	.97
59 D 21	ECF82(6U8)	MULL	1.55	1.47	1.39	1.31
59 D 21	ECL82(6BM8)	MULL	1.45	1.38	1.30	1.23
59 D 21	UCL82(50BM8)	MULL	1.50	1.42	1.35	1.28
59 D 1	83	RCA	1.89	1.80	1.70	1.61
59 D 3	83	GE	1.75	1.66	1.57	1.48
59 D 4	ECC83(12AX7A)	AMP	1.20	1.14	1.08	1.02
59 D 21	ECC83(12AX7)	MULL	1.20	1.14	1.08	1.02
59 D 4	EL84(6BQ5)	AMP	1.13	1.07	1.02	.96
59 D 4	EL84MP(6BQ5)	AMP	2.53	2.40	2.28	2.15
59 D 21	EL84(6BQ5)	MULL	1.15	1.09	1.03	1.01
59 D 21	EM84(6FG6)	MULL	1.68	1.60	1.51	1.43
59 D 21	UL84(45B-5)	MULL	1.35	1.28	1.22	1.05
59 D 21	85A1	MULL	2.50	2.40	2.39	2.10
59 D 21	85A2	MULL	See OG3/85A2			
59 D 21	ECC85(6AQ8)	MULL	1.50	1.43	1.35	1.28
59 D 4	ECC85(6AQ8)	AMP	1.50	1.43	1.35	1.28
59 D 21	EF85(6BY7)	MULL	1.51	1.44	1.36	1.29
59 D 21	ECL86	MULL	1.51	1.44	1.36	1.29
59 D 21	EF86(6267)	MULL	1.30	1.24	1.17	1.11
59 D 21	EL86(6CW5)	MULL	1.55	1.47	1.40	1.32
59 D 21	UF86	MULL	1.62	1.54	1.46	1.38
59 D 21	E88CC	MULL	4.87	4.63	4.38	4.14
59 D 4	ECC88(6DJ8)	AMP	2.13	2.02	1.92	1.81
59 D 21	ECC88(6DJ8)	MULL	2.13	2.02	1.92	1.81
59 D 21	EBF89(6DC8)	MULL	1.53	1.46	1.38	1.31
59 D 21	EF89(6DA6)	MULL	1.42	1.35	1.28	1.21
59 D 21	90C1	MULL	2.25	2.19	2.02	1.75
59 D 4	90NB3(900V)	AMP	27.00	23.00	19.50	15.00
59 D 21	EC90(6C4)	MULL	.88	.83	.79	.74
59 D 21	EL90(6AQ5)	MULL	1.00	.95	.90	.85
59 D 21	EZ90(6X4)	MULL	.80	.76	.72	.68
59 D 21	ECC91(6J6)	MULL	1.33	1.27	1.20	1.14
59 D 21	EF91/6AM6)	MULL	1.55	1.47	1.40	1.32
59 D 21	EF94(6AU6)DI	MULL	.88	.84	.79	......
59 D 21	EF95	MULL	2.25	2.14	2.02	1.91
59 D 21	EL95(6DL5)	MULL	1.55	1.47	1.40	1.32
59 D 9	100TH	EIM	26.00	24.70	......	......
59 D 13U	102A	ML	174.00	......	......	......
59 D 4	AX105/FG105	AMP	53.33	44.40	39.40	......
59 D 3	FG105	GE	59.00	56.05	......	......
59 D 1T	172	RCA	129.00	......	......	......
59 D 3T	FG172	GE	129.00	......	......	......
59 D 16	175A	PEN	52.00	49.40	......	......
59 D 21	E180F	MULL	6.80	6.46	6.12	5.78
59 D 4	200NB/900V	AMP	58.50	49.20	......	......
59 D 9T	VA218	EIM	155.00	......	......	......
59 D 9T	VA218B	EIM	145.00	......	......	......
59 D 9T	VA220C	EIM	150.00	......	......	......
59 D 9T	VA221C	EIM	155.00	......	......	......
59 D 9T	VA221E	EIM	155.00	......	......	......
59 D 9T	VA222E	EIM	155.00	......	......	......
59 D 9T	VA222F	EIM	155.00	......	......	......
59 D 9T	250R	EIM	42.00	......	......	......
59 D 9T	250TH	EIM	45.00	......	......	......
59 D 16	254W	PEN	28.00	26.60	......	......
59 D 3T	FG280	GE	109.00	......	......	......
59 D 4	HF300	AMP	40.50	......	......	......
59 D 9	304TH	EIM	83.00	78.85	74.70	70.55
59 D 9	304TL	EIM	83.00	78.85	74.70	70.55
59 D 12	SA309	SYL	20.40	......	......	......
59 D 13F	356	ML	700.00	......	......	......
59 D 3	393A	GE	13.25	12.59	......	......
59 D 12	GB407A	SYL	5.90	5.61	5.31	5.01
59 D 12	GB408A	SYL	4.95	4.70	4.45	4.21
59 D 3Z	414	GE	280.00	......	......	......
59 D 9Z	450TH	EIM	85.00	......	......	......
59 D 1	502A	RCA	2.28	2.17	2.05	1.94
59 D 3	502A	GE	2.30	2.18	2.07	1.96
59 D 4	Z502S	AMP	13.65	13.65	13.65	10.50
59 D 2	510AX	RAY	4.75	4.51	4.27	4.04
59 D 2	512AX	RAY	4.75	4.51	4.27	4.04
59 D 2	526AX	RAY	7.30	6.94	6.57	......
59 D 2	QKK531	RAY	68.00	......	......	......
59 D 2	533AX	RAY	3.85	3.66	3.47	......
59 D 4	Z550M	AMP	14.50	13.77	13.05	12.00
59 D 1T	575A	RCA	21.00	19.95	18.90	......
59 D 9T	575A	EIM	20.15	......	......	......
59 D 1	579B	RCA	20.50	19.48	18.45	......
59 D 9	592/3-200A3	EIM	55.00	52.25	......	......
59 D 10	604	NAT	11.80	11.21	......	......
59 D 10	604L	NAT	13.00	12.35	......	......
59 D 10	606	NAT	21.40	20.33	......	......
59 D 10	506L	NAT	23.50	22.33	......	......
59 D 10	615	NAT	10.05	9.55	9.05	8.54
59 D 10	616	NAT	11.90	11.30	10.71	10.12
59 D 10	623	NAT	13.35	12.68	12.02	11.34
59 D 1	627	RCA	27.50	......	......	......
59 D 1	629	RCA	18.25	17.34	......	......
59 D 1	632B	RCA	33.00	31.35	29.70	28.05
59 D 10	635/7019	NAT	13.00	12.35	......	......

Please Specify Department No. and Tube Type No. When Ordering

Special-Purpose Tube Directory (Cont'd)

Dept.	Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 10	635L/7020	NAT	13.50	12.83	......	......
59 D 10	635P/6930	NAT	14.15	13.44	......	......
59 D 10	649/5834	NAT	11.15	10.59	10.04	......
59 D 10	660L/7786	NAT	13.50	12.83	......	......
59 D 10	664L	NAT	27.50	26.13	24.75	......
59 D 1	672A	RCA	39.85	37.86	......	......
59 D 1	673	RCA	20.15	19.14	......	......
59 D 1	676	RCA	63.80	......	......	......
59 D 1	677	RCA	63.80	......	......	......
59 D 3	678	GE	49.50	47.03	44.55	......
59 D 10	710/6011	NAT	12.70	12.06	11.43	......
59 D 10	710L/7518	NAT	14.20	13.49	12.78	......
59 D 10	714	NAT	10.00	9.50	......	......
59 D 10	716	NAT	12.50	11.88	......	......
59 D 10	740L	NAT	22.30	21.19	......	......
59 D 10	740P	NAT	22.50	21.38	20.25	......
59 D 10	760	NAT	28.10	26.70	......	......
59 D 10	760L	NAT	29.40	27.93	......	......
59 D 10	760P	NAT	29.40	27.93	......	......
59 D 10	770L	NAT	45.25	42.99	......	......
59 D 4	Z803U/6779	AMP	5.75	4.00	......	......
59 D 4	Z805U/7714	AMP	7.50	7.13	6.75	5.45
59 D 1	807	RCA	3.15	2.99	2.84	2.68
59 D 3	807	GE	3.10	2.95	2.79	2.64
59 D 1	810	RCA	28.60	27.17	......	......
59 D 1	811A	RCA	7.15	6.79	6.43	6.08
59 D 1	812A	RCA	7.60	7.22	6.84	6.08
59 D 1	813	RCA	24.30	23.09	21.37	......
59 D 1	816	RCA	3.60	3.42	3.24	......
59 D 1	828	RCA	32.95	31.30	......	......
59 D 1	829B	RCA	19.85	18.86	17.87	......
59 D 1	832A	RCA	16.65	15.81	14.97	......
59 D 1 T	833A	RCA	61.20	......	......	......
59 D 4 T	833A	AMP	61.20	......	......	......
59 D 1	836	RCA	12.65	12.02	11.38	10.75
59 D 1	837	RCA	13.95	13.25	12.55	......
59 D 1	845	RCA	28.40	26.98	25.56	......
59 D 1 U	857B	RCA	245.00	232.75	......	......
59 D 1	866A	RCA	3.25	3.09	2.93	......
59 D 3	866A	GE	3.25	3.09	2.93	......
59 D 4	866AX	AMP	3.10	2.95	2.79	2.64
59 D 1	868	RCA	6.30	5.99	5.67	5.36
59 D 1 X	869B	RCA	155.00	147.25	139.50	......
59 D 9 X	869B	EIM	138.00	......	......	......
59 D 9 X	869BL	EIM	138.00	......	......	......
59 D 1	872A	RCA	10.85	10.31	9.77	9.22
59 D 3	872A	GE	9.90	9.45	8.91	8.42
59 D 4	872AX	AMP	10.85	10.31	9.77	9.22
59 D 1	884	RCA	2.28	2.17	2.05	1.94
59 D 1 Z	889A	RCA	290.00	275.00	......	......
59 D 1 Z	892	RCA	342.00	......	......	......
59 D 1 Z	892R	RCA	440.00	......	......	......
59 D 1	917	RCA	9.30	8.84	8.37	7.91
59 D 1	918	RCA	6.30	5.99	5.67	5.36
59 D 1	919	RCA	9.65	9.17	......	......
59 D 1	921	RCA	5.20	4.94	......	......
59 D 1	922	RCA	3.45	3.28	......	......
59 D 1	923	RCA	4.70	4.47	......	......
59 D 1	925	RCA	5.00	4.75	......	......
59 D 1	926	RCA	5.20	4.94	......	......
59 D 1	927	RCA	6.00	5.70	......	......
59 D 1	929	RCA	3.45	3.28	......	......
59 D 1	930	RCA	4.95	4.70	3.42	3.23
59 D 3	930	GE	3.80	3.61	3.42	3.23
59 D 1	931A	RCA	12.30	11.68	......	......
59 D 1	931VA	RCA	12.95	12.30	......	......
59 D 1	934	RCA	5.75	5.46	......	......
59 D 1	935	RCA	14.20	13.49	......	......
59 D 1	955	RCA	7.05	6.70	......	......
59 D 1	959	RCA	13.85	13.16	......	......
59 D 1	991	RCA	1.01	.95	.91	......
59 D 9 Z	1000T	EIM	169.00	......	......	......
59 D 4	XP1010	AMP	89.00	85.00	......	......
59 D 2	1020	RAY	12.45	11.83	11.21	10.58
59 D 2	1021	RAY	12.45	11.83	11.21	10.58
59 D 2	1026	RAY	4.80	4.56	4.32	4.08
59 D 4 T	XP1030	AMP	100.00	......	......	......
59 D 4	ZM1030	AMP	9.95	9.95	9.95	8.00
59 D 2	1038	RAY	9.15	8.69	8.24	7.78
59 D 2	CK1047	RAY	4.20	3.99	3.78	......
59 D 4 T	XP1110	AMP	90.00	......	......	......
59 D 4 T	XP1112	AMP	90.00	......	......	......
59 D 12	R1130B	SYL	22.90	21.76	20.61	......
59 D 12	R1131C	SYL	21.60	20.52	19.44	......
59 D 12	1229	SYL	5.35	5.08	......	......
59 D 18	1236C	THER	13.00	12.50	10.40	9.10
59 D 12	GB-1252/6U8A	SYL	2.00	1.90	......	......
59 D 21	ME1400	MULL	6.70	6.37	6.03	......
59 D 1	1612	RCA	5.77	5.48	......	......

Dept.	Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1	1614	RCA	4.93	4.68	4.43	4.19
59 D 1	1616	RCA	15.10	14.35	......	......
59 D 1	1619	RCA	6.23	5.92	......	......
59 D 1	1620	RCA	7.55	7.17	6.80	6.42
59 D 1	1621	RCA	3.85	3.66	......	......
59 D 1	1622	RCA	5.35	5.08	4.82	4.55
59 D 1	1624	RCA	7.90	7.51	7.11	6.72
59 D 1	1625	RCA	5.50	5.23	4.95	4.68
59 D 1	1629	RCA	2.04	1.94	1.84	1.74
59 D 1	1635	RCA	4.20	3.99	......	......
59 D 1	1949	RCA	19.95	18.95	17.96	......
59 D 1	2050	RCA	2.37	2.25	2.13	2.01
59 D 3	2050	GE	2.40	2.28	2.16	2.04
59 D 2	2050A	RAY	2.21	2.09	1.98	1.87
59 D 3	2050A	GE	2.03	1.93	1.83	1.73
59 D 2	2050 W	RAY	7.50	7.13	6.75	6.38
59 D 4 Z	ZB3200	AMP	475.00	......	......	......
59 D 10	NL-4021	NAT	33.00	......	......	......
59 D 12	CT4251/8035	SYL	See 8035/CT4251			
59 D 1 Z	4401-V1	RCA	1320.00	......	......	......
59 D 1 F	4415/S	RCA	1400.00	......	......	......
59 D 1 F	4416/S	RCA	1400.00	......	......	......
59 D 1	4439	RCA	105.00	......	......	......
59 D 1 T	4478	RCA	107.00	101.65	96.30	......
59 D 1 T	4488	RCA	125.00	......	......	......
59 D 1	4513/S	RCA	1400.00	......	......	......
59 D 1	4604	RCA	8.75	8.31	7.88	7.44
59 D 2	5517	RAY	3.80	3.61	......	......
59 D 3	5544	GE	32.50	......	......	......
59 D 4 T	5545	AMP	29.30	25.00	23.10	......
59 D 1	5550	RCA	49.00	......	......	......
59 D 1 Z	5551A	RCA	65.00	......	......	......
59 D 1 Z	5552A	RCA	99.00	......	......	......
59 D 3 Z	5552A	GE	99.00	......	......	......
59 D 3 Z	5553B	GE	245.00	......	......	......
59 D 1	5557	RCA	9.50	9.02	8.55	......
59 D 3	5557/FG17	GE	9.50	9.02	8.55	......
59 D 1	5558	RCA	17.50	16.12	......	......
59 D 3	5558/FG32	GE	17.50	16.63	......	......
59 D 1	5559	RCA	23.00	......	......	......
59 D 3	5559/FG57	GE	23.00	21.85	......	......
59 D 1	5560	RCA	33.00	31.35	29.70	......
59 D 3	5560/FG95	GE	33.00	31.35	29.70	......
59 D 1	5561	RCA	59.00	......	......	......
59 D 1 Z	5563A	RCA	50.00	......	......	......
59 D 13 F	5575/100	ML	225.00	......	......	......
59 D 1	5581	RCA	4.85	4.61	4.37	4.12
59 D 1	5582	RCA	6.30	5.99	......	......
59 D 1	5583	RCA	8.75	8.31	7.88	......
59 D 13 Z	5604	ML	570.00	......	......	......
59 D 13 Z	5606	ML	288.00	......	......	......
59 D 3	5632/C3J	GE	12.70	12.06	......	......
59 D 1	5642	RCA	3.53	3.38	......	......
59 D 1	5651A	RCA	1.78	1.69	1.60	1.51
59 D 3	5651	GE	1.80	1.71	1.62	1.53
59 D 1	5651 WA	RCA	4.70	4.47	4.23	4.00
59 D 1	5653	RCA	2.80	2.66	......	......
59 D 1	5654	RCA	2.41	2.28	2.16	2.04
59 D 1	5654/6AK5W	RCA	2.45	2.33	2.23	2.08
59 D 3	5654/6AK5W	GE	2.45	2.33	2.23	2.08
59 D 1	5654/6AK5W/6096	RCA	2.45	2.33	2.23	2.08
59 D 2	5656	RAY	16.56	15.73	......	......
59 D 10	5665/C16J	NAT	52.50	49.88	......	......
59 D 13 Z	5667	ML	370.00	......	......	......
59 D 1	5670	RCA	2.45	2.33	2.21	2.08
59 D 3	5670	GE	2.45	2.33	2.21	2.08
59 D 1	5670 WA	RCA	2.45	2.33	2.21	2.08
59 D 2	5672	RAY	2.27	2.16	......	......
59 D 1	5675	RCA	8.95	8.50	8.05	7.60
59 D 2	5676	RAY	3.05	2.90	......	......
59 D 10	5684/C3JA	NAT	13.10	12.45	11.79	......
59 D 3	5686	GE	3.40	3.23	3.06	2.89
59 D 1	5686	RCA	3.37	3.20	3.03	2.86
59 D 1	5687	RCA	4.05	3.84	3.65	3.45
59 D 3	5687	GE	4.00	3.80	3.60	3.40
59 D 3	5687 WA	GE	5.70	5.42	5.13	4.85
59 D 1	5691	RCA	8.75	8.31	7.87	7.43
59 D 1	5692	RCA	8.25	7.83	7.43	7.10
59 D 1	5693	RCA	6.60	6.27	5.94	5.61
59 D 3	5693	GE	6.60	6.27	5.94	5.61
59 D 1	5696	RCA	1.95	1.85	1.75	1.66
59 D 2	5702	RAY	4.20	3.99	......	......
59 D 2	5702 WA	RAY	6.48	6.15	......	......
59 D 2	5703	RAY	2.65	2.52	......	......
59 D 2	5703 WA	RAY	7.07	6.71	......	......
59 D 1 T	5713	RCA	420.00	......	......	......
59 D 1	5718	RCA	3.65	3.47	......	......
59 D 2 U	5721	RAY	116.00	......	......	......

Stock No. Dept.	Stock No. Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1	5725	RCA	3.15	2.99	2.83	2.68
59 D 3	5725/6AS6W	GE	3.15	2.99	2.83	2.68
59 D 1	5726	RCA	1.55	1.47	1.40	1.32
59 D 1	5727/6AL5W	RCA	1.55	1.47	1.40	1.32
59 D 1	5727	RCA	2.90	2.76	2.61	2.47
59 D 1	5727/2D21W	RCA	2.90	2.76	2.61	2.47
59 D 3	5727/2D21W	GE	2.90	2.76	2.61	2.47
59 D 1	5734	RCA	22.05	20.95	19.85	......
59 D 3 U	5736	GE	205.00	......	......	......
59 D 1	5749	RCA	2.20	2.09	1.98	1.87
59 D 3	5749/6BA6W	GE	2.20	2.09	1.98	1.87
59 D 1	5750	RCA	3.45	3.28	3.11	2.93
59 D 1	5751	RCA	2.55	2.42	2.30	2.17
59 D 3	5751	GE	2.55	2.42	2.30	2.17
59 D 1	5751WA	RCA	2.55	2.42	2.30	2.17
59 D 2	5755	RAY	8.45	8.02	......	......
59 D 1 U	5762/7C24	RCA	240.00	216.00	......	......
59 D 1	5763	RCA	2.45	2.33	2.21	2.08
59 D 2	5784	RAY	5.00	4.75	......	......
59 D 1 T	5786	RCA	240.00	......	......	......
59 D 1	5814A	RCA	2.35	2.23	2.12	2.00
59 D 3	5814A	GE	2.35	2.23	2.12	2.00
59 D 1	5814WA	RCA	2.40	2.28	2.16	2.04
59 D 1	5819	RCA	64.25	61.04	......	......
59 D 1	5820A	RCA	1100.00	......	......	......
59 D 3 F	5820A	GE	1100.00	......	......	......
59 D 1	5820AL	RCA	1800.00	......	......	......
59 D 1	5823	RCA	1.72	1.63	1.55	1.46
59 D 3	5824	GE	3.60	3.42	3.24	3.06
59 D 1	5825	RCA	26.45	......	......	......
59 D 2	5837	RAY	69.00	......	......	......
59 D 1	5840	RCA	5.35	5.08	4.82	4.55
59 D 20	5841	VIC	7.70	7.32	6.93	6.55
59 D 2	5842	RAY	7.40	7.03	6.66	6.29
59 D 4	5842	AMP	7.35	6.25	5.30	......
59 D 1	5842/417A	RCA	7.35	6.98	6.62	6.25
59 D 3	5844	GE	2.30	2.19	2.07	1.96
59 D 12	5845	SYL	9.95	9.45	8.96	......
59 D 4	5847	AMP	9.55	8.20	7.65	......
59 D 1	5847/404A	RCA	9.55	8.20	7.65	......
59 D 3 T	5855	GE	85.00	......	......	......
59 D 4	5866A	AMP	23.30	21.40	19.50	......
59 D 4	5867A	AMP	32.45	......	......	......
59 D 9	5867A	EIM	30.60	......	......	......
59 D 4 Z	5868	AMP	55.00	......	......	......
59 D 4	5869	AMP	25.00	23.40	20.90	......
59 D 1	5876	RCA	8.60	8.17	7.74	7.31
59 D 1	5876A	RCA	8.60	8.17	7.74	7.31
59 D 3	5879	GE	1.85	1.76	1.67	1.57
59 D 2	5879	RAY	1.95	1.85	1.76	......
59 D 3	5881	GE	3.50	3.33	3.15	2.98
59 D 3	5881MP	GE	7.85	......	......	......
59 D 2	5886	RAY	5.00	4.75	......	......
59 D 2	5889	RAY	19.70	18.72	17.73	......
59 D 4	5894	AMP	25.55	24.00	......	......
59 D 1	5899	RCA	5.55	5.27	5.00	4.72
59 D 1	5902	RCA	4.80	4.56	4.32	4.08
59 D 1	5915	RCA	1.62	1.54	1.46	1.38
59 D 12	GB-5993	SYL	12.35	11.73	......	......
59 D 1	5963	RCA	1.36	1.29	1.22	1.16
59 D 3	5963	GE	1.50	1.43	1.35	1.28
59 D 1	5964	RCA	1.55	1.47	1.40	1.32
59 D 1	5965	RCA	1.92	1.82	1.73	1.63
59 D 3	5965A	GE	1.90	1.71	1.71	1.62
59 D 2	5976	RAY	68.00	......	......	......
59 D 1	6005	RCA	3.23	3.07	2.91	2.75
59 D 3	6005	GE	3.25	3.09	2.93	2.76
59 D 4	6007	AMP	1.72	1.63	1.55	1.46
59 D 3	6011/710	GE	12.70	......	......	......
59 D 1	6012	RCA	7.65	7.27	6.89	6.50
59 D 1	6021	RCA	3.50	3.33	3.15	2.98
59 D 1	6072	RCA	3.90	3.71	3.51	3.32
59 D 3	6072A	GE	3.90	3.71	3.51	......
59 D 1	6073	RCA	3.00	2.85	......	......
59 D 1	6074	RCA	3.45	3.28	3.11	......
59 D 4 Z	6076	AMP	305.00	......	......	......
59 D 1	6080	RCA	5.33	5.06	4.80	4.53
59 D 1	6080WA	RCA	10.80	......	......	......
59 D 1	6082	RCA	5.60	5.32	......	......
59 D 3	6087/5Y3WGTB	GE	5.75	5.46	5.17	4.89
59 D 2	6088	RAY	3.05	2.90	2.75	2.59
59 D 1	6101	RCA	5.35	5.08	......	......
59 D 1	6111	RCA	3.70	3.52	3.33	3.15
59 D 1	6112	RCA	4.15	3.94	3.74	3.53
59 D 1	6130/3C45	RCA	19.85	......	......	......
59 D 1	6136	RCA	2.70	2.57	2.43	2.30
59 D 3	6136	GE	2.70	2.57	2.43	2.30
59 D 12	6146A	SYL	4.35	4.13	3.92	3.70
59 D 1	6146A	RCA	4.35	4.13	3.92	3.70

Stock No. Dept.	Stock No. Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1	6146B/8298A	RCA	5.20	4.94	4.68	4.42
59 D 1	6146W/7212	RCA	6.75	6.41	6.08	5.74
59 D 1	6155/4-125A	RCA	36.00	34.20	......	......
59 D 1	6159	RCA	4.80	4.56	4.32	4.08
59 D 1	6159W/7357	RCA	6.75	6.41	6.08	5.74
59 D 3 T	6161	GE	125.00	......	......	......
59 D 1 F	6166A/7007	RCA	1005.00	......	......	......
59 D 1	6173	RCA	13.35	......	......	......
59 D 1 F	6181	RCA	1110.00	......	......	......
59 D 1	6186/6AG5WA	RCA	3.85	3.66	......	......
59 D 1	6189/12AU7WA	RCA	3.70	3.52	3.33	3.15
59 D 1	6197	RCA	2.30	2.19	2.07	1.96
59 D 1	6199	RCA	47.20	44.83	......	......
59 D 1	6201	RCA	2.95	2.80	2.66	2.51
59 D 3	6201	GE	2.55	2.42	2.29	2.17
59 D 3	6202	GE	4.10	3.90	3.69	3.49
59 D 3	6203	GE	4.10	3.95	3.69	3.49
59 D 1	6211	RCA	2.15	2.04	1.94	1.83
59 D 3	6211A	GE	2.35	2.23	2.12	2.00
59 D 3	6216	GE	4.00	3.80	3.60	3.40
59 D 1 T	6217	RCA	72.00	......	......	......
59 D 3 F	6251	GE	2790.00	......	......	......
59 D 4	6252	AMP	25.00	23.20	21.60	......
59 D 3	6265	GE	4.10	3.90	3.70	......
59 D 4	6267/EF86	AMP	1.30	1.23	1.17	1.10
59 D 4	6279	AMP	45.00	42.40	38.40	......
59 D 6	6291	DUM	63.00	......	......	......
59 D 6	6292	DUM	63.00	......	......	......
59 D 1	6293	RCA	5.95	5.65	5.36	5.06
59 D 3	6299	GE	56.00	......	......	......
59 D 1	6336A	RCA	19.04	18.08	17.14	16.18
59 D 1	6342A	RCA	57.20	......	......	......
59 D 1	6350	RCA	1.85	1.76	1.67	1.57
59 D 4	6360	AMP	4.95	4.70	4.40	4.10
59 D 4	6360A	AMP	4.95	4.70	4.40	4.10
59 D 6 U	6362	DUM	133.00	......	......	......
59 D 6 T	6363	DUM	122.50	......	......	......
59 D 1	6386	RCA	7.38	7.01	6.64	6.27
59 D 2	6397	RAY	8.30	7.89	6.64	6.27
59 D 1	6417	RCA	3.33	3.16	......	......
59 D 2	6418	RAY	3.20	3.04	2.88	2.72
59 D 13	6442	ML	39.00	......	......	......
59 D 3	6463	GE	1.90	1.81	1.71	1.62
59 D 4	6463	AMP	3.50	3.33	3.15	2.97
59 D 6	6467	DUM	63.00	......	......	......
59 D 12	6476A	SYL	14.95	......	......	......
59 D 12	6481	SYL	50.00	......	......	......
59 D 12	6483	SYL	3.09	......	......	......
59 D 2	6485	RAY	2.05	......	......	......
59 D 2	6528	RAY	21.55	20.47	19.40	18.32
59 D 1	6550	RCA	4.59	4.36	4.13	3.90
59 D 1	6550VI	RCA	9.25	......	......	......
59 D 16	6569	PEN	39.75	37.76	......	......
59 D 1	6626/OA2WA	RCA	3.35	3.18	3.02	2.85
59 D 1	6655A	RCA	54.35	51.63	......	......
59 D 1	6661/6BH6	RCA	1.34	1.27	1.21	1.14
59 D 1	6663/6AL5	RCA	.92	.87	......	......
59 D 1	6677/6CL6	RCA	1.85	1.76	1.67	1.57
59 D 1	6678/6U8A	RCA	1.62	1.54	1.46	1.38
59 D 1	6679/12AT7	RCA	1.50	1.43	1.35	1.28
59 D 1	6680/12AU7A	RCA	1.22	1.16	1.10	1.04
59 D 4	6688A	AMP	6.80	6.42	6.02	......
59 D 9 F	6697A	EIM	1330.00	......	......	......
59 D 3	6771	GE	71.90	......	......	......
59 D 16	6775	PEN	51.00	48.45	......	......
59 D 12	6802	SYL	11.42	......	......	......
59 D 3	6807	GE	32.25	......	......	......
59 D 3	6808	GE	32.90	......	......	......
59 D 1 Z	6810A	RCA	195.00	......	......	......
59 D 1	6816	RCA	52.90	......	......	......
59 D 19	6842	NU	14.00	......	......	......
59 D 20	6842	VIC	14.00	......	......	......
59 D 10	NL6844A	NAT	11.00	......	......	......
59 D 1	6850	RCA	20.70	......	......	......
59 D 3	6858/760	GE	28.10	......	......	......
59 D 1	6883	RCA	4.30	4.09	3.87	3.66
59 D 1	6884	RCA	45.75	......	......	......
59 D 1 X	6894	RCA	25.70	24.40	......	......
59 D 10	6895	NAT	25.70	24.40	......	......
59 D 3	6897	GE	32.15	29.54	......	......
59 D 3	6907	GE	27.00	......	......	......
59 D 4	6907	AMP	25.00	23.20	21.10	19.00
59 D 2	6909	RAY	11.43	......	......	......
59 D 12	6910	SYL	13.37	......	......	......
59 D 6 U	6911	DUM	126.00	......	......	......
59 D 1 T	6914A	RCA	150.00	......	......	......
59 D 1	6922	RCA	4.87	4.35	3.95	3.48
59 D 2	6922	RAY	4.75	4.51	4.28	4.04
59 D 4	6922M	AMP	5.25	4.60	4.26	......

Please Specify Department No. and Tube Type No. When Ordering

Special-Purpose Tube Directory (Cont'd)

Stock No. Dept.	Stock No. Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 4	6922/E88CC	AMP	4.87	4.25	4.00	3.73
59 D 1 U	6929	RCA	97.00	......	......	......
59 D 1	6939	RCA	11.37	10.80	10.23	9.66
59 D 4 T	6960	AMP	162.50	......	......	......
59 D 4	6977	AMP	2.50	2.12	1.93	1.19
59 D 10	6989/C6J/KL	NAT	29.45	27.98	......	......
59 D 10	6989-NE	NAT	33.90	32.21	......	......
59 D 13 Z	7007	ML	1020.00	......	......	......
59 D 10	NL7009	NAT	19.00	......	......	......
59 D 21	7025	MULL	1.40	1.33	1.26	1.19
59 D 1	7034/4X150A	RCA	25.00	23.75	......	......
59 D 10	7037	NAT	26.50	25.00	......	......
59 D 1 T	7038	RCA	185.00	......	......	......
59 D 3	7044	GE	2.70	2.57	2.43	2.29
59 D 1	7054	RCA	1.54	1.46	1.39	1.30
59 D 1	7055	RCA	1.00	.95	......	......
59 D 1	7056	RCA	.92	.87	.83	.78
59 D 1	7059	RCA	1.48	1.41	1.33	1.26
59 D 1	7060	RCA	1.75	1.66	1.58	1.49
59 D 1	7061	RCA	1.29	1.23	1.16	1.09
59 D 4	7062	AMP	2.39	2.27	2.15	2.03
59 D 3	7077	GE	39.05	......	......	......
59 D 4 Z	7091/7092	AMP	425.00	......	......	......
59 D 1	7094	RCA	35.45	33.68	......	......
59 D 10	NL7094	NAT	30.00	......	......	......
59 D 1 T	7102	RCA	110.00	......	......	......
59 D 1	7117	RCA	12.02	11.39	......	......
59 D 4	7119	AMP	2.95	2.48	2.30	2.03
59 D 4 X	7136	AMP	27.90	......	......	......
59 D 3	7167	GE	1.45	1.38	1.31	1.23
59 D 21	7189	MULL	1.35	1.29	1.20	1.15
59 D 1 F	7200	RCA	190.00	......	......	......
59 D 1	7203/4CX250B	RCA	35.75	33.96	......	......
59 D 1 F	7213	RCA	410.00	......	......	......
59 D 3 T	7226	GE	315.00	......	......	......
59 D 3	7233	GE	2.40	2.28	2.16	2.04
59 D 19	7234	NU	15.65	15.35	......	......
59 D 19	7235	NU	10.00	9.80	9.65	......
59 D 3	7239	GE	6.25	5.94	5.62	5.31
59 D 21	7247	MULL	1.60	1.52	1.44	1.36
59 D 3 T	7262A	GE	250.00	......	......	......
59 D 3 T	7263A	GE	430.00	......	......	......
59 D 3	7266	GE	35.44	......	......	......
59 D 9	7289/3CX100A5	EIM	(See 3CX100A5)			
59 D 1 F	7293AL	RCA	1800.00	......	......	......
59 D 1	7293A	RCA	1300.00	......	......	......
59 D 1 F	7295B	RCA	1440.00	......	......	......
59 D 3	7296	GE	49.61	47.13	......	......
59 D 4	7308	AMP	5.20	4.65	4.33	3.83
59 D 4	7316	AMP	1.40	1.17	.94	.88
59 D 12 U	7325	SYL	185.00	......	......	......
59 D 1 T	7326	RCA	410.00	......	......	......
59 D 1	7360	RCA	3.77	3.58	3.39	......
59 D 3	7370	GE	10.80	10.26	9.72	......
59 D 1 F	7389B	RCA	1440.00	......	......	......
59 D 1 F	7513L	RCA	1800.00	......	......	......
59 D 1 F	7513/S	RCA	1400.00	......	......	......
59 D 12	GB7550	SYL	13.25	......	......	......
59 D 1	7551	RCA	3.37	3.20	3.03	......
59 D 1	7554	RCA	40.00	38.50	......	......
59 D 1	7558	RCA	3.49	3.32	3.14	2.97
59 D 1	7586	RCA	3.35	3.18	3.02	2.85
59 D 1	7587	RCA	5.20	4.94	4.68	4.42
59 D 3	7588	GE	101.59	96.51	......	......
59 D 3	7644	GE	65.00	......	......	......
59 D 1 F	7650	RCA	290.00	......	......	......
59 D 3 T	7697	GE	185.00	......	......	......
59 D 13 T	7698	ML	88.50	......	......	......
59 D 3	7716	GE	1.75	1.66	1.57	......
59 D 10	7723/610-NE	NAT	13.10	12.45	......	......
59 D 2	7732	RAY	1.78	1.69	1.60	1.51
59 D 3 T	7735A	GE	185.00	......	......	......
59 D 1 T	7735B	RCA	185.00	......	......	......
59 D 4	7737	AMP	7.20	......	......	......
59 D 12	GB7738	SYL	2.80	2.66	......	......
59 D 1 T	7764	RCA	125.00	......	......	......
59 D 1 T	7767	RCA	120.00	......	......	......
59 D 3	7768	GE	111.04	......	......	......
59 D 10	7786/660L-NE	NAT	15.50	......	......	......
59 D 4	7788	AMP	9.75	9.26	8.78	8.29
59 D 12	7887	SYL	6.70	6.37	......	......
59 D 12	7889	SYL	6.70	6.37	......	......
59 D 1	7895	RCA	3.35	3.18	3.02	2.85
59 D 1	7898	RCA	1.34	1.27	1.21	1.14
59 D 4 U	7900	AMP	250.00	......	......	......
59 D 1	7905	RCA	3.85	3.68	3.47	3.27
59 D 12	7963	SYL	7.50	7.13	......	......
59 D 10	NL7977/4032	NAT	33.00	......	......	......
59 D 3	7984	GE	5.35	5.08	4.82	4.54

Stock No. Dept.	Stock No. Tube Type	Mfr.	EACH 1-4	5-18	19-49	50-Up
59 D 1	8000	RCA	25.00	23.75	......	......
59 D 1	8005	RCA	17.75	......	......	......
59 D 1	8008	RCA	11.80	11.21	10.62	10.03
59 D 12	8008	SYL	11.80	11.21	10.62	10.03
59 D 4	8008AX	AMP	10.85	10.31	9.77	9.22
59 D 1	8013A	RCA	19.80	18.81	......	......
59 D 1	8020	RCA	16.00	15.20	......	......
59 D 1	8032	RCA	4.95	4.70	4.46	4.21
59 D 12	8035	SYL	11.10	......	......	......
59 D 1 X	8053	RCA	107.25	101.89	96.30	......
59 D 1 T	8054	RCA	125.00	118.75	112.50	......
59 D 1 U	8055	RCA	170.00	161.50	......	......
59 D 1	8056	RCA	5.00	4.75	4.50	4.25
59 D 1	8058	RCA	13.25	12.59	11.93	11.26
59 D 3	8068	GE	3.60	3.42	3.24	3.06
59 D 12	8071	SYL	7.50	7.13	......	......
59 D 1	8072	RCA	20.10	......	......	......
59 D 1	8077/7054	RCA	1.50	1.43	1.35	1.28
59 D 10	NL8091	NAT	30.00	......	......	......
59 D 1 F	8092A/S	RCA	1870.00	......	......	......
59 D 1 F	8092A	RCA	1870.00	......	......	......
59 D 12	8103	SYL	7.50	7.13	......	......
59 D4	8117	AMP	29.00	28.00	26.00	......
59 D1	8121	RCA	25.80	......	......	......
59 D1	8122	RCA	31.50	......	......	......
59 D 1 T	8134/VI	RCA	405.00	......	......	......
59 D 3	8136	GE	2.50	2.35	2.25	2.13
59 D 4 Z	8163/3-400Z	AMP	34.00	......	......	......
59 D 16U	8166/4-1000A	PEN	131.50	......	......	......
59 D 1	8203	RCA	3.80	3.61	3.42	3.23
59 D 4	8228	AMP	2.90	2.68	2.44	2.15
59 D 4	8233	AMP	13.25	12.00	10.50	......
59 D 4	8254/EC1000	AMP	17.00	......	......	......
59 D 4 Z	8270	AMP	66.25	......	......	......
59 D 16 T	8295/172	PEN	157.00	......	......	......
59 D 12	8353	SYL	11.10	......	......	......
59 D 1	8393	RCA	3.45	3.27	3.11	2.93
59 D 10	NL8421/5092	NAT	15.75	......	......	......
59 D 10	NL8422/5991	NAT	15.75	......	......	......
59 D 16 T	8432	PEN	162.00	......	......	......
59 D 4 T	8436	AMP	335.00	......	......	......
59 D 1	8480	RCA	820.00	......	......	......
59 D 1 F	8480/VI	RCA	1200.00	......	......	......
59 D 4 Z	8483	AMP	185.00	......	......	......
59 D 1 T	8507	RCA	250.00	......	......	......
59 D 3 T	8507	GE	250.00	......	......	......
59 D 3 T	8511	GE	315.00	......	......	......
59 D 3 T	8541	GE	310.00	......	......	......
59 D 1 Z	8572	RCA	260.00	......	......	......
59 D 1	9001	RCA	5.38	5.11	4.84	4.57
59 D 1	9002	RCA	4.14	3.93	3.73	3.52
59 D 1	9003	RCA	5.38	5.11	4.84	4.57

POPULAR TV PICTURE TUBES

- All Tubes Guaranteed for 1 Year*
- Most Popular Tube Types Listed Below
- Replace Almost All Existing Tube Types

All replacement picture tubes shipped from complete stocks of GE or RCA. In case of alternate, interchangeable tubes, whichever is in stock at time of order will be shipped. All materials and parts in tubes are new, except envelopes, which are factory inspected to meet standards of originals. *All tubes guaranteed one full year. To return defective "within warranty" tube, ship to us prepaid. We will ship replacement prepaid. Av. shpg. wt. per tube, 35 lbs.

Ship.	Tube Type	EACH	Ship.	Tube Type	EACH
U	17DQP4	26.61	Z	21DSP4	25.98
Z	19AVP4	30.12	Z	21FP4D	26.85
Z	21AMP4B	21.40	Z	21YP4B	20.40
Z	21CBP4A	21.40	Z	21ZP4C	20.40
Z	21DEP4A	30.69	Z	23BLP4	45.25
Z	21DFP4	30.69	Z	24AEP4	33.29

TO ORDER: Specify Full Stock No., Which Consists of Three Parts. 1. The Numbers 25 D 28. 2. The Method of Shipment from "Ship" Column; "U" for Truck or Express, "Z" for Freight. 3. The Tube Type No. Example: 25 D 28 Z 19AVP4.

See the following pages for complete specifications and technical characteristics of the many photomultipliers, vidicons, and image orthicons listed in this directory.

Color and/or Monochrome Image Orthicons

COLOR CAPABILITY CAMERA TUBES

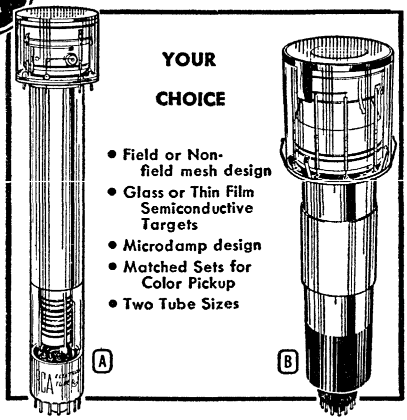


Image orthicons are designed to be used primarily for outdoor and studio, black-and-white or color, live broadcast TV pickup. They are employed extensively in many military, industrial, and scientific research television systems. Feature precision construction, with a wide variety of tube design features. See above right for particulars.

Field Mesh: prevents "beam-bending" and "overshoots"; adds sharpness; improves registration. **Micromesh:** 750 openings per linear inch; prevents mesh pattern and moire effects, without defocusing. Targets: optical glass with 0.0001" thickness tol. **Control Grids:** gold-plated to reduce thermionic emission. **Super Dynode:** first in multiplier section of nonfield-mesh tubes; eliminates "dynode-burn" and dark-shading." **High-Gain Dynode:** first in multiplier section of field-mesh tubes; increases output S/N ratio and signal output level. **Dynodes:** precision formed, spaced and aligned.

Types 5820A, 5820A/L. Monochrome. For studio or remote use. Offer exceptional uniformity from tube to tube. 15.45x3" dia. /L—long-life target.
Type 4401V1. Same as above, but more sensitive.
Types 7293A, 7293A/L. Monochrome. Field mesh type for studio or remote use. Anti-ghost image section, high gain dynode. 15.45x3" diameter. /L indicates long-life target.

Types 4415/S, 4416/S. Matched set for Panchromatic color. Field mesh type. 4415/S, red and green channels, 4416/S, blue channel. 15.45x3" diameter.
Types 7513/S, 4513/S. Matched set for Panchromatic. Same as above, but features precision construction, higher target capacitance and S/N ratio.
Type 7513/L. As above, but unmatched.

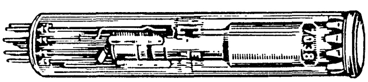
Type 7295/B. Monochrome. 4½" field mesh type. Usable area nearly three times greater than 3" diameter types. 19.45x4½" diameter. Gives greater resolution, and higher S/N ratio.
Type 7389/B. Monochrome. 4½" diameter for live studio pickup and tape recording service. Has higher target capacitance, S/N ratio than 7295/B.

*Typical operating light level. †Typical S/N, bandwidth of 4.5 mc. §At f5.6, 80% lens transmission, 60% highlight scene reflection. /S at end of Tube Type No. indicates matched tube set for color pickup. Suffix letter /L in Tube Type No. indicates long-life target, carries 1200 hour warranty. Target-Mesh Cap. in picafarads (pf).

IMAGE ORTHICONS

Stock No. Dept.	Type Tube	Fig.	Operating Point Lens-Stop to Knee	Tube-Face FC for Oper. Point	§Min. Scene Ill. (FC)	*Response at 400 TV Lines	*Limiting Resolution	†Target Volts Above Cutoff 2	†Target Volts Above Cutoff 2.3	Target Mesh Cap.	EACH
59 D I Z	4401V1	B	1 to 2	$1.4x10^{-2}$	4	60%	625 lines	40:1	...	100pf	1320.00
59 D I ZF	4415/S	B	...	$1x10^{-2}$	50	55%	675 lines	37:1	...	120pf	1400.00
59 D I ZF	4416/S	B	...	$1x10^{-2}$	50	55%	675 lines	37:1	...	120pf	1400.00
59 D I ZF	5820A	B	1 to 2	$2x10^{-2}$	5	60%	625 lines	45:1	...	100pf	1100.00
59 D I ZF	5820A/L	B	1 to 2	$2x10^{-2}$	5	60%	625 lines	45:1	...	100pf	1800.00
59 D I ZF	7293A	B	1 to 2	$2x10^{-2}$	5	60%	675 lines	......45:1	...	100pf	1300.00
59 D I FF	7293A/L	B	1 to 2	$2x10^{-2}$	5	60%	675 lines	45:1	...	100pf	1800.00
59 D I ZF	7295B	A	1	$6x10^{-2}$	5	75%	800 lines	...	75:1	300pf	1440.00
59 D I ZF	7389B	B	½	$7x10^{-2}$	24	75%	800 lines	...	95:1	600pf	1440.00
59 D I ZF	7513/L	B	...	$3x10^{-2}$	250	55%	675 lines	55:1	...	300pf	1800.00
59 D I ZF	7513/S	B	...	$3x10^{-2}$	250	55%	675 lines	55:1	...	300pf	1400.00
59 D I ZF	4513/S	B	...	$3x10^{-2}$	250	55%	675 lines	55:1	...	300pf	1400.00
59 D I ZF	8092A	B	1 (color)	$7x10^{-3}$	2	65%	600 lines	37:1	...	...	1870.00
59 D I ZF	8092A/S	B	1 (color)	$7x10^{-3}$	2	65%	600 lines	37:1	...	...	1870.00

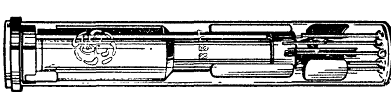
VIDICONS FOR BROADCAST AND INDUSTRIAL CLOSED-CIRCUIT TV SYSTEMS



Vidicons are designed primarily for TV film studio pickup service and closed circuit TV applications. For either color or black-and-white film pickup, data transmission, remote monitor systems, and space exploration. Feature high uniformity and quality, low lag characteristics, and extremely high sensitivity.

Stock No. Dept.	Type	Dia.	Max. Lgth.	Description	EACH
59 D I T	4478	1"	6.5"	High effective sensitivity, gen. purp.	107.00
59 D I T	4488	1"	6.5"	Like 4478 but more sensitive	125.00
59 D I T	7038	1"	6.5"	For broadcast studio pickup	185.00
59 D I T	7735B	1"	6.5"	For live pickup.	185.00
59 D I T	8134/VI	1"	6.5"	For color film pickup.	405.00
59 D I ZF	8480	1½"	10.4"	For monochrome film pickup.	820.00
59 D I ZF	8480/VI	1½"	10.4"	For color film pickup.	1200.00
59 D I T	8507	1"	6.4"	For industrial service pickup.	250.00
59 D I T	8572	1"	6.4"	For broadcast studio pickup.	260.00

HIGH-STANDARD VIDICON TV CAMERA TUBES



SEPARATE FIELD MESH VIDICONS

Provide extended resolution of 1000 TV lines with higher amplitude response of 70% at 400 TV lines. It may be necessary to modify existing cameras to use these tubes.

Stock No. Dept.	Type	Application	EACH
59 D 3 T	8507	High sensitivity for live pickup	250.00
59 D 3 T	8541	High sensitivity; low heater-power	310.00

VIDICONS

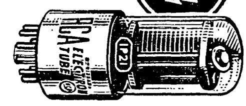
Meet wide variety of TV requirements as found in broadcast service as well as industrial use. Specifically designed for studio, remote, and industrial applications. Feature low lag characteristics, at low light levels encountered in applications that employ remote pickups.

Stock No. Dept.	Type	Description	EACH
59 D 3 T	7735A	Highest sensitivity for live pickup	185.00
59 D 3 T	7697	Automatic sensitivity-control cameras	185.00
59 D 3 T	7226	Short vidicon for transistorized cameras	315.00
59 D 3 T	8511	Short vidicon; heater power 0.6 watt	315.00
59 D 3 T	7262A	Short vidicon, high sensitivity; 0.6 w. htr.	250.00
59 D 3 T	7263A	Ruggedized short vidicon; 0.6 w. heater	430.00

See Page 384 for Closed-Circuit TV Listings

Photomultiplier Tubes and Nuvistors

PHOTOMULTIPLIERS, GAS AND VACUUM PHOTODIODES



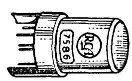
Photomultipliers. Offer a remarkable range of applications, including fast-coincidence scintillation counting, sorting, selecting, sound reproduction, colorimetry, ultraviolet radiation detection, facsimile transmission, imaging, light operated relays, etc. Designed to operate with extremely low light levels, they feature excellent frequency response, linearity, and current gain. **Vacuum Photodiodes.** Feature excellent response to pulsed light, good stability. Photocurrent response is linear over a wide range of incident light level. Used mainly for light comparison measurements in colorimetry, photometry, etc. **Gas Photodiodes.** Have a response to pulsed light that covers the entire audio frequency range. They are three to five times more sensitive than vacuum photodiodes and are used widely in industrial control and sound reproduction. Av. shpg. wt., 2 lbs.

Stock No.		MULTIPLIER PHOTOTUBES	Spectral Response	Supply Volts Between Anode, Cathode	Sensitivity		Current Amplification	Anode Dark Current Input Lumen	Equiv. Noise Input Lumen	EACH		
Dept.	Type	Description			Radiant $\mu a/\mu watt$	Luminous Amps/Lumen				1-4	5-18	19-49
59 D I	I P 21	9-stage type for uses involving extremely low light levels.	S-4	1000	78000	80	$2x10^{6}$	$5x10^{-10}$	$5x10^{-13}$	54.35	51.63	48.29
59 D I	I P 28	9-stage type for uses involving very low ultra-violet levels.	S-5	1000	61800	50	$1.25x10^{6}$	$1.25x10^{-9}$	$7.25x10^{-9}$	21.50	20.43	19.35
59 D I	931 A	9-stage type for use in light-operated relays.	S-4	1000	24000	24	$0.8x10^{6}$	$2.5x10^{-9}$	$9.5x10^{-13}$	12.30	11.68	....
59 D I	6199	10-stage, head-on, flat-face for general purpose usage.	S-11	1000	21600	27	$6x10^{5}$	$2.5x10^{-9}$	$4x10^{-11}$	47.20	44.83	....
59 D I	6342-A	10-stage, head-on, flat-face with focusing electrode.	S-11	1250	25000	14	$1.75x10^{5}$	$2x10^{-9}$	$7x10^{-12}$	57.20	....	....
59 D I T	7102	10-stage, head-on, flat-face type for near infra-red uses.	S-1	1250	420	4.5	$1.5x10^{5}$	$5x10^{-6}$	$1.5x10^{-10}$	110.00	....	....
59 D I	7117	Variant of 931-A, above, for D. C. operation.	S-4	1250 DC	34000	35	....	....	....	12.65	12.02	11.39
59 D I X	8053	10-stage, head-on, flat-face with Venetian blind dynodes.	S-11	1500 DC	34000	19	$2.5x10^{5}$	$9x10^{-13}$	$3.3x10^{-15}$	107.25	101.89	96.30
59 D I T	8054	10-stage, head-on, flat-face. 3″ dia. for scintillation counters.	S-11	1500	15000	19	$2.5.x10^{5}$	$4.4x10^{-12}$ (median)	$2.7x10^{-12}$	125.00	118.75	112.50
59 D I U	8055	Same as above, but with 5″ dia. for scintillation counters.	S-11	1500	15000	19	$2.5x10^{5}$	$4.4x10^{-12}$ (median)	$2.7x10^{-12}$	170.00	161.50	....

Stock No.		GAS PHOTODIODES	Spectral Response	Anode Supply Voltage dc or peak ac volts	Characteristics Luminous Sensitivity a/lumen			Max. Gas Amplification Factor	Max. Anode Dark Current at 25° C	EACH		
Dept.	Type	Description			Min.	Typical	Max.			1-4	5-18	19-49
59 D I	I P 37	Side-on Type	S-4	100	75	135	205	5.5	0.05	6.50	6.18	5.85
59 D I	I P 40	Side-on Type	S-1	90	90	135	205	10	0.005	4.80	4.56	4.32
59 D I	I P 41	End-on Type	S-1	90	50	90	145	8.5	0.1	6.00	5.70	5.40
59 D I	868	Side-on Type	S-1	100	50	90	145	8	0.1	6.30	5.99	5.67
59 D I	918	Side-on Type	S-1	90	120	150	220	10.5	0.1	6.30	5.99	5.67
59 D I	921	Cartridge Type	S-1	90	75	135	205	10.5	0.01	5.20	4.94	....
59 D I	923	For renewal Use	S-1	90	90	135	205	10	0.1	4.70	4.47	....
59 D I	927	Small side-on Type	S-1	90	75	125	185	10	0.1	6.00	5.70	....
59 D I	930	Side-on Type	S-1	90	90	135	205	10	0.1	4.95	4.70	....
59 D I	5581	Side-on Type	S-4	100	75	135	205	5.5	0.05	4.85	4.61	4.37
59 D I	5582	Cartridge Type	S-4	100	80	120	175	5.5	0.05	6.30	5.99	....
59 D I	5583	Small side-on Type	S-4	100	75	135	205	5.5	0.05	8.75	8.31	7.88

Stock No.		VACUUM PHOTO-DIODES	Spectral Response	Anode Supply Voltage dc or peak ac volts	Average Cathode Current d a	Characteristics Luminous Sensitivity a/lumen			Max. Anode Dark Current at 25° C	EACH		
Dept.	Type	Description				Min.	Typical	Max.		1-4	5-18	19-49
59 D I	926	Cartridge Type	S-3	500	5	4	6.5	15	0.0005	5.20	4.94	....
59 D I	929	Side-on Type	S-4	250	5	25	52	80	0.0125	3.45	3.28	....
59 D I	934	Small side-on Type	S-4	250	4	19	30	75	0.0005	5.75	5.46	....
59 D I	935	Side-on, for ultraviolet	S-5	250	10	18	35	70	0.0005	14.20	13.49	....
59 D I	5653	Side-on Type	S-4	250	5	20	45	100	0.25	2.80	2.66	....

NUVISTORS FOR INDUSTRY

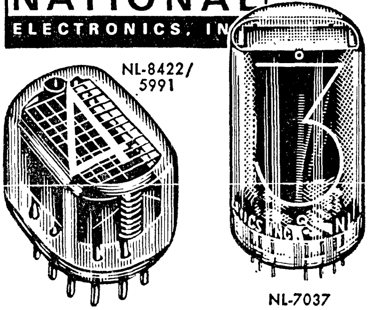


Extremely small ceramic and metal tubes are ideal for industrial applications. Offer high transconductance at low plate current, high gain with low noise, and very low heater drain. Full-rated operation at all altitudes. Lightweight, cantilever-supported cylindrical electrode structure. Connections brazed at high temperatures to eliminate strain and element distortion. Also exhausted and sealed at very high temperatures. Shpg. wt., 3 oz.

Type	Description	Htr./Fil. V.	Htr./Fil. Ma	Mu	Freq. Mc
7586	Medium-mu triode. General-purpose for oscillator and amplifier circuits. Meets MIL-E-1/1397 SigC	6.3	135	35	osc. 1000 amp. 350
7587	Sharp-cutoff tetrode. General-purpose. For IF, RF, video amplifier/mixer service. Meets MIL-E-1/1434 Sig C	6.3	150	....	osc. 850 amp. 250
7895	High-mu triode. General-purpose. Useful in oscillator and amplifier circuits. Meets MIL-E-1/1433 Sig C	6.3	135	64	osc. 1000 amp. 350
8056	Medium-mu triode. For low plate voltages, especially in RF/IF amps, multi-vibrators, etc.	6.3	135	11½	osc. 800 amp. 300
8058	High-mu triode. For oscillator and cathode drive amplifier circuits. Double-ended type.	6.3	135	70	osc. 2000 amp. 1200
8203	Power triode. Class C rf amplifier oscillator, or frequency multiplier.	6.3	160		osc. 250 amp. 250
8393	Medium-mu triode, general purpose type. "On/Off" control. Resists shock, vibration.	13.5	60		osc. 1000 amp. 400

For prices and ordering information for nuvistors listed in table above see our industrial Tube Directory on pages 105-109 of this Catalog.

In-Line Digital Readouts and Flashtubes



NL-7037

NUMERICAL BIQUINARY NEON-GLOW READOUT TUBES

Manufactured Under License from Burroughs Corporation

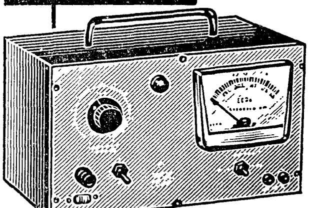
Feature excellent readability, long life, simple yet rugged construction, and economy. Visable display is a pleasing, red-orange neon glow in the form of the desired character—can easily be read even under high ambient light where edge-lighted or projection-type displays tend to wash out. Uniformity is built in; careful manufacturing techniques assure there will be no variation in color or intensity from number to number or from tube to tube. Displays will not fade with age. *Ultra-long-life tubes. Under most difficult conditions, as display of one number only, life is in excess of four years. With dynamic display (different numbers). life is many times greater. Regular types have dynamic life of 3000-5000 hours. *Specify Dept. and Tube Type.*

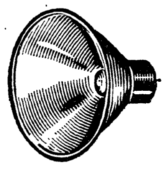
SOCKETS FOR READOUT TUBES

Stock No.	Type	EACH	Stock No.	Type	EACH
47 D 2408	RTS-2	.50	47 D 2411	RTS-4	1.10
47 D 2410	RTS-3	1.00	47 D 2412	RTS-5	1.10

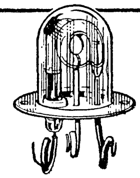
Stock No.		Burroughs Equivalent	Max. DC Ion V.	Min. DC Supp. V.	Cathode Ma			Pre-Bias V. Limits	Numerical Char. Ht.	Max. Tube Size		Max. View Distance	Fits Socket	EACH
Dept.	Tube Type				Peak	Av. Max.	Av. Min.			Ht.	Dia.			
59D10	*NL-7977/4032	7977, BD4032	170	170	1.5	1.4	0.7	50-120	.310"	.940"	.680"	14'	RTS-3	33.00
59D10	NL-4021	B4021	120	120	2.0	1.4	0.7	50-75	.310"	.925"	.650"	14'	RTS-3	33.00
59D10	NL-7009	BD2005, 7009	170	170	2.0	1.2	0.7	50-75	.310"	.925"	.650"	14'	RTS-3	19.00
59D10	*NL-8421/5092	8421, B5092	170	170	3.5	3.0	1.5	50-120	.610"	1.125"	1.080"	30'	RTS-2	15.75
59D10	NL-8422/5991	8422, B5991	170	170	3.5	3.0	1.5	50-120	.610"	.862"	1.020"	30'	RTS-4	15.75
59D10	NL-6844A	6844A	170	170	4.0	3.0	1.5	50-120	.610"	1.125"	1.080"	30'	RTS-2	11.00
59D10	*NL-8091	8091	170	170	6.5	6.0	3.0	50-120	1.375"	1.980"	2.060"	65'	RTS-5	22.50
59D10	*NL-7094	7094	300	300	7.5	7.0	4.0	50-120	2.000"	2.650"	3.100"	100'	RTS-5	30.00
59D10	*NL-7037	B7037	250	250	12	10	6	65-120	2.000"	3.380"	2.030"	100'	RTS-5	26.50

FLASHTUBES AND ACCESSORIES FOR INDUSTRIAL USE

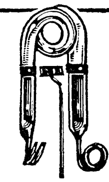

AC5000


ARA-400

MT-55


HD-1

U-35-B


H-88-T

60 D 9425 E. Flashtube Engineering Manual. Design and theory of strobe-light circuits................1.00

AC-5000 POWER SUPPLY. 115 VAC input. With 0-5000 volts adjustable energy storage charging supply. Will charge 800 joules in just 10.5 seconds. Shpg. wt., 15 lbs.
60 D 6750......................229.95

DAC-450 POWER SUPPLY. Inputs of 115VAC or 4VDC with built-in battery charger. Output, 450 volts DC with external capacitor. Charges 525 mfd. (53 joules in only 8 seconds.) Shpg. wt., 1¼ lbs.
60 D 6751......................39.95

TAC-101 TRIG BOX. Produces 12,000 volts peak output. Features external trigger and scope trigger outputs, plus complete trigger outputs, plus complete trigger for flashtubes. Wt., 1½ lbs.
60 D 6752......................29.95

ARA-400-SD-H-88-P4. 4" plug-in reflector assembly. Semi-diffused finish for photographic use. Max. input, 150 joules.
60 D 6753. 1-9..Ea. 19.00 10-49..Ea. 17.10

ARA-400-S-H-88-TP4. As above, with trigger coil and specular bright finish for use where "hot spot" is needed. Max. input, 150 joules.
60 D 6754. 1-9..Ea. 22.50 10-49..Ea 20.25

ARA-400-S-H-88-P4. Same as above, but without trigger coil.
60 D 6755. 1-9..Ea. 20.00 10-49..Ea 18.00

ARA-300-SD-H-88-TP4. 3" reflector with trigger coil for wheel balancer equipment.
60 D 6756. 1-9..Ea. 20.75 10-49.Ea. 18.67

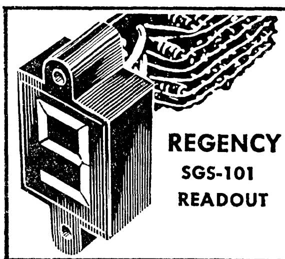
U-35-B. Stroboscopic flashtube with trigger band, base mounting.
60 D 9384. 1-9...Ea. 8.25 10-49...Ea 7.42
60 D 9382. U-35-T. As above, but no base.
1-9........Ea. 7.70 10-49........Ea. 6.93
60 D 9383. U-35-0. As above, no base, no band. 1-9....Ea. 7.15 10-49......Ea. 6.43
60 D 6757. U-35-BS. Same as U-35-B, with silver stripe to facilitate triggering.
1-9.....Ea. 8.80 10-49..........Ea. 7.92

HD-1. Flashtube in reflective base, Pyrex cover. Max. input, 50 joules at 450 volts.
60 D 9380. 1-9..Ea. 10.45...10.49 Ea. 9.40
60 D 7913. HD-2. Input 150 joules at 4.50 volts. 1-9....Ea. 12.10 10-49....Ea. 10.89
60 D 6758. HD-2A. Input, 200 joules at 900 volts. 1-9...Ea. 14.50 10-49....Ea. 13.05

H-88-T. Flashtube with trigger band.
60 D 6759. 1-9..Ea. 8.80 10-49..Ea. 7.92
60 D 6760. H-88-D. As above, without band.
1-9......Ea. 8.25 10-49........Ea. 7.42
60 D 6761. H-88-B4. As above, with 4-pin plug-in. base. 1-9.Ea. 9.35 10-49 .Ea. 8.41

MT-55 TRIGGER TRANSFORMER. Iron core. 24 kv. max. output for HD flashtubes.
60 D 9387. 1-9.Ea. 5.00 10-49....Ea. 4.50
60 D 7914. ST-25. Air core. 7 kv. peak output for H-88, U-35 flashtubes.
1-9....Ea. 2.50 10-49..........Ea. 2.25

CE52545C. 525 mfd electrolytic energy storage discharge capacitor. 450 volts. 53 joules storage.
60 D 6762. 1-9.Ea. 12.00 10-49..Ea. 10.80
60 D 6763. CE10045C. As above, 100 mfd, 10 joules. 1-9..Ea. 5.00 10-49.....Ea. 4.50



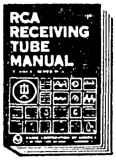
REGENCY SGS-101 READOUT

- Provides Easy-to-Read Digital Display
- Requires only One Output Per Character
- Can Be Read From Any Angle to 150°
- May Be Ganged for More Than One Digit

Provides high speed in-line display of single digits from 0-9 in a flat plane. Employs selective group switching principle in which the switching elements in the system also function as display illumination, thus providing a readout for which only one input per character is required. This arrangement offers considerable advantages in economy, simplicity, and compact size. Screen is easily readable from any angle up to 150° with high ambient lighting. Matrix and indicator head may be separated when there is only limited space for display elements. Character Size, ⅞x½" (composed of 7 segments). Operating range, 150-300 volts, rms. Power requirement, 1 watt at 150 volts. Units are equipped with provision for easy ganging when multiple digit display is desired. 11 inputs (one common and one for each character from 0-9). Overall Size: 1½x1⅛x3½".
60 D 7673. 1-9..................Each 14.70
10-49.........................Each 12.50
50-Up.........................Each 10.50

RCA and G.E. Receiving Tubes

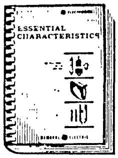
RECEIVING TUBE MANUALS



FREE—either the RCA or G.E. manual (specify choice) with order for 15 or more tubes.

RCA. Characteristics, typical operating conditions and curves, applications, dimensions and installation of all current RCA receiving and picture tubes. Chapter on tube theory. 1¼ lbs.

23 D 7575 EG........1.25



G.E. Covers characteristics, typical operating conditions and physical description of all current G.E. receiving, special purpose, Five-Star and picture tubes. Classification charts. 1¼ lbs.

23 D 7259 EG........1.50

Call the Allied office nearest you to—get prompt shipment of your order

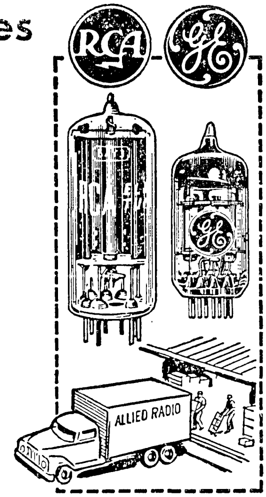
- World's Largest Stocks of RCA and G.E. Tubes
- We Can Fill Any OEM-Size Tube Order
- Receiving Tubes Guaranteed for One Full Year
- We Ship RCA or G. E., Whichever Is in Stock

When Ordering, Specify Full Dept. No. and Tube Type. Example: 25 D 28 1A5GT

Be sure of full satisfaction . . order quality RCA and G.E. tubes from Allied. Your order will get personalized service and be shipped promptly. Full one-year guarantee. We replace any tube that does not provide efficient performance for 12 months from date of purchase. (Does not apply to broken tubes.) New tube types are added to stock as soon as released by manufacturer. For fastest service, contact the Allied facility near you. Av. shpg. wt., 4 oz.; per 10, 2½ lbs.

EVERY TIME YOU ORDER FROM ALLIED . . .

It's the wisest buying decision you can make. Allied processes your order without delay—eliminates the worry about costly work stoppages and down time. Use the facilities of the Allied office nearest you.



Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of: 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	OZ4	1.20	1.08	.96	.86
25 D 28	OZ4A	1.23	1.10	.98	.88
25 D 28	1A3	3.08	2.77	2.46	2.21
25 D 28	1A5GT	2.00	1.80	1.60	1.44
25 D 28	1A7GT	2.70	2.43	2.16	1.94
25 D 28	1AD2	1.43	1.28	1.14	1.03
25 D 28	1AY2	1.30	1.17	1.04	.94
25 D 28	1BC2	1.45	1.31	1.16	1.04
	1B3GT		Use 1G3GT/1B3GT		
25 D 28	1G3GT/1B3GT	1.38	1.24	1.10	.99
25 D 28	1H5GT	1.95	1.76	1.56	1.40
	1J3		Use 1K3/1J3		
25 D 28	1K3/1J3	1.38	1.24	1.10	.99
	1K3		Use 1K3/1J3		
25 D 28	1L6	3.20	2.88	2.56	2.30
25 D 28	1N5GT	2.45	2.21	1.96	1.76
25 D 28	1R5	1.63	1.46	1.30	1.17
25 D 28	1S2A	1.45	1.31	1.16	1.04
25 D 28	1S2A/DY87	1.45	1.31	1.16	1.04
25 D 28	1S4	2.05	1.85	1.64	1.48
25 D 28	1S5	1.53	1.37	1.22	1.10
25 D 28	1SA2A	1.88	1.69	1.50	1.35
25 D 28	1T4	1.53	1.37	1.22	1.10
25 D 28	1U4	1.53	1.37	1.22	1.10
25 D 28	1U5	1.33	1.19	1.06	.95
25 D 28	1V2	1.10	.99	.88	.79
25 D 28	1X2A	1.45	1.31	1.16	1.04
25 D 28	1X2B	1.45	1.31	1.16	1.04
25 D 28	2A3	4.95	4.46	3.96	3.56
25 D 28	2AF4B	1.90	1.71	1.52	1.37
25 D 28	2AH2	1.70	1.53	1.36	1.22
25 D 28	2AS2	1.50	1.35	1.20	1.08
25 D 28	2AV2	1.10	.99	.88	.79
25 D 28	2BJ2	2.10	1.89	1.68	1.51
25 D 28	2BN4A	1.38	1.24	1.10	.99
25 D 28	2CW4	2.30	2.07	1.84	1.66
25 D 28	2CY5	1.65	1.49	1.32	1.19
25 D 28	2DS4	2.30	2.07	1.84	1.66
25 D 28	2DV4	3.23	2.90	2.58	2.32
25 D 28	2DZ4	1.93	1.73	1.54	1.39
25 D 28	2EN5	1.60	1.44	1.28	1.15
25 D 28	2ER5	1.65	1.49	1.32	1.19
25 D 28	2FH5	1.58	1.42	1.26	1.13
	2FQ5A		Use 2CY5		
25 D 28	2FS5	2.43	2.18	1.94	1.75
25 D 28	2GK5	1.93	1.73	1.54	1.39
25 D 28	2GU5	2.25	2.03	1.80	1.62
25 D 28	2HA5	1.93	1.73	1.54	1.39
25 D 28	2HK5	1.93	1.73	1.54	1.39
25 D 28	2HQ5	1.93	1.73	1.54	1.39
25 D 28	3A2	2.75	2.48	2.20	1.98
25 D 28	3A3/3B2	1.60	1.44	1.28	1.15
25 D 28	3AF4A	1.90	1.71	1.52	1.37
25 D 28	3AL5	.98	.88	.78	.70
25 D 28	3AT2	1.53	1.37	1.22	1.10
25 D 28	3AU6	1.10	.99	.88	.79
25 D 28	3AV6	1.10	.99	.88	.79
25 D 28	3BA6	1.18	1.06	.94	.85
	3BC5		Use 3BC5/3CE5		
25 D 28	3BC5/3CE5	1.23	1.10	.98	.88
25 D 28	3BN4A	1.53	1.37	1.22	1.10

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of: 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	3BN6	1.80	1.62	1.44	1.30
25 D 28	3BU8	1.78	1.60	1.42	1.28
25 D 28	3BY6	1.38	1.24	1.10	.99
25 D 28	3BZ6	1.08	.97	.86	.77
25 D 28	3CA3	1.60	1.44	1.28	1.15
25 D 28	3CB6	1.08	.97	.86	.77
	3CE5		Use 3BC5/3CE5		
25 D 28	3CF6	1.28	1.15	1.02	.92
25 D 28	3CS6	1.38	1.24	1.10	.99
25 D 28	3CY5	1.88	1.69	1.50	1.35
25 D 28	3DG4	2.05	1.85	1.64	1.48
25 D 28	3DK6	1.15	1.04	.92	.83
25 D 28	3DT6A	1.18	1.06	.94	.85
25 D 28	3DZ4	1.93	1.73	1.54	1.39
25 D 28	3EA5	1.78	1.60	1.42	1.28
25 D 28	3EH7	1.78	1.60	1.42	1.28
25 D 28	3EJ7	1.78	1.60	1.42	1.28
25 D 28	3ER5	1.65	1.49	1.32	1.19
25 D 28	3FH5	1.63	1.46	1.30	1.17
25 D 28	3FS5	2.15	1.94	1.72	1.55
25 D 28	3GK5	1.93	1.73	1.54	1.39
25 D 28	3GS8	1.78	1.60	1.42	1.28
	3HA5		Use 3HM5/3HA5		
25 D 28	3HM5/3HA5	1.93	1.73	1.54	1.39
25 D 28	3HQ5	1.93	1.73	1.54	1.39
25 D 28	3JC6A	1.65	1.49	1.32	1.19
25 D 28	3KT6	1.88	1.69	1.50	1.35
25 D 28	3LF4	3.00	2.70	2.40	2.16
25 D 28	3Q4	1.68	1.51	1.34	1.21
25 D 28	3Q5GT	2.93	2.63	2.34	2.11
25 D 28	3S4	1.70	1.53	1.36	1.22
25 D 28	3V4	1.30	1.17	1.04	.94
25 D 28	4AU6	1.35	1.21	1.08	.97
25 D 28	4AV6	1.13	1.01	.90	.81
25 D 28	4BC8	1.93	1.73	1.54	1.39
25 D 28	4BL8/CXF80	1.20	1.08	.96	.86
25 D 28	4BN6	1.93	1.73	1.54	1.39
25 D 28	4BQ7A	2.08	1.87	1.66	1.49
25 D 28	4BS8	2.13	1.91	1.70	1.53
25 D 28	4BU8	1.85	1.67	1.48	1.33
25 D 28	4BZ6	1.05	.95	.84	.76
25 D 28	4BZ7	1.93	1.73	1.54	1.39
25 D 28	4CB6	1.10	.99	.88	.79
25 D 28	4CS6	1.45	1.31	1.16	1.04
25 D 28	4CY5	1.35	1.21	1.08	.97
25 D 28	4DE6	1.25	1.13	1.00	.90
25 D 28	4DK6	1.28	1.15	1.02	.92
25 D 28	4DT6A	1.05	.95	.84	.76
25 D 28	4EH7	1.78	1.60	1.42	1.28
25 D 28	4EJ7	1.78	1.60	1.42	1.28
25 D 28	4ES8	2.03	1.82	1.62	1.46
25 D 28	4EW6	1.45	1.31	1.16	1.04
25 D 28	4GK5	1.95	1.76	1.56	1.40
25 D 28	4GM6	1.10	.99	.88	.79
25 D 28	4GS8	1.85	1.67	1.48	1.33
25 D 28	4GX7	1.80	1.62	1.44	1.30
25 D 28	4GZ5	1.18	1.06	.94	.85
25 D 28	4HA5	1.48	1.33	1.18	1.06
25 D 28	4HA7	1.53	1.37	1.22	1.10
25 D 28	4HC7	1.53	1.37	1.22	1.10
25 D 28	4HM6	1.43	1.28	1.14	1.03

Receiving Tubes (Cont'd)

ALLIED CAN SERVE YOUR NEEDS FROM COAST TO COAST

Be sure of complete satisfaction—order from our giant stocks of quality RCA and G.E. tubes. Allied will replace any tube that does not give efficient performance for 12 months from date of purchase. (Does not apply to broken tubes.) Call, write, wire, or TWX your order to your nearest Allied facility.

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	4HS8	1.68	1.51	1.34	1.21
25 D 28	4HT6	1.28	1.15	1.02	.92
25 D 28	4JC6	1.80	1.62	1.44	1.30
25 D 28	4JD6	1.80	1.62	1.44	1.30
25 D 28	4KE8	1.88	1.69	1.50	1.35
25 D 28	5AM8	2.03	1.82	1.62	1.46
25 D 28	5AN8	2.23	2.00	1.78	1.60
25 D 28	5AQ5	1.20	1.08	.96	.86
25 D 28	5AR4/GZ34	2.13	1.91	1.70	1.53
25 D 28	5AS4A	1.73	1.55	1.38	1.24
25 D 28	5AS8	2.20	1.98	1.76	1.58
25 D 28	5AT8	1.90	1.71	1.52	1.37
25 D 28	5AU4	1.83	1.64	1.46	1.31
25 D 28	5AV8	1.93	1.73	1.54	1.39
25 D 28	5AZ4	2.65	2.39	2.12	1.91
25 D 28	5B8	2.75	2.48	2.20	1.98
25 D 28	5BC3	1.58	1.42	1.26	1.13
25 D 28	5BE8	1.55	1.40	1.24	1.12
25 D 28	5BK7A	1.88	1.69	1.50	1.35
25 D 28	5BQ7A	2.00	1.80	1.60	1.44
25 D 28	5BR8	2.10	1.89	1.68	1.51
25 D 28	5BT8	1.55	1.40	1.24	1.12
25 D 28	5BW8	1.60	1.44	1.28	1.15
25 D 28	5CG8	1.58	1.42	1.26	1.13
25 D 28	5CL8A	1.93	1.73	1.54	1.39
25 D 28	5CM8	1.78	1.60	1.42	1.28
25 D 28	5CQ8	2.05	1.85	1.65	1.48
25 D 28	5CZ5	2.23	2.00	1.78	1.60
25 D 28	5DJ4	1.68	1.51	1.34	1.21
25 D 28	5EA8	1.90	1.71	1.52	1.37
25 D 28	5ES8	2.75	2.48	2.20	1.98
25 D 28	5EU8	1.73	1.55	1.38	1.24
25 D 28	5EW6	1.53	1.37	1.22	1.10
25 D 28	5FG7	1.30	1.17	1.04	.94
25 D 28	5FV8	1.50	1.35	1.20	1.08
25 D 28	5GH8	2.05	1.85	1.64	1.48
25 D 28	5GM6	1.40	1.26	1.12	1.01
25 D 28	5GX6	1.23	1.10	.98	.88
25 D 28	5GX7	1.80	1.62	1.44	1.30
25 D 28	5HA7	1.53	1.37	1.22	1.10
25 D 28	5HB7	1.38	1.24	1.10	.99
25 D 28	5HG8	1.85	1.67	1.48	1.33
25 D 28	5HZ6	1.38	1.24	1.10	.99
25 D 28	5JK6	1.93	1.73	1.54	1.39
25 D 28	5J6	1.63	1.46	1.30	1.17
25 D 28	5KD8	1.25	1.13	1.00	.90
25 D 28	5KE8	2.60	2.34	2.08	1.87
25 D 28	5KZ8	1.23	1.10	.98	.88
25 D 28	5LJ8	2.05	1.85	1.64	1.48
25 D 28	5T8	2.10	1.89	1.68	1.51
25 D 28	5U4G	1.05	.95	.84	.76
25 D 28	5U4GB	1.05	.95	.84	.76
25 D 28	5U8	1.55	1.40	1.24	1.12
25 D 28	5V3A	1.75	1.58	1.40	1.26
25 D 28	5V4GA	1.78	1.60	1.42	1.28
25 D 28	5V6GT	1.70	1.53	1.36	1.22
25 D 28	5X4G	1.58	1.42	1.26	1.13
25 D 28	5X8	1.88	1.69	1.50	1.35
25 D 28	5Y3GT	.88	.79	.70	.63
25 D 28	5Y4GA	1.23	1.10	.98	.88
25 D 28	5Y4GT	1.70	1.53	1.36	1.22
25 D 28	5Z3	1.98	1.78	1.58	1.42
25 D 28	5Z4	3.93	3.54	3.14	2.83
25 D 28	6A7	4.00	3.60	3.20	2.88
25 D 28	6A8	3.23	2.90	2.58	2.32
25 D 28	6AB4	1.23	1.10	.98	.88
25 D 28	6AC5GT	2.93	2.63	2.34	2.11
25 D 28	6AC7	2.75	2.48	2.20	1.98
25 D 28	6AC10	1.85	1.67	1.48	1.33
25 D 28	6AD10	3.45	3.11	2.76	2.48
25 D 28	6AF3	1.55	1.40	1.24	1.12
25 D 28	6AF4	1.88	1.69	1.50	1.35
25 D 28	6AF4A	1.88	1.69	1.50	1.35
25 D 28	6AF6G	3.15	2.84	2.52	2.27
25 D 28	6AF11	2.38	2.14	1.90	1.71
25 D 28	6AG5	1.43	1.28	1.14	1.03
25 D 28	6AG7	3.10	2.79	2.48	2.23
25 D 28	6AG11	2.08	1.87	1.66	1.49
25 D 28	6AH4GT	1.63	1.46	1.30	1.17
25 D 28	6AH6	2.20	1.98	1.76	1.58

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	6AK5/EF98	2.25	2.03	1.80	1.62
25 D 28	6AL3	1.45	1.31	1.16	1.04
25 D 28	6AL5	.88	.79	.70	.63
25 D 28	6AL7GT	3.48	3.13	2.78	2.50
25 D 28	6AL11	2.08	1.87	1.66	1.49
25 D 28	6AM4	2.78	2.50	2.22	2.00
25 D 28	6AM8A	1.63	1.46	1.30	1.17
25 D 28	6AN4	3.08	2.77	2.46	2.21
25 D 28	6AN8A	1.88	1.69	1.50	1.35
25 D 28	6AQ5A	1.13	1.01	.90	.81
25 D 28	6AQ6	1.35	1.21	1.08	.97
25 D 28	6AQ7GT	2.05	1.85	1.64	1.48
25 D 28	6AQ8/ECC85	1.50	1.35	1.20	1.08
25 D 28	6AR5	1.23	1.10	.98	.88
25 D 28	6AR8	2.43	2.18	1.94	1.75
25 D 28	6AR11	2.05	1.85	1.64	1.48
25 D 28	6AS5	1.38	1.24	1.10	.99
25 D 28	6AS8	2.00	1.80	1.60	1.44
25 D 28	6AS11	2.55	2.30	2.04	2.84
25 D 28	6AT6	1.03	.92	.82	.74
25 D 28	6AT8A	2.00	1.80	1.60	1.44
25 D 28	6AU4GTA	1.70	1.53	1.36	1.22
25 D 28	6AU5GT	2.33	2.09	1.86	1.67
25 D 28	6AU6A	.98	.88	.78	.70
25 D 28	6AU8A	2.20	1.98	1.76	1.58
25 D 28	6AV5GA	2.35	2.12	1.88	1.69
25 D 28	6AV6	.80	.72	.64	.58
25 D 28	6AV11	2.20	1.98	1.76	1.58
25 D 28	6AW8A	1.80	1.62	1.44	1.30
25 D 28	6AX3	1.30	1.17	1.04	.94
25 D 28	6AX4GTB	1.25	1.13	1.00	.90
25 D 28	6AX5GT	1.63	1.46	1.30	1.17
25 D 28	6AX8	1.75	1.58	1.40	1.26
25 D 28	6AY3A	1.45	1.31	1.16	1.04
25 D 28	6AY11	2.05	1.85	1.64	1.48
25 D 28	6AZ8	2.75	2.48	2.20	1.98
25 D 28	6B8	3.43	3.08	2.74	2.47
25 D 28	6B10	1.68	1.51	1.34	1.21
25 D 28	6BA3	1.53	1.37	1.22	1.10
25 D 28	6BA6	.95	.86	.76	.68
25 D 28	6BA7	2.93	2.63	2.34	2.11
25 D 28	6BA8A	2.00	1.80	1.60	1.44
25 D 28	6BA11	2.05	1.85	1.64	1.48
25 D 28	6BC4	2.75	2.48	2.20	1.98
25 D 28	6BC5	1.13	1.01	.90	.81
25 D 28	6BC7	1.80	1.62	1.44	1.30
25 D 28	6BC8	1.88	1.69	1.50	1.35
25 D 28	6BD6	1.18	1.06	.94	.85
25 D 28	6BD11	2.53	2.27	2.02	1.82
25 D 28	6BE3	1.43	1.28	1.14	1.03
25 D 28	6BE6	1.20	1.08	.96	.86
25 D 28	6BF5	1.68	1.51	1.34	1.21
25 D 28	6BF6	.98	.88	.78	.70
25 D 28	6BF11	2.45	2.21	1.96	1.76
25 D 28	6BG6G	3.05	2.75	2.44	2.20
25 D 28	6BH3	1.40	1.26	1.12	1.01
25 D 28	6BH6	1.38	1.24	1.10	.99
25 D 28	6BH8	2.00	1.80	1.60	1.44
25 D 28	6BH11	1.95	1.76	1.56	1.40
25 D 28	6BJ3	1.40	1.26	1.12	1.01
25 D 28	6BJ6	1.38	1.24	1.10	.99
25 D 28	6BJ7	1.48	1.33	1.18	1.06
25 D 28	6BJ8	1.80	1.62	1.44	1.30
25 D 28	6BK4B	3.78	3.40	3.02	2.72
25 D 28	6BK5	1.75	1.58	1.40	1.26
25 D 28	6BK7B	1.78	1.60	1.42	1.28
25 D 28	6BL7GTA	2.20	1.98	1.76	1.58
25 D 28	6BL8/ECF80	1.88	1.69	1.50	1.35
25 D 28	6BM8/ECL82	1.45	1.31	1.16	1.04
25 D 28	6BN4A	1.70	1.53	1.36	1.22
25 D 28	6BN6	1.50	1.35	1.20	1.08
25 D 28	6BN8	1.58	1.42	1.26	1.13
25 D 28	6BN11	2.05	1.85	1.64	1.48
25 D 28	6BQ5	1.33	1.19	1.06	.95
25 D 28	6BQ5/EL84	1.13	1.01	.90	.81
25 D 28	6BQ6GTB/6CU6	2.05	1.85	1.64	1.48
25 D 28	6BQ7A	1.88	1.69	1.50	1.35
25 D 28	6BR8A	1.93	1.73	1.54	1.39
25 D 28	6BS3A	1.65	1.49	1.32	1.19
25 D 28	6BS8	1.88	1.69	1.50	1.35

Specify Dept. No. (25 D 28) and Tube Type No. When Ordering

WHEN ORDERING, SPECIFY DEPT. NO. (25 D 28) AND TUBE TYPE NO.

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of: 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	6BU8	1.70	1.53	1.36	1.22
25 D 28	6BV8	1.50	1.35	1.20	1.08
25 D 28	6BW4	1.38	1.24	1.10	.99
25 D 28	6BW8	1.68	1.51	1.34	1.20
25 D 28	6BX7GT	2.80	2.52	2.24	2.02
25 D 28	6BY5GA	2.40	2.16	1.92	1.73
25 D 28	6BY6	1.38	1.24	1.10	.99
25 D 28	6BY8	1.35	1.21	1.08	.97
25 D 28	6BZ6	1.05	.95	.84	.76
25 D 28	6BZ7	1.88	1.69	1.50	1.35
25 D 28	6BZ8	2.10	1.89	1.68	1.51
25 D 28	6C4	.88	.79	.70	.63
25 D 28	6C5	2.68	2.41	2.14	1.93
25 D 28	6C6	3.93	3.54	3.14	2.83
25 D 28	6C9	2.75	2.48	2.20	1.98
25 D 28	6C10	1.85	1.67	1.48	1.33
25 D 28	6CA4	1.15	1.04	.92	.83
25 D 28	6CA5	1.50	1.35	1.20	1.08
25 D 28	6CA7/EL34	2.68	2.41	2.14	1.93
25 D 28	6CB5A	4.68	4.21	3.74	3.37
25 D 28	6CB6A	1.05	.95	.84	.76
25 D 28	6CD6GA	2.75	2.48	2.20	1.98
25 D 28	6CD8/EBF89	1.88	1.69	1.50	1.35
25 D 28	6CE5	1.10	.99	.88	.79
25 D 28	6CE5/6BC5	1.10	.99	.88	.79
25 D 28	6CF6	1.38	1.24	1.10	.99
25 D 28	6CG3/6CD6	1.70	1.53	1.36	1.22
	6CG7	Use 6FQ7/6CG7			
25 D 28	6CG8A	1.55	1.40	1.24	1.12
25 D 28	6CH8	2.80	2.52	2.24	2.02
25 D 28	6CK3	1.30	1.17	1.04	.94
25 D 28	6CK4	1.78	1.60	1.42	1.28
25 D 28	6CL6	1.90	1.71	1.52	1.37
25 D 28	6CL8A	1.88	1.69	1.50	1.35
25 D 28	6CM6	1.68	1.51	1.34	1.21
25 D 28	6CM7	1.38	1.24	1.10	.99
25 D 28	6CM8	2.03	1.82	1.62	1.46
25 D 28	6CN7	2.00	1.80	1.60	1.44
25 D 28	6CQ4	1.78	1.60	1.42	1.28
25 D 28	6CQ8	1.65	1.49	1.32	1.19
25 D 28	6CR6	1.48	1.33	1.18	1.06
25 D 28	6CS6	1.23	1.10	.98	.88
25 D 28	6CS7	1.40	1.26	1.12	1.01
25 D 28	6CU5	1.35	1.21	1.08	.97
25 D 28	6CU8	2.20	1.98	1.76	1.58
25 D 28	6CW4	2.30	2.07	1.84	1.66
25 D 28	6CW5	1.55	1.40	1.24	1.12
25 D 28	6CX8	2.13	1.91	1.70	1.53
25 D 28	6CY5	1.73	1.55	1.38	1.24
25 D 28	6CY7	1.53	1.37	1.22	1.10
25 D 28	6CZ5	2.05	1.85	1.64	1.48
25 D 28	6D10	1.93	1.73	1.54	1.39
25 D 28	6DA4	1.53	1.37	1.22	1.10
25 D 28	6DA4A	1.53	1.37	1.22	1.10
25 D 28	6DA5/EM81	1.40	1.26	1.12	1.01
25 D 28	6DB5	2.50	2.25	2.00	1.80
25 D 28	6DC6	1.78	1.60	1.42	1.28
25 D 28	6DC8/EBF89	1.53	1.37	1.22	1.10
25 D 28	6DE4	1.53	1.37	1.22	1.10
25 D 28	6DE6	1.20	1.08	.96	.86
25 D 28	6DE7	1.83	1.64	1.46	1.31
25 D 28	6DG6GT	1.78	1.60	1.42	1.28
25 D 28	6DK6	1.13	1.01	.90	.81
25 D 28	6DL5	1.48	1.33	1.18	1.06
25 D 28	6DM4	1.53	1.37	1.22	1.10
25 D 28	6DN6	3.50	3.15	2.80	2.52
25 D 28	6DN7	1.68	1.51	1.34	1.21
25 D 28	6DQ5	3.93	3.54	3.14	2.83
25 D 28	6DQ6B	2.10	1.89	1.68	1.51
25 D 28	6DR7	2.05	1.85	1.64	1.48
25 D 28	6DS4	2.30	2.07	1.84	1.66
25 D 28	6DS5	1.65	1.49	1.32	1.19
25 D 28	6DT5	1.78	1.65	1.42	1.28
25 D 28	6DT6A	1.03	.92	.82	.74
25 D 28	6DT8	1.78	1.60	1.42	1.28
25 D 28	6DV4	3.23	2.90	2.58	2.32
25 D 28	6DW4B	1.75	1.58	1.40	1.26
25 D 28	6DW5	1.93	1.73	1.54	1.39
25 D 28	6DX8	1.45	1.31	1.16	1.04
25 D 28	6DZ4	1.88	1.69	1.50	1.35
25 D 28	6E5	2.83	2.54	2.26	2.03
25 D 28	6EA4	3.65	3.29	2.92	2.63
	6EA5	Use 6CY5			
25 D 28	6EA7	2.60	2.34	2.08	1.87
25 D 28	6EA8	1.50	1.35	1.20	1.08
25 D 28	6EB5	2.30	2.07	1.84	1.66
25 D 28	6EB8	2.20	1.98	1.76	1.58
25 D 28	6EH5	1.45	1.31	1.16	1.04
25 D 28	6EH7/EF183	1.93	1.73	1.54	1.39
25 D 28	6EH8	1.50	1.35	1.20	1.08
25 D 28	6EJ7/EF184	1.78	1.60	1.42	1.28
25 D 28	6EM5	1.60	1.44	1.28	1.15
25 D 28	6EM7	2.40	2.16	1.92	1.73
25 D 28	6EQ7	1.38	1.24	1.10	.99
25 D 28	6ER5	1.78	1.60	1.42	1.28
25 D 28	6ES5	1.43	1.28	1.14	1.03
25 D 28	6ES8	2.73	2.45	2.18	1.96
25 D 28	6ET7	2.00	1.80	1.60	1.44
25 D 28	6EU7	1.35	1.21	1.08	.97
25 D 28	6EU8	1.68	1.51	1.34	1.21
25 D 28	6EV5	1.43	1.28	1.14	1.03
25 D 28	6EV7	1.38	1.24	1.10	.99
25 D 28	6EW6	1.18	1.06	.94	.85
25 D 28	6EW7	2.75	2.48	2.20	1.98
25 D 28	6EX6	3.75	3.38	3.00	2.70
25 D 28	6EY6	1.80	1.62	1.44	1.30
25 D 28	6EZ5	2.03	1.82	1.62	1.46
25 D 28	6EZ8	1.78	1.60	1.42	1.28
25 D 28	6F5	2.75	2.48	2.20	1.98
25 D 28	6F6	2.90	2.61	2.32	2.09
25 D 28	6F6G	2.90	2.61	2.32	2.09
25 D 28	6F6GT	2.90	2.61	2.32	2.09
25 D 28	6F8G	4.23	3.81	3.38	3.04
25 D 28	6FA7	1.48	1.33	1.18	1.06
25 D 28	6FD7	2.53	2.27	2.02	1.82
25 D 28	6FE5	1.70	1.53	1.36	1.22
25 D 28	6FG5	2.68	2.41	2.14	1.93
25 D 28	6FG7	1.78	1.60	1.42	1.28
25 D 28	6FH5	1.58	1.42	1.26	1.13
25 D 28	6FH8	2.03	1.82	1.62	1.46
25 D 28	6FJ7	1.88	1.69	1.50	1.35
25 D 28	6FM7	1.63	1.46	1.30	1.17
25 D 28	6FM8	1.43	1.28	1.14	1.03
25 D 28	6FQ5A	1.93	1.73	1.54	1.39
	6FQ7	Use 6FQ7/6CG7			
25 D 28	6FQ7/SCG7	1.18	1.06	.94	.85
25 D 28	6FS5	2.05	1.85	1.64	1.48
25 D 28	6FV6	2.00	1.80	1.60	1.44
25 D 28	6FV8A	1.65	1.49	1.32	1.19
25 D 28	6FW5	1.93	1.73	1.54	1.39
25 D 28	6FY5/EC97	1.38	1.24	1.10	.99
25 D 28	6FY7	1.60	1.44	1.28	1.15
25 D 28	6G6G	3.40	3.06	2.72	2.45
25 D 28	6G11	2.20	1.98	1.76	1.58
25 D 28	6GB5	1.90	1.71	1.52	1.37
25 D 28	6GC5	2.00	1.80	1.60	1.44
25 D 28	6GE5	1.93	1.73	1.54	1.39
25 D 28	6GF5	1.75	1.58	1.40	1.26
25 D 28	6GF7A	2.43	2.18	1.94	1.75
25 D 28	6GH8A	1.60	1.44	1.28	1.15
25 D 28	6GJ5A	2.80	2.52	2.24	2.02
25 D 28	6GJ7	1.55	1.40	1.24	1.12
25 D 28	6GK5	1.93	1.73	1.54	1.39
25 D 28	6GK6	1.50	1.35	1.20	1.08
25 D 28	6GL7	2.75	2.48	2.20	1.98
25 D 28	6GM5	1.53	1.37	1.22	1.10
25 D 28	6GM6	1.38	1.24	1.10	.99
25 D 28	6GM8/ECC86	2.18	1.96	1.74	1.57
25 D 28	6GN8	2.05	1.85	1.64	1.48
25 D 28	6GQ7	1.88	1.69	1.50	1.35
25 D 28	6GT5	2.70	2.43	2.16	1.94
25 D 28	6GU5	2.05	1.85	1.64	1.48
25 D 28	6GU7	1.60	1.44	1.28	1.15
25 D 28	6GV5	2.08	1.87	1.66	1.49
25 D 28	6GV8	1.55	1.40	1.24	1.12
25 D 28	6GW6/6DQ6B	2.10	1.89	1.68	1.51
25 D 28	6GW8/ECL86	1.53	1.37	1.22	1.10
25 D 28	6GX6	1.30	1.17	1.04	.94
25 D 28	6GX7	1.80	1.62	1.44	1.30
25 D 28	6GY5	2.30	2.07	1.84	1.66
25 D 28	6GY6	1.30	1.17	1.04	.94
25 D 28	6GY8	1.78	1.60	1.42	1.28
25 D 28	6GZ5	1.35	1.21	1.08	.97
25 D 28	6H6	2.15	1.94	1.72	1.55
25 D 28	6HA6	2.23	2.00	1.78	1.60
25 D 28	6HB5	2.10	1.89	1.68	1.51
25 D 28	6HB6	2.23	2.00	1.78	1.60
25 D 28	6HB7	1.68	1.51	1.34	1.21
25 D 28	6HE5	1.85	1.67	1.48	1.33
25 D 28	6HF5	3.65	3.29	2.92	2.63
25 D 28	6HF8	2.00	1.80	1.60	1.44
25 D 28	6HG5	1.35	1.21	1.08	.97
25 D 28	6HG8/ECF86	2.05	1.85	1.64	1.48
25 D 28	6HJ5	2.90	2.61	2.32	2.09

RECEIVING TUBES CONTINUED ON NEXT PAGE

Receiving Tubes (Cont'd)

AS NEW TUBE TYPES ARE RELEASED, ALLIED WILL STOCK THEM

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	6HJ8	1.55	1.40	1.24	1.12
25 D 28	6HK5	1.95	1.76	1.56	1.40
25 D 28	6HL8	1.53	1.37	1.22	1.10
25 D 28	6HM5/6HA5	1.93	1.73	1.54	1.39
25 D 28	6HM6	1.35	1.21	1.08	.97
25 D 28	6HQ5	2.25	2.03	1.80	1.62
25 D 28	6HR5	1.28	1.15	1.02	.92
25 D 28	6HR6	1.38	1.24	1.10	.99
25 D 28	6HS6	1.38	1.24	1.10	.99
25 D 28	6HS8	1.78	1.60	1.42	1.28
25 D 28	6HZ6	1.38	1.24	1.10	.99
25 D 28	6HZ8	2.75	2.48	2.20	1.98
25 D 28	6J5	1.85	1.67	1.48	1.33
25 D 28	6J5GT	1.85	1.67	1.48	1.33
25 D 28	6J6A	1.33	1.19	1.06	.95
25 D 28	6J7	2.50	2.25	2.00	1.80
25 D 28	6J10	2.50	2.25	2.00	1.80
25 D 28	6J11	2.40	2.16	1.92	1.73
25 D 28	6JB6A	2.93	2.63	2.34	2.11
25 D 28	6JC6	1.88	1.69	1.50	1.35
25 D 28	6JC8	1.53	1.37	1.22	1.10
25 D 28	6JD6	1.65	1.49	1.32	1.19
25 D 28	6JE6A	4.25	3.82	3.40	3.06
25 D 28	6JE8	1.85	1.67	1.48	1.33
25 D 28	6JF6	3.05	2.75	2.44	2.20
25 D 28	6JG6A	3.00	2.70	2.40	2.16
25 D 28	6JH6	1.23	1.10	.98	.88
25 D 28	6JH8	2.05	1.85	1.64	1.48
25 D 28	6JK8	2.03	1.82	1.62	1.46
25 D 28	6JM6	2.08	1.87	1.66	1.49
25 D 28	6JN6	1.93	1.73	1.54	1.39
25 D 28	6JN8	1.83	1.64	1.46	1.31
25 D 28	6JS6	3.65	3.29	2.92	2.63
25 D 28	6JS6A	3.65	3.29	2.92	2.63
25 D 28	6JT6A	2.48	2.23	1.98	1.78
25 D 28	6JT8	2.00	1.80	1.60	1.44
25 D 28	6JU8A	1.68	1.51	1.34	1.21
25 D 28	6JV8	2.00	1.80	1.60	1.44
25 D 28	6JW8	1.55	1.40	1.24	1.12
25 D 28	6JZ8	1.78	1.60	1.42	1.28
25 D 28	6K6GT	1.23	1.10	.98	.88
25 D 28	6K7	2.50	2.25	2.00	1.80
25 D 28	6K8	3.53	3.17	2.82	2.54
25 D 28	6K11/6Q11	1.83	1.64	1.46	1.31
25 D 28	6KA8	2.13	1.91	1.70	1.53
25 D 28	6KD6	3.85	3.47	3.08	2.77
25 D 28	6KD8	1.40	1.26	1.12	1.01
25 D 28	6KE8	2.68	2.41	2.14	1.93
25 D 28	6KL8	1.30	1.17	1.04	.94
25 D 28	6KM6	4.10	3.69	3.28	2.95
25 D 28	6KM8	1.73	1.55	1.38	1.24
25 D 28	6KR8A	2.13	1.91	1.70	1.53
25 D 28	6KT8	2.13	1.91	1.70	1.53
25 D 28	6KU8	2.40	2.16	1.92	1.73
25 D 28	6KV8	2.93	2.63	2.34	2.11
25 D 28	6KY8A	3.63	3.27	2.90	2.61
25 D 28	6KZ8	1.70	1.53	1.36	1.22
25 D 28	6L6	4.40	3.96	3.52	3.17
25 D 28	6L6GC	2.28	2.05	1.82	1.64
25 D 28	6L7	3.48	3.13	2.78	2.58
25 D 28	6LB8	2.35	2.12	1.88	1.69
25 D 28	6LC8	1.93	1.73	1.54	1.39
25 D 28	6LE8	2.78	2.50	2.22	2.00
25 D 28	6LF8	1.75	1.58	1.40	1.26
25 D 28	6LJ8	2.05	1.85	1.64	1.48
25 D 28	6LM8	2.08	1.87	1.66	1.49
25 D 28	6LN8	1.20	1.08	.96	.86
25 D 28	6LQ8	2.53	2.27	2.02	1.82
25 D 28	6LU8/LCF802	2.38	2.14	1.90	1.71
25 D 28	6LX8/LC-80	1.30	1.17	1.04	.94
25 D 28	6LY8	1.78	1.60	1.42	1.28
25 D 28	6MD8	2.43	2.18	1.94	1.75
25 D 28	6M11	2.28	2.05	1.82	1.64
25 D 28	6N7	2.53	2.27	2.02	1.82
25 D 28	6N7GT	2.60	2.34	2.08	1.87
25 D 28	6Q7	2.75	2.48	2.20	1.98
25 D 28	6S4A	1.18	1.06	.94	.85
25 D 28	6S8GT	2.08	1.87	1.66	1.49
25 D 28	6SA7	2.20	1.98	1.76	1.58
25 D 28	6SA7GT	2.20	1.98	1.76	1.58
25 D 28	6SB7Y	2.98	2.68	2.38	2.14
25 D 28	6SC7	2.20	1.98	1.76	1.58
25 D 28	6SF5	1.85	1.67	1.48	1.33
25 D 28	6SF7	3.15	2.85	2.52	2.27
25 D 28	6SG7	2.35	2.12	1.88	1.69
25 D 28	6SH7	2.68	2.41	2.14	1.93
25 D 28	6SJ7	2.08	1.87	1.66	1.49
25 D 28	6SJ7GT	1.95	1.76	1.56	1.40
25 D 28	6SK7	2.13	1.91	1.70	1.53
25 D 28	6SK7GT	2.75	2.48	2.20	1.98
25 D 28	6SL7GT	1.68	1.51	1.34	1.20
25 D 28	6SN7GTB	1.35	1.21	1.08	.97
25 D 28	6SQ7	1.93	1.73	1.54	1.39
25 D 28	6SQ7GT	1.78	1.60	1.42	1.28
25 D 28	6SR7	2.13	1.92	1.70	1.53
25 D 28	6T4	2.58	2.32	2.06	1.85
25 D 28	6T8A	1.68	1.51	1.34	1.21
25 D 28	6T9	1.85	1.67	1.48	1.33
25 D 28	6T10	2.13	1.91	1.70	1.53
25 D 28	6U5	3.70	3.33	2.96	2.66
25 D 28	6U8A	1.55	1.40	1.24	1.12
25 D 28	6U9/ECF201	1.45	1.31	1.16	1.04
25 D 28	6U10	1.83	1.64	1.46	1.31
25 D 28	6V3A	2.28	2.05	1.82	1.64
25 D 28	6V4/EZ80	.75	.68	.60	.54
25 D 28	6V6	3.18	2.86	2.54	2.29
25 D 28	6V6GTA	1.20	1.08	.96	.86
25 D 28	6W4GT	1.15	1.04	.92	.83
25 D 28	6W4GTA	1.15	1.04	.92	.83
25 D 28	6W6GT	1.48	1.33	1.18	1.06
25 D 28	6X4	.80	.72	.64	.58
25 D 28	6X5GT	1.05	.95	.84	.76
25 D 28	6X8	1.50	1.35	1.20	1.08
25 D 28	6X8A	1.65	1.49	1.32	1.19
25 D 28	6X9/ECF200	1.45	1.31	1.16	1.04
25 D 28	6Y6GA/6Y6G	2.03	1.82	1.62	1.46
25 D 28	6Y6GT	1.78	1.60	1.42	1.28
25 D 28	6Y9	1.55	1.40	1.24	1.12
25 D 28	6Y10	1.93	1.73	1.54	1.39
25 D 28	6Z10/6J10	2.50	2.25	2.00	1.80
25 D 28	7A5	2.83	2.54	2.26	2.03
25 D 28	7A7	3.58	3.22	2.86	2.57
25 D 28	7AU7	1.23	1.10	.98	.88
25 D 28	7C5	1.68	1.51	1.34	1.21
25 D 28	7C6	3.65	3.29	2.92	2.63
25 D 28	7C7	1.70	1.53	1.36	1.24
25 D 28	7EY6	1.68	1.51	1.34	1.21
25 D 28	7F7	3.75	3.38	3.00	2.70
25 D 28	7F8	4.13	3.72	3.30	2.97
25 D 28	7GV7	1.95	1.76	1.56	1.40
25 D 28	7HG8	1.48	1.33	1.18	1.06
25 D 28	7HG8/PCF86	1.58	1.42	1.26	1.13
25 D 28	7N7	3.55	3.20	2.84	2.56
25 D 28	7V7	2.33	2.09	1.86	1.67
25 D 28	7X7	3.83	3.45	3.06	2.75
25 D 28	8AR11	1.88	1.69	1.50	1.35
25 D 28	8AU8	1.93	1.73	1.54	1.39
25 D 28	8AW8A	1.83	1.64	1.46	1.31
25 D 28	8B10	1.68	1.51	1.34	1.21
25 D 28	8BA8A	1.73	1.54	1.38	1.24
25 D 28	8BH8	1.68	1.51	1.34	1.21
25 D 28	8BM11	1.95	1.76	1.56	1.40
25 D 28	8BN8	1.53	1.37	1.22	1.10
25 D 28	8BQ5	1.38	1.24	1.10	.99
25 D 28	8BQ11	2.15	1.94	1.72	1.55
25 D 28	8BU11	2.05	1.85	1.64	1.48
	8CG7	Use 8FQ7/8CG7			
25 D 28	8CM7	1.35	1.21	1.08	.97
25 D 28	8CN7	1.53	1.37	1.22	1.10
25 D 28	8CS7	1.53	1.37	1.22	1.10
25 D 28	8CW5A	1.28	1.15	1.02	.92
25 D 28	8CX8	2.20	1.98	1.76	1.58
25 D 28	8EB8	2.05	1.85	1.64	1.48
25 D 28	8EM5	1.70	1.53	1.36	1.22
25 D 28	8ET7	2.08	1.87	1.66	1.49
25 D 28	8FQ7/8CG7	1.18	1.06	.94	.85
25 D 28	8GJ7	1.63	1.46	1.30	1.17
25 D 28	8GN8	1.85	1.67	1.48	1.33
25 D 28	8JV8	1.83	1.64	1.46	1.31
25 D 28	8KA8	1.93	1.73	1.54	1.39
25 D 28	8LC8	1.93	1.73	1.54	1.39
25 D 28	8LT8	1.35	1.21	1.08	.97
25 D 28	9A8/PCF80	1.70	1.53	1.36	1.22
25 D 28	9AU7	1.33	1.19	1.06	.95
25 D 28	9BJ11	2.40	2.16	1.92	1.73
25 D 28	9BR7	1.58	1.42	1.36	1.13
25 D 28	9EA8	1.53	1.37	1.22	1.10
25 D 28	9GV8	1.70	1.53	1.36	1.22
25 D 28	9KC6	2.18	1.96	1.74	1.57
25 D 28	9KZ8	1.48	1.33	1.18	1.06
25 D 28	9U8A	1.55	1.40	1.24	1.12
25 D 28	10AL11	2.28	2.05	1.82	1.64
25 D 28	10BQ5	1.15	1.04	.92	.83
25 D 28	10C8	2.58	2.32	2.08	1.85
25 D 28	10CW5	1.70	1.53	1.36	1.22
25 D 28	10DE7	1.75	1.58	1.40	1.26

Specify Dept. No. (25 D 28) and Tube Type No. When Ordering

Receiving Tubes (Cont'd)

WHEN ORDERING, SPECIFY DEPT. NO. (25 D 28) AND TUBE TYPE NO.

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of 1 to 9	10 to 49	50 or More	Not Asst'd 100-Up, EACH
25 D 28	10DR7	2.05	1.85	1.64	1.48
25 D 28	10DX8	1.38	1.24	1.10	.99
25 D 28	10EG7	2.18	1.96	1.74	1.57
25 D 28	10EM7	2.23	2.00	1.78	1.60
25 D 28	10EW7	2.20	1.98	1.76	1.58
25 D 28	10GF7A	2.18	1.96	1.74	1.57
25 D 28	10GN8	1.78	1.60	1.42	1.28
25 D 28	10HF8	2.33	2.09	1.86	1.67
25 D 28	10JA8	1.88	1.69	1.50	1.35
25 D 28	10JT8	2.03	1.82	1.62	1.46
25 D 28	10JY8	1.83	1.64	1.46	1.31
25 D 28	10KR8	2.13	1.91	1.70	1.53
25 D 28	10KU8	2.43	2.18	1.94	1.75
25 D 28	10LE8	2.95	2.66	2.36	2.12
25 D 28	10LW8	2.13	1.91	1.70	1.53
25 D 28	10LZ8	1.48	1.33	1.18	1.06
25 D 28	11AR11	2.05	1.85	1.64	1.48
25 D 28	11BQ11	2.05	1.85	1.64	1.48
25 D 28	11CY7	1.80	1.62	1.44	1.30
25 D 28	11HM7	2.18	1.96	1.74	1.57
25 D 28	11JE8	1.93	1.73	1.54	1.39
25 D 28	11KV8	2.95	2.66	2.36	2.12
25 D 28	11LQ8	2.95	2.66	2.36	2.12
25 D 28	11Y9	1.55	1.40	1.24	1.12
25 D 28	12AB5	1.65	1.49	1.32	1.19
25 D 28	12AC6	1.05	.95	.84	.76
25 D 28	12AD6	1.30	1.17	1.04	.94
25 D 28	12AE6A	1.38	1.24	1.10	.99
25 D 28	12AF3	1.93	1.73	1.54	1.39
25 D 28	12AF6	1.43	1.28	1.14	1.03
25 D 28	12AJ6	1.20	1.08	.96	.86
25 D 28	12AL5	1.05	.95	.84	.76
25 D 28	12AL8	3.08	2.77	2.46	2.21
25 D 28	12AL11	2.10	1.89	1.68	1.51
25 D 28	12AQ5	1.23	1.10	.98	.88
25 D 28	12AT6	.88	.79	.70	.63
25 D 28	12AT7/ECC81	1.43	1.28	1.14	1.03
25 D 28	12AU6	1.00	.90	.80	.72
25 D 28	12AU7A/ECC82	1.18	1.06	.94	.85
25 D 28	12AV5GA	2.25	2.03	1.80	1.62
25 D 28	12AV6	.80	.72	.64	.58
25 D 28	12AV7	1.70	1.53	1.36	1.22
25 D 28	12AW6	1.55	1.40	1.24	1.12
25 D 28	12AX3	1.50	1.35	1.20	1.08
25 D 28	12AX4GTB	1.28	1.15	1.02	.92
25 D 28	12AX7A/ECC83	1.20	1.08	.96	.86
25 D 28	12AY3	1.33	1.19	1.06	.95
25 D 28	12AY7	2.43	2.18	1.94	1.75
25 D 28	12AZ7A	1.43	1.28	1.14	1.03
25 D 28	12B4A	1.53	1.37	1.22	1.10
25 D 28	12BA6	.80	.72	.64	.58
25 D 28	12BA7	2.80	2.52	2.24	2.02
25 D 28	12BD6	1.18	1.06	.94	.85
25 D 28	12BE3	1.53	1.37	1.22	1.10
25 D 28	12BE6	.98	.88	.78	.70
25 D 28	12BF6	1.05	.95	.84	.79
25 D 28	12BF11	2.18	1.96	1.74	1.57
25 D 28	12BH7A	1.45	1.31	1.16	1.04
25 D 28	12BK5	1.88	1.69	1.50	1.35
25 D 28	12BL6	1.48	1.33	1.18	1.06
25 D 28	12BN6	2.05	1.85	1.64	1.48
25 D 28	12BQ6GTB/12CU6	2.10	1.89	1.68	1.51
25 D 28	12BR7	1.53	1.37	1.22	1.10
25 D 28	12BS3A	1.68	1.51	1.34	1.21
25 D 28	12BT3	1.43	1.28	1.14	1.03
25 D 28	12BV7	1.65	1.49	1.32	1.19
25 D 28	12BW4	1.38	1.24	1.10	.99
25 D 28	12BY7A	1.53	1.37	1.22	1.10
25 D 28	12BZ6	1.05	.95	.84	.76
25 D 28	12BZ7	2.08	1.87	1.66	1.49
25 D 28	12CA5	1.43	1.28	1.14	1.03
25 D 28	12CG6	1.88	1.69	1.50	1.35
25 D 28	12CN5	1.63	1.46	1.30	1.17
25 D 28	12CR6	1.48	1.33	1.18	1.06
25 D 28	12CU5/12C5	1.38	1.24	1.10	.99
25 D 28	12CX6	1.38	1.24	1.10	.99
25 D 28	12D4	1.38	1.24	1.10	.99
25 D 28	12DB5	1.30	1.17	1.04	.94
25 D 28	12DK6	1.15	1.04	.92	.83
25 D 28	12DK7	1.38	1.24	1.10	.99
25 D 28	12DL8	2.93	2.63	2.34	2.11
25 D 28	12DQ6B	2.13	1.91	1.70	1.53
25 D 28	12DQ7	1.63	1.46	1.30	1.17
25 D 28	12DS7	2.03	1.82	1.62	1.46
25 D 28	12DT5	1.55	1.40	1.24	1.12
25 D 28	12DT8	1.78	1.60	1.42	1.28
25 D 28	12DU7	2.20	1.98	1.76	1.58
25 D 28	12DW7	1.53	1.37	1.22	1.10
25 D 28	12DY8	3.98	3.58	3.18	2.86
25 D 28	12DZ6	1.80	1.62	1.44	1.30
25 D 28	12DZ6/12EA6	1.80	1.62	1.44	1.30
	12EA6	Use 12DZ6/12EA6			
25 D 28	12EC8	1.70	1.53	1.36	1.22
25 D 28	12ED5	1.35	1.21	1.08	.97
25 D 28	12EG6	1.73	1.55	1.38	1.24
25 D 28	12EK6	1.55	1.40	1.24	1.12
25 D 28	12EL6	.95	.86	.76	.68
25 D 28	12EQ7	1.38	1.24	1.10	.99
25 D 28	12F8	1.45	1.31	1.16	1.04
25 D 28	12FK6	1.10	.99	.88	.79
25 D 28	12FM6	1.30	1.17	1.04	.94
25 D 28	12FQ8	2.08	1.87	1.66	1.49
25 D 28	12FR8	3.45	3.11	2.76	2.48
25 D 28	12FV7	1.70	1.53	1.36	1.22
25 D 28	12FX5	1.23	1.10	.98	.88
25 D 28	12FX8A	1.93	1.73	1.54	1.39
25 D 28	12GA6	1.35	1.21	1.08	.97
25 D 28	12GC6	1.98	1.78	1.58	1.42
25 D 28	12GE5	2.05	1.85	1.64	1.48
25 D 28	12GJ5A	2.45	2.21	1.96	1.76
25 D 28	12GN7A	1.95	1.76	1.56	1.40
25 D 28	12GT5	2.68	2.41	2.14	1.93
25 D 28	12GW6/12DQ6B	2.13	1.91	1.70	1.53
25 D 28	12H6	2.00	1.80	1.60	1.44
25 D 28	12HE7	3.40	3.06	2.72	2.45
25 D 28	12HG7	1.95	1.76	1.56	1.40
25 D 28	12J5	2.05	1.85	1.64	1.48
25 D 28	12J5GT	2.40	2.16	1.92	1.73
25 D 28	12J8	2.18	1.96	1.74	1.57
25 D 28	12JB6A	2.83	2.54	2.26	2.03
25 D 28	12JN6	1.95	1.76	1.56	1.40
25 D 28	12JN8	1.85	1.67	1.48	1.33
25 D 28	12JT6A	2.48	2.23	1.98	1.78
25 D 28	12K5	1.73	1.55	1.38	1.24
25 D 28	12K7GT	3.30	2.97	2.64	2.38
25 D 28	12KL8	1.23	1.10	.98	.88
25 D 28	12L6GT	1.78	1.60	1.42	1.28
25 D 28	12R5	1.68	1.51	1.34	1.21
25 D 28	12SA7	2.20	1.98	1.76	1.58
25 D 28	12SA7GT	2.20	1.98	1.76	1.58
25 D 28	12SC7	2.60	2.34	2.08	1.87
25 D 28	12SF5	1.93	1.73	1.54	1.39
25 D 28	12SF7	3.10	2.79	2.48	2.23
25 D 28	12SG7	2.35	2.12	1.88	1.69
25 D 28	12SH7	2.70	2.43	2.16	1.94
25 D 28	12SJ7	2.15	1.94	1.72	1.55
25 D 28	12SK7	2.00	1.80	1.60	1.44
25 D 28	12SK7GT	2.00	1.80	1.60	1.44
25 D 28	12SL7GT	1.78	1.60	1.42	1.28
25 D 28	12SN7GTA	1.40	1.26	1.12	1.01
25 D 28	12SQ7	1.88	1.69	1.50	1.35
25 D 28	12SQ7GT	1.88	1.69	1.50	1.35
25 D 28	12V6GT	1.88	1.69	1.50	1.35
25 D 28	12W6GT	1.88	1.69	1.50	1.35
25 D 28	12X4	.98	.88	.78	.70
25 D 28	13CW4	2.53	2.27	2.02	1.82
25 D 28	13DE7	1.75	1.58	1.40	1.26
25 D 28	13DR7	1.93	1.73	1.54	1.39
25 D 28	13EM7	2.43	2.18	1.94	1.75
25 D 28	13EM7/15EA7	2.40	2.16	1.92	1.73
25 D 28	13FD7	2.28	2.05	1.82	1.64
25 D 28	13FM7	1.50	1.35	1.20	1.08
25 D 28	13GB5	1.90	1.71	1.52	1.37
25 D 28	13GF7	2.35	2.12	1.88	1.69
25 D 28	13J10	2.53	2.27	2.02	1.82
25 D 28	13V10	2.05	1.85	1.64	1.48
25 D 28	14A7	2.78	2.50	2.22	2.00
25 D 28	14B6	2.65	2.39	2.12	1.91
25 D 28	14BL11	2.55	2.30	2.04	1.84
25 D 28	14BR11	2.40	2.16	1.92	1.73
25 D 28	14GT8	1.73	1.55	1.38	1.24
25 D 28	14JG8	1.55	1.40	1.24	1.12
25 D 28	14Q7	2.93	2.63	2.34	2.11
25 D 28	15AF11	2.38	2.14	1.90	1.71
25 D 28	15BD11	2.43	2.18	1.94	1.75
25 D 28	15CW5/PL84	1.33	1.19	1.06	.95
25 D 28	15DQ8	1.48	1.33	1.18	1.06
25 D 28	15FM7	1.70	1.53	1.36	1.22
25 D 28	15FY7	1.78	1.60	1.42	1.28
25 D 28	15HB6	1.93	1.73	1.54	1.39
25 D 28	15KY8A	2.38	2.14	1.90	1.71
25 D 28	15LE8	3.83	3.45	3.06	2.75
25 D 28	16A8	1.48	1.33	1.18	1.06
25 D 28	16AQ3/XY88	1.35	1.21	1.08	.97

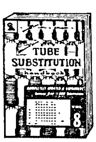
RECEIVING TUBES CONTINUED ON NEXT PAGE.

Receiving Tubes (Cont'd)

WHEN ORDERING, SPECIFY DEPT. NO. (25 D 28) AND TUBE TYPE NO.

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of			Not Asst'd
		1 to 9	10 to 49	50 or More	100-Up, EACH
25 D 28	16GK6	1.53	1.37	1.22	1.10
25 D 28	16GY5	2.43	2.18	1.94	1.75
25 D 28	17AX3	1.30	1.17	1.04	.94
25 D 28	17AX4GTA	1.53	1.37	1.22	1.10
25 D 28	17AY3	1.33	1.19	1.06	.95
25 D 28	17BE3	1.45	1.31	1.16	1.04
25 D 28	17BF11	2.28	2.05	1.82	1.64
25 D 28	17BH3	1.43	1.28	1.14	1.03
25 D 28	17BQ6GTB	2.60	2.34	2.08	1.87
25 D 28	17BS3	1.68	1.51	1.34	1.21
25 D 28	17BZ3	1.45	1.31	1.16	1.04
25 D 28	17C5	1.10	.99	.88	.79
25 D 28	17C9	3.58	3.22	2.86	2.57
25 D 28	17CK3	1.30	1.17	1.04	.94
25 D 28	17CU5	1.18	1.06	.94	.85
25 D 28	17D4	1.53	1.37	1.22	1.10
25 D 28	17DE4	1.60	1.44	1.28	1.15
25 D 28	17DM4A	1.53	1.37	1.22	1.10
	17DQ6B	Use 17GW6/17DQ6B			
25 D 28	17EW8	1.38	1.24	1.10	.99
25 D 28	17EW8/HCC85	1.38	1.24	1.10	.99
25 D 28	17GE5	2.18	1.96	1.74	1.57
25 D 28	17GJ5	2.75	2.48	2.20	1.98
25 D 28	17GT5	2.23	2.00	1.78	1.60
25 D 28	17GV5	2.10	1.89	1.68	1.51
25 D 28	17GW6/17DQ6B	2.13	1.91	1.70	1.53
25 D 28	17JB6A	2.75	2.48	2.20	1.98
25 D 28	17JG6A	2.88	2.59	2.30	2.07
25 D 28	17JM6	2.10	1.98	1.68	1.51
25 D 28	17JN6	1.95	1.76	1.56	1.40
25 D 28	17JT6A	2.48	2.23	1.98	1.78
25 D 28	17JZ8	1.78	1.60	1.42	1.28
25 D 28	17KV6	3.65	3.29	2.92	2.63
	17LD8	Use 15KY8			
25 D 28	17X10	2.25	2.03	1.80	1.62
25 D 28	18A5	2.20	1.98	1.76	1.58
25 D 28	18FW6A	1.23	1.10	.98	.88
25 D 28	18FX6A	1.20	1.08	.96	.86
25 D 28	18FY6A	1.10	.99	.88	.79
25 D 28	18GD6A	1.00	.90	.80	.72
25 D 28	19AU4GTA	1.78	1.60	1.42	1.28
25 D 28	19BG6GA	3.33	2.99	2.66	2.39
25 D 28	19CL8A	1.85	1.67	1.48	1.33
25 D 28	19EA8	1.93	1.73	1.54	1.39
25 D 28	19EZ8	2.25	2.03	1.80	1.62
25 D 28	19GQ7	1.90	1.71	1.52	1.37
25 D 28	19HR6	1.23	1.10	.98	.88
25 D 28	19HS6	1.20	1.08	.96	.86
25 D 28	19HV8	1.78	1.60	1.42	1.28
25 D 28	19J6	1.85	1.67	1.48	1.33
25 D 28	19JN8	1.53	1.37	1.22	1.10
25 D 28	19KG8	1.40	1.26	1.12	1.01
25 D 28	19T8	2.03	1.82	1.62	1.46
25 D 28	19X8	2.05	1.85	1.64	1.48
25 D 28	20EZ7	1.70	1.53	1.36	1.22
25 D 28	21GY5	2.33	2.09	1.86	1.67
25 D 28	21HB5	2.18	1.96	1.74	1.57
25 D 28	21HB5A	2.18	1.96	1.74	1.57
25 D 28	21HJ5	2.93	2.63	2.34	2.11
25 D 28	21JV6	2.10	1.89	1.68	1.51
25 D 28	21JZ6	2.20	1.98	1.76	1.58
25 D 28	21KA6	2.23	2.00	1.78	1.60
25 D 28	21LR8	3.00	2.70	2.40	2.16
25 D 28	22BH3A	1.55	1.40	1.24	1.12
25 D 28	22BW3	1.53	1.37	1.22	1.10
25 D 28	22DE4	1.70	1.53	1.36	1.22
25 D 28	22JF6	3.43	3.08	2.74	2.47
25 D 28	22JG6A	2.95	2.66	2.36	2.12
25 D 28	22JU6	2.88	2.59	2.30	2.07
25 D 28	23Z9	2.35	2.12	1.88	1.69
25 D 28	24JF6	1.88	1.69	1.50	1.35
25 D 28	25AV5GA	2.40	2.16	1.92	1.73
25 D 28	25AX4GT	1.53	1.37	1.22	1.10
25 D 28	25BK5	1.70	1.53	1.36	1.22
25 D 28	25BQ6GTB/25CU6	2.20	1.98	1.76	1.58
25 D 28	25C5	1.10	.99	.88	.79

Dept. No.	Tube Type	MAY BE ASSORTED EACH in Quantities of			Not Asst'd
		1 to 9	10 to 49	50 or More	100-Up, EACH
25 D 28	25CA5	1.80	1.62	1.44	1.30
25 D 28	25CD6GB	2.88	2.59	2.30	2.07
25 D 28	25DK4	1.10	.99	.88	.79
25 D 28	25DN6	2.98	2.68	2.38	2.14
25 D 28	25EC6	3.08	2.77	2.46	2.21
25 D 28	25EH5	1.45	1.31	1.16	1.04
25 D 28	25F5A	1.93	1.73	1.54	1.39
25 D 28	25L6GT	1.48	1.33	1.18	1.06
25 D 28	25W4GT	1.28	1.15	1.02	.92
25 D 28	25W6GT	1.70	1.53	1.36	1.22
25 D 28	25Z6GT	1.63	1.46	1.30	1.17
25 D 28	25GB5/PL500	1.85	1.67	1.48	1.33
25 D 28	29GK6	1.80	1.62	1.44	1.30
25 D 28	30AG11	2.20	1.98	1.76	1.58
25 D 28	31JS6A	3.65	3.29	2.92	2.63
25 D 28	32ET5A	1.20	1.08	.96	.86
25 D 28	33GT7	3.48	3.13	2.78	2.50
25 D 28	33GY7	3.03	2.72	2.42	2.18
25 D 28	33JV6	2.10	1.89	1.68	1.51
25 D 28	34GD5A	1.10	.99	.88	.79
25 D 28	35A5	2.83	2.54	2.26	2.03
25 D 28	35B5	1.60	1.44	1.28	1.15
25 D 28	35C5	1.05	.95	.84	.76
25 D 28	35DZ8	2.00	1.80	1.60	1.44
25 D 28	35EH5	1.38	1.24	1.10	.99
25 D 28	35GL6	1.45	1.31	1.16	1.04
25 D 28	35L6GT	1.38	1.24	1.10	.99
25 D 28	35W4	.63	.56	.50	.45
25 D 28	35Y4	2.25	2.03	1.80	1.62
25 D 28	35Z3	2.35	2.12	1.88	1.69
25 D 28	35Z4GT	1.28	1.15	1.02	.92
25 D 28	35Z5GT	1.10	.99	.88	.79
25 D 28	36AM3B	.78	.70	.62	.56
25 D 28	38HE7	3.33	2.99	2.66	2.39
25 D 28	38HK7	3.28	2.95	2.62	2.36
25 D 28	42	2.43	2.18	1.94	1.75
25 D 28	43	3.60	3.24	2.88	2.59
25 D 28	45B5/UL84	1.40	1.26	1.12	1.01
25 D 28	50A5	2.93	2.63	2.34	2.11
25 D 28	50B5	1.30	1.17	1.04	.94
25 D 28	50C5	1.10	.99	.88	.79
25 D 28	50DC4	.98	.88	.78	.70
25 D 28	50EH5	1.15	1.04	.92	.83
25 D 28	50FE5	2.05	1.85	1.64	1.48
25 D 28	50FK5	1.10	.99	.88	.79
25 D 28	50HC6	1.20	1.08	.96	.86
25 D 28	50HK6	1.08	.97	.86	.77
25 D 28	50L6GT	1.43	1.28	1.14	1.03
25 D 28	50X6	2.93	2.63	2.34	2.11
25 D 28	50Y6GT	2.18	1.96	1.74	1.57
25 D 28	50Y7GT	2.13	1.91	1.70	1.53
25 D 28	60FX5	1.30	1.17	1.04	.94
25 D 28	80	2.40	2.16	1.92	1.73
25 D 28	84/6Z4	1.70	1.53	1.36	1.22
25 D 28	117L7/M7GT	4.78	4.30	3.82	3.44
25 D 28	117N7GT	6.43	5.79	5.14	4.63
25 D 28	117P7GT	6.43	5.79	5.14	4.63
25 D 28	117Z3	2.25	2.03	1.80	1.62
25 D 28	117Z6GT	3.35	3.02	2.68	2.41
25 D 28	5879	1.93	1.73	1.54	1.39
25 D 28	6973	2.13	1.91	1.70	1.53
25 D 28	7025	1.40	1.26	1.12	1.01
25 D 28	7027A	3.38	3.04	2.70	2.43
25 D 28	7189	1.43	1.28	1.14	1.03
25 D 28	7199	2.23	2.00	1.78	1.60
25 D 28	7247	1.60	1.44	1.28	1.15
25 D 28	7355	1.55	1.40	1.24	1.12
25 D 28	7408	1.68	1.51	1.34	1.21
25 D 28	7543	1.45	1.31	1.16	1.04
25 D 28	7581A	2.28	2.05	1.82	1.64
25 D 28	7591A	1.40	1.26	1.12	1.01
25 D 28	7695	2.20	1.98	1.76	1.58
25 D 28	7868	1.93	1.73	1.54	1.39
25 D 28	8136	1.28	1.15	1.02	.92
25 D 28	8425A/6AU6A	1.28	1.15	1.02	.92
25 D 28	8426A/12AU6A	1.40	1.26	1.12	1.01
25 D 28	EM84/6F6G	1.68	1.51	1.34	1.21



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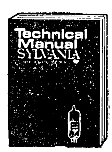

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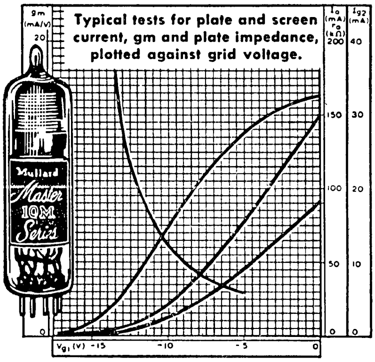


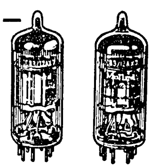
Typical tests for plate and screen current, gm and plate impedance, plotted against grid voltage.

Dept. No.	Tube Type	1-9, EA.	10-Up, EA.
25 D 21	6AB8	2.60	2.47
25 D 21	6AJ8	2.55	2.42
25 D 21	6AK5	3.10	2.95
25 D 21	6AK8	2.65	2.52
25 D 21	6AL5	1.80	1.71
25 D 21	6AQ5	2.05	1.95
25 D 21	6AQ5A	2.05	1.95
25 D 21	6AQ8	2.30	2.19
25 D 21	6AT6	1.90	1.81
25 D 21	6AU6	1.95	1.85
25 D 21	6AU6A	1.95	1.85
25 D 21	6AV6	1.85	1.76
25 D 21	6BA6	1.85	1.76
25 D 21	6BE6	2.00	1.90
25 D 21	6BL8	2.80	2.66
25 D 21	6BQ5	2.05	1.95
25 D 21	6BQ5A	2.05	1.95
25 D 21	6C4	2.70	2.57
25 D 21	6DC8	2.50	2.38
25 D 21	6DJ8	2.85	2.71
25 D 21	6DL5	2.45	2.33
25 D 21	6DX8	2.70	2.57
25 D 21	6EH7	2.50	2.38
25 D 21	6EJ7	2.50	2.38
25 D 21	6ER5	2.30	2.19
25 D 21	6ES8	3.30	3.14
25 D 21	6EU7	2.25	2.14
....			....

Dept. No.	Tube Type	1-9, EA.	10-Up, EA.
25 D 21	6FY5	2.25	2.14
25 D 21	6GK5	2.30	2.19
25 D 21	6HG8	2.85	2.71
25 D 21	6J6	2.45	2.33
25 D 21	6J6A	2.45	2.33
25 D 21	6T8A	2.65	2.52
25 D 21	7HG8	2.55	2.42
25 D 21	9A8	3.10	2.95
25 D 21	12AT7	2.45	2.33
25 D 21	12AU7	2.10	2.00
25 D 21	12AU7A	2.10	2.00
25 D 21	12AV6	1.85	1.76
25 D 21	12AX7	2.10	2.00
25 D 21	12AX7A	2.10	2.00
25 D 21	12DW7	2.45	2.33
25 D 21	15CW5	2.40	2.28
25 D 21	*KT66	3.68	3.50
25 D 21	*KT77	4.28	4.07
25 D 21	EABC80/6AK8	2.65	2.52
25 D 21	ECF80/6BL8	2.90	2.76
25 D 21	ECL80/6AB8	2.60	2.47
25 D 21	PCF80/9A8	3.10	2.95
25 D 21	ECC81/12AT7	2.45	2.33
25 D 21	ECH81/6AJ8	2.55	2.42
25 D 21	ECC82/12AU7	2.10	2.00
25 D 21	ECC83/12AX7	2.10	2.00
25 D 21	ECL84/6DX8	2.70	2.57
25 D 21	EL84/6BQ5	2.05	1.95

Dept. No.	Tube Type	1-9, EA.	10-Up, EA.
25 D 21	PL84/15CW5	2.40	2.28
25 D 21	ECC85/6AQ8	2.30	2.19
25 D 21	ECF86/6HG8	2.95	2.80
25 D 21	EF86/6267	2.40	2.28
25 D 21	PCF86/7HG6	2.55	2.42
25 D 21	ECC88/6DJ8	2.95	2.80
25 D 21	*KT88	5.60	5.32
25 D 21	EBF89/6DC8	2.50	2.38
25 D 21	EF89/6DA6	2.45	2.33
25 D 21	EC90/6C4	2.70	2.57
....	EK90/6BE6	Use 6BE6	
....	EL90/6AQ5	Use 6AQ5	
....	EB91/6AL5	Use 6AL5	
25 D 21	EBC91/6AV6	1.85	1.76
25 D 21	ECC91/6J6	2.45	2.33
25 D 21	HBC91/12AV6	1.85	1.76
25 D 21	EF93/6BA6	1.90	1.81
25 D 21	EF94/6AU6	1.95	1.81
25 D 21	EC95/6ER5	2.30	2.19
25 D 21	EF95/6AK5	3.10	2.95
25 D 21	EL95/6DL5	2.45	2.33
25 D 21	EC97/6FY5	2.25	2.14
25 D 21	EF183/6EH7	2.50	2.38
25 D 21	EF184/6EJ7	2.50	2.38
25 D 21	ECC189/6ES8	3.30	3.14
25 D 21	6267	2.40	2.28
25 D 21	7025	2.25	2.14
25 D 21	7247	2.45	2.33

MULLARD MATCHED PAIRS FOR SUPERIOR HI-FI PERFORMANCE



MULLARD MATCHED PAIRS ARE MASTER SERIES *NOT* 10M SERIES

For optimum performance, it is important that the incoming signal be amplified proportionately in the push-pull output tubes in an audio amplifier. This prevents a loss of power as well as distortion of the complex wave forms of the audio signal and their harmonics. Mullard's laboratory-balanced matched pairs are designed for this purpose. Available for virtually every high fidelity amplifier. *When ordering specify Dept. No. and Tube Type No. Example: 25 D 21 6AQ5A/EL90MP.* Av. wt. 10 oz.

Dept. No.	Tube Type	PER PAIR 1-9	PER PAIR 10-Up
....	6AQ5/EL90MP	Use 6AQ5A	
25 D 21	6AQ5A/EL90MP	2.48	2.36
25 D 21	6BM8/ECL84MP	3.30	3.14
25 D 21	6BQ5/EL84MP	2.47	2.35
25 D 21	6BQ5A/7189MP	3.21	3.05
25 D 21	6CA7/EL34MP	5.93	5.63
25 D 21	6CW5/EL86MP	4.22	4.01
25 D 21	6DL5/EL95MP	2.36	2.24
25 D 21	6GW8/ECL86MP	3.43	3.26

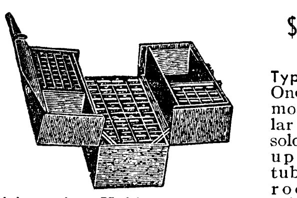
Dept. No.	Tube Type	PER PAIR 1-9	PER PAIR 10-Up
25 D 21	6L6G/EL37MP	6.95	6.60
....	6L6GC/EL34MP	Use 6CA7	
25 D 21	45B5/UL84MP	2.96	2.81
25 D 21	50BM8/UCL82MP	3.48	3.31
....	ECL82MP	Use 6BM8	
25 D 21	ECL86MP	3.43	3.26
....	EL34MP	Use 6CA7	
....	EL37MP	Use 6L6G	
25 D 21	EL84MP	2.47	2.35

Dept. No.	Tube Type	PER PAIR 1-9	PER PAIR 10-Up
....	EL86MP	Use 6CW5	
....	EL90MP	Use 6AQ5A	
....	EL95MP	Use 6DL5	
25 D 21	KT66MP	8.00	7.60
25 D 21	KT77MP	9.25	8.79
25 D 21	KT88MP	11.95	11.35
....	UCL82MP	Use 50BM8	
....	UL84MP	Use 45B5	
25 D 21	7189MP	3.21	3.05

ARGOS SERVICEMEN'S TUBE CADDIES

JUNIOR TUBE CADDY

$9.55

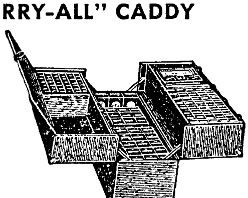


Type TC-201. Easy-to-carry—only two-thirds the size and weight of ordinary caddies. Perfect for quick servicing trips. Holds up to 143 tubes with room for meters and tools. "Break-open" section has cover and snap lock for keeping small parts in order. Brown vinyl covering is long wearing and abrasion-resistant. Has clasp lock. Plastic handle. 12½x15¾x8". Shpg. wt., 10 lbs.

24 D 9681 X.................... 9.55

"CARRY-ALL" CADDY

$15.32

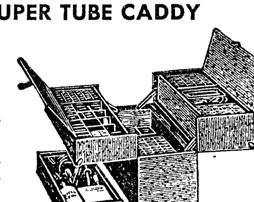


Type TC-4. One of the most popular caddies sold. Carries up to 262 tubes with room for soldering gun, meter, probes, tools, and assorted small parts. "Break-away" design permits quick access to all sections. Partitions aid in orderly arrangement of parts. Has two clasp locks; plastic carrying handle. Scuff-proof brown vinyl covering. Size, 15x21x8". Shpg. wt., 12 lbs.

24 D 9679 X.................. 15.32

SUPER TUBE CADDY

$20.98



Type TC-5. Ruggedly built, double-door caddy for tubes, tools, meters and parts. Carries up to 325 tubes with plenty of space for small parts. For the serviceman who believes in carrying a full load to save extra trips. Has removable 2¾" deep tray featuring "egg crate" design for fuses, bulbs, etc. Brown vinyl. 16½x24x8½". 19 lbs.

24 D 9680 X.................. 20.98

AVAILABLE IN QUANTITY AT FACTORY PRICES . . . IMMEDIATE SHIPMENT

QUICK INDEX

RESISTORS

Mfr's Type	MIL Spec	MIL Type	OEM To	Page
CONTINENTAL-WIRT				
NR-25 (1%)			249	126
DALE				
HG, RH	R-18546C	RE65, RE70, RE75	249	125
RS	R-26C	RW67G/V, RW69G/V	249	125
G-C THERMISTORS			Any	127
HAMILTON-HALL				
Fuse Resistors			Any	127
IRC				
BWH	R-11-D		999	121
GBT, SR	R-11-D	RC07GF, RC20GF, RC32GF, RC42GF	4990	121
CEA, CEB, CEC	R-10509D	RN55B/D, RN60B/D	9999	124
DCC	R-10509D	RN20X, RN70B	9999	124
MEA, MEB, MEC	R-10509	RN60C/D, RN65C/D, RN70C/D	9999	123
Metal Glazed	R-22684B		4999	122
Power Resistors	R-26C		499	126, 130
WW	R-93A		Any	123
Assortments			Any	130
MALLORY				
MOL Series			999	129
OHMITE				
Carbon	R-11- E	RC05GF, RC07GF, RC20GF, RC32GF, RC42GF	Any	122
Power	R26C	RW57, 58, 59, 67, 68, 69	249	127, 128
SPRAGUE				
Power	R-26C	RW69G/V	499	129
SUPERIOR			99	130
WUERTH				
Surgistors			Any	130

CONTROLS

Mfr's Type	MIL Spec	MIL Type	OEM To	Page
AMPHENOL-BORG Micropot®			199	142
BOURNS				
200, 215, 224, 235, 3051			499	131
236, 260, 3010, 3011			499	132
271-276, 3012, 3052, 3053, 3067, 3068, 3257			499	133
207-209, 220		RT10, RT11, RT12, RT22, RJ11, RJ12, RT22	499	134
3000, 3001, 3250, 3251, 3260, 3280, 3281			499	135
3070, 3300, 3301, 3307, 3367, 3368	R-27208A		499	136
3400, 3500, 3507, 3510, 3520, 3700			249	137
3020, 3600, 3640, 3660			99	138
CENTRALAB WN, WW	R19A		249	145
CLAROSTAT 53, 58, 48M-9, 62JA, 43C2, 53C, U39	R-94	RV4	249	150
IRC-CTS Circuitrim	R-22907	RJ12	999	139
Precision			999	140, 141
Military	R-94B	RV4, RV5, RV6	249	145
	R-19A	RA20, RA30	249	145
Series 45			299	144
PQ, RQ, RQL, WM,			Any	143
WP, Q			Any	144
MALLORY Hardware			Any	148, 149
T and L-Pads		-	499	148
SU, U, VW, TSA, MTC, R			499	149
M			499	148
OHMITE AB	R-94B	RV4	Any	147
AS	R-94	RV6	Any	148
E, H, J, K, L, N			49	146

ALLIED ELECTRONICS

Same-Day Shipment . . World's Largest Inventory . . O. E. M. Prices

Carbon and Wirewound Insulated Resistors

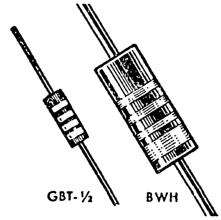
CARBON COMPOSITION AND WIREWOUND RESISTORS

Type GBT and SR Fixed Composition Resistors. Choose from 10% (Table A) or 5% (Table B) tolerances. Engineered to meet or exceed MIL-R-11 specifications. Withstand 50 to 100% overloads for short periods of time. EIA (RETMA) coded for easy identification. Have well-anchored, positive-contact leads with no hot spots. Sizes: GBT-¼, ¼x³⁄₃₂"; GBT-½, ⁵⁵⁄₆₄x⁹⁄₆₄"; GBT-1, ⁹⁄₁₆x⁷⁄₃₂"; SR-2, ¹¹⁄₁₆x⁵⁄₁₆". Shpg. wt. per 100: ¼W, 4 oz.; ½W, 6 oz.; 1W, 10 oz.; 2W, 14 oz.

Type BWH-2-Watt Fixed Wire-Wound. Available in values up to 1800 Ohms. Choose from 10% (Table A) or 5% (Table B) tolerances. Rated at 2-watts up to 158°F ambient temperature; 1-watt at 239°F; and ½-watt at 279°F. Manufactured to meet MIL-R-11D specifications. EIA (RETMA) coded for easy identification; wide first band. Inductance .04-4.5 μh from .24-1800 ohms respectively. Same size as 1-watt composition resistors listed above. Shpg. wt. per 100, 10 oz.

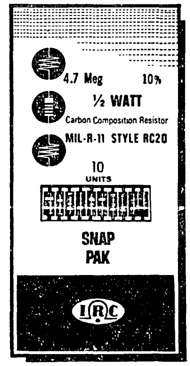
EXPLANATION OF MIL NUMBERS

MIL Numbers. Example: RC07GF-153K. RC designates composition type resistor. 07, ¼-watt rating. GF, characteristic—ambient temperature. (G) and resistance temperature (F) in reference to MIL-R-11D specification, 153, indicates nominal resistance in ohms—first 2 digits are significant figures, 3rd digit is number of zeros to add. Tolerance—J, ±5%; K, ±10%; M, ±20%.



HANDY NEW "SNAP PAK"

Resistors can be tested while *in package*. Added protection, faster identification. 10 resistors per pkg. in ¼ and ½-watt sizes 5 per pkg. in larger sizes. Snap-Pak not available with BWH types.



10% INSULATED GBT, SR AND BWH TYPES

TYPE GBT, SR 10% FIXED COMPOSITION—SPECIFY VALUES WANTED

Stock No.	Mfr's Type	MIL Equiv.	Watts	Values See Table "A"	May Be Assorted (Order Each Value in Multiples of 10) EACH 10-99	100-499	500-999	1000-4999
45 D 7150 C	GBT-¼	RC07GF	¼	10Ω to 1 meg	.06	.05	.035	.027
45 D 5000 C	GBT-½	RC20GF	½	2.7Ω to 22 meg	.06	.04	.03	.025
45 D 5020 C	GBT-1	RC32GF	1	10Ω to 22 meg	.09	.053	.045	.038
45 D 5070 C	SR-2	RC42GF	2	10Ω to 22 meg	.15	.096	.088	.075

TYPE BWH 10% 2-WATT FIXED WIREWOUND—SPECIFY VALUES WANTED—TO 1800 OHMS ONLY

Stock No.	Mfr's Type	MIL Equiv.	Watts	Values See Table "A"	EACH 1-99	Order Minimum of 100 Per Value EACH 100-249	250-499	500-999
45 D 5076 C	BWH	....	2	.27Ω to 8.2Ω	.24	.144	.096	.064
45 D 5077 C	BWH	....	2	10Ω to 1800Ω	.18	.108	.072	.058

TABLE "A"—10% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
0.27	0.82	2.7	8.2	27	82	270	820	2700	8200	27K	82K	270K	820K	2.7	8.2
0.33	1.0	3.3	10	33	100	330	1000	3300	10K	33K	100K	330K	1.0 meg	3.3	10
0.39	1.2	3.9	12	39	120	390	1200	3900	12K	39K	120K	390K	1.2 meg	3.9	12
0.47	1.5	4.7	15	47	150	470	1500	4700	15K	47K	150K	470K	1.5 meg	4.7	15
0.56	1.8	5.6	18	56	180	560	1800	5600	18K	56K	180K	560K	1.8 meg	5.6	18
0.68	2.2	6.8	22	68	220	680	2200	6800	22K	68K	220K	680K	2.2 meg	6.8	22

5% INSULATED GBT, SR AND BWH TYPES

TYPE GBT, SR 5% FIXED COMPOSITION—SPECIFY VALUES WANTED

Stock No.	Mfr's Type	MIL Equiv.	Watts	Values See Table "B"	May Be Assorted (Order Each Value in Multiples of 10) EACH 10-99	100-499	500-999	1000-4999
45 D 7155 C	GBT-¼	RC07GF	¼	10Ω to 1 meg	.10	.073	.065	.05
45 D 5005 C	GBT-½	RC20GF	½	2.7Ω to 22 meg	.12	.059	.05	.044
45 D 5025 C	GBT-1	RC32GF	1	10Ω to 22 meg	.18	.084	.08	.069
45 D 5045 C	SR-2	RC42GF	2	10Ω to 22 meg	.24	.185	.16	.15

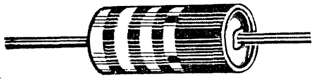
TYPE BWH 5% 2-WATT FIXED WIREWOUND—SPECIFY VALUES WANTED—TO 1800 OHMS ONLY

Stock No.	Mfr's Type	MIL Equiv.	Watts	Values See Table "B"	EACH 1-99	Order Minimum of 100 Per Value EACH 100-249	250-499	500-999
45 D 5078 C	BWH	....	2	.24Ω to 9.1Ω	.47	.285	.189	.143
45 D 5079 C	BWH	....	2	10Ω to 1000Ω	.30	.18	.12	.09
45 D 5024 C	BWH	....	2	1100Ω to 1800Ω	.33	.198	.132	.099

TABLE "B"—5% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
0.24	0.91	3.6	13	51	200	750	3000	11K	43K	160K	620K	2.4	9.1
0.27	1.0	3.9	15	56	220	820	3300	12K	47K	180K	680K	2.7	10
0.30	1.1	4.3	16	62	240	910	3600	13K	51K	200K	750K	3.0	11
0.33	1.2	4.7	18	68	270	1000	3900	15K	56K	220K	820K	3.3	12
0.36	1.3	5.1	20	75	300	1100	4300	16K	62K	240K	910K	3.6	13
0.39	1.5	5.6	22	82	330	1200	4700	18K	68K	270K	1.0 meg	3.9	15
0.43	1.6	6.2	24	91	360	1300	5100	20K	75K	300K	1.1 meg	4.3	16
0.47	1.8	6.8	27	100	390	1500	5600	22K	82K	330K	1.2 meg	4.7	18
0.51	2.0	7.5	30	110	430	1600	6200	24K	91K	360K	1.3 meg	5.1	20
0.56	2.2	8.2	33	120	470	1800	6800	27K	100K	390K	1.5 meg	5.6	22
0.62	2.4	9.1	36	130	510	2000	7500	30K	110K	430K	1.6 meg	6.2	....
0.68	2.7	10	39	150	560	2200	8200	33K	120K	470K	1.8 meg	6.8	....
0.75	3.0	11	43	160	620	2400	9100	36K	130K	510K	2.0 meg	7.5	....
0.82	3.3	12	47	180	680	2700	10K	39K	150K	560K	2.2 meg	8.2	....

2%, 5%, and 10% Resistors by Ohmite and IRC



OHMITE "LITTLE DEVIL" RESISTORS AND ASSORTMENTS

Molded composition resistors. Meet MIL-R-11E specs. Can be used at full wattage ratings at 158° F. Breakdown ratings: 1/8 w., 150 v.; 1/4 w., 250 v.; 1/2 w., 350 v.; 1 w., 500 v.; 2 w., 750 v.

CONFORMS TO STYLES OF MIL-R-11E (Shpg wt., per 100, 10 oz.)

1/8-Watt, RC05GF	1/4-Watt, RC07GF	1/2-Watt, RC20GF
1-Watt, RC32GF	2-Watt, RC42GF	

10% RESISTORS—SEE TABLE "A" BELOW FOR STOCK VALUES

Stock No.	Watts	Values—See Table "A" Below	EACH: May Be Asstd 1-4	5-49	50-Up	Asstd—Minimum 100 Per Value 100-249	250-499	500-999	1000-Up
45 D 6037 C	1/8	2.7 ohms to 8.2 ohms	.27	.22	.18	.156	.134	.123	.116
45 D 6038 C	1/8	10 ohms to 22 meg	.24	.20	.16	.140	.122	.112	.105
45 D 6451 C	1/4	2.7 ohms to 8.2 ohms	.14	.12	.08	.055	.055	.044	.037
45 D 6450 C	1/4	10 ohms to 22 meg	.13	.11	.07	.05	.05	.04	.034
45 D 6039 C	1/2	1 ohm to 2.2 ohms	.13	.11	.07	.05	.05	.04	.034
45 D 6040 C	1/2	2.7 ohms to 22 meg.	.12	.10	.06	.04	.04	.032	.03
45 D 6060 C	1	2.7 ohms to 22 meg	.18	.15	.09	.06	.055	.050	.045
45 D 6080 C	2	10 ohms to 22 meg	.24	.20	.15	.11	.096	.088	.082

TABLE "A" 10% RESISTORS—SPECIFY VALUES WANTED

Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Meg	Meg
1	3.9	15	56	220	820	3300	12K	47K	180K	680K	2.7	10
1.2	4.7	18	68	270	1000	3900	15K	56K	220K	820K	3.3	12
1.5	5.6	22	82	330	1200	4700	18K	68K	270K	1.0 meg	3.9	15
1.8	6.8	27	100	390	1500	5600	22K	82K	330K	1.2 meg	4.7	18
2.2	8.2	33	120	470	1800	6800	27K	100K	390K	1.5 meg	5.6	22
2.7	10	39	150	560	2200	8200	33K	120K	470K	1.8 meg	6.8	.....
3.3	12	47	180	680	2700	10K	39K	150K	560K	2.2 meg	8.2	.....

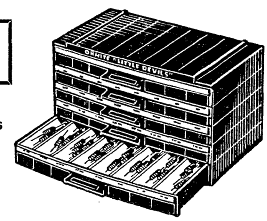
5% RESISTORS—SEE TABLE "B" BELOW FOR STOCK VALUES

Stock No.	Watts	Values—See Table "B" Below	EACH: May Be Asstd 1-4	5-49	50-Up	Asstd—Minimum 100 Per Value 100-249	250-499	500-999	1000-Up
45 D 6042 C	1/8	2.7 ohms to 9.1 ohms	.37	.31	.25	.218	.190	.175	.164
45 D 6043 C	1/8	10 ohms to 22 meg	.34	.28	.22	.198	.173	.159	.149
45 D 6456 C	1/4	2.7 ohms to 9.1 ohms	.29	.24	.15	.105	.100	.080	.068
45 D 6455 C	1/4	10 ohms to 22 meg	.26	.22	.14	.095	.091	.073	.062
45 D 6044 C	1/2	1 ohm to 2.4	.26	.22	.14	.095	.091	.073	.062
45 D 6045 C	1/2	2.7 ohms to 22 meg	.24	.20	.12	.075	.073	.065	.056
45 D 6065 C	1	2.7 ohms to 22 meg	.36	.30	.18	.125	.123	.110	.09
45 D 6085 C	2	10 ohms to 22 meg	.48	.40	.24	.190	.185	.175	.16

TABLE "B"—5% TOLERANCE RESISTORS—SPECIFY VALUES WANTED

Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Meg	Meg
1.0	3.9	15	56	220	820	3300	12K	47K	180K	680K	2.7	10
1.1	4.3	16	62	240	910	3600	13K	51K	200K	750K	3.0	11
1.2	4.7	18	68	270	1000	3900	15K	56K	220K	820K	3.3	12
1.3	5.1	20	75	300	1100	4300	16K	62K	240K	910K	3.6	13
1.5	5.6	22	82	330	1200	4700	18K	68K	270K	1.0 meg	3.9	15
1.6	6.2	24	91	360	1300	5100	20K	75K	300K	1.1 meg	4.3	16
1.8	6.8	27	100	390	1500	5600	22K	82K	330K	1.2 meg	4.7	18
2.0	7.5	30	110	430	1600	6200	24K	91K	360K	1.3 meg	5.1	20
2.2	8.2	33	120	470	1800	6800	27K	100K	390K	1.5 meg	5.6	22
2.4	9.1	36	130	510	2000	7500	30K	110K	430K	1.6 meg	6.2	.....
2.7	10	39	150	560	2200	8200	33K	120K	470K	1.8 meg	6.8	.....
3.0	11	43	160	620	2400	9100	36K	130K	510K	2.0 meg	7.5	.....
3.3	12	47	180	680	2700	10K	39K	150K	560K	2.2 meg	8.2	.....
3.6	13	51	200	750	3000	11K	43K	160K	620K	2.4 meg	9.1	.....

FREE Cabinet

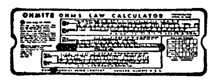


5 Drawers 40 Compartments

Designed to provide a handy inventory of popular-value resistors. Available in a selected supply of either 150 1/4- or 1/2-watt resistors, or 125 1- or 2-watt resistors in most-often-needed resistance values for replacement or original equipment design use. Provided in a handsome plastic cabinet, 4 3/4x9x5 1/4", at no extra charge. Cabinet has 5 drawers and 40 compartments. Has dovetail top and bottom. Shpg. wt., 7 lbs.

Stock No.	Mfr's Type	Description	EACH
45 D 6760	CAB-4	150 1/4-watt resistors	19.50
45 D 6761	CAB-10	150 1/2-watt resistors	18.00
45 D 6759	CAB-2	125 1-watt resistors	22.50
45 D 6762	CAB-3	125 2-watt resistors	30.00

OHMITE HANDY OHM'S LAW CALCULATOR

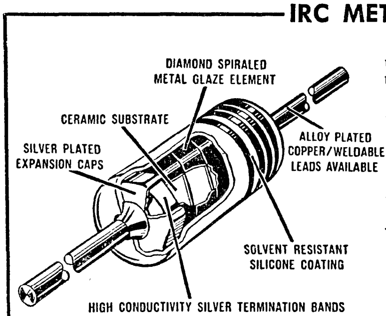


Easy-to-use rapid calculator. Quickly solves any electrical problems involving various applications of Ohm's Law—even has a parallel-resistance calculator. 9x3". Wt., 2 oz.
45 D 6780. Varnished Cardboard. . .25
45 D 6781. Deluxe Plastic Model. . . 1.50

ALLIED COLOR-CODE GUIDE

Easy way to read color code. Includes tolerance code and listing of EIA-JAN 5 and 10% std. stock values. Pocket size, only 2x4 3/4". Guide is supplied FREE with order for 20 or more resistors. Shpg. wt., 2 oz.
45 D 6770 G. .10

IRC METAL-GLAZE 2% AND 5% RESISTORS



Features a unique, thick-film resistance element made of glass and precious-metal alloys, fused to a crystalline ceramic core. Withstands high temperatures and overloads. Meets MIL-R-22684B. Performs better than MIL-R-11 units.

Metal-glaze film is up to 100 times thicker than conventional films. Offer excellent temperature coefficients across a wide resistance range. Average resistance changes less than 0.6% after 1000 hours, full load at 70°C. Derated to 0 at 150°. Av. wt./100, 6 oz.

Stock No.	Type	Watts	Stock Values—See Table Below	EACH 1-99	100-249	250-499	500-999	1000-4999
2%-TOLERANCE RESISTORS								
45 D 5110 C	RL07	1/4	51 ohms to 75K	.37	.26	.18	.15	.145
45 D 5111 C	RL20	1/2	51 ohms to 75K	.30	.24	.18	.15	.090
5%-TOLERANCE RESISTORS								
45 D 5113 C	RL07	1/4	51 ohms to 75K	.29	.22	.16	.14	.125
45 D 5114 C	RL20	1/2	51 ohms to 75K	.25	.20	.15	.09	.065

TABLE OF STANDARD RESISTANCE VALUES—SPECIFY VALUES WANTED

Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm
51	100	200	390	750	1500	3300	5600	10K	18K	33K	56K
56	110	220	430	820	1600	3600	6200	11K	20K	36K	62K
62	120	240	470	910	1800	3900	6800	12K	22K	39K	68K
68	130	270	510	1000	2000	4300	7500	13K	24K	43K	75K
75	150	300	560	1100	2400	4700	8200	15K	27K	47K	....
82	160	330	620	1200	2700	5100	9100	16K	30K	51K	....
91	180	360	680	1300	3000	....	....	....	....	....	....

Specify Resistance and Wattage when Ordering Resistors

IRC 1% Metal-Film and Wirewound Resistors

PRECISION RESISTORS THAT MEET RIGID MILITARY SPECIFICATIONS

EXPLANATION OF MILITARY STYLE NUMBERS

EXAMPLE USED IN EXPLANATION

(A)	(B)	(C)	(D)	(E)
RN60	D	249	4	F

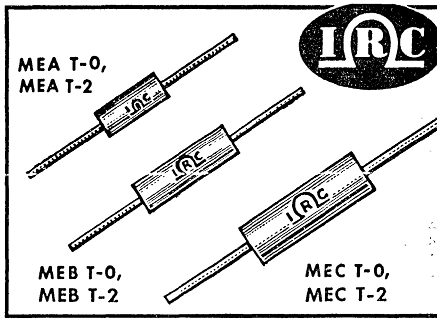
(A) Identifies size and wattage.

(B) Identifies characteristic. D stands for +0.02, −0.05 max. temperature coefficient %/°C; 70° maximum ambient at rated watts; 3 (wet), 1.5 (dry) ±% maximum change due to moisture resistance. C: ±.005; 125°C; 0.5 (wet or dry); X: ±0.05; 40°C; ±4 (wet).

(C) Identifies ohms. First 3 digits are significant.

(D) An additional figure indicates number of zeros that follow. If an R follows, it represents decimal point for values under 100 ohms or fractional values. Digits following R become significant, as 24.9 = 24R9.

(E) Identifies resistance tolerance. In this case, ±1%.



ME T-O MOLDED METAL-FILM RESISTORS—MEET MIL-R-10509

MEA, 30.1 Ohms to 499K—MEB, 51.1 Ohms to 1 Meg—MEC, 51.1 Ohms to 1.5 Megs

Precision-made, 1% tolerance, molded metal-film resistors. Feature stability and thermal noise characteristics comparable to precision wirewound resistors; have lower noise and better temperature coefficient than deposited carbon or oxide film types. High temperature plastic case ensures sufficient moisture resistance. Voltage coefficient is less than 5PPM/V. Temperature coefficient characteristic of 0 ±100 PPM/°C over a temperature range of −55° C to +165° C. *Wattage for Characteristic B @ 70° C ambient. †Wattage for Characteristic D at 70° ambient. Meets Characteristic B at 125° C ambient temperature. Av. shpg. wt. per 100, 7 oz.

Stock No.	Mfr's Type	MIL Type	Watts		Max. Cont. Volts	Stock Values—See Table "A" Below	EACH ASSORTED		EACH ASSORTED Minimum 20 Per Value		
			B*	D†			1-24	25-Up	100-249	250-999	1000-9999
45 D 5002 C	MEA-T-O	RN60D	⅛	¼	300	30.1 ohms to 82.5 ohms	.99	.46	.32	.21	.18
45 D 5003 C	MEA-T-O	RN60D	⅛	¼	300	100 ohms to 499K	.85	.44	.30	.17	.14
45 D 5006 C	MEB-T-O	RN65D	¼	½	350	51.1 ohms to 82.5 ohms	.99	.46	.32	.21	.18
45 D 5007 C	MEB-T-O	RN65D	¼	½	350	100 ohms to 1 meg	.85	.44	.30	.17	.14
45 D 5009 C	MEC-T-O	RN70D	½	¾	500	51.1 ohms to 82.5 ohms	.99	.46	.32	.21	.18
45 D 5011 C	MEC-T-O	RN70D	½	¾	500	100 ohms to 1.5 meg	.85	.44	.30	.17	.14

ME T-2 MOLDED METAL FILM RESISTORS—MEET MIL-R-10509

MEA, 30.1 Ohms to 499K—MEB, 51.1 Ohms to 1 Meg—MEC, 51.1 Ohms to 1.5 Megs

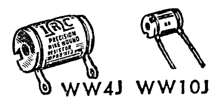
1% precision-made molded metal film resistors easily meet Type RN60C of MIL-R-10509D specifications. Have temperature coefficient characteristics of 0 ±50 PPM/°C over a temperature span of —55° C to +165° C. Rated for full load (⅛ watt) at 125° C; for zero load at 175° C. Have inherently low noise levels Feature voltage coefficient of less than 5 PPM/V. Available in resistance values from 30.1 ohms to 1.50 megohms. Specify values from Table "A" below when ordering. Av. shpg. wt. per 100, 7 oz.

Stock No.	Mfr's Type	MIL Type	Watts ±125°C	Stock Values—See Table "A" Below	EACH ASSORTED		EACH ASSORTED Minimum 20 Per Value	
					1-24	25-Up	100-999	1000-9999
45 D 5456 C	MEA T-2	RN60C	⅛	30.1 ohms to 499K	1.31	.70	.39	.30
45 D 7151 C	MEB T-2	RN65C	¼	51.1 ohms to 1 meg	1.31	.70	.39	.30
45 D 7153 C	MEC T-2	RN70C	½	51.1 ohms to 1.5 megs	1.31	.70	.39	.30

TABLE "A"—MIL-OHM VALUES AVAILABLE FROM STOCK—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
30.1	82.5	215	464	750	1470	2210	3570	5620	8450	15K	27.4K	54.9K	133K	301K	576K
31.6	100	221	475	806	1500	2260	3650	5760	8660	16.2K	30.1K	56.2K	150K	324K	604K
33.2	105	249	487	825	1580	2320	3740	5900	8870	16.9K	31.6K	60.4K	178K	332K	825K
34.0	113	261	499	909	1620	2370	3920	6040	9090	17.8K	33.2K	61.9K	182K	340K	909K
34.8	121	274	511	1000	1650	2490	4020	6190	9530	18.2K	34K	66.5K	196K	365K	
40.2	130	301	562	1100	1690	2610	4220	6340	10K	19.6K	38.3K	68.1K	200K	392K	Megs
46.4	133	316	576	1150	1740	2670	4320	6490	10.2K	20K	39.2K	69.8K	215K	402K	1.00
47.5	143	332	590	1210	1780	2740	4420	6810	11K	21.5K	40.2K	75K	221K	464K	1.05
49.9	147	348	604	1240	1820	2800	4640	7150	12.1K	22.1K	42.2K	80.6K	249K	475K	1.10
51.1	150	383	619	1270	1910	2870	4750	7500	13K	23.7K	43.2K	82.5K	255K	487K	1.21
56.2	162	392	634	1300	1960	3010	4870	7680	13.3K	24.9K	47.5K	90.9K	261K	499K	1.50
61.9	178	402	649	1330	2000	3090	4990	7870	14K	25.5K	48.7K	100K	267K	511K	....
68.1	182	422	681	1400	2050	3160	5110	8060	14.3K	26.1K	49.9K	110K	280K	536K	....
75.0	200	432	715	1430	2150	3320	5490	8250	14.7K	26.7K	51.1K	121K	287K	562K	....

WIREWOUND 1% PRECISION RESISTORS



Precision resistors surpassing MIL-R-93A specifications. Power ratings at 85° C. WW4J ½-Watt. Wound in four sections, 700 v. max. breakdown voltage. Rated 1.20-watts at 40° C ambient, 0.50-watts at 85°C. Lug terminals. Size, 9/16x1″. WW10J 0.15-Watt. Wound in 1 section, 200 v. max. breakdown voltage. Rated 1.00-watt at 40° C ambient, 0.15-watts at 85° C. 2″ leads. 9/32x1 3/32″. Av. shpg. wt., 2 oz.

TYPE WW4J

Stock No.	Stock Values—See Table at Right	EACH
45 D 6500 C	0.1 to 100 ohms	1.32
45 D 6501 C	250 to 1000 ohms	1.41
45 D 6502 C	1500 to 5000 ohms	1.53
45 D 6503	10K only	1.62
45 D 6504 C	20K to 50K	2.10
45 D 6505	100 K only	2.37
45 D 6506 C	125K and 200K	2.61
45 D 6507 C	250K and 300K	2.88

TYPE WW4J

Stock No.	Stock Values—See Table at Right	EACH
45 D 6509	500K only	3.87

TYPE WW10J

Stock No.	Stock Values	EACH
45 D 6510 C	10 to 50 ohms	1.35
45 D 6511 C	100 to 1000 ohms	1.29
45 D 6512 C	1500 to 5000 ohms	1.32
45 D 6513	10K only	1.38
45 D 6514 C	20K to 50K	1.62
45 D 6515	100K only	1.80

MIL-OHM STOCK VALUES

Ohms	Ohms	Ohms	Ohms	Ohms
0.1	50	2000	25K	250K
0.2	100	3000	30K	300K
0.5	250	4000	40K	500K
1	300	5000	50K	....
5	500	10K	100K	......
10	1000	20K	125K	.....
25	1500	22.5K	200K	....

1% Metal Film and Epoxy-Coated Resistors

TYPE CE T-O EVAPORATED METAL-FILM RESISTORS

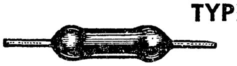
CEA T-O, CEB T-O, CEC T-O. Precision ±1% evaporated metal-film resistors with M-coat—a special moisture proofing encapsulation identified by its gray color. All have temperature coefficient characteristic of 0 ±100 PPM/°C over a temperature span of —55° to +165° C. Low noise level; 3 sigma of the noise level is below 0.1 microvolt/volt over the audible spectrum. Voltage coefficient when measured between 1/10 and full rated voltage is less than 5 PPM/volt for all values. Power ratings are based on 125°C ambient. Leads are 1½″ ±⅛″ long, alloy coated; may be dip-soldered. Resistance, tolerance, TC code stanped on each unit. **Specify values desired—see Table "A".** Shpg. wt. per 100, 10 oz.

Stock No.	Mfr's Type	MIL Type	Watts	Max. Cont. Volts	Values—See Table "A" Below	EACH ASSORTED		EACH ASSORTED Min. of 20 PER VALUE		
						1-24	25-UP	100-249	250-999	1000-9999
45 D 5014 C	CEA T-O	RN55B/D	⅛	250	10 ohms to 97.6 ohms	.99	.46	.32	.21	.18
45 D 5016 C	CEA T-O	RN55B/D	⅛	250	100 ohms to 499K ohms	.85	.44	.30	.17	.14
45 D 5012 C	CEB T-O	RN60B/D	¼	300	10 ohms to 97.6 ohms	.99	.46	.32	.21	.18
45 D 5013 C	CEB T-O	RN60B/D	¼	300	100 ohms to 1 meg ohm	.85	.44	.30	.17	.14
45 D 5017 C	CEC T-O	....	½	350	10 ohms to 97.6 ohms	.99	.46	.32	.21	.18
45 D 5018 C	CEC T-O	....	½	350	100 ohms to 1.5 meg ohm	.54	.28	.21	.11	.095

TABLE "A"—MIL-OHM VALUES AVAILABLE FROM STOCK—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
10.0	21.5	46.4	100	215	453	953	2000	4220	8870	18.7K	39.2K	82.5K	174K	365K	768K
10.2	22.1	47.5	102	221	464	976	2050	4320	9090	19.1K	40.2K	84.5K	178K	374K	787K
10.5	22.6	48.7	105	226	475	1000	2100	4420	9310	19.6K	41.2K	86.6K	182K	383K	806K
10.7	23.2	49.9	107	232	487	1020	2150	4530	9530	20K	42.2K	88.7K	187K	392K	825K
11.0	23.7	51.1	110	237	499	1050	2210	4640	9760	20.5K	43.2K	90.9K	191K	402K	845K
11.3	24.3	52.3	113	243	511	1070	2260	4750	10K	21K	44.2K	93.1K	196K	412K	866K
11.5	24.9	53.6	115	249	523	1100	2320	4870	10.2K	21.5K	45.3K	95.3K	200K	422K	887K
11.8	25.5	54.9	118	255	536	1130	2370	4990	10.5K	22.1K	46.4K	97.6K	205K	432K	909K
12.1	26.1	56.2	121	261	549	1150	2430	5110	10.7K	22.6K	47.5K	100K	210K	442K	931K
12.4	26.7	57.6	124	267	562	1180	2490	5230	11K	23.2K	48.7K	102K	215K	453K	953K
12.7	27.4	59.0	127	274	576	1210	2550	5360	11.3K	23.7K	49.9K	105K	221K	464K	976K
13.0	28.0	60.4	130	280	590	1240	2610	5490	11.5K	24.3K	51.1K	107K	226K	475K	
13.3	28.7	61.9	133	287	604	1270	2670	5620	11.8K	24.9K	52.3K	110K	232K	487K	**Megs**
13.7	29.4	63.4	137	294	619	1300	2740	5760	12.1K	25.5K	53.6K	113K	237K	499K	1.00
14.0	30.1	64.9	140	301	634	1330	2800	5900	12.4K	26.1K	54.9K	115K	243K	511K	1.02
14.3	30.9	66.5	143	309	649	1370	2870	6040	12.7K	26.7K	56.2K	118K	249K	523K	1.05
14.7	31.6	68.1	147	316	665	1400	2940	6190	13K	27.4K	56.7K	121K	255K	536K	1.07
15.0	32.4	69.8	150	324	681	1430	3010	6340	13.3K	28K	59K	124K	261K	549K	1.10
15.4	33.2	71.5	154	332	698	1470	3090	6490	13.7K	28.7K	60.4K	127K	267K	562K	1.13
15.8	34.0	73.2	158	340	715	1500	3160	6650	14K	29.4K	61.9K	130K	274K	576K	1.15
16.2	34.8	75.0	162	348	732	1540	3240	6810	14.3K	30.1K	63.4K	133K	280K	590K	1.18
16.5	35.7	76.8	165	357	750	1580	3320	6980	14.7K	30.9K	64.9K	137K	287K	604K	1.21
16.9	36.5	78.7	169	365	768	1620	3400	7150	15K	31.6K	66.5K	140K	294K	619K	1.24
17.4	37.4	80.6	174	374	787	1650	3480	7320	15.4K	32.4K	68.1K	143K	301K	634K	1.27
17.8	38.3	82.5	178	383	806	1690	3570	7500	15.8K	33.2K	69.8K	147K	309K	649K	1.30
18.2	39.2	84.5	182	392	825	1740	3650	7680	16.2K	34K	71.5K	150K	316K	665K	1.33
18.7	40.2	86.6	187	402	845	1780	3740	7870	16.5K	34.8K	73.2K	154K	324K	681K	1.37
19.1	41.2	88.7	191	412	866	1820	3830	8060	16.9K	35.7K	75K	158K	332K	698K	1.40
19.6	42.2	90.9	196	422	887	1870	3920	8250	17.4K	36.5K	76.8K	162K	340K	715K	1.43
20.0	43.2	93.1	200	432	909	1910	4020	8450	17.8K	37.4K	78.7K	165K	348K	732K	1.47
20.5	44.2	95.3	205	442	931	1960	4120	8660	18.2K	38.3K	80.6K	169K	357K	750K	1.50
21.0	45.3	97.6	210	....	....	....	....	....	....	....	....	....	....	....	....

TYPE DCC EPOXY-COATED DEPOSITED-CARBON RESISTORS



Precision 1% tolerance resistors. Incorporate pure crystalline carbon particles deposited in film form and bonded on a special ceramic rod to produce film-type elements of exacting resistance standards. Meet all performance and stability requirements for specification MIL-R-10509D, Style RN70B; also meet all requirements of style RN20X. Extra-heavy epoxy "M" coat withstands 30 cycles of MIL moisture test and protects against mechanical damage from soldering and wiring. Silver-to-silver contact is provided between element and terminals; leads are alloy coated for sound soldered connections. Type, resistance, tolerance, code date of manufacture stamped on each unit. Rated at ½-watt at 70°C ambinet; derate to zero at 150°C. **Specify values when ordering—see Table "B."** Shpg. wt. per 100, 10 oz.

Stock No.	Mfr's Type	MIL Type	Watts	Max. Cont. Volts	Values—See Table "B" Below	EACH ASSORTED		EACH, ASSORTED MIN. OF 20 PER VALUE		
						1-24	25-Up	100-249	250-999	1000-9999
45 D 5493 C	DCC	RN20X	½	350	10 ohms to 2.49 megs	.54	.28	.21	.11	.095

TABLE "B" MIL-OHM VALUES AVAILABLE FROM STOCK—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs
10.0	30.1	68.1	182	422	825	1620	3400	7500	14K	21.5K	33.2K	61.9K	150K	301K	1.00
12.1	33.2	69.8	200	432	909	1780	4020	8060	14.7K	22.1K	38.3K	68.1K	162K	332K	1.21
15.0	34.8	75.0	215	475	1000	1820	4220	8250	15K	22.6K	39.2K	71.5K	178K	340K	1.50
16.9	42.2	90.9	221	499	1100	2000	4640	8660	16.2K	23.7K	40.2K	80.6K	182K	464K	2.00
20.0	46.4	97.6	249	523	1130	2210	4750	9090	16.5K	24.9K	46.4K	82.5K	196K	499K	2.15
21.5	47.5	100	301	604	1210	2370	4990	10K	16.9K	25.5K	47.5K	90.9K	200K	562K	2.21
22.1	49.9	110	316	681	1330	2550	5110	11K	18.2K	27.4K	49.9K	100K	215K	750K	2.49
24.9	51.1	121	332	698	1400	2740	5620	12.1K	19.6K	28K	51.1K	121K	221K	....	....
26.1	56.2	124	392	750	1470	3010	6040	12.4K	20K	28.7K	56.2K	130K	255K	....	....
28.7	61.9	150	402	806	1500	3320	6810	13K	20.5K	30.1K	60.4K	147K	267K	....	....

EXPLANATION OF MIL NUMBERS

Example: RN60 B 2671 F

RN60, high-stability film resistor and size and wattage.

B, characteristic—see Table, next column. TC is ±0.05%/°C.

2671, ohms resistance. First three digits are significant figures, last digit is zeros to add. For values under 100 ohms, the letter R is used to indicate decimal point, e.g. 34R8 is 34.8.

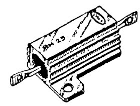
F, resistance tolerance: ±1%.

CHARACTERISTICS

Code	Max. Ambient at Rated Watts	Max. Change Due to Moisture Resistance Test
B, D	70° C	±3% wet, ±1.5% dry
C	125° C	±0.5%, wet or dry
X	40° C	±4% wet

Dale Wirewound 1% Resistors

SERIES RH POWER RESISTORS



Sealed, radiator-finned aluminum housings screw-mount directly to chassis for max. heat dissipation. Welded construction, terminal to terminal. Small size. Meets MIL-R-18546C. Precision ±1% tolerance. *Tol. of less than 1% available on special order. For ±.5% tolerance, add 100% to prices shown. For ±.25%, add 150%; for .1% add 200% for ±.05%, add 300%.* Specify values from Table "A", at right. Average shpg. wt. per 100 resistors, 3¼ lbs.

TYPE RH-5—7.5-WATT. MIL-TYPE RE60 .600x.344x.320"

Stock No.	Values—See Table "A" at Right	EACH 1-24	25-49	50-99	100-249
45 D 6925 C	1 ohm to 1000 ohms	1.92	1.55	1.46	1.37
45 D 6926 C	1400 to 5000	2.01	1.63	1.54	1.44
45 D 6927 C	6000 to 10K	2.18	1.76	1.66	1.55
45 D 6929	15K	2.54	2.05	1.93	1.81
45 D 6930	20K	2.72	2.49	2.28	2.05

TYPE RH-10—12.5-WATT. MIL-TYPE RE65 .750x.420x.390"

45 D 6352 C	1 to 1000	1.82	1.45	1.36	1.27
45 D 6353 C	1400 to 5000	1.91	1.53	1.44	1.34
45 D 6354 C	6000 to 10K	2.08	1.66	1.56	1.45
45 D 6356	15K	2.44	1.95	1.83	1.71
45 D 6357 C	20K and 25K	2.62	2.39	2.18	1.95
45 D 6358	30K	2.90	2.65	2.41	2.17

TYPE RH-25—25-WATT. MIL-TYPE RE70 1.062x.550x.546"

45 D 6359	.5 ohm	3.60	3.30	3.00	2.70
45 D 6360 C	1 to 1000	1.82	1.45	1.36	1.27
45 D 6361 C	1400 to 5000	1.91	1.53	1.44	1.34
45 D 6362 C	6000 to 10K	2.08	1.66	1.56	1.45
45 D 6364	15K	2.44	1.95	1.83	1.71
45 D 6365 C	20K and 25K	2.62	2.39	2.18	1.95
45 D 6366	30K	2.90	2.65	2.41	2.17
45 D 6367	50K	3.19	2.91	2.64	2.42

TYPE RH-50—50-WATT. MIL-TYPE RE75 1.968x.630x.610"

45 D 6380	.5 ohm	3.77	3.45	3.14	2.83
45 D 6369 C	1 to 5	3.23	2.59	2.42	2.26

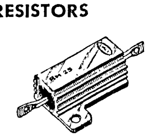
TABLE "A"
STOCK VALUES (OHMS)—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
.5	4.5	20	70	175	350	700	1800	6000
1	5	25	75	180	375	750	2000	10K
1.5	6	30	80	200	400	900	2500	15K
2	7.5	35	85	220	470	1000	3000	20K
2.5	8	40	100	225	500	1400	3500	25K
3	10	50	125	250	560	1500	4000	30K
4	15	60	150	300	600	1750	5000	50K

TYPE RH-50—50-WATT (Cont'd)

Stock No.	Values—See Table "A" Above	EACH 1-24	25-49	50-99	100-249
45 D 6370 C	6 to 1000	2.23	1.78	1.67	1.56
45 D 6371 C	1400 to 5000	2.34	1.87	1.76	1.64
45 D 6372 C	6000 to 10K	2.53	2.02	1.89	1.77
45 D 6373 C	15K to 20K	2.75	2.20	2.06	1.93
45 D 6374 C	25K to 50K	3.00	2.40	2.24	2.10

SERIES HG-25 MINIATURE 35-WATT RESISTORS



Precision wirewound power resistors exceed the requirements of MIL-R-18546C (RE-70). Provide more than double the MIL specifications power requirements, yet retain miniature size. Rated at 35 watts. HG resistors are designed to operate under the most severe environmental conditions. Aluminum housing (radiator-finned). Chassis mount for maximum heat dissipation. ±1% tolerance. Terminals are tinned copperweld. 1.062x.550x.546". Specify values from Table "A", above. Shpg. wt. per 100, 3¼ lbs.

Stock No.	Values—See Table "A" Above	EACH 1-24	25-49	50-99	100-249
45 D 7178 C	1 to 1000 ohms	3.37	2.68	2.52	2.35
45 D 7179 C	1400 to 5000	3.53	2.83	2.66	2.48
45 D 7180 C	6000 to 10K	3.85	3.07	2.89	2.68
45 D 7182	15K	4.51	3.61	3.39	3.16
45 D 7183 C	20K and 25K	4.85	4.42	4.03	3.61
45 D 7184	30K	5.37	4.90	4.46	4.01
45 D 7185	50K	5.90	5.38	4.88	4.48

SERIES RS 1% MINIATURE POWER RESISTORS

Series RS resistors are specifically designed to meet precision power requirements in advanced circuits at high ambient temperatures, and when space is at a premium. Meet the functional requirements of MIL-R-26C specifications. Specially developed silicone coating protects against moisture, salt spray and abrasion; maintains stable performance under the most difficult environmental conditions. Resistors' dielectric strength, 1000 VAC. Tolerance, ±1%. Feature complete-welded construction. Axial leads. Specify values from Table "B" below, when ordering. Shpg. wt. per 100, 2 oz.

RS-1A (1 watt), .406x.093" diameter
RS-1B (1 watt), .531x.093" diameter
RS-2A (2 watts), .812x.188" diameter
RS-2C (2.5 watts), .500x.218" diameter
RS-2 (3 watts), .625x.250" diameter
RS-5 (5 watts), .875x.312" diameter

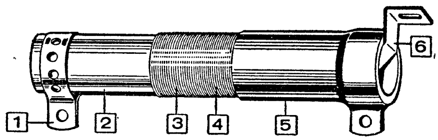
TABLE "B" STOCK VALUES (OHMS)—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
.5	3	10	30	60	100	225	400	650	1200	1800	4000	7000	13K	27.5K	50K
1	4	12	35	70	125	250	450	750	1300	2000	4500	7500	15K	30K	60K
1.5	5	15	40	75	150	270	470	800	1500	2200	5000	10K	20K	35K	
2	6	20	45	80	200	300	500	900	1600	2500	6000	12K	22.5K	40K	
2.5	8	25	50	90	220	350	600	1000	1750	3000	6800	12.5K	25K	47K	

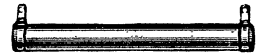
RS-1A (1-Watt) Stock No.	RS-1B (1-Watt) Stock No.	Values (Ohms)—See Table "B" Above	EACH 1-24	25-49	50-99	100-249
45 D 6896	45 D 6902	.5	2.08	1.91	1.74	1.56
45 D 6897 C	45 D 6904 C	1 to 1000	.98	.77	.73	.68
45 D 6898 C	45 D 6905 C	1200 to 4000	1.08	.86	.81	.75
45 D 6899 C	45 D 6906 C	4500 to 5000	1.21	.95	.90	.83
....	45 D 6906 C	6000 to 7500	1.21	.95	.90	.83

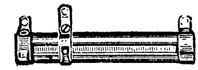
2 Watts RS-2A Stock No.	2½ Watts RS-2C MIL RW69G MIL RW69V Stock No.	3 Watts RS-2 Stock No.	5 Watts RS-5 MIL RW67G MIL RW67V Stock No.	Values (Ohms) See Table "B" Above	EACH 1-24	25-49	50-99	100-249
45 D 6841C	45 D 6381C	45 D 6909C	45 D 6388C	1-1000	.75	.59	.56	.52
45 D 6842C	45 D 6382C	45 D 6910C	45 D 6389C	1200-5000	.83	.66	.62	.57
45 D 6843C	45 D 6383C	45 D 6911C	45 D 6390C	6000-10K	.86	.68	.64	.59
45 D 6844C	45 D 6384C	45 D 6912C	45 D 6391C	12K-15K	.88	.70	.66	.62
45 D 6845	45 D 6385	45 D 6913	45 D 6392	20K	.92	.74	.69	.65
45 D 6846C	....	45 D 6914C	45 D 6393C	22.5K-27.5K	.98	.78	.74	.68
....	....	45 D 6914	....	30K	.98	.78	.74	.68
....	....	....	45 D 6393C	30K-40K	.98	.78	.74	.68
....	....	....	45 D 6394C	47K-50K	1.05	.85	.79	.74
....	....	....	45 D 6395	60K	1.16	.92	.87	.81

Wirewound Power Resistors



1. Clean, easy-to-solder terminals.
2. Quality, selected ceramic cores.
3. Premium, heavy-gauge windings.
4. Uniform spacing—no hot spots.
5. Chip-resistant Resisteg coating.
6. Mtg. brackets with most units.


Fixed


Adjustable

Fixed: Units of 25 watts or more have solder lugs and mounting brackets. *Units under 25 watts are equipped with lugs and leads. Tol., ±5%. Adjustable: Units of 25 watts or more have silver contacts. All adjustable types have lugs and mounting brackets. Tol., ±10%. Specify resistance value when ordering. 5-50 watts, 4 oz; 100 watts up, 1 lb.

FIXED POWER RESISTORS

***TYPE 1A 5-8 WATTS—1x5/16″.** (With lugs and leads.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5250 C	1, 5, 7.5, 10, 20, 25, 30, 40, 50, 100, 250, 400, 500, 1000	.52	.44	.36	.31	.26
45 D 5251 C	3000, 5000	.55	.47	.39	.33	.28
45 D 5252 C	6000, 10K	.58	.49	.41	.35	.29
45 D 5253	20K	.65	.55	.46	.39	.33
45 D 5254	25K	.68	.58	.48	.41	.34

***TYPE 1¾A 10-12 WATTS—1¾x5/16″.** (With lugs and leads.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5270 C	1, 4, 5, 7.5, 10, 12, 15, 20, 25, 30, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 750, 1000	.57	.48	.40	.34	.29
45 D 5271 C	1250, 1500, 2000, 2250, 2500, 3000, 4000, 5000	.61	.52	.43	.37	.31
45 D 5272 C	6000, 7000, 10K	.70	.60	.49	.42	.35
45 D 5273 C	15K, 17.5K, 18K, 20K	.79	.67	.55	.47	.40
45 D 5274 C	22.5K, 25K, 30K	.83	.71	.58	.50	.42
45 D 5269	50K	.93	.79	.65	.56	.47

TYPE 2D 25 WATTS—2x9/16″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5203 C	1, 2, 3, 4, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, 500, 750, 1000	.72	.61	.50	.43	.36
45 D 5204	2000	.75	.64	.53	.45	.38
45 D 5205	10K	.85	.72	.60	.51	.43
45 D 5206 C	15K, 20K	.90	.77	.63	.54	.45
45 D 5207 C	25K, 35K	1.04	.88	.73	.62	.52
45 D 5208 C	50K, 60K	1.21	1.03	.85	.73	.61
45 D 5210	100K	1.64	1.39	1.15	.98	.82

TYPE 4D 50 WATTS—4x9/16″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
50 D 5290 C	1, 2, 3, 4, 5, 10, 25, 50, 500, 1000	1.11	.94	.78	.67	.56
45 D 5291	2500	1.14	.97	.80	.68	.57
45 D 5332	200K	2.89	2.46	2.02	1.73	1.45
45 D 5333	250K	3.24	2.75	2.27	1.94	1.62

TYPE 10½H 200-225 WATTS—10½x1⅛″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5441 C	1, 2, 3, 10, 25, 50, 100, 1000	2.46	2.09	1.72	1.48	1.23
45 D 5442	5000	2.53	2.15	1.77	1.52	1.27
45 D 5443	10K	2.71	2.30	1.90	1.63	1.36
45 D 5446	50K	3.08	2.62	2.16	1.85	1.54

ADJUSTABLE POWER RESISTORS

TYPE 1¾AA 10-12 WATTS—1¾x5/16″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5275 C	1, 3, 7.5, 10, 20, 25, 50, 75, 100, 150, 200, 250, 400, 500, 600, 1000	1.14	.97	.80	.68	.57
45 D 5276 C	4500, 5000	1.18	1.00	.83	.71	.59
45 D 5277 C	6000, 8000, 8500, 10K	1.27	1.08	.89	.76	.64

TYPE 2DA 25 WATTS—2x9/16″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5284 C	1, 2, 3, 5, 10, 20, 25, 50, 75, 150, 200, 300, 400, 500, 1000,	1.29	1.10	.90	.77	.65
45 D 5285	2500	1.32	1.12	.92	.79	.66
45 D 5286 C	7500, 10K	1.42	1.21	.99	.85	.71
45 D 5287 C	15K, 20K	1.47	1.25	1.03	.88	.74
45 D 5288	25K	1.61	1.37	1.13	.97	.81

TYPE 4DA 50 WATTS—4x9/16″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5294 C	1, 3, 5, 10, 25, 50, 250, 300, 400, 500	1.68	1.43	1.18	1.01	.84
45 D 5295	4000	1.71	1.45	1.20	1.03	.86
45 D 5296	10K	1.80	1.53	1.26	1.08	.90
45 D 5297	20K	1.92	1.63	1.34	1.15	.96
45 D 5298	25K	2.11	1.79	1.48	1.27	1.06
45 D 5299	50K	2.29	1.95	1.60	1.37	1.15

ADJUSTABLE POWER RESISTORS (Cont'd)

TYPE 6½EA 100 WATTS—6½x¾″. (With lugs and mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5312 C	1, 2, 3, 5, 10, 25, 50, 500, 1000	2.11	1.79	1.48	1.27	1.06

TYPE 10½HA 200-225 WATTS—10½x1⅛″. (With lugs, mtg. brackets.)

Stock No.	Values Available (In Ohms)	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5377 C	1, 2, 10, 25, 50, 100, 250, 500, 1000	3.34	2.84	2.34	2.00	1.67
45 D 5378 C	2500, 5000	3.41	2.90	2.39	2.05	1.71

Extra Sliders. For adjustable resistors.
45 D 5370. For Type 1¾AA .... .14
45 D 5371. For Types 2DA, 4DA .... .14
45 D 5372. For Type 6½EA .... .14
45 D 5373. For Type 10½HA .... .23

TYPE AS 1% POWER RESISTORS

Miniature wire-wound resistors incorporating "Thermocoat"—a solvent-resistant silicone coating formulation with high dielectric strength and heat capabilities. Carry full power even at 125°C ambients. Meet MIL V (MIL-R-26C). Temperature coefficient less than 20 ppm/°C. Maximum working voltages are, 150 volts for Type AS-2, and 400 volts for Type AS-5.

OHM VALUES AVAILABLE FROM STOCK—SPECIFY VALUES

1.0	4.7	12	33	120	300	820	2400	5600	20K
1.2	5.1	13	39	130	330	910	2700	6200	22K
1.5	5.6	15	51	150	360	1000	3000	6800	27K
2.0	6.2	16	56	160	430	1100	3300	7500	30K
2.2	6.8	18	68	180	510	1500	3600	8200	36K
2.4	7.5	20	75	200	560	1600	3900	10K	39K
2.7	8.2	22	82	220	620	1800	4300	15K	51K
3.0	9.1	24	91	240	680	2000	4700	16K	......
3.3	10	30	100	270	750	2200	5100	18K	......

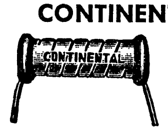
1%—TYPE AS-2 2-WATT (½x¼″)

Stock No.	Val. Avail in Ohms See Table Above	EACH 1-9	10-24	25-49	50-99	100-249
45 D 5867 C	1.0 to 1000	.98	.73	.57	.54	.50
45 D 5868 C	1100 to 4700	1.07	.81	.64	.60	.55
45 D 5869 C	5100 to 10K	1.10	.84	.66	.62	.57
45 D 5870	15K	1.12	.86	.68	.64	.60
45 D 5866 C	16K to 20K	1.19	.90	.72	.67	.63

1%—TYPE AS-5 5-WATT (15/16x11/32″)

Stock No.	Val. Avail in Ohms	1-9	10-24	25-49	50-99	100-249
45 D 5873 C	1.0 to 1000	1.00	.75	.59	.56	.52
45 D 5874 C	1100 to 4700	1.09	.83	.66	.62	.57
45 D 5875 C	5100 to 10K	1.12	.86	.68	.64	.59
45 D 5876	15K	1.14	.88	.70	.66	.62
45 D 5877 C	16K to 20K	1.21	.92	.74	.69	.65
45 D 5878 C	22K to 39K	1.28	.98	.78	.74	.68
45 D 5879	51K	1.39	1.05	.85	.79	.74

CONTINENTAL-WIRT 1-WATT 1% RESISTORS



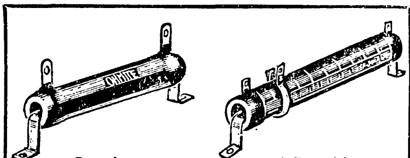
Type NR-25. Metal film resistors having low inductance, initial accuracy, and excellent resistance stability. Vitreous enameled body withstands temperatures to 200°F. All are rated at 500 volts. Size, 15/16x¼″ diameter with 1½″ leads. Shpg. wt. for 10, 3 oz.

Stock No.	Values Available (In Ohms)	EACH 1-24	25-99	100-249
45 D 6300 C	1, 5, 10, 50, 100, 500, 1000, 2000, 5000, 10K, 15K, 50K, 100K, 150K, 200K, 250K, 500K, 1 meg.	1.15	.78	.39
45 D 6301 C	2 meg., 5 meg.	1.44	.97	.47

Be Certain to Specify Resistance and Wattage When Ordering Resistors

OHMITE Wirewound Power Resistors

FIXED AND ADJUSTABLE TYPE



Fixed   Adjustable

Fixed Types. For use as voltage droppers, bias resistors, bleeders, etc., in applications where resistance need not be varied. Resistance tolerance is ±5% for values 1 ohm or higher; ±10% for values below 1 ohm. **Adjustable Types.** For voltage dividing networks, power supplies—or anywhere adjustable resistance is required. Tolerance is ±10%. With slider and mounting brackets. Feature wire of the finest alloy, wound on quality ceramic cores, protected and insulated by thick vitreous enamel coatings. In adjustable types, wattage rating applies only when entire resistance is in circuit; with center lug at an intermediate point, rating is reduced in same proportion. Wattage ratings are for free-air mounting. **Specify value when ordering.** Av. wt., 5-50 watts 4 oz.; 100 watts up 1 lb.

FIXED POWER RESISTORS

TYPE 270-12—12 WATTS—1¾-5/16″

Stock No.	Resistance (Ohms)	EACH 1-9	10-24	25-99	100-249
45 D 5770 C	.51, 1.0, 1.5, 10, 15, 18, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 470, 560, 820, 1000	.57	.48	.40	.34
45 D 5771 C	1200, 1500, 2200, 3300, 3900, 4700	.61	.52	.43	.37
45 D 5772	10K	.70	.60	.49	.42
45 D 5773 C	12K, 15K	.79	.67	.55	.47
45 D 5774	22K	.83	.71	.58	.50
45 D 5775	51K	.93	.79	.65	.56

TYPE 270-25—25 WATTS—2x9/16″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5776 C	1, 2, 3, 4, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	.72	.61	.50	.43
45 D 5777 C	1500, 2000, 2500, 3000, 4000, 5000	.75	.64	.53	.45
45 D 5835 C	6000, 7500, 10K	.85	.72	.60	.51
45 D 5778 C	15K, 20K	.90	.77	.63	.54
45 D 5779 C	25K, 30K	1.04	.88	.73	.62
45 D 5780 C	50K, 60K	1.21	1.03	.85	.73
45 D 5781	70K	1.42	1.21	.99	.85
45 D 5782	100K	1.64	1.39	1.15	.98

TYPE 270-50—50 WATTS—4x9/16″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5769	1	1.55	1.32	1.09	.93
45 D 5783 C	2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000	1.11	.94	.78	.67
45 D 5784 C	1500, 2000, 2500, 5000	1.14	.97	.80	.68
45 D 5785	10K	1.23	1.05	.86	.74
45 D 5836	20K	1.35	1.15	.95	.81
45 D 5786	25K	1.54	1.31	1.08	.92
45 D 5787	50K	1.72	1.46	1.20	1.03
45 D 5789	100K	2.13	1.81	1.49	1.28

TYPE 270-100—100 WATTS—6½x¾″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5768 C	1, 2, 3	2.16	1.84	1.51	1.30
45 D 5795 C	4, 5, 10, 25, 50, 75, 100, 125, 150, 250, 500, 1000	1.54	1.31	1.08	.92
45 D 5796 C	1500, 2000, 2500	1.60	1.36	1.12	.96
45 D 5797 C	7500, 10K	1 73	1.47	1.21	1.04
45 D 5798	20K	1.87	1.59	1.31	1.12
45 D 5801	50K	2.21	1.88	1.55	1.33
45 D 5803	100K	2.75	2.34	1.93	1.65

TYPE 270-172—175 WATTS—8½x1⅛″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5837 C	3, 5	3.19	2.71	2.23	1.91
45 D 5838 C	10, 25, 50, 75, 100, 125, 150	2.28	1.94	1.60	1.37
45 D 5841	10K	2.53	2.15	1.77	1.52
45 D 5845	75K	3.08	2.62	2.16	1.85
45 D 5846	100K	3.26	2.77	2.28	1.96

TYPE 270-225—225 WATTS—10½x1⅛″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5847 C	1, 2, 3, 4, 5	3.44	2.92	2.41	2.06
45 D 5848	10, 25, 50, 75, 100, 150, 250, 500, 1000	2.46	2.09	1.72	1.48
45 D 5849 C	2000, 2500, 3000, 5000	2.53	2.15	1.77	1.52
45 D 5850	10K	2.71	2.30	1.90	1.63
45 D 5851 C	15K, 20K	2.89	2.46	2.02	1.73
45 D 5853	50K	3.08	2.62	2.16	1.85
45 D 5855	100K	3.46	2.94	2.42	2.08

DIVIDOHM ADJUSTABLE RESISTORS

TYPE 210-12—12 WATTS—1¾x5/16″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5804 C	1, 2, 3, 5, 10, 25, 50, 75, 100, 150, 250, 500, 750, 1000	1.14	.97	.80	.68
45 D 5805 C	1500, 2500, 5000	1.18	1.00	.83	.71
45 D 5806 C	7500, 10K	1.27	1.08	.89	.76

45 D 5764. Extra Slider for 12-watt types.......................... .14

TYPE 210-25—25 WATTS—2x9/16″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5807 C	1, 3, 5, 10, 15, 25, 50, 75, 100, 250, 500, 750, 1000	1.29	1.10	.90	.77
45 D 5808 C	1500, 2000, 2500, 3000, 5000	1.32	1.12	.92	.79
45 D 5809 C	7500, 10K	1.42	1.21	.99	.85
45 D 5810 C	15K, 20K	1.47	1.25	1.03	.88
45 D 5811	25K	1.61	1.37	1.13	.97

DIVIDOHM ADJUSTABLE RESISTORS (Cont'd)

TYPE 210-50—50 WATTS—4x9/16″

Stock No.	Resistance (Ohms)	EACH 1-9	10-24	25-99	100-249
45 D 5812	1	2.12	1.80	1.48	1.27
45 D 5813 C	2, 3, 4, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 1000	1.68	1.43	1.18	1.01
45 D 5814 C	1500, 2000, 2500, 5000	1.71	1.45	1.20	1.03
45 D 5815	10K	1.80	1.53	1.26	1.08
45 D 5816 C	15K, 20K	1.92	1.63	1.34	1.15
45 D 5817 C	25K, 30K, 40K	2.11	1.79	1.48	1.27
45 D 5818	50K	2.29	1.95	1.60	1.37
45 D 5819	100K	2.70	2.30	1.89	1.62

TYPE 210-75—75 WATTS—6x9/16″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5856 C	1, 2	2.39	2.03	1.67	1.43
45 D 5857 C	5, 10, 15, 25, 50, 100, 200, 250, 300, 1000	1.87	1.59	1.31	1.12
45 D 5858	2000	1.92	1.63	1.34	1.15

45 D 5765. Extra Slider for 25, 50 and 75-watt types........... .14

TYPE 210-100—100 WATTS—6½x¾″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5821 C	1, 2, 3	2.73	2.32	1.91	1.64
45 D 5822 C	4, 5, 10, 25, 50, 100, 250, 500, 1000	2.11	1.79	1.48	1.27
45 D 5823	5000	2.17	1.84	1.52	1.30
45 D 5826 C	25K, 40K	2.70	2.30	1.89	1.62
45 D 5828	100K	3.32	2.82	2.32	1.99

45 D 5766. Extra Slider for 100-watt types.................... .14

TYPE 210-225—225 WATTS—10½x1⅛″

Stock No.	Resistance (Ohms)	1-9	10-24	25-99	100-249
45 D 5829 C	1, 2, 3, 4, 5	4.32	3.67	3.02	2.59
45 D 5830 C	10, 25, 50, 100, 250, 500, 1000	3.34	2.84	2.34	2.00
45 D 5831	5000	3.41	2.90	2.39	2.05
45 D 5832	10K	3.59	3.05	2.51	2.15

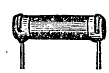
45 D 5767. Extra Slider for 225-watt types.................. .23

EXTRA MOUNTING BRACKETS FOR RESISTORS

Designed for mounting fixed and adjustable tubular-core resistors.

Stock No.	Type No.	For Resistor: Core O.D.	Watts	PKG. OF 100: 1-9	10-24	25-99
45 D 5894	5	5/16″	10	1.40	1.19	.98
45 D 5895	9	9/16″	25, 50, 75	1.60	1.36	1.12
45 D 5896	12	¾″	100	3.00	2.55	2.10
45 D 5897	18	1⅛″	160, 200	4.00	3.40	2.80

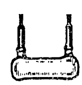
G-C GLO-BAR THERMISTORS



Thermal resistors designed for series-string circuits of RCA, Admiral, Philco, G.E. and other TV receivers. A necessary service replacement item. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Ohms: Hot	Cold	Replaces	EACH 1-9	10-Up
45 D 6066	25-912	20	250	G.E. RRW051	1.00	.90
45 D 6053	25-920	11	600	M'rola 6A73541	1.67	1.50
45 D 6071	25-928	9	600	RCA 100118	1.10	.99

HAMILTON HALL TV FUSE-RESISTORS



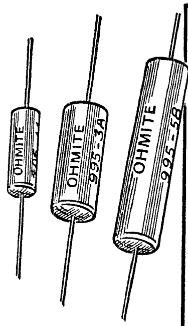
Replace similar units in Raytheon, RCA, Motorola, Sylvania, Zenith and other TV receivers. All units are less than an inch in length; have tinned leads. Wt., 2 oz.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-Up
45 D 6021	FR-4.7	4.7	.29	.24	.18	.16
45 D 6022	FR 5.6	5.6	.29	.24	.18	.16
45 D 6023	FR-7.5	7.5	.29	.24	.18	.16
45 D 6025	FR-22	22.0	.29	.24	.18	.16

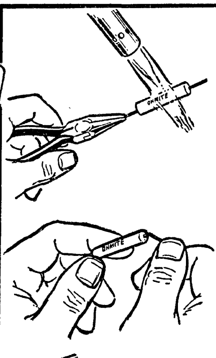
PL-99R Fuse-Resistor Kit. Has: 6—7.5, 1—4.7, 1—5.6, 1—9.0, 1—22 ohm types.
45 D 6026.. 1.95

OHMITE Wirewound Resistors

SERIES 99 VITREOUS-ENAMELED MOLDED RESISTORS



Series 99 Resistors

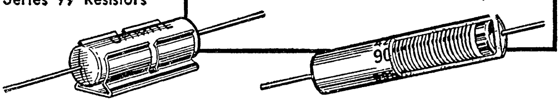


WITHSTAND VERY HIGH TEMPERATURES

Series 99 resistors show no sign of softening or deformation at temperatures up to 1500°F.

RESIST CHIPPING AND BREAKING

Densely molded jacket will not chip where leads enter body.



UNIFORM SIZE

Consistent size and shape! Ideal for automated assembly.

HIGH-VOLTAGE INSULATION

1000 VAC Breakdown for molded vitreous enamel insulation.

Feature molded vitreous enamel coating. Have advantages of vitreous enamel, plus: uniform size—mount in metal clips for heat-sink effect allowing up to 100% wattage increase; uniform insulation thickness for 1000 VAC breakdown rating; identifying markings fired right onto the coating; consistent size and shape for automated assembly. Withstand high humidity, immersion in salt solution. $1\frac{1}{2}$" tinned leads. Tol. ±5%. Meet MIL-R-26C for RW57, 8W58, RW59, RW67 RW68, RW69. Av. shpg. wt. per 25, 4 oz.

Stock No.	Stock Values (Ohms) See Table "A" Below	EACH 1-9	10-24	25-99	100-249
STYLE 995-1A—$1\frac{1}{2}$ WATT $\frac{27}{64}$x$\frac{1}{8}$"					
45 D 6088 C	1 to 1000	.62	.53	.43	.37
45 D 6089 C	1100 to 3000	.66	.56	.46	.40
STYLE 995-3A—$3\frac{1}{4}$ WATT $\frac{35}{64}$x$\frac{13}{64}$"					
45 D 6090 C	1 to 1000	.59	.50	.41	.35
45 D 6091 C	1100 to 5000	.62	.53	.43	.37
45 D 6092 C	5100 to 10K	.66	.56	.46	.40
STYLE 995-5B—5 WATT $\frac{15}{16}$x$\frac{13}{64}$"					
45 D 6115 C	1 to 1000	.62	.53	.43	.37
45 D 6116 C	1100 to 5000	.66	.56	.46	.40
45 D 6117 C	5100 to 10K	.70	.60	.49	.42
45 D 6118 C	11K to 20K	.78	.66	.55	.47
45 D 6119 C	22K to 25K	.82	.70	.57	.49
STYLE 995-10A—11 WATT $1\frac{25}{32}$x$\frac{5}{16}$"					
45 D 6122 C	1 to 1000	.68	.58	.48	.41
45 D 6123 C	1100 to 5000	.73	.62	.51	.44
45 D 6124 C	5100 to 10K	.84	.71	.59	.50
45 D 6125 C	11K to 20K	.95	.81	.67	.57
45 D 6126 C	22K to 40K	1.00	.85	.70	.60
45 D 6127 C	43K to 51K	1.12	.95	.78	.67

TABLE "A" STOCK VALUES—FOR 995 STYLES ABOVE
Specify Values Wanted

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1.0	9.1	68	470	2500	11K
1.1	10	75	500	2700	12K
1.2	11	82	510	3000	13K
1.3	12	91	560	3300	14K
1.5	13	100	600	3500	15K
1.6	15	110	620	3600	16K
1.8	16	120	680	3900	17K
2.0	18	130	700	4000	18K
2.2	20	150	750	4300	20K
2.4	22	160	800	4500	22K
2.7	24	180	820	4700	24K
3.0	25	200	900	5000	25K
3.3	27	220	910	5100	27K
3.6	30	240	1000	5600	30K
3.9	33	250	1100	6000	33K
4.0	35	270	1200	6200	35K
4.3	36	300	1300	6800	36K
4.7	39	330	1400	7000	39K
5.0	40	350	1500	7500	40K
5.1	43	360	1600	8000	43K
5.6	47	390	1800	8200	45K
6.2	50	400	2000	9000	47K
6.8	51	430	2200	9100	50K
7.5	56	450	2400	10K	51K
8.2	62				

"BROWN DEVIL" WIREWOUND RESISTORS STYLE 200

High-quality, compact wirewound resistors. For voltage dropping, bias supplies, bleeders, etc. Have thick vitreous enamel coating for excellent heat conduction and insulation, as well as for protection against the harmful effects of humidity and moisture. Tolerance, ±5%. Sizes; 3-watt units, $\frac{7}{16}$x$1\frac{3}{64}$"; $5\frac{1}{4}$-watt units, $\frac{5}{8}$x$\frac{1}{4}$"; 8-watt units, 1x$\frac{5}{16}$"; 12-watt units, $1\frac{3}{4}$x$\frac{5}{16}$"; 20-watt units, 2x$\frac{7}{16}$". Lead length, $1\frac{1}{2}$". Available in values shown in Tables "B" and "C" below. Av. shpg. wt. per 25, 8 oz.

Stock No.	Stock Values (Ohms) See Table "B" Below	EACH 1-9	10-24	25-99	100-249
STYLE 200-3—3-WATT (Values to 10K) See Table "B" Below					
45 D 5735 C	1 to 1000	.49	.42	.34	.29
45 D 5736 C	1100 to 4700	.52	.44	.36	.31
45 D 5737 C	5100 to 10K	.55	.47	.39	.33
STYLE 200-$5\frac{1}{4}$—$5\frac{1}{4}$-WATT (Values to 20K) See Table "B" Below					
45 D 5738 C	1 to 1000	.52	.44	.36	.31
45 D 5739 C	1100 to 4700	.55	.47	.39	.33
45 D 5740 C	5100 to 10K	.58	.49	.41	.35
45 D 5741 C	11K to 20K	.65	.55	.46	.39

TABLE "B" STOCK VALUES—FOR 3 AND $5\frac{1}{4}$-WATT STYLES ABOVE—Specify Values Wanted

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1.0	3.6	12	43	150	510	1800	6200
1.1	3.9	13	47	160	560	2000	6800
1.2	4.3	15	51	180	620	2200	7500
1.3	4.7	16	56	200	680	2400	8200
1.5	5.1	18	62	220	750	2700	9100
1.6	5.6	20	68	240	820	3000	10K
1.8	6.2	22	75	270	910	3300	11K
2.0	6.8	24	82	300	1000	3600	12K
2.2	7.5	27	91	330	1100	3900	13K
2.4	8.2	30	100	360	1200	4300	15K
2.7	9.1	33	110	390	1300	4700	16K
3.0	10	36	120	430	1500	5100	18K
3.3	11	39	130	470	1600	5600	20K

Stock No.	Stock Values (Ohms) See Table "C" Below	EACH 1-9	10-24	25-99	100-249
STYLE 200-8—8-WATT (Values to 10K) See Table "C" Below					
45 D 5730 C	1 to 1000	.52	.44	.36	.31
45 D 5731 C	1100 to 5000	.55	.47	.39	.33
45 D 5732 C	6000 to 10K	.58	.49	.41	.35
STYLE 200-12—12-WATT (Values to 50K) See Table "C" Below					
45 D 5700 C	1 to 1000	.57	.48	.40	.34
45 D 5701 C	1100 to 5000	.61	.52	.43	.37
45 D 5702 C	6000 to 10K	.70	.60	.49	.42
45 D 5703 C	12.5K to 20K	.79	.67	.55	.47
45 D 5704 C	25K and 30K	.83	.71	.58	.50
45 D 5705	50K	.93	.79	.65	.56
STYLE 200-2C—20-WATT (In All Values Except * in Table "C")					
45 D 5720 C	1 to 1000	.68	.58	.48	.41
45 D 5721 C	1200 to 5000	.70	.60	.49	.42
45 D 5722 C	6000 to 10K	.83	.71	.58	.50
45 D 5723 C	12.5K to 20K	.85	.72	.60	.51
45 D 5724 C	25K to 30K	.99	.84	.69	.59
45 D 5725 C	50K to 60K	1.15	.98	.81	.69
45 D 5727	100K	1.57	1.33	1.10	.94

TABLE "C" STOCK VALUES—FOR 8, 12 AND 20-WATT STYLES ABOVE—Specify Values Wanted

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	15*	125*	500	1250	4500	15K
1.5*	20*	150	600*	1500	5000	20K
2	25	200	700	1750	6000	25K
3	30*	225*	750	2000	7000	30K
4	35*	250	800	2250	7500	50K
5	40	300	900	2500	8000	60K
7.5*	50	350	1000	3000	9000	100K
10	75	400*	1100*	3500	10K	
12*	100	450*	1200	4000	12.5K	

MOUNTING CLIPS FOR SERIES 99 RESISTORS

Protect from mechanical shock. Have heat-sink effect for up to 100% increase in power rating. Av. shpg. wt. per 100, 3 oz.

Stock No.	Mfr's Type	For Resistor	EACH 1-99	100-499	500-999
45 D 6096	5900	995-1A ($1\frac{1}{2}$-Watt)	.20	.15	.12
45 D 6097	5904	995-3A ($3\frac{1}{4}$-Watt)	.20	.15	.12
45 D 6098	5906	995-5B (5-Watt)	.20	.15	.12
45 D 6099	5908	995-10A (11-Watt)	.20	.15	.12

Be Certain to Specify Resistance and Wattage When Ordering

5% and 10% Wirewound Power Resistors

SPRAGUE "BLUE JACKET" MINIATURIZED WIREWOUND POWER RESISTORS

SEE TABLE "A" BELOW FOR VALUES

TYPE 242E—3 WATT, 5%, 17/32x7/32" dia.

Stock No.	Stock Values (Ohms) See Table "A" Below for Values	EACH 1-9	10-24	25-99	100-249	250-499
45 D 5095 C	1 to 10	.53	.46	.38	.32	.28
45 D 5092 C	12 to 1000 except 35, 350	.52	.44	.36	.31	.27
45 D 5093 C	1200 to 5000	.55	.47	.38	.33	.27
45 D 5094 C	6000 to 10K	.58	.49	.41	.35	.29

TYPE 243E—5 WATT, 5%, 15/16x7/32" dia.

Stock No.	Stock Values (Ohms)	1-9	10-24	25-99	100-249	250-499
45 D 5080 C	1 to 10	.56	.49	.40	.35	.29
45 D 5085 C	12 to 1000 except 18, 22, 27, 33, 39, 47, 56, 68, 82, 180, 270, 330, 390, 470, 560, 820	.55	.47	.38	.33	.27
45 D 5081 C	1200 to 5000 except 2700, 3300, 3900 and 4700	.58	.49	.41	.35	.29
45 D 5082 C	6000 to 10K except 6800 and 8200	.62	.53	.43	.37	.31
45 D 5083 C	12K to 20K	.69	.58	.49	.41	.34
45 D 5084 C	22K to 30K	.75	.65	.53	.46	.39

Axial-lead wirewound power resistors. Meet or exceed MIL-R-26C specifications. Miniaturized and designed for utmost reliability and stability under extreme operating conditions. Dependable in critical equipment, yet priced low enough for radio-TV service use. Suitable for point-to-point, terminal board and printed circuit wiring.

Axial-lead design provides secure mounting even under vibration. Crazeproof vitreous enamel coating guards against humidity, and prevents costly and needless failures. Resists corrosive industrial fumes.

Tolerance, ±5%. Rated on basis of 300°C maximum hot-spot temperature rise above ambient of 40°C. 50% derating occurs at 180°C. Temp. coefficient resistance will not exceed 0.003%/°C up to 250°C, not more than 0.006 %above 250°C. 242E replaces former 151E. All have #20 tinned leads. Av. shpg. wt. per 25, 8 oz.

SPRAGUE PART NUMBERS

Example: 242E 103 5
242E, Type (3-watt "Blue Jacket").
103, resistance code. First 2 digits are significant figures, third figure is zeros to add (example is 10,000 ohms). For values under 100 ohms, the letter R denotes decimal point, e.g. 7R5 is 7.5.
5, tolerance (±5%).

TABLE "A"—VALUES FOR "BLUE JACKET" RESISTORS ABOVE

STOCK VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	12	30	56	180	350	700	1800	3900	8000	22K
1.5	15	33	68	200	390	820	2000	4000	8200	25K
2	18	35	75	220	400	900	2200	4700	9000	30K
3	20	39	82	250	470	1000	2500	5000	10K	....
5	22	40	100	270	500	1200	2700	6000	12K	....
7.5	25	47	120	300	560	1400	3000	6800	15K	....
10	27	50	150	330	600	1500	3300	7500	20K	....

SPRAGUE "KOOLOHM" 5% RESISTORS— STANDARD AND NON-INDUCTIVE

Nonporous Ceramic Outer Shell plus Rugged Internal Design Provide Excellent Insulation and Strength

- Completely Insulated Nonporous Ceramic Shells
- Burn-in Test Stabilizes Resistance
- Handle Hot-Spot Temperatures Up to 340°C

Improved versions of the famous "KT" and "NIT" series. Have smaller size than older units. Designed to withstand severe duty cycles encountered in heavy-duty industrial electronic equipment. Feature final "burn-in" test which stabilizes resistance value on full load. Wire is space-wound and cemented to prevent turn-to-turn shorting. Ceramic insulated wire and outer shells provide a completely insulated surface against any contact as well as complete moisture-proofing—an extremely important factor in extending resistor service life. Windings and leads are welded to end-cap for superior mechanical strength. Units have ±5% tolerance; handle hot-spot temperatures to 340°C. See Table "B" for values available. Av. shpg. wt. per 25, 8 oz.

TYPE 450E—3 WATT (STANDARD) 9/16x1/4" dia.

Stock No.	Stock Values See Table "B" Below	EACH 1-24	25-49	50-99	100-249
45 D 5901 C	1 to 1000 ohms	.35	.25	.23	.21
45 D 5902 C	1500 to 3000 ohms	.43	.30	.28	.26
45 D 5906 C	6000 and 10K ohms	.47	.33	.30	.28

TYPE 452E—5 WATT (STANDARD) 1x1/4" dia.

Stock No.	Stock Values	1-24	25-49	50-99	100-249
45 D 5910 C	1 to 1000 ohms	.37	.26	.24	.22
45 D 5911 C	1500 to 5000 ohms	.41	.29	.27	.25
45 D 5917 C	6000 and 10K ohms	.44	.31	.29	.27
45 D 5921 C	12K to 20K ohms	.57	.40	.37	.34

TYPE 453E—5 WATT (NON-INDUCTIVE) 1x1/4" dia.

Stock No.	Stock Values	1-24	25-49	50-99	100-249
45 D 5925 C	1 to 1000 ohms	.54	.38	.35	.33
45 D 5926 C	1500 to 3000 ohms	.61	.43	.40	.37

TABLE "B"—VALUES FOR "KOOLOHM" RESISTORS

STOCK VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	10	25	100	250	600	2000	6000	20K
2	12	40	150	300	900	2500	10K	....
3	15	50	200	400	1000	3000	12K	....
5	20	75	220	500	1500	5000	15K	.....

MALLORY MOL METAL "OXIDE FILM" RESISTORS

New ±10% tolerance axial lead type resistors. Oxide film is bonded to ceramic base at high temperature. Resistance spiralling of the film oxide is controlled electronically. End caps have welded axial leads, fitted under pressure to ceramic bases. Green silicone-based insulating material provides uniform coating; flame resistant—even under severe overload. See Table "C" for values available. Av. shpg. wt. per 25, 8 oz.

CHARACTERISTICS

Temperature Coefficient: ±250 PPM/°C @ 105°C ref. to 25°C.

Overload: Res. change less than 1/2% @ 10 times rated load for 5 seconds.

Load Life: Res. change less than 5% after 1000 hrs. @ stated load and ambient temperature (cycled 1 1/2 hrs. on, 1/2 hr. off).

Leads: 20 gauge; 17 on 2MOL.

TYPE 2MOL—2-WATT, 11/16x5/16" dia.

Stock No.	Stock Values (Ohms) See Table "C" Below	EACH 1-99	100-249	250-499	500-999
45 D 5122 C	33 to 56K	.20	.14	.12	.09

TYPE 3MOL—3-WATT, 15/16x5/16" dia.

Stock No.	Stock Values (Ohms)	1-99	100-249	250-499	500-999
45 D 5123 C	39 to 1800	.20	.14	.12	.088
45 D 5124 C	2200 to 3900	.20	.14	.12	.09
45 D 5125 C	4700 to 6800	.22	.15	.13	.098
45 D 5126 C	8200 and 10K	.24	.165	.14	.105
45 D 5127 C	12K to 22K	.25	.18	.152	.114
45 D 5128 C	27K to 56K	.28	.195	.167	.125

TYPE 5MOL—5-WATT, 1 3/4x5/16" dia.

Stock No.	Stock Values (Ohms)	1-99	100-249	250-499	500-999
45 D 5129 C	100 to 1800	.20	.14	.12	.088
45 D 5130 C	2200 to 3900	.22	.15	.13	.098
45 D 5131 C	4700 to 6800	.23	.16	.137	.103
45 D 5132 C	8200 and 10K	.26	.18	.156	.117
45 D 5133 C	12K to 22K	.30	.21	.178	.133
45 D 5134 C	27K to 120K	.32	.23	.195	.146

TABLE "C"—VALUES FOR "OXIDE FILM" RESISTORS

STOCK VALUES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
33	82	220	560	1500	3900	10K	27K	68K
39	100	270	680	1800	4700	12K	33K	82K
47	120	330	820	2200	5600	15K	39K	100K
56	150	390	1000	2700	6800	18K	47K	120K
68	180	470	1200	3300	8200	22K	56K	......

Resistors, Resistor Assortments and Surgistors

IRC RESISTORS

10% 5 AND 10-WATT POWER RESISTORS
TYPES PW-5 AND PW-10

Popular axial-lead power resistors. Compact shape fits easily among other components. Precisely-wound element has glass fiber core, and is sealed in a rectangular ceramic case. Tolerance is ±10%. Power ratings are at 25° C ambient. 1½" leads.

Type PW-5 5 Watt. Size, ⅞x⅜x1 1/32". *Available in values of 1 to 6000 only.* Specify values from Table below. *Inquire for prices on quantities of 1000 or more.* Shpg. wt., 2 oz.

45 D 5175 C. 1-99.................................... Each .25
100-499.............. Each .17 500-999............... Each .13

PW-5 VALUES AVAILABLE—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	7.5	30	125	350	750	1500	3000
2	10	50	150	400	800	1750	4000
3	15	75	200	500	1000	2000	4500
4	20	100	250	600	1200	2250	5000
5	25	120	300	700	1250	2500	6000

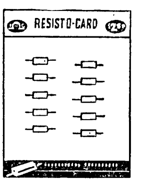
Type PW-10 10 Watt. Size, 1⅞x⅜x1 1/32". Specify values when ordering—see Table of values available below. *Inquire for prices on quantities of 1000 or more.* Shpg. wt., 2 oz.

45 D 5190 C. 1-99.................................... Each .36
100-499.............. Each .25 500-999............... Each .11

PW-10 VALUES AVAILABLE—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	7.5	30	150	600	2000	10K
2	10	40	200	750	3000	12K
3	15	50	250	1000	3500	20K
4	20	75	300	1200	5000	25K
5	25	100	500	1500	6000	....

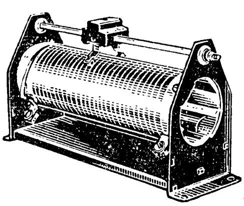
TYPE 20A 10-WATT "RESIST-O-CARD" ASSORTMENT



Helpful convenience aid for your resistor needs, Neat, compact card permits you to see at a glance just what you have and their values; no need to fumble through drawers or boxes for the particular value you require. Assortment includes the most-often-used types. One each of the following: 50, 75, 100, 250, 500, 750, 1000, 1500, 2000, 2500, 3000, 3300, 3900, 4000, 5000, 6000, 7500, 8200, 10K, 15K ohms. All rated 10 watts.

45 D 5191. Shpg. wt., 1 lb.............. 7.20

SUPERIOR "OHMSTAT" SLIDEWIRE RESISTORS



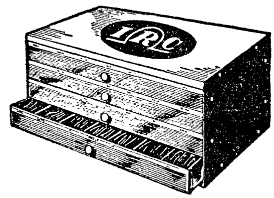
- Fast Heat Dissipation
- No Localized Heating
- Negligible Inductance at 400 Cycles

Slidewire Resistors combine excellent electrical characteristics and long life. Their unique design features make them ideal for use in laboratories, test and research departments or for classroom demonstrations. Utilize an aluminum tube having a fired-on, high temperature coating. A stainless steel spring compensates for the difference in thermal expansion between the tube and the resistance wire, permitting the resistor to operate at peak wattage with no slackening of the winding turns. The excellent heat conducting properties of aluminum prevent "hot spots" as are common with resistors using porcelain tubes. Chrome-plated brass is used for the slider bar. Double sliding contact arrangement is used to provide a reliable connection to the resistance wire. Protective plate on the frame effectively shields the mounting surface from heat. Negligible inductance at frequencies as high as 400 cycles. Air-cooled. Overall size, 12 1/16x6 5/32x4". Mounting centers, 3x11 5/16". 500 watts power, except *250 watts. Shpg. wt., 3¼ lbs.

Stock No.	Mfr's Type	Rated Amps	Ohms	Max. Volts	EACH 1-11	EACH 12-99
45 D 6150	SWR05*	0.5	1000	500	30.00	25.50
45 D 6151	SWR1	1	500	500	30.00	25.50
45 D 6152	SWR2	2	125	250	30.00	25.50
45 D 6153	SWR3	3	55	165	30.00	25.50
45 D 6154	SWR5	5	20	100	30.00	25.50
45 D 6155	SWR10	10	5	50	30.00	25.50
45 D 6156	SWR20	20	1.25	25	30.00	25.50
45 D 6157	SWR30	30	0.55	16.5	30.00	25.50

IRC RESISTOR ASSORTMENTS

METAL RESIST-O-CABINETS



Keep your resistor stocks complete, orderly, and easily accessible with IRC metal Resist-O-Cabinets. Have four drawers and 28 compartments, and are available with a choice of four resistor assortments, all with a tolerance of ±10%. Each resistance value is in a separate compartment. Size, 5⅜x10⅞x5 5/16".

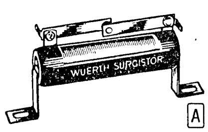
Assortment No. 3A. Contains 120 2-watt resistors as follows: 7 each: 8200, 10K, 22K, 47K; 5 each: 1000, 6800, 15K, 100K; 4 each: 100, 330, 470, 1500, 2200, 3300, 4700, 27K, 1.0 meg; 3 each: 47, 82, 150, 220, 270, 3900, 220K, 470K; 2 each: 4.7, 10, 22, 68; 1 each: 15, 27, 33, 39. Complete with metal Resist-O-Cabinet. 4½ lbs.
45 D 6776.. 28.80

Assortment No. 4A. Contains 150 IRC ½-watt resistors. 8 each: 1000, 47K, 100K, 270K, 470K, 1.0 meg; 7 each: 3700, 10K, 220K, 2.2 meg; 5 each: 3300, 22K, 27K, 33K, 330K, 4.7 meg; 4 each: 100, 470, 1500, 2200, 2700, 56K, 68K, 3.3 meg; 3 each: 47, 220, 270, 10 meg. Supplied complete with metal Resist-O-Cabinet. 4½ lbs.
45 D 6777.. 18.00

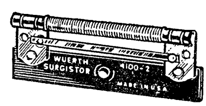
Assortment No. 5A. Contains 125 IRC 1-watt resistors. 7 each: 1000, 10K, 27K, 47K, 100K, 270K, 470K, 1.0 meg; 5 each: 2200, 4700, 22K; 4 each: 33K, 39K, 68K; 3 each: 47, 100, 150, 220, 270, 470, 1500, 2700, 3300, 15K, 150K, 220K, 2.2 meg, 4.7 meg. With metal Resist-O-Cabinet. 4¾ lbs.
45 D 6778.. 22.50

Combination Assortment No. 6A. 139 IRC insulated and Type DCF resistors. ½ Watt. 4 each: 1000, 47K, 100K, 270K, 470K, 1.0 meg; 3 each: 4700, 10K, 220K, 2.2 meg; 2 each: 47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 3300, 15K, 22K, 27K, 33K, 39K, 68K, 150K, 4.7 meg. 1 Watt. 4 each: 1000, 10K, 27K, 100K, 1.0 meg; 3 each: 47K, 470K, 2.2 meg; 2 each: 3300, 15K, 22K, 68K, 150K, 270K; 1 each: 47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 4700, 33K, 39K, 220K, 4.7 meg. 2 Watt. 1 each: 47, 100, 470, 4700, 10K, 22K, 47K. Type DCF. 1 each: 1000, 10K, 100K, 1.0 meg, 5.0 meg. With Resist-O-Cabinet. Shpg. wt., 5 lbs.
45 D 6779.. 23.22

WUERTH SURGISTORS



A

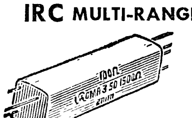


B

Limit harmful initial voltage surge to 25% of normal; then allow full voltage after warm-up; triple tube life with a Surgistor—combines the functions of a resistor and a relay. Eliminates destructive in-rush currents in all electronic equipment. Connect directly into one side of power line. For 110-120 v., AC/DC. Wt., 7 oz.

Stock No.	Mfr's Type	Fig.	Watts	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-Up
46 D 1552	4100-2	B	100-275	1.17	1.05	.97	.88
46 D 1553	8050-4	B	250-400	1.77	1.59	1.47	1.33
46 D 1561	8035-5	B	300-500	1.98	1.78	1.64	1.48
46 D 1562	1025-6	A	450-650	2.97	2.67	2.47	2.23
46 D 1563	1020-7	A	600-850	3.27	2.94	2.71	2.45
46 D 1564	1015-8	A	800-1200	3.57	3.21	2.96	2.68
46 D 1565	1010-9	A	1170-1500	4.17	3.74	3.46	3.13

IRC MULTI-RANGE 10-WATT WIREWOUND RESISTORS



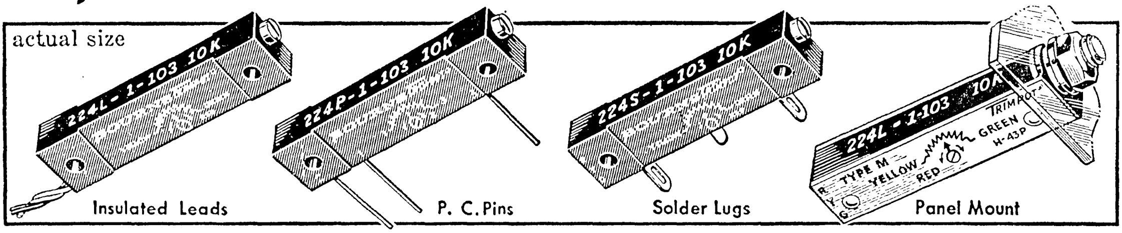
Type MR. Versatile resistors combining 4 separate 10-watt elements in a single, compact steatite housing. With instructions for connecting element leads to provide up to 47 different resistance values within the ranges listed below. Size, 1⅞x½". Shpg. wt., 3 oz. 2 resistors per pkg.

Stock No.	Mfr's Type	Resistance Range	Resistor Elements (Ohms)	PER PKG.
45D5580	MR1	47 values; 0.5-15 ohms	1, 2, 4, 8	1.20
45D5581	MR2	47 values; 5.0-150 ohms	10, 20, 40, 80	1.20
45D5582	MR3	47 values; 50-1500 ohms	100, 200, 400, 800	1.20
45D5583	MR4	47 values; 500 ohms-15K	1000, 2000, 4000, 8000	1.20
45D5584	MR5	12 values; 3000 ohms-50K	10K, 10K, 15K, 15K	1.80

Type 55 Power Resistor Assortment. Includes 2 of each Type MR resistor listed in the table above. Provides complete 10-watt resistance coverage—resistance values range all the way from 0.5 ohms to 50K ohms. Supplied in convenient plastic box. 1¼x5¼x3½". Shpg. wt., 1 lb.
45 D 5585.. 6.60

Be Sure to Specify Resistance and Wattage When Ordering

BOURNS Multi-Turn Potentiometers



TRIMPOT® POTENTIOMETERS

Precision-made, multi-turn, subminiature potentiometers. Highly resistant to shock, vibration and acceleration. Self-locking screwdriver adjustments. All models have 22 to 25-turn adjustments. Panel mounts require panel thickness max. .13″ with .228″ hole. Standard mounts have two #2 holes on 1″ ctrs. Resistance tolerance: carbon models, ±20%; wirewound models, ±10%. **Quantity prices are for one resistance value only. Specify Stock Number and resistance value when ordering.** Av. shpg. wt., 2 oz.

½-WATT GENERAL-PURPOSE WIREWOUND. Size, 1¼x¼x5/16″. Temp. range —65° C to + 105° C.

Stock No.	Mfr's Type	Terminal Connections	Mounting	Values Available From Stock (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7380 C	200L	Insul. leads	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7381 C	200L	Insul. leads	Standard	20K, 25K	6.48	6.00	5.40	5.12	4.80	4.56
46 D 7675	200L	Insul. leads	Standard	50K only	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7676	200L-2	Insul. leads	Standard	100K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7005 C	200L	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.67	5.25	4.73	4.48	4.20	3.99
46 D 7006 C	200L	Insul. leads	Panel	20K, 25K	7.29	6.75	6.08	5.76	5.40	5.13
46 D 7007	200L	Insul. leads	Panel	50K only	8.37	7.75	6.98	6.62	6.20	5.89
46 D 7008	200L-2	Insul. leads	Panel	100K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7383 C	200S	Solder lugs	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7384 C	200S	Solder lugs	Standard	20K, 25K	6.48	6.00	5.40	5.12	4.80	4.56
46 D 7677	200S	Solder lugs	Standard	50K only	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7010 C	200S	Solder lugs	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.67	5.25	4.73	4.48	4.20	3.99
46 D 7011 C	200S	Solder lugs	Panel	20K, 25K	7.29	6.75	6.08	5.76	5.40	5.13
46 D 7012	200S	Solder lugs	Panel	50K only	8.37	7.75	6.98	6.62	6.20	5.89
46 D 7600 C	200P	P.C. pins	Printed circuit	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7601 C	200P	P.C. pins	Printed circuit	20K, 25K	6.48	6.00	5.40	5.12	4.80	4.56
46 D 7602	200P	P.C. pins	Printed circuit	50K only	7.56	7.00	6.30	5.98	5.60	5.32

¼-WATT CARBON. Size, 5/16x¼x1¼″. Temp. range, —65° C to +125° C. *Humidity-proof.

46 D 7376 C	215L	Insul. leads	Standard		4.86	4.50	4.05	3.84	3.60	3.42
46 D 7013 C	215L	Insul. leads	Panel		5.67	5.25	4.73	4.48	4.20	3.99
46 D 7606 C	215S	Solder lugs	Standard		4.86	4.50	4.05	3.84	3.60	3.42
46 D 7014 C	215S	Solder lugs	Panel	5000, 10K, 20K, 50K, 100K, 200K,	5.67	5.25	4.73	4.48	4.20	3.99
46 D 7605 C	215P	P.C. pins	Printed circuit	500K, 750K, 1 meg, 2 meg	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7678 C	235L*	Insul. leads	Standard		7.02	6.50	5.85	5.55	5.20	4.94
46 D 7015 C	235L*	Insul. leads	Panel		7.83	7.25	6.53	6.19	5.80	5.51
46 D 7679 C	235P*	P.C. pins	Printed circuit		7.02	6.50	5.85	5.55	5.20	4.94

SUBMINIATURE POTENTIOMETERS

Precision, subminiature potentiometers completely sealed in high temperature, all plastic cases. Use for initial or occasional adjustment, or where a non-standard resistance value is required. High power dissipation: 224, 1 watt at 70° C, 0.5 watt at 125° C; 3051, .25 watt at 50° C, 0 watts at 150° C. Humidity-proof types meet MIL specs. Require 22 turns from 0 to full value; wire wound types have resolution varying from 2% at 10 ohms to less than 0.2% at full value. Carbon types have resistance tolerance ±20%; wirewound types are ±5%. Outstanding shock, vibration stability. Standard mounts have two #2 threaded holes on 1″ centers. Panel mount types require a maximum .13″ panel thickness with .194″ hole. Temp. ranges; 224, —65° C to +175° C; 3051, —65° C to +150° C. **Quantity prices are for one resistance value only. Specify Stock Number and resistance value when ordering.** Av. shpg. wt., 2 oz.

1-WATT HIGH TEMPERATURE HUMIDITY-PROOF WIREWOUND. Size: 1¼x3/16x5/16″. Temp. range, −65° C to +175° C.

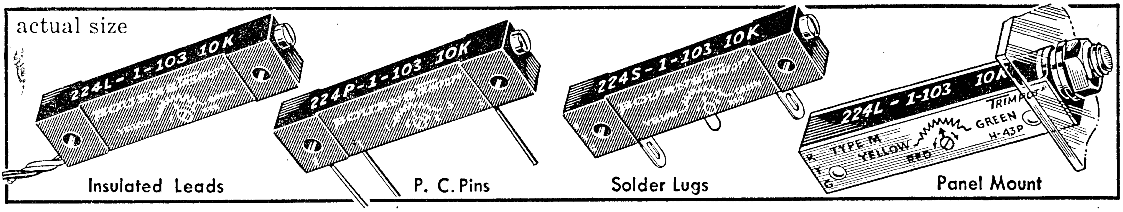
Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7366 C	224L	Insul. leads	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7367 C	224L	Insul. leads	Standard	20K, 25K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7368	224L	Insul. leads	Standard	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7362	224L-2	Insul. leads	Standard	100K only	11.34	10.50	9.45	8.97	8.40	7.98
46 D 7038 C	224L	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7039 C	224L	Insul. leads	Panel	20K, 25K	9.45	8.75	7.88	7.47	7.00	6.65
46 D 7040	224L	Insul. leads	Panel	50K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7041	224L-2	Insul. leads	Panel	100K only	12.15	11.25	10.13	9.61	9.00	8.55
46 D 7369 C	224S	Solder lugs	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7371 C	224S	Solder lugs	Standard	20K, 25K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7372	224S	Solder lugs	Standard	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7363	224S-2	Solder lugs	Standard	100K only	11.34	10.50	9.45	8.97	8.40	7.98
46 D 7042 C	224S	Solder lugs	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7043 C	224S	Solder lugs	Panel	20K, 25K	9.45	8.75	7.88	7.47	7.00	6.65
46 D 7044	224S	Solder lugs	Panel	50K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7045	224S-2	Solder lugs	Panel	100K only	12.15	11.25	10.13	9.61	9.00	8.55
46 D 7373 C	224P	P.C. pins	Printed circuit	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7374 C	224P	P.C. pins	Printed circuit	20K, 25K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7375	224P	P.C. pins	Printed circuit	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7361	224P-2	P.C. pins	Printed circuit	100K only	11.34	10.50	9.45	8.97	8.40	7.98

¼-WATT HIGH-TEMPERATURE HUMIDITY-PROOF CARBON. Size: 1¼x5/16x3/16″. Temp. range, −65° C to +150° C.

46 D 7357 C	3051L	Insul. leads	Standard		7.02	6.50	5.85	5.55	5.20	4.94
46 D 7046 C	3051L	Insul. leads	Panel	5000, 10K, 20K, 50K, 100K, 200K,	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7358 C	3051S	Solder lugs	Standard	500K, 750K, 1 meg, 2 meg, 5 meg	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7047 C	3051S	Solder lugs	Panel		7.83	7.25	6.53	6.19	5.80	5.51
46 D 7359 C	3051P	P.C. pins	Printed circuit		7.02	6.50	5.85	5.55	5.20	4.94

See Page 136 for Mounting Accessories

BOURNS Trimpot® Potentiometers



SUBMINIATURE POTS

Power rating is given at 70°C. Meet applicable MIL specs for humidity-proof (Type 236 only) and high-temperature ratings. Require 25 turns to go from zero to full value; resolution varies from 2% at 10 ohms to less than 0.2% @ full value. Tolerance, ±10%. Std. mounts have two #2 holes spaced on 1″ centers. Panel mounts require .228″ hole with max. panel thickness .13″. **Quantity prices are for one resistance value only. Specify Stock No. and value. 2 oz.**

BOURNS PART NUMBERING SYSTEM

3011	L	10	1253	M
Basic Model	Term. Style	Modifying Number	Resistance Code	Panel Mount

Basic Model: Three or 4 digits designate the various models available.
Terminal Styles: "L," insulated wire leads; "S," solder terminals; "P," printed circuit pins; "W," bare-wire leads.
Modifying Number: —1, is std. model. —2, is std. WW with values of 100K. — XX, is 2 digit nonstandard basic model.
Resistance Code (in Ohms): 3 digit code—first 2-digits represent significant nos., last digit, no. of zeros to follow. 4 digit code—first 3-digits for significant nos., last digit is no. of zeros to follow.
Panel Mount Designator: For panel mount feature add "M" to complete the part no.

4/5-WATT HUMIDITY-PROOF WIREWOUND. Size, 23⁄64x19⁄64x111⁄32″. Temp. range, —55° C. to +135° C.

Stock No.	Mfr's Type	Terminal Connections	Mtg.	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7389 C	236L	Insul. leads	Std.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7390	236L	Insul. leads	Std.	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7681	236L	Insul. leads	Std.	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7682	236L-2	Insul. leads	Std.	100K only	11.34	10.50	9.45	8.97	8.40	7.98
46 D 7020 C	236L	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7021	236L	Insul. leads	Panel	20K only	9.45	8.75	7.88	7.47	7.00	6.65
46 D 7022	236L	Insul. leads	Panel	50K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7023	236L-2	Insul. leads	Panel	100K only	12.15	11.25	10.13	9.61	9.00	8.55
46 D 7686 C	236S	Solder lugs	Std.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7687	236S	Solder lugs	Std.	20K only	8.64	8.00	7.20	6.83	6.40	6.46
46 D 7688	236S	Solder lugs	Std.	50K only	9.18	8.50	7.65	7.26	6.80	6.08
46 D 7024 C	236S	Solder lugs	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7025	236S	Solder lugs	Panel	20K only	9.45	8.75	7.88	7.47	7.00	6.65
46 D 7026	236S	Solder lugs	Panel	50K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7683 C	236P	P.C. pins	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7684	236P	P.C. pins	P.C.	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7685	236P	P.C. pins	P.C.	50K only	9.18	8.50	7.65	7.26	6.80	6.46

1-WATT HIGH-TEMPERATURE WIREWOUND. Size, 5⁄16x9⁄32x1¼″. Temp. range, —55° C. to +175° C.

46 D 7388 C	260L	Insul. leads	Std.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7394 C	260L	Insul. leads	Std.	20K, 25K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7689	260L	Insul. leads	Std.	50K only	8.10	7.50	6.75	6.41	6.00	5.70
46 D 7690	260L-2	Insul. leads	Std.	100K only	9.72	9.00	8.10	7.68	7.20	6.84
46 D 7027 C	260L	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	6.75	6.25	5.63	5.34	5.00	4.75
46 D 7028 C	260L	Insul. leads	Panel	20K, 25K	8.37	7.75	6.98	6.62	6.20	5.89
46 D 7029	260L	Insul. leads	Panel	50K only	8.91	8.25	7.43	7.05	6.60	6.27
46 D 7030	260L-2	Insul. leads	Panel	100K only	10.53	9.75	8.78	8.32	7.80	7.41
46 D 7609 C	260S	Solder lugs	Std.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7610 C	260S	Solder lugs	Std.	20K, 25K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7611	260S	Solder lugs	Std.	50K only	8.10	7.50	6.75	6.41	6.00	5.70
46 D 7031 C	260S	Solder lugs	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	6.75	6.25	5.63	5.34	5.00	4.75
46 D 7032 C	260S	Solder lugs	Panel	20K, 25K	8.37	7.75	6.98	6.62	6.20	5.89
46 D 7033	260S	Solder lugs	Panel	50K only	8.91	8.25	7.43	7.05	6.60	6.27
46 D 7612 C	260P	P.C. pins	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7613 C	260P	P.C. pins	P.C.	20K, 25K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7614	260P	P.C. pins	P.C.	50K only	8.10	7.50	6.75	6.41	6.00	5.70

Meet MIL specs for humidity-proof types plus shock, vibration and acceleration stability. **Power:** Rating at 50-70° C. **Turns:** 22 to 25, zero to full value. **Resistance Tolerance:** Type 3011, ±20%; 3010, ±5%. **Resolution:** Type 3010 (Wirewound), 2% at 10 ohms to .17% at 100K ohms. **Mounting:** Same as above types. **Quantity prices for one resistance value only. Specify Stock No. and value.** Shpg. wt., 2 oz.

1-WATT HUMIDITY-PROOF WIREWOUND. Size: 1¼x5⁄16x9⁄32″. Temp. range. −65° C. to +175° C.

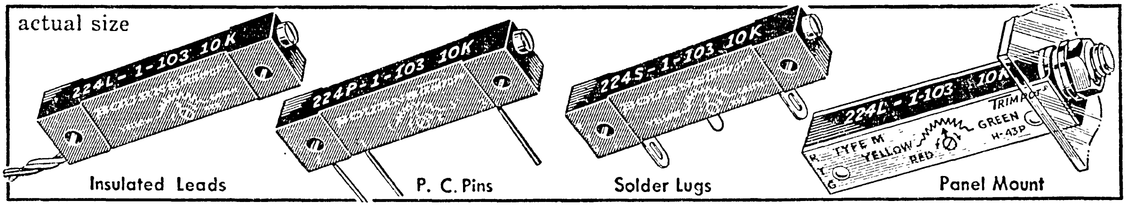
Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7624 C	3010L	Insul. leads	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7626 C	3010L	Insul. leads	Standard	20K, 25K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7627	3010L	Insul. leads	Standard	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7628	3010L-2	Insul. leads	Standard	100K only	11.34	10.50	9.45	8.97	8.40	7.98
46 D 7052 C	3010L	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7053 C	3010L	Insul. leads	Panel	20K, 25K	9.45	8.75	7.88	7.47	7.00	6.65
46 D 7054	3010L	Insul. leads	Panel	50K only	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7055	3010L	Insul. leads	Panel	100K only	12.15	11.25	10.13	9.61	9.00	8.55
46 D 7644 C	3010P	P.C. pins	Printed circuit	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7645 C	3010P	P.C. pins	Printed circuit	20K, 25K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7646	3010P	P.C. pins	Printed circuit	50K only	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7647	3010P-2	P.C. pins	Printed circuit	100K only	11.34	10.50	9.45	8.97	8.40	7.98

¼-WATT HUMIDITY-PROOF CARBON. Size: 1¼x5⁄16x9⁄32″. Temp. range. −65° C. to +150° C.

46 D 7629 C	3011L	Insul. leads	Standard	10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg, 2 meg	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7056 C	3011L	Insul. leads	Panel		7.83	7.25	6.53	6.19	5.80	5.51
46 D 7631 C	3011P	P.C. pins	Printed circuit		7.02	6.50	5.85	5.55	5.20	4.94

See Page 136 for Mounting Accessories

BOURNS Potentiometers



TRIMIT® SUBMINIATURE POTENTIOMETERS

Low-cost pots—body is only 9⁄32x5⁄16x1¼". May be stacked. Have 25-turn screwdriver adjustment, zero to full value, with self-locking shaft. Power rating is at 25° C. Operating range, —55 to ±85° C. Panel mtg. requires .228" hole with max. thickness, .13". Std. mounts have two #2 holes on 1" ctrs. **Quantity price for one resistance value only. Specify Stock No. and resistance when ordering. 2 oz.**

¼-WATT WIREWOUND TYPE. Size: 5⁄16x¼x1¼".

Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7397 C	271	Insul. leads	Standard	50, 100, 200, 500, 1000, 2000, 5000, 10K	3.19	2.95	2.66	2.52	2.36	2.24
46 D 7981	271	Insul. leads	Standard	20K	4.32	4.00	3.60	3.42	3.20	3.04
46 D 7034 C	271	Insul. leads	Panel	50, 100, 200, 500, 1000, 2000, 5000, 10K	4.00	3.70	3.34	3.16	2.96	2.81
46 D 7062	271	Insul. leads	Panel	20K	5.13	4.75	4.28	4.06	3.80	3.61
46 D 7398 C	273	Solder lugs	Standard	50, 100, 200, 500, 1000, 2000, 5000, 10K	3.19	2.95	2.66	2.52	2.36	2.24
46 D 7982	273	Solder lugs	Standard	20K	4.32	4.00	3.60	3.42	3.20	3.04
46 D 7035 C	273	Solder lugs	Panel	50, 100, 200, 500, 1000, 2000, 5000, 10K	4.00	3.70	3.34	3.16	2.96	2.81
46 D 7063	273	Solder lugs	Panel	20K	5.13	4.75	4.28	4.06	3.80	3.61
46 D 7399 C	275	P.C. pins	Printed circuit	50, 100, 200, 500, 1000, 2000, 5000, 10K	3.19	2.95	2.66	2.52	2.36	2.24
46 D 7983	275	P.C. pins	Printed circuit	20K	4.32	4.00	3.60	3.42	3.20	3.04

1/5-WATT CARBON TYPE. Size: 9⁄32x5⁄16x1¼".

Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499
46 D 7377 C	272	Insul. leads	Standard	5000, 10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg, 2 meg, 5 meg	3.78	3.50	3.15	2.99	2.80	2.66
46 D 7036 C	272	Insul. leads	Panel		4.59	4.25	3.83	3.63	3.40	3.23
46 D 7378 C	274	Solder lugs	Standard		3.78	3.50	3.15	2.99	2.80	2.66
46 D 7037 C	274	Solder lugs	Panel		4.59	4.25	3.83	3.63	3.40	3.23
46 D 7379 C	276	P.C. pins	Printed circuit		3.78	3.50	3.15	2.99	2.80	2.66

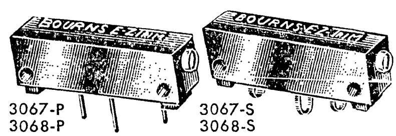
PALIRIUM®-ELEMENT POTENTIOMETERS

Non-wirewound, with infinite resolution resistance element "Palirium." Humidity proof. 25 turns from 0 to full value. Idles at both ends of travel. Meet applicable portions of **MIL-R-22097B.** Maximum operating temperature 175° C. **Types** 3012 **and** 3052. Tol., ±10%. End settings, 0.1% max. Power rating, 1 watt at 70° C. Temp. coefficient: 25° C to 175° C, ±100 PPM/° C to —65° C, ±100/—300 PPM/°C. **Type 3053.** 2 ohms, ±15%; 5 ohms to 100 ohms, ±10%. Power rating, 0.5 watt at 70° C. Temp. coefficient: 2 ohms and 5 ohms, —100 to +600 PPM/° C; 10 ohms to 100 ohms, —100 to +300 PPM/°C. 3012 5⁄16x9⁄32x1¼"; 3052, 3053 3⁄16x5⁄16x1¼". 2 oz.

Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499
46 D 7164 C	3012L	Insul. leads	Standard	2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg.	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7192 C	3012L	Insul. leads	Panel		6.75	6.25	5.63	5.34	5.00	4.75
46 D 7165 C	3012P	P.C. pins	Printed circuit		5.94	5.50	4.95	4.70	4.40	4.18
46 D 7193 C	3012P	P.C. pins	Panel		6.75	6.25	5.63	5.34	5.00	4.75
46 D 7166 C	3052L	Insul. leads	Standard	2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg.	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7194 C	3052L	Insul. leads	Panel		6.75	6.25	5.63	5.34	5.00	4.75
46 D 7167 C	3052P	P.C. pins	Printed circuit		5.94	5.50	4.95	4.70	4.40	4.18
46 D 7195 C	3052P	P.C. pins	Panel		6.75	6.25	5.63	5.34	5.00	4.75
46 D 7168 C	3053L	Insul. leads	Standard	20, 50, 100, 200	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7196 C	3053L	Insul. leads	Panel	20, 50, 100, 200	6.75	6.25	5.63	5.34	5.00	4.75
46 D 7169 C	3053P	P.C. pins	Printed circuit	2, 5	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7170 C	3053P	P.C. pins	Printed circuit	10, 20, 50, 100, 200	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7197 C	3053P	P.C. pins	Panel	2, 5	9.99	9.25	8.33	7.90	7.40	7.03
46 D 7198 C	3053P	P.C. pins	Panel	10, 20, 50, 100, 200	6.75	6.25	5.63	5.34	5.00	4.75

E-Z TRIM® POTENTIOMETERS

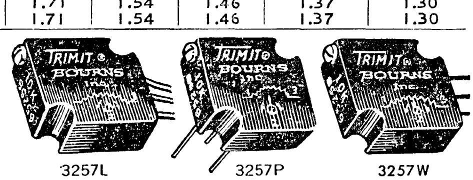
Types 3067, 3068. Type 3067 ½-watt 15-turn and 3068 1⁄5-watt 15-turn potentiometers are designed specifically for commercial applications. 3068 has a Resiston® carbon resistance element. 3067 has precision wire-wound element. 15-turn adjustment and self-locking shafts for stable and precise electrical settings. Wipers idle at both ends of travel. *Printed circuit pin. †Solder lugs. Mtg. ctrs. 53⁄64". 3⁄8x1x 9⁄32". **Specify mfr's Type No. and resistance value wanted when ordering.** 2 oz.



Stock No.	Mfr's Type	Values Available (Ohms)—Specify Values	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.	100-249, EA.	250-499, EA.
46 D 7636 C	†3067-S	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K	1.85	1.71	1.54	1.46	1.37	1.30
46 D 7637 C	*3067-P	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K	1.85	1.71	1.54	1.46	1.37	1.30
46 D 7638 C	†3068-S	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	1.85	1.71	1.54	1.46	1.37	1.30
46 D 7639 C	*3068-P	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	1.85	1.71	1.54	1.46	1.37	1.30

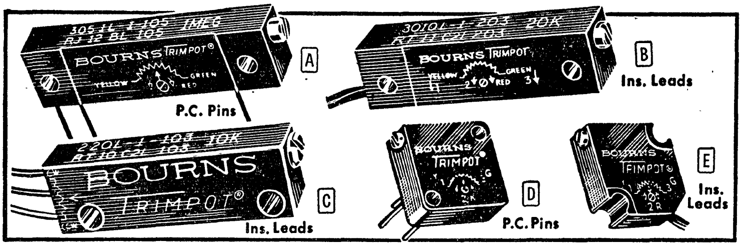
MODEL 3257 TRIMIT POTENTIOMETER

Low cost commercial type for industrial or lab use. 25-turn screwdriver adjustment. Positive stops at end of wiper travel. Silverweld® termination. Power rating, .5 watts at room temperature. Operating temperature range, —65° C to 105° C. *indicates insulated stranded leads; † indicates printed circuit pins for flat mounting; ‡ indicates printed circuit pins for end mounting. **Be sure to specify Mfr's type and resistance wanted when ordering.** Shpg. wt., 2 oz.



Stock No.	Mfr's Type	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7738 C	3257L*	10, 20, 50, 100, 200, 500, 1000, 2000, 10K	3.19	2.95	2.66	2.52	2.36
46 D 7739	3257L*	20K only	4.32	4.00	3.60	3.42	3.20
46 D 7740 C	3257P†	10, 20, 50, 100, 200, 500, 1000, 2000, 10K	3.19	2.95	2.66	2.52	2.36
46 D 7741	3257P†	20K only	4.32	4.00	3.60	3.42	3.20
46 D 7742 C	3257W‡	10, 20, 50, 100, 200, 500, 1000, 2000, 10K	3.19	2.95	2.66	2.52	2.36
46 D 7743	3257W‡	20K only	4.32	4.00	3.60	3.42	3.20

BOURNS Precision Potentiometers



NUMBER OF TURNS (Zero to Maximum)

MIL	Turns	Size
RT10	15	1x.180x.315″
RT11	25	1.25x.280x.312″
RT12	22	1.25x.190x.320″
RT22	25	.500x.500x.220″
RJ11	22	1.250x.280x.312″
RJ12	22	1.25x.190x.320″
RJ22	25	.500x.500x.220″

MILITARY STANDARD MULTI-TURN POTENTIOMETERS

MIL-R-27208 Wirewound. Rated ¾-watt at 85° C. Max. operating temp., 150° C. Temp. coeff., ±70PPM/° C, referred to an ambient of 25° C. Resistance tol. ±5%. RT10, microminiature, ¾″ mtg. centers. RT11, RT12; subminiature, 1″ mtg. centers. RT22 square, .52″ mtg. center on lead type. **MIL-R-22097 Carbon.** Rated ¼-watt at 70°C. Max., 125° C. Temp. coeff., ±600 PPM/° C. Tol. ±10%. Mtg. centers; RJ11BL, RJ12, 1″; RJ22BL, .52″. **Quantity prices are for one resistance value only.** Av. shpg. wt., 2 oz.

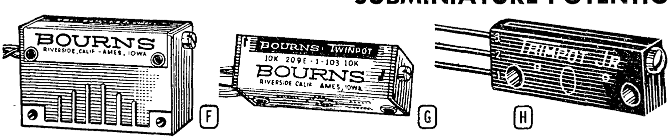
MIL-R-27208 WIREWOUND POTENTIOMETERS

Stock No.	MIL No.	Fig.	Termi-nals	Resistance Values, Ohms	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7171 C	RT10C2L	C	Insul. wire	100, 200, 500, 1000, 2000, 5000, 10K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7172 C	RT11C2L	B	Insul. wire	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7173	RT11C2L	B	Insul. wire	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7174 C	RT11C2P	A	P.C. pins	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7175	RT11C2P	A	P.C. pins	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7176 C	RT12C2L	B	Insul. wire	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7177	RT12C2L	B	Insul. wire	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7178 C	RT12C2P	A	P.C. pins	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.02	6.50	5.85	5.55	5.20	4.94
46 D 7179	RT12C2P	A	P.C. pins	20K only	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7180 C	RT22C2L	E	Insul. wire	100, 200, 500, 1000, 2000, 5000, 10K	6.71	6.22	5.59	5.31	4.97	4.72
46 D 7162	RT22C2L	E	Insul. wire	20K only	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7181 C	RT22C2P	D	P.C. pins	100, 200, 500, 1000, 2000, 5000, 10K	7.23	6.69	6.02	5.71	5.35	5.08
46 D 7163	RT22C2P	D	P.C. pins	20K only	7.97	7.38	6.64	6.30	5.90	5.61

MIL-R-22097 CARBON POTENTIOMETERS

Stock No.	MIL No.	Fig.	Termi-nals	Resistance Values, Ohms	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7182 C	RJ11BL	B	Insul. wire	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7183 C	RJ11BP	A	P.C. pins	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7186 C	RJ12BL	B	Insul. wire	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7187 C	RJ12BP	A	P.C. pins	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7184 C	RJ22BL	E	Insul. wire	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	8.37	7.75	6.98	6.62	6.20	5.89
46 D 7185 C	RJ22BP	D	P.C. pins	20K, 25K, 50K, 100K, 250K, 500K, 1 meg	8.37	7.75	6.98	6.62	6.20	5.89

SUBMINIATURE POTENTIOMETERS



Humidity-proof types meet MIL specs. Tol., ±10% Resolution: 2% @ 10 ohms to less than 0.2% @ full value. Standard mounts: 207, 208; 4 holes on 1½″ square. 220, two #2 threaded holes on ¾″ center. Panel mount requires .13″ thickness with .228″ hole, except 220, .194″ hole. **Specify Stock No., resistance. Quantity prices are for one resistance value only.** Shpg. wt., 2 oz.

2-WATT HIGH-RESISTANCE WIREWOUND. 1¼x1$^{3}/_{16}$x$^{9}/_{32}$″. Temp., −65° C to +175° C.

Stock No.	Mfr's Type	Fig.	Termi-nals	Mount-ing	Resistance: Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7603 C	207L	F	Insul. leads	Standard	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K	10.26	9.50	8.55	8.11	7.60	7.22
46 D 7604	207L	F	Insul. leads	Standard	100K only	11.88	11.00	9.90	9.39	8.80	8.36
46 D 7048 C	207L	F	Insul. leads	Panel	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K	11.07	10.25	9.23	8.75	8.20	7.79
46 D 7049	207L	F	Insul. leads	Panel	100K only	12.69	11.75	10.58	10.03	9.40	8.93

2-WATT WIREWOUND RHEOSTAT (HIGH-RESISTANCE). 1¼x1$^{3}/_{16}$x$^{9}/_{32}$″. Temp., −65° C to +175° C.

Stock No.	Mfr's Type	Fig.	Termi-nals	Mount-ing	Resistance: Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499
46 D 7050 C	208L	F	Insul. leads	Standard	100K, 150K	11.34	10.50	9.45	8.97	8.40	7.98
46 D 7051	208L	F	Insul. leads	Standard	200K only	12.96	12.00	10.80	10.25	9.60	9.12
46 D 7060 C	208L	F	Insul. leads	Panel	100K, 150K	12.15	11.25	10.13	9.61	9.00	8.55
46 D 7061	208L	F	Insul. leads	Panel	200K only	13.77	12.75	11.48	10.89	10.20	9.69

½-WATT TWINPOT®—POTENTIOMETER DUAL WIREWOUND. 1¼x½x$^{5}/_{16}$″. Temp., −65° C to +135° C.

Dual wirewound pots—one shaft controls both potentiometers. Both elements are of identical value and each dissipates ½ watt @ 70° C. Tracking is 5% from 200 ohms to 50K, 8% from 10 ohms to 100 ohms. ±10% tolerance. Standard mounts have two #2 mtg. holes on 1″ ctrs. Panel mount types require max .13″ panel thickness and .228″ hole. **Specify Stock No. and resistance when ordering.**

Stock No.	Mfr's Type	Fig.	Termi-nals	Mount-ing	Resistance: Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7615 C	209L	G	Insul. leads	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	12.96	12.00	10.80	10.25	9.60	9.12
47 D 7616 C	209L	G	Insul. leads	Standard	20K, 25K	14.58	13.50	12.15	11.53	10.80	10.26
46 D 7691	209L	G	Insul. leads	Standard	50K only	16.20	15.00	13.50	12.81	12.00	11.40
46 D 7057 C	209L	G	Insul. leads	Panel	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	15.12	14.00	12.60	11.97	11.20	10.64
46 D 7058 C	209L	G	Insul. leads	Panel	20K, 25K	16.74	15.50	13.95	13.25	12.40	11.78
46 D 7059	209L	G	Insul. leads	Panel	50K only	18.36	17.00	15.30	14.53	13.60	12.92

1-WATT MICRO-MINIATURE HUMIDITY-PROOF WIREWOUND. $^{5}/_{16}$x1$^{1}/_{64}$x1″. Temp., −65° C. to +175° C.

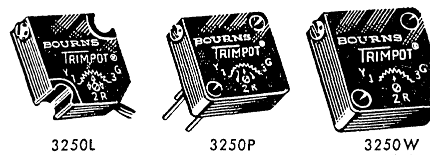
Stock No.	Mfr's Type	Fig.	Termi-nals	Mount-ing	Resistance: Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499
46 D 7607 C	220L	H	Insul. leads	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7608 C	220L	H	Insul. leads	Standard	20K, 30K	10.26	9.50	8.55	8.11	7.60	7.22
46 D 7395 C	220W	H	Uninsul.lds.	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	8.64	8.00	7.20	6.83	6.40	6.08
46 D 7396 C	220W	H	Uninsul.lds.	Standard	20K, 30K	10.26	9.50	8.55	8.11	7.60	7.22

See Page 136 for Accessories

BOURNS Precision Potentiometers

TRIMPOT® SUBMINIATURE HUMIDITY-PROOF POTENTIOMETERS

Types 3250, 3251. Humidity-proof, high temp. potentiometers, employing ½" square case configuration. Permit critical adjustment of all types of circuits. Have 25-turn, self-locking screwdriver adjustment with idling wiper at ends of travel to prevent damage. **Type 3250** is a wirewound pot usable to 175°C, rated 1 w. to 70°C. Resolution varies from 1.3% to 0.1%, 10 to 50K ohms respectively. Tol., ±5%. **Type 3251** is a carbon pot usable to 150°C, rated @ ½ w. to 50°C, ¼ w. to 100°C. Infinite resolution. Tol., ±20%. Both types meet **MIL-STD-202B** and **MIL-E-5272** specs for humidity, shock, vibration and dielectric strength. * L indicates Teflon insulated leads; †P and W indicate printed circuit pins with different locations—see illustrations. L, ½x½x3/16"; P and W, ½x½x7/32". Shpg. wt., 2 oz.

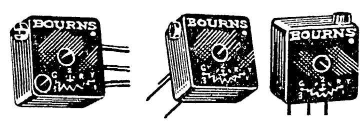


3250L 3251L INSULATED LEADS | 3250P 3251P P. C. PINS | 3250W 3251W P. C. PINS

Stock No.	Mfr's Type	Mounting	Resistance Values Available Specify Values Wanted	EACH (Prices are for one resistance value only) 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7692 C	3250L*	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	6.71	6.22	5.59	5.31	4.97	4.72
46 D 7693 C	3250L*	Standard	20K, 25K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7694	3250L*	Standard	50K only	10.00	9.27	8.34	7.91	7.41	7.04
46 D 7936 C	3251L*	Standard	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7695 C	3250P†	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.23	6.69	6.02	5.71	5.35	5.08
46 D 7696 C	3250P†	P.C.	20K, 25K	7.97	7.38	6.64	6.30	5.90	5.61
46 D 7697	3250P†	P.C.	50K only	10.53	9.75	8.78	8.33	7.80	7.41
46 D 7937 C	3251P†	P.C.	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.83	7.25	6.53	6.19	5.80	5.51
46 D 7066 C	3250W†	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.23	6.69	6.02	5.71	5.35	5.08
46 D 7067 C	3250W†	P.C.	20K, 25K	7.97	7.38	6.64	6.30	5.90	5.61
46 D 7068	3250W†	P.C.	50K only	10.53	9.75	8.78	8.33	7.80	7.41
46 D 7938 C	3251W†	P.C.	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.83	7.25	6.53	6.19	5.80	5.51

MICROMINIATURE HUMIDITY-PROOF POTENTIOMETERS

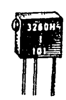
Type 3280. Humidity-proof wirewound Trimpot potentiometer with relatively high power handling capabilities in a package only ⅜" square. Rated @ 1 watt to 70° C, ½-watt to 125° C. Usable to 175° C. High resolution, 1.25% to 0.11% from 10 to 50K ohms respectively. 25-turn screwdriver adjustment with positive acting end stops and clutch. **Meet MIL-STD-202B and MIL-E-5272** spect for humidity, shock, vibration, and dielectric strength. Shpg. wt., 2 oz. **Type 3281.** Identical in appearance, dimensions, and mounting arrangements to 3280. Power rating 0.50 watt at 50° C. Minimum insulation resistance at 500 VDC, 100 megs. Resiston® carbon element provides values up to 1 meg. 25-turn mechanical worm gear with positive stops. Automatic clutch prevents damage to stop mechanism. Dielectric strength per **MIL-R-22097B.** MIL specs for sand, dust, salt, spray, and moisture resistance. Op. temp., —65° C to +150° C.



3280L 3281L INSULATED LEADS | 3280P 3281P P. C. PINS | 3280W 3281W P. C. PINS

Stock No.	Mfr's Type	Mounting	Resistance Values Available Specify Values Wanted	EACH (Prices are for one resistance value only) 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7069 C	3280L	Standard	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7070 C	3280L	Standard	20K, 25K	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7071	3280L	Standard	50K only	9.72	9.00	8.10	7.69	7.20	6.84
46 D 7986 C	3281L	Standard	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7072 C	3280P	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7073 C	3280P	P.C.	20K, 25K	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7074	3280P	P.C.	50K only	9.72	9.00	8.10	7.69	7.20	6.84
46 D 7987 C	3281P	P.C.	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7075 C	3280W	P.C.	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7076 C	3280W	P.C.	20K, 25K	9.18	8.50	7.65	7.26	6.80	6.46
46 D 7077	3280W	P.C.	50K only	9.72	9.00	8.10	7.69	7.20	6.84
46 D 7988 C	3281W	P.C.	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	7.56	7.00	6.30	5.98	5.60	5.32

Model 3260 is a humidity-proof, micro-miniature potentiometer which provides resistance values up to 20K ohms in a package only ¼" square. All plastic sealed case protects against liquids and potting compounds. 11-turn mechanical adjustment. Positive end stops at both ends of travel and clutch action wiper. Power rating is 0.2 watt at 70° C. Operating temperature range, —65° C to 175° C. Exceeds MIL specs for shock, vibration, salt, sand, dust, etc. Dielectric strength per **MIL-R-27208A.** Resistance tol., ±5%. Insulation resistance at 500 VDC, 1000 meg minimum. High resolution—1.68% at 10 ohms to .21% at 20K ohms. **Specify Stock No. and Resistance when ordering.** Average shpg. wt., 2 oz.

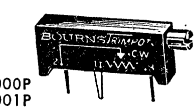


Stock No.	Mfr's Type	Mounting	Resistance Values Available Specify Values Wanted	EACH (Prices are for one resistance value only) 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7734 C	3260H	P.C.	10, 20, 50, 100, 200, 500, 1000	7.50	6.95	6.25	5.93	5.56	5.28
46 D 7735 C	3260H	P.C.	2000, 5000	8.25	7.64	6.88	6.53	6.11	5.81
46 D 7736 C	3260H	P.C.	10K and 20K	10.50	9.72	8.75	8.31	7.78	7.39

15-TURN MICROMINIATURE, HIGH-TEMPERATURE, HUMIDITY-PROOF TRIMPOT

Type 3000P. Microminiature Trimpot with high temperature, sealed plastic case, usable to 175° C. Precision wirewound element uses low temperature coefficient wire and ceramic resistance element card to eliminate breakage and strain gauge effects. 15-turn screwdriver adjustment and wiper which idles at both ends of travel—prevents damage from forced adjustment. Meet **MIL-STD-202B** specs for humidity, vibration, and shock. Silverweld® termination eliminates vulnerable single wire termination. Power rating is ½-watt at 70° C. Resolution varies from 1.7% to 0.29% from 50 to 20K ohms respectively. Res. tol. ±10%. P. C. mtg. ¾x5/32x5/16". **Type 3001P** has the same appearance, dimensions, and mounting arrangements as Type 3000P, but is a carbon pot usable to 150° C. Resiston® carbon element provides values up to 1 meg. Power rating is 0.2 watt at 70° C. Meets MIL specs for humidity, shock, and vibration. Wiper assembly idles at ends of travel. Infinite resolution. Res. tol. ±20%. **(Prices are for one resistance value only).** Shpg. wt., 2 oz.

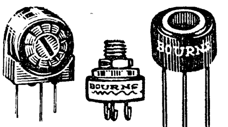
3000P
3001P



Stock No.	Mfr's Type	Values Available (Ohms)—Specify Values	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.	100-249, EA.	250-499, EA.
46 D 7621 C	3000P	50, 100, 200, 500, 1000, 2000, 5000, 10K	9.72	9.00	8.10	7.68	7.20	6.84
46 D 7622	3000P	20K only	10.80	10.00	9.00	8.54	8.00	7.60
46 D 7064 C	3001P	20K, 50K, 100K, 200K, 500K, 750K, 1 meg	9.18	8.50	7.65	7.26	6.80	6.46

BOURNS Potentiometers

SUBMINIATURE AND MICROMINIATURE TRIMPOT® POTENTIOMETERS



3301W 3300W 3307W 3300S 3301S 3300P 3301P 3307P

1-TURN MICROMINIATURE TRIMPOT® POTENTIOMETERS

Type 3300. Humidity-proof, single-turn wirewound potentiometers. Power rating: ½ watt @ 70°C ambient; ¼ watt @ 110°C ambient. Excellent shock and vibration stability. All MIL-R-27208A. Stops are provided at each end of travel—units have low residual end setting resistance (0 to 1.0%). Continuity is maintained throughout full mechanical range. Silverweld® termination eliminates vulnerable single-wire termination. Resistance tolerance, ±5%. Electrical adjustment slot .025" wide. 3300P has No. 26 gold-plated printed circuit pins .016" dia. 3300S has gold-plated solder lugs 5/32" long. 3/16x5/16" dia. with ¼" 10-32 bushing on 3300S. **Specify desired values.** *Contact the Allied facility nearest you for prices on quantities over 499.* **Quantity prices are for one resistance value only.** Shpg. wt., 2 oz.

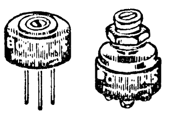
Stock No.	Mfr's Type	Values Available From Stock (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7931 C	3300P	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7932	3300P	20K only	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7929 C	3300W	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7930	3300W	20K only	7.56	7.00	6.30	5.98	5.60	5.32
46 D 7933 C	3300S	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	8.91	8.25	7.43	7.05	6.60	6.27
46 D 7934	3300S	20K only	10.53	9.75	8.78	8.33	7.80	7.41

Type 3301. Humidity-proof, single-turn potentiometers with high-temperature Resiston® carbon element. Power rating, 0.25 watt @ 70°C. Resistance tolerance, ±20%. Same size and mounting characteristics as 3300, above. **Specify resistance values desired.**

46 D 7989 C	3301P	10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7991 C	3301W	10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7990 C	3301S	10K, 20K, 50K, 100K, 200K, 500K, 750K, 1 meg	8.91	8.25	7.43	7.05	6.60	6.27

Type 3307. Low cost commercial version. Lightweight all-plastic case, smaller than most transistors. Just 5/16" diameter x 3/16". Power rating, 0.5 watt at 70°C. Resistance tolerance, ±5%. Mounting same as Type 3300 above. **Specify values desired.**

46 D 7711 C	3307P	50, 100, 200, 500, 1000, 2000, 5000	3.78	3.50	3.15	2.99	2.80	2.66
46 D 7712	3307P	10K only	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7713	3307P	20K only	5.94	5.50	4.95	4.70	4.40	4.18
46 D 7714 C	3307W	50, 100, 200, 500, 1000, 2000, 5000	3.78	3.50	3.15	2.99	2.80	2.66
46 D 7715	3307W	10K only	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7716	3307W	20K only	5.94	5.50	4.95	4.70	4.40	4.18



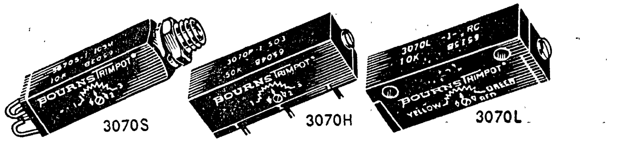
3367P 3368P 3367S 3368S

1-TURN SUBMINIATURE TRIMPOT® POTENTIOMETERS

Types 3367, 3368. Light plastic case. Individually inspected for guaranteed electrical and physical characteristics. Type 3367 is wirewound pot rated ½ w. to 70°C, usable to 105°C ambient. Resolution 1.3 to 0.12% from 10 to 20,000 ohms respectively. ±5%. Type 3368 is Resiston® carbon pot rated ¼ w. to 50°C, 1/10 w. @ 82°C, usable to 105°C. Infinite resolution. ±20%. Both meet steady state humidity test with under 1% wiper shift under extreme vibration. Body 3/16x½" dia. S types have #12-28 bushing and nut, 9/32" long. **Specify value wanted. Quantity prices are for one resistance value only.** Shpg. wt., 2 oz.

46 D 7640 C	3367S	10,20,50,100,200,500,1000,2000,5,000,10K,20K	5.67	5.25	4.73	4.48	4.20	3.99
46 D 7083 C	3368S	20K, 50K, 100K, 200K, 500K, 750K, 1 Meg	6.75	6.25	5.63	5.34	5.00	4.75
46 D 7642 C	3367P	10,20,50,100,200,500,1000,2000,5000,10K,20K	4.86	4.50	4.05	3.84	3.60	3.42
46 D 7084 C	3368P	20K, 50K, 100K, 200K, 500K, 750K, 1 Meg	5.94	5.50	4.95	4.70	4.40	4.18

SERIES 3070 HIGH RESOLUTION, HUMIDITY-PROOF, WIREWOUND POTS



Exceptional resolution is 8 times better than standard pots. Rated 1½ watts at 70°C. Resolution, .13 to .028% from 100 to 50K respectively. ±5%. Meets MIL-R-27208A for temperature, shock, vibration, salt spray, load life and dielectric strength; MIL-E-5272C for sand, dust and fungus. Operating temperature, —65 to +175°C. **Specify values wanted. Quantity prices are for one resistance value only.** 2 oz.

Stock No.	Mfr's Type	Terminal Connections	Mounting	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7717 C	3070S	Solder	Standard	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.00	8.30	7.50	7.12	6.67	6.33
46 D 7718	3070S	Solder	Standard	50K only	11.00	10.19	9.17	8.70	8.15	7.74
46 D 7719 C	3070S	Solder	Panel	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.80	9.08	8.17	7.75	7.26	6.90
46 D 7720	3070S	Solder	Panel	50K only	11.80	10.93	9.83	9.33	8.74	8.30
46 D 7721 C	3070L	Flexible	Standard	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.00	8.30	7.50	7.12	6.67	6.33
46 D 7722	3070L	Flexible	Standard	50K only	11.00	10.19	9.17	8.70	8.15	7.74
46 D 7723 C	3070L	Flexible	Panel	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.80	9.80	8.17	7.75	7.26	6.90
46 D 7724	3070L	Flexible	Panel	50K only	11.80	10.93	9.83	9.33	8.74	8.30
46 D 7725 C	3070P	Pin	P C	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.00	8.30	7.50	7.12	6.67	6.33
46 D 7726	3070P	Pin	P C	50K only	11.00	10.19	9.17	8.70	8.15	7.74
46 D 7727 C	3070H	Pin	P C	100, 200, 500, 1000, 2000, 5000, 10K, 20K	9.00	8.30	7.50	7.12	6.67	6.33
46 D 7728	3070H	Pin	P C	50K only	11.00	10.19	9.17	8.70	8.15	7.74

MOUNTING ACCESSORIES Av. shpg. wt., 2 oz.

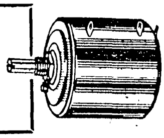
Stock No.	Type	Used with These Types	Description	1-24 EA.	25-99 EA.
46 D 7393	H-01	All types	1½", 2-56 round head screws; for mtg., 4 or 5 units	.02	.02
46 D 7617	H-02	All types	12" long, 2-56 stainless rod; for group mtg., any number units	.80	.80
46 D 7984	H-04	3250, 3251, 3280, 3281	#1-72x1" machine screw for mounting	.03	.03
46 D 7985	H-05	3250, 3251, 3280, 3281	Hex nut for use with above screw	.05	.05
46 D 7391	H-11E	200, 207, 208, 209, 215, 224, 235, 236,	End mounting bracket for types having 1" mtg. ctrs.	.20	.15
46 D 7392	H-12S	260, 271-274, 3010-3012, 3051-3053	Side mounting bracket for types having 1" mtg. ctrs.	.20	.15
46 D 7618	H-13P	271, 272, 273, 274	Panel mounting bracket, clip type, for 1" mtg. ctrs.	.20	.15
46 D 7586	H-15S	3067, 3068	Side mounting bracket	.20	.15
46 D 7619	H-21E	220	End mounting bracket for types having ¾" mtg. ctrs.	.20	.15
46 D 7620	H-22S	220	Side mounting bracket for types having ¾" mtg. ctrs.	.20	.15
46 D 7000	H-25	3250, 3251	Stainless stacking straps. For ½" square types.	.05	.04
46 D 7001	H-26S	3250, 3251	Stainless side mounting bracket. For ½" square types.	.20	.15
46 D 7002	H-90	All types	Screwdriver for setting panel-mount models. With clip.	.35	.30

Specify Mfr's Type and Value When Ordering Potentiometers

BOURNS Precision Controls

3400 BUSHING MOUNT 10-TURN POT

- Directly Replaces Helipot Model A, and Spectrol 860
- Rated 5 Watts at 40°C.

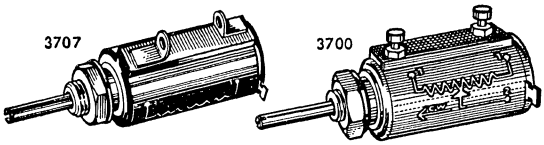


Longer element for better resolution. Excellent wiper stability. Silverweld® wire termination. Molded, all plastic moisture-resistant housing. Power rating, 5.0 watts at 40°C. Operating temperature, —65 to +105°C. Meets MIL-R-12934C humidity cycling. 1 13/16" dia. body is 1¾" long. ½" shaft. ⅜"-32 bushing. Solder lug terminals. **Quantity prices for one resistance value only.** Shpg. wt., 7 oz.

Stock No.	Stock Values (Specify)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7698 C	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 250K	10.00	9.50	9.00	8.50	8.00
46 D 7700	500K only	19.00	18.05	17.10	16.15	15.20
46 D 7701	1 meg only	28.00	26.60	25.20	23.80	22.40

SERIES 3700 AND 3707—½" PRECISION POTENTIOMETERS

3707 3700



Miniature 10-turn bushing mount pots. Resolution, .090% to .020% from 100 to 100K respectively. Type 3700 rated 1 watt at 70°C ambient and is steady state humidity-resistant; Type 3707 rated 1 watt at 40°C ambient. Operating temperature range; Type 3700, —65° to +125°C; Type 3707, —55° to +105°C. Resistance tolerance, ±5%. Independent linearity: Type 3700 ±0.25%; Type 3707 ±1.0%. Molded all-plastic case with shaft seal and solder lugs. Silverweld® multiple resistance wires completely eliminate vulnerable single wire termination. **Quantity prices for one resistance value only.** Shpg. wt., 4 oz.

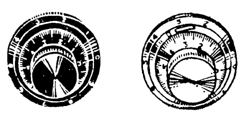
TYPE 3700

Stock No.	Stock Values (Specify)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7091 C	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K	24.50	23.28	22.05	20.83	19.60
46 D 7702	250K only	32.00	30.40	28.80	27.20	25.60

TYPE 3707

Stock No.	Stock Values (Specify)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7729 C	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K and 100K ohms	12.50	11.88	11.25	10.63	10.00

1" DIAMETER 10-TURN COUNTING DIALS

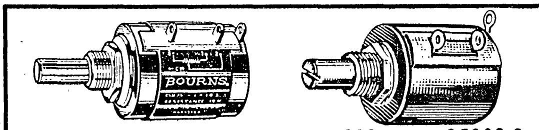


Black-with brake   Clear-less brake

Counting dials for Bourns precision pots. In black or clear finish with knurled knob and anodized aluminum dial. Can be set to less than a tenth percent of total travel. Reliable locking device on units with brake secures dial without shift in setting. Show no appreciable wear after more than ¼-million cycles of life testing. Knob fastens directly to shaft. Types H-431, H-432, H-481, and H-482 fit 3/32" diameter shaft on Series 3700, 3707 potentiometers. **Quantity prices for one resistance value only.** Shpg. wt., 4 oz.

Stock No.	Mfr's Type With Brake	Mfr's Type Without Brake	Fits Shaft-Dia.	Finish	EACH 1-9	10-24	25-99
46 D 7587	......	H-411	¼"	Black	7.75	7.36	6.98
46 D 7588	H-412	......	¼"	Black	8.95	8.50	8.06
46 D 7589	......	H-461	¼"	Clear	7.75	7.36	6.98
46 D 7590	H-462	......	¼"	Clear	8.95	8.50	8.06
46 D 7591	......	H-421	⅛"	Black	7.75	7.36	6.98
46 D 7592	H-422	......	⅛"	Black	8.95	8.50	8.06
46 D 7593	......	H-471	⅛"	Clear	7.75	7.36	6.98
46 D 7594	H-472	......	⅛"	Clear	8.95	8.50	8.06
46 D 7595	......	H-431	3/32"	Black	8.10	7.70	7.29
46 D 7596	H-432	......	3/32"	Black	9.30	8.84	8.37
46 D 7597	......	H-481	3/32"	Clear	8.10	7.70	7.29
46 D 7598	H-482	......	3/32"	Clear	9.30	8.84	8.37

10-TURN PRECISION WIREWOUND POTS



3507   3500S-1   3500S-2

Types 3500S-1, 3500S-2. Steady-state humidity-proof. 2 watts at 70°C ambient. Operating temperature range, —65° to +125°C. Resist shock, vibration, sand, dust, fungus. Resistance tolerance, ±3%; end settings, 1% or less. Molded all-plastic case with shaft seal. Resolution: .042% to .006%—50 ohms to 500K, respectively. 3500S-1 has 1 1/16" shaft including bushing; 3500S-2 has 1 3/16" shaft with bushing. ¼" shaft dia. Bushing, ⅜-32. Body, 1x⅞" dia. Silverweld® terminations. Solder lug terminals.

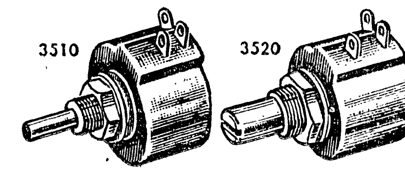
Type 3507S-1. 10-turn pot with excellent wiper stability. 2 watts at 25°C ambient. Operating range, —55 to +105°C. Resolution, .070 to .008% from 100 ohms to 250K, respectively. Tolerance, ±5%. Body, 1⅛x⅞" dia. Shaft length, 13/16" with bushing. Silverweld® terminations. Solder terminals. **Specify value wanted. Quantity prices are for one resistance value only.** Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Ohms (Specify Value Wanted)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7935 C	3500S-1	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 125K	10.00	9.50	9.00	8.50	8.00
46 D 7703 C	3500S-1	150K, 200K, 250K	19.00	18.05	17.10	16.15	15.20
46 D 7704	3500S-1	500K only	28.00	26.60	25.20	23.80	22.40
46 D 7078 C	3500S-2	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 125K	10.00	9.50	9.00	8.50	8.00
46 D 7705 C	3500S-2	150K, 200K, 250K	19.00	18.05	17.10	16.15	15.20
46 D 7706	3500S-2	500K only	28.00	26.60	25.20	23.80	22.40
46 D 7699 C	3507S-1	100, 200, 500, 1000, 2000, 5000, 5K, 10K, 20K, 50K, 100K	7.50	6.60	6.25	5.95	5.50
46 D 7707	3507S-1	250K only	16.50	14.52	13.74	13.08	12.09

3 AND 5-TURN BUSHING MOUNT POTS

- Humidity Resistant
- Temp. Range —65 to +125°C
- Individually Inspected

3510   3520



Types 3510S, 3520S. Compact, sealed wirewound pots with high humidity resistance. Meet MIL-STD-202 for steady-state humidity, vibration and shock; meet MIL-E-5272C for sand, dust, fungus. Individual inspection of each potentiometer is carried out to guarantee physical and electrical characteristics.

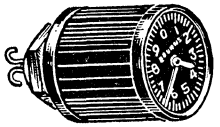
Type 3510S is a 3-turn pot rated @ 1 watt to 70°C ambient. Resolution is .1 to .028% from 200-ohm to 50K models respectively. ⅞" dia. body is .549" long with 11/16" long bushing and shaft. ⅛" dia. shaft with ¼" bushing. Type 3520S is a 5-turn pot rated @ 1½ watts to 70°C. Resolution is .07 to .015% from 200-ohm to 75K models respectively. ⅞" dia. body is .678" long with 13/16" long bushing and shaft. ¼" dia. shaft with ⅜" bushing. Tolerance of ± 3% and solder lugs. **Specify values wanted.** Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Ohms (Specify Value Wanted)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7079 C	3510S	25, 50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K	15.00	14.25	13.50	13.50	12.75
46 D 7708	3510S	100K only	33.00	31.35	29.70	29.70	28.05
46 D 7080 C	3520S	50, 100, 200, 500, 1000, 5000, 10K, 20K, 50K, 75K	13.50	12.83	12.15	11.48	10.80
46 D 7909	3520S	100K only	22.50	21.38	20.25	19.13	18.00
46 D 7710	3520S	250K only	31.50	29.93	28.35	26.78	25.20

ALLIED ELECTRONICS' TREMENDOUS STOCKS assure fast delivery of industrial quantities at OEM factory prices. One purchase-order to Allied fills the bill.

Please Be Certain to Specify Mfr's Type and Resistance When Ordering

BOURNS KNOBPOT®, LABPOT® POTENTIOMETERS AND ACCESSORIES



3600S
3640S

TYPE 3600S KNOBPOT POTENTIOMETER

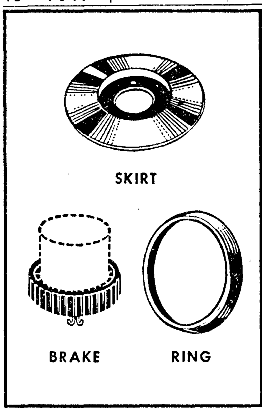
Quality potentiometer embodying new, precision concepts. 10-turn unit; has readout dial with small hand that indicates number of completed turns, and large hand that cycles once every turn. Clock face has excellent readability with settings repeatable within a 0.1% voltage ratio. Phasing of readout to pot is ±0.5%. Requires virtually no back-of-panel space—only bushing and terminals are located behind panel. Front panel space required is only 3/4" dia. by 1" deep. Unit uses only two holes for mounting; 13/32" hole for bushing and 5/64" hole for locking pin. Power ratings: 1½ watts @ 25°C and 3/4 watt @ 75°C. Constructed for reliability, long mechanical life and excellent stability even under conditions of vibration and shock. Meets MIL-STD-202B specs for humidity, dielectric strength, etc.

Stock No.	Mfr's Type	Values Available—Specify Values Wanted	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
46 D 7065 C	3600S	100,200,500,1000,2000,5000,10K,20K,50K,100K ohms	20.52	19.00	17.10	16.23
46 D 7081 C	3600S	150K, 200K, 250K	30.24	28.00	25.20	23.91

TYPE 3640S KNOBPOT SENIOR POTENTIOMETER

Extremely accurate controls consisting of 10-turn potentiometer, knob and readout dial in one small package requiring little front-panel space. Clock face readout provides excellent readability and setting accuracy. Repeatability within ±0.05% voltage ratio. Dial accuracy (including linearity) ±0.20% from 100-200; ±0.15%, 500-2K and ±0.10%, 5K to 200K. Resistance tol. ±3%. Rotation, 3600°. 1000-megohm insulation resistance at 500 VDC. Ambient temperature range is —65° C to +125° C. Power ratings, 2½ watts at 25° C and 1½ watts at 65° C. Construction features include: Silverweld® multi-wire terminations; 100% contact pressure control; self-locking for excellent stability during vibration and shock. Size: 1¼" diameter, by 1½" long. Only bushing and lugs are behind panel. Requires a 13/32" hole for bushing, 5/64" for locking pin. Hook terminals. Meet MIL-STD-202B specifications for humidity and dielectric strength. Also meet applicable military specifications for vibration and shock, load life, etc.

Stock No.	Mfr's Type	Values Available—Specify Values Wanted	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
46 D 7633 C	3640S	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 250K	20.52	19.00	17.10	16.23
46 D 7641	3640S	500K only	30.24	28.00	25.20	23.91



ACCESSORIES FOR 3600S KNOBPOT

H-93 Color Snap-Rings. Provide color-coding or style for 3600S Knobpot. Durable, high temperature plastic. **Available in red, yellow, blue, green or white—specify choice.**
46 D 7087 C. 1-24.....Each .35
25-99.................Each .30

H-103 Brake. For use with 3600S Knobpot listed above. Locks control setting. Snaps on easily—prevents control from slipping or shifting out of adjustment.
46 D 7089. 1-24.....Each 1.25
25-99................Each 1.07

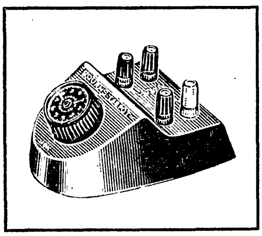
H-95 Skirt. For use with 3600S Knobpot listed above. Highly polished, stainless steel skirt lends highly attractive appearance to assembly. 1½" diameter.
46 D 7088. 1-24......Each 1.50
25-99................Each 1.25

ACCESSORIES FOR 3640S KNOBPOT

H-99 Color Snap-Rings. Provide color coding or higher style for the 3640S Knobpot. Durable, high temperature plastic. **Available in red, yellow, blue, green or white—specify choice when ordering.**
46 D 7650 C. 1-24.....Each .35
25-99.................Each .30

H-97 Brake. For use with 3640S Knobpot potentiometers listed above. Locks control setting in any desired position. Easy to install—prevents control setting from slipping or shifting out of adjustment.
46 D 7737. 1-24 ....Each 1.25
25-99................Each 1.07

H-98 Skirt. For use with 3640S Knobpot listed above. Highly polished stainless steel. Imparts an attractive modern appearance to panel. Mounts securely through bushing and locking pin. 2½" diameter.
46 D 7649. 1-24......Each 1.50
25-99................Each 1.25



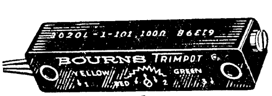
TYPE 3660B LABPOT POTENTIOMETER

- For Setting of Precise Voltages or Reading of Required Voltages
- Easily-Readable Clock Face
- High Accuracy and Repeatability
- 5-Way Binding Posts, Durable Construction, Fuse Protection

Precision potentiometer for developmental, testing and school laboratories. For rapid setting of precise voltages, or reading of the required voltages to achieve null in a bridge circuit. Useful for introduction of known resistance values into a circuit. Clock face has excellent readability. ±1% resistance tolerance. Settings repeatable to ±.05% voltage ratio. Dial accuracy 0.15% for 1000-ohm unit, 0.10% for 10K and 100K units. Minimum resistances: 100-ohm unit, 5 ohms; 1000-ohm, 7 ohms; 10K, 62 ohms; and 100K, 820 ohms. Power rating; 2.5 watts at room temperature. Ambient temperature range, —65°C to +85°C. High temperature, heavy-duty plastic case has weighted base-plate with cork covering. Large 5-way binding posts for easy hook-ups. Wiper circuit fused for protection—extra fuse is provided. Size, 4⅝x3½x2 11/32".

Stock No.	Mfr's Type	Values Available—Specify Values Wanted	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
46 D 7634 C	3660B	100, 1K, 10K, 100K	42.20	40.00	36.00	34.16

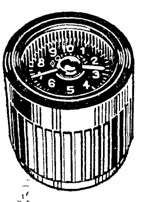
3020L 5-WATT WIREWOUND TRIMPOT® POTENTIOMETERS



Conventional-size pot. Rated 5 watts at 25°C. 3.75 w. at 70°C, 2w. at 130°C. Meets MIL-R-27208A for moisture, vibration, shock, load life. Strain-resistant mandrel. Silverweld® wire terminations. Tol., ±5%. Resolution: 1.36% to 0.19%, 100 ohms to 50K respectively. 25-turn mechanical adjust. 3 Teflon-insulated leads. 21/64x¼x1¼".

Stock No.	Stock Values (Specify)	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7189 C	100, 200, 500, 1000 2000, 5000, 10K	14.04	13.00	11.70	11.10	10.40	9.88
46 D 7190 C	20K and 25K	15.66	14.50	13.05	12.38	11.60	11.02
46 D 7191	50K only	16.20	15.00	13.50	12.81	12.00	11.40

NEW TURNS COUNTING DIALS



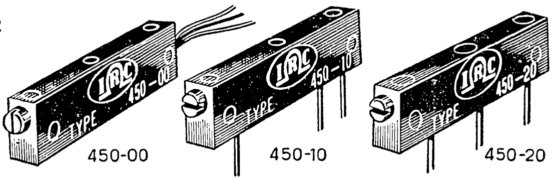
10 turns for extreme accuracy in setting precision potentiometers. Type H-351-1 fits 3/32" diameter shafts, H-351-2 fits ⅛" diameter shafts. Easy to read clock face, with .05" high silver numerals on black background. Can be set 1 part in 1000 for precise, accurate readings. Simplified mounting, no special panel holes necessary. Knob attaches directly to shaft, eliminating backlash. Temperature range, —65° to +125° C. Dials are ½" dia. by 23/32" long. Color code rings for easy identification.

Snap-on color code rings. (Colors meet Federal STD-595). **Available in red, yellow, blue, green, and white. When ordering state Stock No., Mfr's Type (H 355) and color choice.**

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-99
46 D 7730	H 351-1	Dial for 3/32" shaft	8.00	7.60	7.20
46 D 7731	H 351-2	Dial for ⅛" shaft	8.00	7.60	7.20
46 D 7732	H 353	Adapter for extender	.50	.48	.45
46 D 7733 C	H 355	Color Rings (above)	.35	.35	.30

IRC Potentiometers

450 METAL-GLAZE TRIMMER POTENTIOMETER



Types 450-00 450-10 and 450-20. Rectangular infinite resolution trimmer potentiometers with resistive element made of IRC's exclusive metal glaze material. Power rating is ½ watt at 70° C. Meet or exceed all requirements of MIL-R 22097, Size RJ-12. Has 24-turn leadscrew adjustment, humidity-proof construction. Highly reliable, solid resistance element eliminates possibility of catastrophic failure associated with fine wire breakage. Has excellent high frequency characteristics. Insulation resistance 1000 megohms, dielectric strength, 900 volts, 300 working volts, AC or DC. Type 450-00 has three 10″ teflon insulated leads. Type 450-10 and 450-20 have .028″ dia. pins, ½″ long. P. C. pin placement for 450-10 is per RJ-12 MIL style and for 450-20 pins is per RJ-11 MIL style. Mounting holes are .093″ dia. on 1″ centers. 1.250″x.190″x.315″. 2 oz.

Stock No.	Mfr's Type	Res. Tol.	Terminal Style	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 1700 C	450-00	10%	Tef. leads	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 1 meg	5.00	4.50	4.17	3.92	3.75	3.58	3.43
46 D 1701 C	450-10	10%	P.C. pins		5.00	4.50	4.17	3.92	3.75	3.58	3.43
46 D 1725 C	450-00	20%	Tef. leads		4.20	3.77	3.50	3.30	3.15	3.00	2.88
46 D 1726 C	450-10	20%	P.C. pins		4.20	3.77	3.50	3.30	3.15	3.00	2.88
46 D 1727 C	450-20	10%	P.C. pins		5.00	4.50	4.17	3.92	3.75	3.58	3.43
46 D 1728 C	450-20	20%	P.C. pins		4.20	3.77	3.50	3.30	3.15	3.00	2.88

CIRCUITRIM SUBMINIATURE TRIMMER POTENTIOMETERS

201 Series. ½″ square precision miniature wirewound trimmers, power 1 watt at 60° C. RT22C2P (201-10) and RT22C2L (201-00) styles meet all requirements of MIL-R-27208. 25-turn, self-locking, anti-backlash construction provides outstanding settability. Anodized aluminum cases completely sealed with compression-loaded Teflon and epoxy seals. Precious metal alloy contacts. Resistance tolerance, ±5%. Dielectric strength 1000 VRMS. Temperature coefficient ±.007%/° C maximum over operating temperature range of —55° C to +150° C. MIL rating of ¾ watt at 85° C.

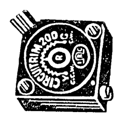
205 Series. Industrial version of 201 Series with plastic case. Replaces former type CT203. Meets steady state humidity test.

251 Series. Infinite resolution metal glaze element. ¾ watt at 70° C. Better hi-frequency characteristics. Contact resistance variation 3% or 20 ohms, whichever is greater. Standard resistance tolerance ±10%. Operating temperature range of —55° C to +150° C. Temperature coefficient ±400 PPM/° C for values under 100K; ±250 PPM/° C, 100K and over. Other specs, same as 201.

201, 205, 251 FLEXIBLE-LEAD MINIATURE TRIMMERS

201-00. Precision trimmer corresponds to MIL Style RT22C2L. Resistance tolerance, ±5%. Three #30 AWG Teflon-insulated leads, 10″ long. Two .093 inch diameter through-holes on .52″ centers for mounting. Screwdriver adjustment screw. Size, ½x½x³⁄₁₆″.

205-00. Plastic cased version of 201-00. Resistance tol., ±5%. Three #30 AWG Teflon-insulated leads, 10″ long. Two .093 inch diameter through-holes on .52″ centers for mounting. Screwdriver adjustment screw. Size, ½x½x³⁄₁₆″.



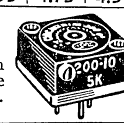
251-00. Precision trimmer with infinite resolution metal glaze element. Superior high-frequency characteristics. Three #30 Teflon-insulated leads, 10″ long. Two .093 inch diameter through-holes on .52″ centers for mounting. Screwdriver adjustment screw. Size, ½x½x³⁄₁₆″. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Resistance Values (Ohms) Specify Values Wanted		EACH 1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 1971 C	201-00	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	Mil Style RT 22C2L 100 ohms thru 20K	5.75	5.30	4.85	4.54	4.31	4.08	3.80
46 D 1972	201-00	20K only		6.35	5.84	5.36	5.02	4.76	4.51	4.19
46 D 1973	201-00	50K only		6.95	6.40	5.87	5.49	5.21	4.94	4.59
46 D 1729 C	205-00	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K		4.75	4.52	4.28	4.05	3.81	3.57	3.33
46 D 1730	205-00	20K only		5.23	4.97	4.71	4.46	4.19	3.93	3.66
46 D 1731	205-00	50K only		5.71	5.42	5.14	4.86	4.57	4.28	4.00
46 D 1705 C	251-00	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1 meg		6.60	5.94	5.50	5.17	4.95	4.73	4.51

201, 205, 251 PRINTED-CIRCUIT POTENTIOMETER MOUNTED FLAT

201-10. Same as MIL Style RT22C2P. Printed circuit pins arranged for mounting on flat side. Pins are located on 0.1 inch radius for mounting in conventional transistor sockets. Thru holes of .073 inch dia. on .520 inch centers for mounting. Screwdriver slot adjustment. Size, ½x½x¼″.

205-10. Plastic cased version of 201-10.

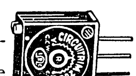


251-10. Precision trimmer with infinite resolution metal glaze element. Pins are located on flat side on 0.1 inch radius for transistor socket mounting. .073 inch dia. mounting holes. ½x½x¼″. 2 oz.

Stock No.	Mfr's Type	Resistance Values (Ohms)		1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 1980 C	201-10	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	Mil Style RT 22C2P	6.40	5.89	5.41	5.06	4.80	4.55	4.22
46 D 1981	201-10	20K only		7.00	6.44	5.92	5.53	5.25	4.97	4.62
46 D 1982	201-10	50K only		7.60	7.00	6.42	6.00	5.70	5.39	5.02
46 D 1732 C	205-10	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K		4.75	4.52	4.28	4.05	3.81	3.57	3.33
46 D 1733	205-10	20K only		5.23	4.97	4.71	4.46	4.19	3.93	3.66
46 D 1734	205-10	50K only		5.71	5.42	5.14	4.86	4.57	4.28	4.00
46 D 1709 C	251-10	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1 meg		7.20	6.48	6.00	5.64	5.40	5.16	4.92

201, 205, 251 PRINTED-CIRCUIT POTENTIOMETER EDGE MOUNTED

201-208. Precision wirewound potentiometer with 201 Series specs described above. Printed circuit pins on end to permit edge mounting. Three ½″ long pins are in-line, 0.1″ apart. 2 mounting holes on .52″ centers. Screwdriver slot adjustment. ½x¹⁷⁄₃₂x³⁄₁₆″.



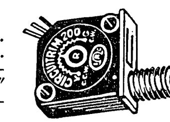
205-208. Industrial version of 201-201. Same pin arrangement and size.

251-208. Trimmer with metal glaze element. Same pin arrangement as 201-208. ½x¹⁷⁄₃₂x³⁄₁₆″. 2 oz.

Stock No.	Mfr's Type	Resistance Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 3742 C	201-208	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	6.40	5.89	5.41	5.06	4.80	4.55	4.22
46 D 3743	201-208	20K only	7.00	6.44	5.92	5.53	5.25	4.97	4.62
46 D 3744	201-208	50K only	7.60	7.00	6.42	6.00	5.70	5.39	5.02
46 D 3745 C	205-208	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	4.75	4.52	4.28	4.05	3.81	3.57	3.33
46 D 3746	205-208	20K only	5.23	4.97	4.71	4.46	4.19	3.93	3.66
46 D 3747	205-208	50K only	5.71	5.42	5.14	4.86	4.57	4.28	4.00
46 D 3748 C	251-208	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1 meg	7.20	6.48	6.00	5.64	5.40	5.16	4.92

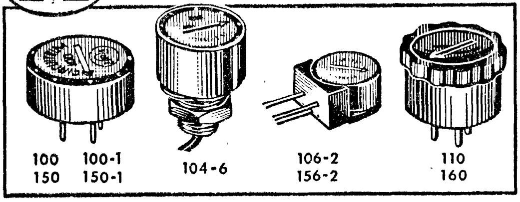
201, 251 PANEL MOUNTED POTENTIOMETER

201 precision wirewound with 201 series specs described above, and 251 metal glaze pots which may be fully utilized where entire circuitry must be vacuum encapsulated and still allow trimmer adjustment from exterior. Encapsulant cannot penetrate trimmer housing or seals. One-piece header and side flange is sealed to case. Occupy a minimal amount of panel space, only .276 by .558 inches, with depth behind panel of .540 inches. Mount by a ¼-inch long, 10-32 bushing. Mounting hardware included. Screwdriver-type slotted shaft for quick adjustment. 10″ long Teflon-insulated leads for standard point-by point wiring. Shpg. wt., 2 oz.



Stock No.	Mfr's Type	Resistance Values (Ohms)	1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 1992 C	201-60	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	6.75	6.21	5.70	5.33	5.06	4.79	4.45
46 D 1993	201-60	20K only	7.35	6.76	6.22	5.81	5.51	5.22	4.85
46 D 1994	201-60	50K only	7.95	7.32	6.72	6.28	5.96	5.65	5.25
46 D 1717 C	251-60	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1 meg	7.60	6.84	6.34	5.95	5.70	5.44	5.20

IRC Precision Trimmers and Potentiometers



Series 100 Wirewound. Direct trimming action for close, fast response. Unaffected by mechanical or thermal shock. Platinum-palladium or gold alloy moving contacts and sliders. Stainless steel, anodized aluminum or nickel-plated brass metal parts. Tol., ±5%; rated 1 watt at 50°C; temp. range, −55°C to +150°C; temp. coeff., ±70ppm/°C; mechanical and electrical rotation, 320°. Meet MIL-R-27208A. Diallyl phthalate moisture-sealed cases meet MIL-STD-202B.

Series 150 and 160 Metal Glaze. As above, but infinite resolution metal glaze element fused on ceramic. Rated ¾ watt at 70°C; resistance tol., ±10%; contact res. variation, 3% or 20 ohms, whichever is greater; temp. range, −55°C to +150°C; temp. coeff., ±400ppm/°C under 50K, ±250ppm/°C 50K and over. Meet MIL-R-22097B.

MODEL 100 AND 100-1 WIREWOUND, 150 AND 150-1 METAL GLAZE ½″ ROUND TRIMMER POTENTIOMETERS

Moisture-sealed diallyl phthalate case, screwdriver-slot rotor. Models 100 and 150 pins are .187″ long for standard PC socket; 100-1 and 150-1 are .300″ long for inserting into PC board and crimping. All pins on .100″ radius. .225″ above board. Wt., 2 oz.

Stock No.	Mfr's Type No.	Terminal Style or Mounting	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499	500-999
46 D 3185 C	100	Tr. Socket	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	3.30	3.00	2.70	2.45	2.30	2.20	2.05
46 D 3186	100	Tr. Socket	20K only	3.90	3.55	3.19	2.89	2.72	2.60	2.42
46 D 3187	100	Tr. Socket	50K only	4.50	4.10	3.68	3.34	3.13	3.00	2.79
46 D 3006 C	100-1	PC	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	3.30	3.00	2.70	2.45	2.30	2.20	2.05
46 D 3007	100-1	PC	20K only	3.90	3.55	3.19	2.89	2.72	2.60	2.42
46 D 3008	100-1	PC	50K only	4.50	4.10	3.68	3.34	3.13	3.00	2.79
46 D 3024 C	150	Tr. Socket	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 1 Meg	4.50	4.05	3.75	3.52	3.38	3.22	3.08
46 D 3025 C	150-1	PC	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 1 Meg	4.50	4.05	3.75	3.52	3.38	3.22	3.08

MODEL 104-6 WIREWOUND BUSHING-MOUNTED TRIMMER POTENTIOMETER

Subminiature—extends only 5/16″ beyond mounting panel. Nickeled brass housing. Has ¼″-32 by ⅜″ long threaded bushing with hex nut. Screwdriver slot adjustment on cover top. Includes three 10″ No. 30 teflon-insulated leads for point-to-point wiring. Wt., 2 oz.

46 D 3015 C	104-6	Tef. leads	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	4.55	4.10	3.79	3.56	3.41	3.25	3.12
46 D 3016	104-6	Tef. leads	20K only	5.15	4.64	4.30	4.04	3.86	3.68	3.53
46 D 3017	104-6	Tef. leads	50K only	5.75	5.17	4.80	4.50	4.31	4.11	3.94

MODEL 106-2 WIREWOUND AND 156-2 METAL GLAZE VERTICAL-MOUNT P.C. PIN TRIMMER POTENTIOMETERS

Similar to Models 100 and 150. For printed circuit applications where boards are stacked and adjustment from edge of board is required. Size, 9/16x½x5/16″ deep when mounted. Gold-plated pins, .020″ diameter on .100″ spacing. Screwdriver-slot adjustment. Wt., 2 oz.

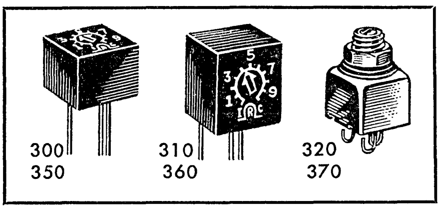
46 D 3018 C	106-2	PC	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	3.80	3.42	3.17	2.98	2.85	2.72	2.60
46 D 3019	106-2	PC	20K only	4.40	3.96	3.67	3.45	3.30	3.15	3.01
46 D 3020	106-2	PC	50K only	5.00	4.50	4.17	3.92	3.75	3.52	3.43
46 D 3026 C	156-2	PC	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 1 Meg	5.00	4.50	4.17	3.92	3.75	3.52	3.43

MODEL 110 WIREWOUND AND 160 METAL GLAZE FINGERTIP-ADJUST TRIMMER POTENTIOMETERS

Same as Models 100 and 150 except have round 9/16″ knurled knob rotor in addition to screwdriver-slot adjustment. Wt., 2 oz.

46 D 3000 C	110	PC	10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10K	3.50	3.18	2.86	2.60	2.30	2.20	2.05
46 D 3001	110	PC	20K only	4.10	3.73	3.35	3.04	2.72	2.60	2.42
46 D 3002	110	PC	50K only	4.70	4.28	3.84	3.49	3.13	3.00	2.79
46 D 3027 C	160	PC	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, 500K, 1 Meg	4.70	4.23	3.92	3.68	3.52	3.36	3.22

300, 310 AND 320 WIREWOUND; 350, 360 AND 370 METAL GLAZE SUBMINIATURE TRIMMING POTENTIOMETERS

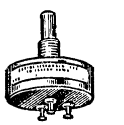


Models 300, 310. Single-turn, slotted rotor printed circuit controls with direct slider response. Sealed construction; positive stops. Electrical angle, 280°C; rotation, 300°; temp. range, −55°C to +150°C; rated .6 watts at 60°C. Tolerance, ±10%. .016″ pins on 0.1″ grid. 300 has top screwdriver adjust; 5/16″ square by 15/64″ high. 310, side adjust; 19/64″ square by 11/32″ high. **Model 320.** Like above, but panel mount. Rated 1 watt at 60°C. .017″ dia. dumet leads spaced .1″. 10-32 bushing, ¼″ long with screwdriver slot. ⅜″ square by ⅝″ long. **All meet applicable environmental specs of MIL-R-27208A.** Shpg. wt., 2 oz.

Models 350, 360 and 370. As above, but with infinite resistance metal glaze element. Rated 0.3 watt at 70° C. Resistance tol., ±10%; contact res. variation, 3% or 20 ohms, whichever is greater. Temp. range, −55°C to +125°C. Temp. coefficient, ±400 ppm/°C max. **Meets MIL-R-22097.** Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Screwdriver Adjust	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499	500-999
45 D 7158 C	300	Top	50, 100, 200, 500, 1000, 2000, 5000	3.80	3.42	3.17	2.98	2.85	2.72	2.60
45 D 7159	300	Top	10K only	4.80	4.32	4.00	3.76	3.60	3.43	3.28
45 D 7160	300	Top	20K only	5.80	5.21	4.83	4.54	4.35	4.15	3.97
45 D 7161 C	310	Side	50, 100, 200, 500, 1000, 2000, 5000	3.95	3.56	3.29	3.10	2.96	2.83	2.70
45 D 7162	310	Side	10K only	4.95	4.45	4.12	3.88	3.71	3.55	3.38
45 D 7163	310	Side	20K only	5.95	5.36	4.95	4.67	4.47	4.27	4.07
46 D 3028 C	320	Shaft	50, 100, 200, 500, 1000, 2000, 5000	6.35	5.72	5.30	4.98	4.76	4.54	4.35
46 D 3029	320	Shaft	10K only	7.35	6.62	6.13	5.76	5.51	5.26	5.03
46 D 3030	320	Shaft	20K only	8.35	7.52	6.96	6.55	6.26	5.97	5.72
46 D 1738 C	350	Top	50, 100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 200K, and 500K	4.50	4.05	3.75	3.52	3.38	3.22	3.08
46 D 1739 C	360	Side		4.65	4.18	3.88	3.65	3.49	3.32	3.18
46 D 1740 C	370	Shaft		7.00	6.30	5.83	5.50	5.25	5.00	4.79

TYPE 151 SINGLE-TURN METAL-CASED ROTARY TRIMMING POTENTIOMETER



Panel mount, rated 3½ watts at 40°C. Nickel-plated brass case, 1½″ dia. by ½″ deep; 7/32″ terminals. ¼″ dia. stainless steel shaft with clear passivation extends ½″ beyond ⅜″-32 by ½″ bushing. Resistance tolerance ±5%. Linearity, ±0.5%. −55°C to +125°C. Meet MIL-R-27208A. **Continuous rotation—stops available on Special Order.** Wt., 5 oz.

Stock No.	Type	Specify Resistance Value (Ohms)	1-9 EA.	10-24 EA.	25-99 EA.	100-199 EA.	200-499 EA.
46 D 7550 C	151	100, 500, 1000, 2500, 5000, 10K, 25K	8.75	8.31	7.88	7.44	7.00

Specify Mfr's Type Number and Resistance Value When Ordering Controls

Precision Potentiometers and Dials

TYPE 7300 COMMERCIAL/INDUSTRIAL ¾″ MULTI-TURN PRECISION POTENTIOMETER

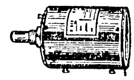
10-turn wirewound type rated 2 watts at 40°C. Only 1½″ long by ¾″ dia., plus 15⁄64″ terminals behind panel. ¼″ by ½″ long screwdriver slotted shaft; ⅜″-32 by 5⁄16″ long bushing. Nickel-plated brass. Black mirror-finish phenolic case. Precision-drawn alloy wire wound on copper mandrel. Resistance tolerance, ±5%; linearity, ±.5% (100 to 2K ohms), ±.25% (5K ohms and up). Temperature range, —55°C to +85°C. Stop mechanism independent of internal electrical elements. Shpg. wt., 4 oz.

Stock No.	Type	Specify Resistance Value (Ohms)	1-9 EA.	10-24 EA.	25-99 EA.	100-499 EA.
46 D 3031 C	7300	100, 200, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K	7.50	6.50	6.00	5.50

LABORATORY AND INSTRUMENT POTENTIOMETERS (Operating Temp. —55° C to 100° C.) Power rating based on 40° C ambient.

Type HD-150. Highly stable, critical adjustment control meets requirements of industrial, military and computer instrumentation. 10-turn, 5-watt controls featuring high resolution and availability in high precision linearity up to ±0.1%. Resistance tolerance ±3%. Patented metal-to-metal stop system with mtg. bushing prevents damage if excessive force is applied against stops. Case is 1½″ dia. x 2″ long; ¼″ dia. brass shaft ½″ long beyond ⅜″-32x5⁄16″ long bushing. Shpg. wt., 4 oz.

Stock No.	Linearity	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7530 C	±0.25%	500, 1000, 2000, 5000, 10K, 20K, 30K, 50K, 100K, 200K	10.00	9.50	9.00	8.50	8.00	7.50
46 D 7531 C	±0.1%	1000, 2000, 5000, 10K, 20K, 30K, 50K, 100K, 200K	12.00	11.40	10.80	10.20	9.60	9.00



HD-150

⅞″ DIAMETER MOISTURE-SEALED POTENTIOMETERS (Operating Temp. -55°C to 125°C.) Power rating based on 40° C ambient.

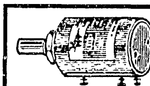
Types 8000 and 8100. 10-turn controls with 3-watt power rating in a compact design. Epoxy sealed front and rear headers and special shaft seal assure max. moisture resistance and prevent wire oxidation. Op. temp., —55°C to +125°C. Resistance values 500 and above have tol. ±3%, linearity ±.2% and temp. coeff. ±.002% max. 25Ω values are ±5%, linearity ±.5% with temp. coeff. of .13%/°C. 100Ω values are ±5%, linearity ±.5% with temp. coeff. .05%/°C. 1¼x⅞″ dia.

TYPE 8000

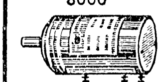
Precision ground, ¼″ diameter stainless steel shaft. Shaft extends ½″ beyond ⅜″-32 threaded mounting bushing. Bushing is nickel-plated brass, 5⁄16″ long. Maximum starting and running torque is 2 oz. in. Turret terminals, welded terminations.

TYPE 8100

Precision ground stainless steel ⅛″ dia. shaft extends ⅜″ beyond ¼″-32 threaded mounting bushing. Bushing is nickel-plated brass, 5⁄16″ long. Maximum starting and running torque is 2 oz. in. Turret terminals, welded terminations. Av. shpg. wt., 4 oz.



8000



8100

Stock No.	Mfr's Type	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7527 C	8000	25, 100, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 125K	10.00	9.50	9.00	8.50	8.00	7.50
46 D 7528 C	8100	25, 100, 500, 1000, 2000, 5000, 10K, 20K, 50K, 100K, 125K	10.75	10.21	9.68	9.14	8.60	8.06

METAL-CASED POTENTIOMETERS (Operating Temp. —55°C to 125°C.) Power rating based on 40° C ambient.

Types 5000, 7500 and 1000. Extraordinarily rugged, metal encased 10-turn controls designed specifically for use in airborne and mobile equipment that is subject to extreme shock and vibration. Feature one-piece bushing and front header of nickel plated brass with moisture and dust-resistant bonding of case to headers. Shaft is moisture sealed by means of an "O" ring. Patented stop system prevents damage at ends of travel of contactor Gold-plated turret terminals assure high reliability, excellent conductivity, and ease of soldering. Maximum starting and running torque is 2 oz. in. Shpg. wt., 4 oz.

TYPE 5000

10-turn potentiometer with 1½-watt power rating. ½″ dia. by 11-5⁄32″ long. Res. tol. ±5%, linearity, ±0.5%. ¼″ shaft extends ½″ beyond ⅜-32x½″ bushing.

TYPE 7500

10-turn potentiometer with 3-watt power rating. ¾″ dia. by 121⁄32″ long. Resistance tolerance ±5%. ¼″ dia. shaft extending ½″ beyond ⅜″-32 bushing. ½″ bushing.

TYPE 1000

10-turn potentiometer with 3-watt power rating. 1″ diameter by 111⁄32″ long. Resistance tolerance is ±5% and linearity is ±.5%. Has ¼″ dia. shaft extending ½″ beyond ⅜″-32 bushing. Bushing is ½″ long.

5000

7500

1000

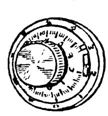
Stock No.	Mfr's Type	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7635 C	5000	100, 500, 1000, 5000, 10K, 25K, 50K	10.00	9.50	9.00	8.50	8.00	7.50

Stock No.	Mfr's Type	Resistance Values (Ohms) Specify Values Wanted	EACH 1-9	10-24	25-99	100-199	200-499
46 D 7630 C	7500	100, 250, 500, 1000, 5000, 10K, 25K, 50K, 100K	12.50	11.88	11.25	10.63	10.00
46 D 7625 C	1000	500, 1000, 2500, 5000, 10K, 25K, 50K, 100K, 200K	12.50	11.88	11.25	10.63	10.00

REVODEX DIALS FOR PRECISION POTENTIOMETERS

SERIES 400

1″ dia. turn-counting dial for controls with shafts of ⅛″ or ¼″ diameter. Optional brake system allows positive locking without dial shift. Body mounts on panel; knob attaches to shaft extension up to .8″ from panel. Calibrated 000-999. Anodized aluminum. 3 oz.



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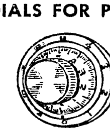
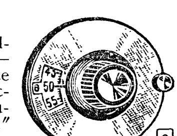


B

SERIES RD-1 AND RD-6

1⅞″ dials with numbers grouped for easy reading. Calibrated 000-999. With zero backlash—locks without shift of dial setting. Mtg. plate fastens to pot mtg. nut; knob fastens with set-screw to pot shaft. Black or clear anodized aluminum finish. Use on ¼″ dia. shafts up to 1″ long from front of panel. Av. shpg. wt., 3 oz.

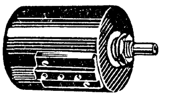


C

Stock No.	Mfr's Type With Brake	Mfr's Type Without Brake	Fig.	Fits Shaft	Finish	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 7551	RD-1	. . .	C	¼″	Black	5.75	5.46	5.18	4.89	4.60	4.31
46 D 7552	RD-6	. . .	C	¼″	Clear	5.75	5.46	5.18	4.89	4.60	4.31
46 D 7541	. . .	RD-411	B	¼″	Black	7.65	7.27	6.89	6.89	6.50	6.12
46 D 7542	RD-412	. . .	A	¼″	Black	8.25	7.84	7.43	7.43	7.01	6.60
46 D 7543	. . .	RD-421	B	⅛″	Black	7.65	7.27	6.89	6.89	6.50	6.12
46 D 7544	RD-422	.	A	⅛″	Black	8.25	7.84	7.43	7.43	7.01	6.60
46 D 7546	. .	RD-461	B	¼″	Clear	7.65	7.27	6.89	6.89	6.50	6.12
46 D 7547	RD-462		A	¼″	Clear	8.25	7.84	7.43	7.43	7.01	6.60
46 D 7548		RD-471	B	⅛″	Clear	7.65	7.27	6.89	6.89	6.50	6.12
46 D 7549	RD-472		A	⅛″	Clear	8.25	7.84	7.43	7.43	7.01	6.60

Specify Mfr's Type and Resistance Value When Ordering Controls

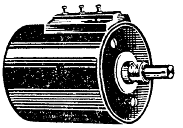
"MICROPOTS" AND "MICRODIALS"



Model 2201B "Micropots." Ten-turn, precision potentiometer. Independent linearity ±0.25%; resistance tolerance ±3%, except †±0.5% and ±5%, respectively. Torque is not over 2 in.-oz. running, 3 in.-oz. starting. 10 in.-lb. stop strength. Av. life, 5 million revs. Body, 2⅛x1^{13}⁄$_{16}$" dia. Shpg. wt., 7 oz.

Stock	Ohms	Stock No.	Ohms
46 D 7123	†25	46 D 7128	5000
46 D 7124	†50	46 D 7129	10K
46 D 7125	100	46 D 7130	20K
46 D 7126	500	46 D 7131	50K
46 D 7127	1000	46 D 7132	100K

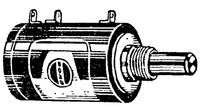
1-9................Each **10.00** 10-24............Each **9.50**
25-49....Each **9.00** 50-99....Each **8.50** 100-199....Each **8.00**



Model 2251B "Micropots". 1^{13}⁄$_{16}$" dia., 10-turn, precision potentiometer. Independent linearity, ±0.25%, except *±0.5%. Standard resistance tol., ±3%, except † ±5%. Torque not over 1 in.-oz. running, 3 in.-oz. starting. 10 in.-lb. stop strength. Av. life, 5 million revs. Length, 2⅛".7 oz.

46 D 3500	*†25	46 D 3505	5000
46 D 3501	*†50	46 D 3506	10K
46 D 3502	100	46 D 3507	20K
46 D 3503	500	46 D 3508	50K
46 D 3504	1000	46 D 3509	100K

1-9............Each **10.00** 10-24...................Each **9.50**
25-49......Each **9.00** 50-99......Each **8.50** 100-199..Each **8.00**

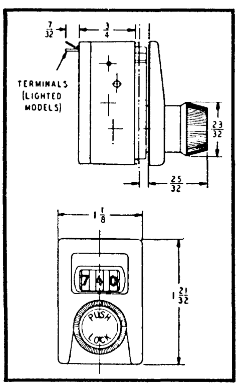


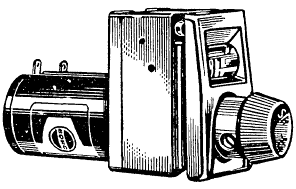
Model 2151B "Micropots". ⅞" dia., 10-turn precision potentiometer. Resistance element inside bakelite case; unusually long for superior resolution. Spring tension eliminates backlash. Silver braised termination for low end resistance. Non-twisting, gold-plated terminals. ¼" shaft-bushing mount. ±0.25% independent linearity, 3 watts @ 40°C, —55° to 105°C. Rot. life, 2,000,000 revs. Total res. tol., ±5%. Stop strength, 8 in.-lbs. Length 1.455". Shpg. wt., 7 oz.

Stock No.	Ohms	% Resolution	Stock No.	Ohms	% Resolution
46 D 3510	100	.054	46 D 3515	20K	.017
46 D 3511	500	.036	46 D 3516	30K	.015
46 D 3512	1000	.031	46 D 3517	50K	.011
46 D 3513	5000	.019	46 D 3518	100K	.0088
46 D 3514	10K	.017	....	......	....

1-9............Each **10.00** 10-24...................Each **9.50**
25-49....Each **9.00** 50-99....Each **8.50** 100-249......Each **8.00**

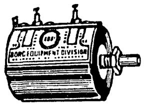
3100 SERIES MINIATURE MICRODIAL





New, 10-turn direct-reading, miniature digital readout. Convex lens provides clear reading at distances of up to 6 feet or more. Reads 000 to 999. Dial is extremely precise; indexing accuracy is 1 part in 1000. Push knob in to apply brake, out to release. Can be used with any ⅞" to 1" 10-turn potentiometer, or can be used as a panel indicator for quick, accurate readout. Rotation: continuous in either direction. Count: 10 turns maximum 100, increments to the turn. One count equals 0.1% of 10 turns, or applied voltage if used with 10-turn potentiometer. Natural brush aluminum finish. Mounts in 1x1½" hole. Accommodates panel thicknesses from 1⁄16" to 3⁄16". Overall size. 1^{21}⁄$_{32}$x1⅛". (HxW). Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Shaft Dia.	Light	EACH 1-9	EACH 10-24	EACH 25-99
46 D 3519	3121	⅛"	None	10.00	9.50	9.00
46 D 3520	3141	¼"	None	10.00	9.50	9.00
46 D 3521	3141-2	¼"	White	11.75	11.15	10.60



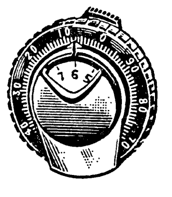
Model 205 "Micropots". 10-turn linear pots—resistance proportional to shaft rotation. 0.1% zero-based linearity. Resistance tolerance, ±3% except * ±10%. Power rating, 5 watts @ 40°C. Size 2⅛x1¾" dia. with ¼x⅜" bushing. All have ¼" dia. shaft. Shpg. wt., 7 oz.

Stock No.	Ohms	Stock No.	Ohms	Stock No.	Ohms
46 D 3467	*25	46 D 3682	1000	46 D 3686	50K
46 D 3677	50	46 D 3683	5000	46 D 3687	100K
46 D 3680	100	46 D 3684	10K	....	....
46 D 3681	500	46 D 3685	20K	....	....

1-9.................Each **16.86** 10-24............Each **15.81**
25-99..............Each **14.75** 100-199..........Each **14.05**

Model 205 Infinite Resolution "Micropots." 10-turn linear "Micropot" with all the same features as above. but is infinite resolution type with one continuous slide wire for continuously increasing resistance. Resistance tolerance, ±10%. Shpg. wt., 7 oz.

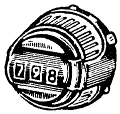
Stock No.	Ohms	1-9, EA.	10-24, EA.	25-99, EA.	100-199, EA.
46 D 3468	1.15	16.86	15.81	14.75	14.05
46 D 3469	2.9	16.86	15.81	14.75	14.05



Series 1360 Ten-Turn Concentric-Scale "Microdials." Dials for "Micropots". Like 1320 and 1327 below, but molded plastic and multi-colored. All have white turns-dial with black numberals. Dia. 1¾". depth 1". 4 oz.

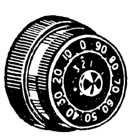
Type	Large Dial	Cover
1361	Dark gray; white numerals	Dark gray
1362	Light gray; black numerals	Light gray
1363	Black; white numerals	Red
1364	Dark gray; white numerals	Red
1365	Light gray; black numerals	Red

Stock No.	Mfr's Type	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-999
46 D 3473	1361	5.82	5.46	5.09	4.85
46 D 3474	1362	5.82	5.46	5.09	4.85
46 D 3475	1363	5.82	5.46	5.09	4.85
46 D 3476	1364	5.82	5.46	5.09	4.85
46 D 3477	1365	5.82	5.46	5.09	4.85



Series 1300 Direct-Reading "Microdials." In-line, digital-type dials for "Micropots" and other rotary devices. Large, easy-to-read numerals. Indexed accuracy is 1 part in 1000. For use with panels up to 3⁄16" thick. 3-digit types are 1^{21}⁄$_{32}$x1^{13}⁄$_{16}$" dia.; 4-digit types are 1⅝x2^{1}⁄$_{16}$" dia. Knurled aluminum control knobs. Dust sealed. Types marked with * include fingertip brake. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Digits	Turns	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99	EACH 100-249
46 D 3472	*1309	3	10	14.00	13.30	12.60	11.55	10.80
46 D 3499	1310	3	10	13.00	12.35	11.70	10.75	10.10
46 D 7133	1304	4	100	18.00	17.10	16.20	14.85	13.95
46 D 7134	*1314	4	100	19.50	18.53	17.55	16.10	15.10



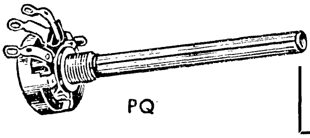
Type 3041-2 Ten-Turn Concentric-Scale Miniature "Microdial". For use with any of the "Micropots" on this page. Measures only 1^{5}⁄$_{32}$" in diameter; has ^{15}⁄$_{16}$" projection from panel. 10-division dial counts turns; 100-division dial registers increments of each turn. Includes brake. Numerals are white on black background; brake knob is black. Can be used on panels with from 1⁄16" to ⅛" thickness. Dial face is angled to avoid direct reflections; readings are extremely easy to make. Accommodates ¼" diameter shafts. All materials except set screw are non-magnetic and corrosion-resistant. Sealed dust-tight with O-ring. 4 oz.

46 D 7136. 1-9......Each **7.75** 10-24................Each **7.30**
25-99...............Each **6.95** 100-199..............Each **6.55**

Series 1320 Ten-Turn Concentric-Scale "Microdials". Mounts on "Micropots". Two concentric dials—one counts turns, other indicates part of a turn on scale from 1 to 100. Indexed accuracy 0.1%. Built-in fingertip brake. Type 1320 has chrome cover and dials; Type 1327 is black. Mounts rigidly—no backlash. Dia., 1¾" and 1^{3}⁄$_{16}$" deep. 4 oz.

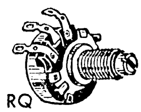
Stock No.	Mfr's Type	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-199
46 D 3696	1320	5.82	5.46	5.09	4.85
46 D 3697	1327	5.82	5.46	5.09	4.85

IRC-CTS Controls and Control Switches

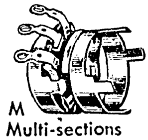


PQ

INDUSTRIAL CONTROLS



RQ
RQL



M
Multi-sections

EXPLANATION OF TAPERS

Taper A. Linear for uniform change of resistance.

Taper C. Logarithmic for audio circuit or antenna shunt control.

TYPE PQ, RQ, RQL CONTROLS AND TYPE M MULTISECTIONS

These versatile controls have a smooth carbon base element and "two-finger" wiper arm of thin, high-stress alloy—assures good contact and low noise. Type M multisections can easily be added to PQ, RQ or RQL types; permit exact "tailoring" of dual, triple and quadruple units. Special-purpose controls can be made up by using a Type PQ, RQ or RQL with several M multisections and a Type 76 switch (listed at right). Types PQ, RQ and RQL have 3/8" threaded bushing. Body diameter less terminals is 15/16" maximum; body diameter including terminals is 1 5/16" maximum; depth behind panel, 33/64". Each Type M multisection adds 19/32" to the depth. Type PQ, RQ, RQL and M sections feature 300 degree arc of rotation—with or without switch. Power rating is 1/2 watt, 500 volt maximum. PQ types have shaft 3" long, 1/4" diameter. RQ and RQL types have short shaft with screwdriver slot; shaft extends 1/8" beyond threaded bushing. Types RQ and RQL are identical except RQL has split bushing and locking nut—for permanent, vibration-proof settings. Tolerance of all types is ±10%. Tinned terminals. Ground plate on Types PQ, RQ and RQL has 2 locating tabs that may be bent down if not needed. See Explanation of Tapers at top right. 4 oz.

Mfr's Type	Ohms	Taper	Stock No. PQ	Stock No. RQ	Stock No. RQL	Stock No. M
11-103	500	A	46 D 5510	46 D 5542	46 D 3271	46 D 5592
11-108	1000	A	46 D 5511	46 D 5543	46 D 3272	46 D 5574
11-110	2000	A	46 D 5512	46 D 5544	46 D 3273	46 D 5593
11-112	3000	A	46 D 5513	46 D 5545	...	...
11-114	5000	A	46 D 5514	46 D 5546	46 D 3275	46 D 5575
11-115	7500	A	46 D 5515	...	...	...
11-116	10K	A	46 D 5516	46 D 5548	46 D 3276	46 D 5576
13-116	10K	C	46 D 5517	...	...	...
11-119	20K	A	46 D 5519	...	46 D 3277	...
11-120	25K	A	46 D 5520	...	46 D 3278	46 D 5577
11-123	50K	A	46 D 5523	46 D 5555	46 D 3280	46 D 5578
13-123	50K	C	46 D 5524	...	...	...
11-128	100K	A	46 D 5526	46 D 5558	46 D 3282	46 D 5579
13-128	100K	C	46 D 5527	...	...	46 D 5580
11-129	200K	A	...	...	46 D 3283	...
11-130	250K	A	46 D 5528	46 D 5560	46 D 3284	46 D 5581
13-130	250K	C	46 D 5529	...	...	...
11-133	500K	A	46 D 5530	46 D 5562	46 D 3286	46 D 5583
13-133	500K	C	46 D 5531	46 D 5563	46 D 3287	46 D 5584
11-137	1.0 meg	A	46 D 5532	46 D 5564	46 D 3288	46 D 5585
13-137	1.0 meg	C	46 D 5533	...	46 D 3289	...
11-139	2.0 meg	A	46 D 5535	...	46 D 3291	...
11-140	3.0 meg	A	46 D 5538	46 D 5570	...	...
13-140	3.0 meg	C	46 D 5539	...	...	46 D 5594
11-141	5.0 meg	A	46 D 5540	46 D 5572	...	...
11-143	10.0 meg	A	46 D 5541	46 D 5573	...	46 D 5590

PQ and RQ Controls........................Each 1.44
M Multisections........................Each 1.35
RQL Controls........................Each 1.56

TYPE WM 4-WATT MULTISECTION "ADD-ON" CONTROLS

Can be easily attached to Type WPK, WPS, WP and WPRL controls (listed at right) to form dual control units. Multisections are ruggedly constructed; rated up to 4 watts; have linear taper for uniform change of resistance. 300° rotation. Multisection adds 5/8" to control depth. Any dual control assembled with multisection unit will accommodate Type 76-11 or 76-12 switches, below. **Specify Type, Ohms.** 2 oz.

Ohms	Ohms	Ohms
50	500	2500
100	1000	5000
200	2000	10K

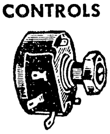
46 D 5860 C..................Each 1.32

SWITCHES FOR WPK, WPS, WP AND WPRL CONTROLS

Easily attached switches for use with Model WPK, WPS, WP and WPRL controls, listed at right. Shpg. wt., 2 oz.

46 D 5218. Type 76-11. SPST......Each .75
46 D 5219. Type 76-12. DPST......Each .75

TYPE WPRL WIRE-WOUND CONTROLS



Selection of controls with screwdriver-slot shafts. Shafts are 1/4" in diameter, approximately 1/2" long from mounting face. With 3/8" locking-type bushing and locking nut. Can be set and locked—ideal for TV set controls that need only infrequent adjustment. All have linear taper. For 2, 3 and 4-watt requirements. **Specify Type and Ohms.** Shpg. wt., 4 oz.

Ohms	Ohms	Ohms	Ohms
2	30	500	4000
5	50	750	5000
8	100	1000	7500
10	200	2000	10K
20	250	2500	...
25	400	3000	...

46 D 5859 C..................Each 1.56

15K	20K	25K	...	...

46 D 5889 C..................Each 1.83

30K	50K	...	...	...

46 D 5890 C..................Each 2.04

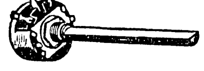
Allied supplies the entire line of IRC-CTS quality components at OEM prices. Write, wire or phone the Allied facility nearest you for prompt information on price and delivery for any type or value not shown or listed in this catalog.

TYPE 76 ATTACHABLE SWITCHES FOR PQ, RQ, RQL AND M CONTROLS

Can be easily attached to controls listed at right by bending down four metal tabs. Switch housings are made of arc-resistant material. Terminals are hydraulically staked—no openings for solder to run into switch. Units have silver-plated alloy contacts. Type 76-4 is make-one, break-one type for CRT spot killing. 76-1 handles up to 5 amps @ 125 v.; 76-2 is rated 1 amp @ 125 v. 2 oz.

46 D 5359. Type 76-1. SPST......Each .60
46 D 5591. Type 76-2. DPST......Each .60
46 D 5888. Type 76-4. SPDT......Each .75

TYPE WPK, WPS AND WP UNIVERSAL 4-WATT WIRE-WOUND CONTROLS



Linear taper, except: type with L after ohms has left-hand log taper for TV focus, types with R have right-hand log taper for picture contrast. 1 1/4" dia., 23/32" deep; threaded bushing is 3/8" dia. and 3/8" long. 1/4" dia. shafts. WP has 3" round shaft. WPK has 3" "Knob Master" shaft—fits variety of knobs. WPS has 3/4" shaft, knurled at end and slotted. WM multisections attach to all controls (listed at left). 10% tolerance. For 2, 3 and 4 watt requirements. **Specify Type and Ohms.** 4 oz.

TYPE WPK CONTROLS WITH 3" "KNOB MASTER" SHAFT

Ohms	Ohms	Ohms	Ohms
10	200	1000	6000
20	250	2000	10K
30	300	2500	...
50	500	3000	...
100	750L	5000	...

46 D 5216 C..................Each 1.32

Ohms	Ohms	Ohms	Ohms
25K	...	...	...

46 D 5199..................Each 1.59

Ohms	Ohms	Ohms	Ohms
50K	...	...	...

46 D 5856..................Each 1.83

TYPE WPS CONTROLS WITH 3/4" KNURLED, SLOTTED SHAFT

Ohms	Ohms	Ohms	Ohms
25	500	2000	5000
250	1000	2500	...

46 D 5217 C..................Each 1.32

TYPE WP CONTROLS WITH 3" ROUND SHAFT

Ohms	Ohms	Ohms	Ohms
2	30	500	3000
3	50	750	5000
5	100	1000	10K
10	200	1500	...
20	250	2000	...
25	400	2500	...

46 D 5215 C..................Each 1.32

Ohms	Ohms	Ohms	Ohms
15K	20K	25K	

46 D 5857 C..................Each 1.59

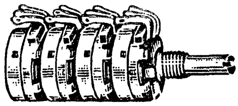
Ohms	Ohms	Ohms	Ohms
50K	...	...	...

46 D 5858..................Each 1.83

IRC-CTS Controls and Control Switches

SERIES 45 ½-WATT CONTROLS

Choice of 12,631,500 Combinations



Select the control you need from a choice of 12,631,500 possible combinations. Available with up to 4 sections—see ordering instructions below. Tolerance, ±20%. Rated ½-watt through 10K, ½-watt through 100K, and ¼-watt over 100K up to a maximum of 500 VDC across end-terminals. Switches rated 3 amps at 125 v., 1 amp at 250 v.; DPST switch also rated 5 amps at 20 v. U.L. Listed. Have ¼"-diameter brass shafts, ⅜-diameter threaded bushings. Size behind panel: single sections, 31/64"; dual sections, 61/64"; triple sections, 1 27/64"; quadruple sections, 1 57/64". Add 33/64" for switch. Av. shpg. wt., 5 oz.

ORDERING INSTRUCTIONS

TO EXPEDITE SERVICE, YOUR ORDER SHOULD INCLUDE BOTH ALLIED'S STOCK NO. AND THE COMPLETE TYPE NO.

TO CONSTRUCT TYPE NO.:

1. Begin with 45 to identify Series 45 controls.
2. Indicate part number of desired value and taper for single control, or first (panel) section of multi-section control, from "A" columns at right.
3. Indicate part numbers of desired values and tapers for second, third and fourth sections of multi-section control, from "B" columns at right—one number for each section. Use only as many part numbers as sections desired. A 3-section control, for example, would have two part numbers from "B" columns, one from "A" columns.
4. Indicate S, for SPST switch, or D, for DPST switch. Omit if no switch is desired.
5. Indicate part number of shaft having desired length and end trim, from "C" column at right.

TO FIND STOCK NO.: See Stock No. chart at right.

EXAMPLES:

Stock No. 46 D 1889 C, Type No. 45 D 501 D 07. This is a Series 45 single control, 500 ohms, linear taper, with DPST switch and 1" flatted shaft.

Stock No. 46 D 1892 C, Type No. 45 A 103 MD 102 MA 205 18 This is a Series 45 triple-section control; 10K log taper first section, 1000-ohm linear taper second section, 2-meg log taper third section; with no switch and a 1" knurled shaft.

TYPE NUMBER SELECTION CHART

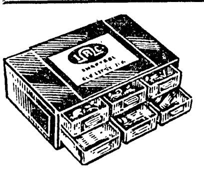
*Screwdriver slot. †Length from mounting surface. Instructions at left describe the use of this chart and the Stock No. chart below in ordering Series 45 controls.

Ohms (First Section)	A: Single Control or First Section — Select One: Log Taper	A: Linear Taper	Ohms (Additional Sections)	B: Second, Third, and Fourth Section — Select One, Two, or Three: Log Taper	B: Linear Taper	C: Shaft No. (Select One)	Shaft Description: Length FMS†	Shaft Description: End Trim
500	....	D501	500	......	MD501	01	½"	*SD Slot
1000	....	D102	1000	......	MD102	02	⅝"	*SD Slot
2000	....	D202	2000	......	MD202	03	¾"	*SD Slot
3000	....	D302	3000	......	MD302	04	⅞"	*SD Slot
5000	....	D502	5000	......	MD502	05	1"	*SD Slot
10K	A103	D103	10K	......	MD103	06	⅞"	Flatted
20K	....	D203	20K	......	......	07	1"	Flatted
25K	....	D253	25K	......	MD253	08	1⅛"	Flatted
50K	A503	D503	50K	......	MD503	09	1¼"	Flatted
100K	A104	D104	100K	MA104	MD104	10	1⅜"	Flatted
200K	....	D204	200K	......	......	11	1½"	Flatted
250K	A254	D254	250K	MA254	MD254	12	1⅝"	Flatted
500K	A504	D504	500K	MA504	MD504	13	1¾"	Flatted
1 Meg.	A105	D105	1 Meg.	MA105	MD105	14	1⅞"	Flatted
2 Meg.	A205	D205	2 Meg.	MA205	MD205	15	2"	Flatted
3 Meg.	A305	....	3 Meg.	......	......	16	2"	Round
5 Meg.	....	D505	5 Meg.	......	MD505	17	3"	Round
10 Meg.	....	D106	10 Meg.	......	MD106	18	1"	Knurled
						19	1¼"	Knurled
						20	1½"	Knurled

STOCK NUMBERS (Include Complete Type No., Above)

Stock No.	Control	Switch	EACH 1-9	10-24	25-49	50-299
46 D 1888 C	Single	None	1.16	.99	.94	.87
46 D 1889 C	Single	SPST or DPST	1.68	1.46	1.37	1.26
46 D 1890 C	Dual	None	2.08	1.77	1.67	1.56
46 D 1891 C	Dual	SPST or DPST	2.60	2.24	2.10	1.95
46 D 1892 C	Triple	None	3.00	2.55	2.40	2.25
46 D 1893 C	Triple	SPST or DPST	3.28	3.02	2.83	2.64
46 D 1894 C	Quadruple	None	3.92	3.33	3.13	2.94
46 D 1895 C	Quadruple	SPST or DPST	4.20	3.80	3.56	3.33

LABORATORY KITS OF SERIES 45 CONTROLS



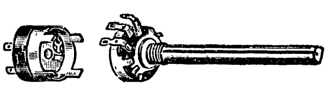
Type ELS-2 Controls Kit. Meet all your control needs, from single-section, no-switch to quadruple section, with switch, plus 20 shaft-styles. Over 12,631,500 different control combinations can be constructed with this single, complete kit. Resistance coverage includes 18 of the most-often-used ranges from 500 ohms to 10 megs (see "Type Number Selection Chart" above, right). Two compact, gray metal cabinets stack or hang. 24 transparent plastic spill-proof drawers with labels and separators 102 CTS-IRC single and multiple-section controls, 64 shafts, 20 switches, 44 dust covers, and 2 metal cabinets. Cabinets are 13x20x6" deep. Shpg. wt., 16¼ lbs.

45 D 6793..**99.50**

Type ELS-1 Controls Kit. Similar to lab kit above, but with a single cabinet and stock of 42 CTS-IRC single controls, 41 shafts, 12 switches, 42 dust covers. Cabinet is 6½x10x6"; has 12 transparent spill-proof plastic drawers. Shpg. wt., 7¼ lbs.

45 D 6794..**49.95**

Q CONTROLS WITH UNIVERSAL SHAFTS



Have 3" shafts—knurled, flatted and slotted. Body diameter is 15/16". Bushing is ¼" long. Less switches (at right). Explanation of tapers is as follows: **Taper A is linear for uniform resistance change; Taper C is logarithmic for audio application.** Shpg. wt., 4 oz.

Stk. No.	Type	Ohms	Taper	Stk. No.	Type	Ohms	Taper
46 D 5395	Q11-201	250	A	46 D 5318	Q13-128	100K	C
46 D 5300	Q11-103	500	A	46 D 5374	Q11-129	200K	A
46 D 5301	Q11-108	1000	A	46 D 5319	Q11-130	250K	A
46 D 5442	Q11-109	1500	A	46 D 5320	Q13-130	250K	C
46 D 5302	Q11-110	2000	A	46 D 5322	Q11-133	500K	A
46 D 5373	Q13-111	2500	C	46 D 5323	Q13-133	500K	C
46 D 5303	Q11-112	3000	A	46 D 5325	Q11-137	1 meg	A
46 D 5304	Q11-114	5000	A	46 D 5326	Q13-137	1 meg	C
46 D 5383	Q13-114	5000	C	46 D 5328	Q11-138	1.5 meg	A
46 D 5306	Q11-116	10K	A	46 D 5329	Q11-139	2 meg	A
46 D 5309	Q11-119	20K	A	46 D 5330	Q13-139	2 meg	C
46 D 5311	Q11-120	25K	A	46 D 5331	Q11-239	2.5 meg	A
46 D 5443	Q13-120	25K	C	46 D 5332	Q11-140	3 meg	A
46 D 5314	Q11-123	50K	A	46 D 5334	Q11-141	5 meg	A
46 D 5315	Q13-123	50K	C	46 D 5335	Q11-143	10 meg	A
46 D 5317	Q11-128	100K	A	....	....	....	.....

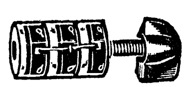
EACH..1.02

SWITCHES FOR Q CONTROLS

Attachable power switch is easily installed—just remove tab-held cover of Q control to mount switch. Type 76-4 (SPDT) is make-one, break-one. U.L. Listed. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	EACH
46 D 5359	76-1	SPST	.60
46 D 5591	76-2	DPST	.60
46 D 5888	76-4	SPDT	.75

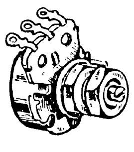
L AND T-PAD SPEAKER CONTROLS



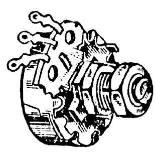
Meet a wide variety of audio applications. Handle 10 watts of audio (3 watts DC). L-pad attenuators provide constant input-impedance; T-pad attenuators provide constant input and output impedance. Diameter, 1¼"; depth behind panel required, 1 9/32" (L pad) and 1 27/32" (T pad). ⅞" bushing for mounting on panels up to ¾" thick. With knob. Shpg. wt., 6 oz.

L PAD Stock No.	Mfr's Type	Ohms	EA.	T PAD Stock No.	Mfr's Type	Ohms	EACH
46 D 5880	LP4A	4	2.79	46 D 5884	TP4A	4	3.15
46 D 5881	LP8A	8	2.79	46 D 5885	TP8A	8	3.15
46 D 5882	LP15A	15	2.79	46 D 5887	TP500A	500	3.15

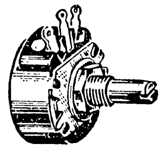
IRC-CTS Military Variable Controls



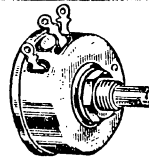
65, 65LT
Style RV5



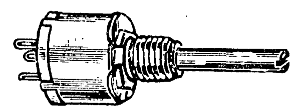
96, 96LT
Style RV4



252, 252LT
Style RA20



25, 25LT
Style RA30



300, 300LT
Style RV6

IRC-CTS COMPOSITION AND WIREWOUND TYPES

MIL-R-94B STYLE RV5 ½-WATT COMPOSITION CTS TYPES 65 AND 65LT

Miniature, high-temperature composition, variable resistors. Only ¾" dia. and ⅜" deep behind panel. ⅛" dia. slotted shafts and ¼"-32 threaded bushings. Type 65 has ⅞" long shaft and ¼" long bushing; 65LT has ½" long shaft and ⅜" long locking bushing. Linear taper. All available from 250 ohms to 2.5 megs, except 15K. ±10% tolerance except † ±20%. Specify resistance. See table at upper right. 4 oz.

Stock No.	Mfr's Type	MIL. Style	EACH 1-24	25-34	35-49	50-64	65-99	100-249
46 D 7667 C	65	RV5NAYSD	3.00	2.61	2.08	1.69	1.48	1.23
46 D 7668 C	65LT	RV5LAYSB	3.00	2.69	2.16	1.77	1.56	1.31

MIL-R-94B STYLE RV4 2-WATT COMPOSITION CTS TYPES 96 AND 96LT

Variable resistors measuring 1⅛"dia., 2³⁄₃₂" behind panel. Have ¼" dia. slotted shafts and ⅜"-32 threaded bushings. RV4NAYSD has ⅞" long shaft and ⅜" long bushing; RV4LAYSD has ⅞" long shaft and ½" long locking bushing. Linear taper. From 100 ohms to 2.5 megs, except 200 and 15K. *Available up to 500K only. ±10% tolerance, † ±20%. Specify resistance. See table at upper right. 4 oz.

Stock No.	Mfr's Type	MIL. Style	EACH 1-34	35-49	50-64	65-99	100-249
46 D 7569 C	96	RV4NAYSD	1.95	1.95	1.71	1.50	1.25
46 D 7673 C	96LT	RV4LAYSD*	2.55	2.18	1.79	1.58	1.33

MIL-R-94B STYLE RV6 ½-WATT COMPOSITION CTS TYPES 300 AND 300LT

Miniature composition, ½" diameter variable resistors. Require ⅜" mounting space behind panel. Have ⅛" diameter slotted shafts and ¼"-32 threaded bushings. Type 300 has ⅞" long plain shaft and ¼" long bushing. Type 300LT has a ⅝" long slotted shaft and ½" long locking bushing. Both types have a linear resistance taper. Available in resistance values ranging from 250 ohms through 2.5 meg except 15K. Tolerance is ±10% except † ±20%. Be sure to specify desired resistance values when ordering. See table at upper right. 4 oz.

Stock No.	Mfr's Type	MIL. Style	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7671 C	300	RV6NAYSD	4.95	4.05	3.80	3.10	2.24
46 D 7672 C	300LT	RV6LAYSA	5.03	4.13	3.88	3.18	2.32

MIL-R-19A STYLE RA30 4-WATT WIREWOUND CS TYPES 25 AND 25LT

1¹⁷⁄₃₂" diameter wirewound variable resistors. Require ¹¹⁄₁₆" behind panel. Have ¼" diameter slotted shafts and ⅜"-32 threaded bushings. Type 25 has ⅞" long shaft and ⅜" long bushing; Type 25LT has ⅝" long shaft and ½" long locking bushing. Linear taper. Both types available in values from 10 ohms to 25K except 75 and 15K ohms; ±10% tolerance. Be sure to specify resistance value when ordering. See table of values at top of right hand column. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	MIL. Style	EACH 1-24	25-34	35-49	50-64	65-99	100-249
46 D 7573 C	25	RA30NASD	3.00	2.72	2.19	1.80	1.59	1.34
46 D 7574 C	25LT	RA30LASB	3.00	2.80	2.27	1.88	1.67	1.42

MIL-R-19A STYLE RA20 2-WATT WIREWOUND CTS TYPES 252 AND 252LT

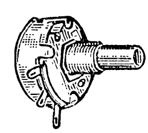
Wirewound variable resistors in insulated housings. All are 1¹⁷⁄₆₄" dia. and require ⅝" behind panel. Have ¼" dia. slotted shafts and ⅜"-32 threaded bushings. RA20NASD has ⅞" long shaft and ⅜" long bushing; RA20LASB has ⅝" long shaft and ½" long locking bushing. All have linear taper. Both types available from 10 ohms to 15K ohms. Have ±10% tolerance. Be sure to specify resistance value when ordering. See table of values at top of right hand column. 4 oz.

Stock No.	Mfr's Type	MIL. Style	EACH 1-24	25-34	35-49	50-64	65-99	100-249
46 D 7571 C	252	RA20NASD	3.00	2.54	2.01	1.62	1.41	1.16
46 D 7572 C	252LT	RA20LASB	3.00	2.62	2.09	1.70	1.49	1.24

TABLE OF RESISTANCES—SPECIFY VALUES WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs
10	100	500	10K	50K	500K	†1
50	200	1000	15K	100K	....	†2.5
75	250	5000	25K	250K	....	....

2-WATT MIL-R-94B INDUSTRIAL CONTROLS CTS TYPE 321

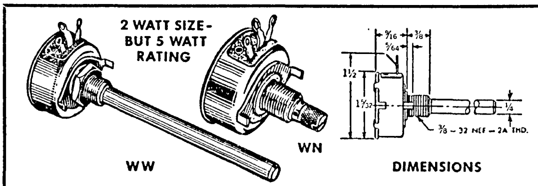


Controls feature carbon-ceramic element with long life and low noise. Rated 3 watts at 70° C or 2 watts at 95° C. Linear taper. Require ½" behind panel. ¼" shafts, ⅜"-32 bushings. Type 321—plain 2" long shaft with ⅜"-long bushing. ±10% except † ±20%. Available in values below, specify when ordering. Shpg. wt., 4 oz.

Ohms	Ohms	Ohms	Ohms	Megs
250	2500	25K	250K	†1
500	5000	50K	500K	†2.5
1000	10K	100K	....	....

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-99	100-249
45 D 7156 C	321	1.76	1.63	1.47	1.40	1.30

CENTRALAB WIREWOUND CONTROLS



5-WATT WIREWOUND POTENTIOMETERS

Conservatively rated 5-watt wirewound controls that are smaller than conventional 2-watt units! Made possible by Centralab's "thermapass" insulation which has exceptional heat transfer with high dielectric strength—4500 volts/mil @ 25°C. Meets or exceeds most sections of MIL-R-19A specs. Linear taper with 10% tolerance; 5-watt rating up to 40°C ambient. Dielectric strength: 900 VAC-RMS to ground. Mounting bushing ⅜" long and ⅜" dia. 32 NEF-2A threads, with nut and lock washer. Body size, 1⁵⁄₃₂" dia., ⁹⁄₁₆" deep. Shaft, ¼" dia. *Length from mounting surface. 4 oz.

STOCK VALUES (OHMS)—SPECIFY VALUES WANTED

2	15	50	200	500	1500	3000	10K	25K
5	25	75	300	750	2000	5000	15K	50K
10	30	100	400	1000	2500	7500	20K	100K

TYPE WW—3" ROUND SHAFT*

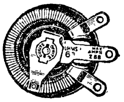
Stock No.	Values (Ohms) Specify from Table	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7140 C	2 ohms thru 7500	1.32	1.19	1.10	1.05	.99
46 D 7141 C	10K thru 25K	1.59	1.43	1.33	1.26	1.19
46 D 7142	50K only	2.01	1.81	1.68	1.59	1.51
46 D 7143	100K only	2.46	2.22	2.05	1.95	1.85

TYPE WN—¾" KNURLED AND SLOTTED SHAFT*

Stock No.	Values (Ohms) Specify from Table	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7144 C	2 ohms thru 7500	1.32	1.19	1.10	1.05	.99
46 D 7145 C	10K thru 25K	1.59	1.43	1.33	1.26	1.19
46 D 7146	50K only	2.01	1.81	1.68	1.59	1.51
46 D 7147	100K only	2.46	2.22	2.05	1.95	1.85

OHMITE Wirewound Rheostats

VITREOUS-ENAMELED RHEOSTATS FROM 25 WATTS TO 300 WATTS



Selected wirewound rheostats; all are vitreous-enameled, (except Types 4200, -1, -2, -3 and -4), silicone-ceramic. Cannot smoke, char, shrink or shift. All have copper-graphite brushes, except *silver-graphite brushes. Ratings are at full setting. U.L. Listed except types indicated by †. Types H, J, K and L mount on panels up to 1/4″ thick; Type N on panels up to 1 1/4″ thick. Specifications: Type H, dia. 1 9/16″, depth behind panel, 1 3/8″; Type J, dia. 2 5/16″, depth behind panel, 1 3/8″; Type K, dia. 3 1/8″, depth behind panel, 1 3/4″; Type L dia. 4″, depth behind panel, 2″; Type N, dia. 6″, depth behind panel, 2 3/8″. Less knobs; see knobs, dial plates, and coupling kits at bottom of page. Av. Shpg. wt., 8 oz.

25 WATT—TYPE H

Stock No.	Mfr's Type	Ohm	EACH 1-4	5-9	10-24	25-49
46 D 7223	0140*	1	4.63	3.94	3.10	2.55
46 D 7224	0141	2	4.63	3.94	3.10	2.55
46 D 7225	0142	3	4.63	3.94	3.10	2.55
46 D 7226	0143	6	4.63	3.94	3.10	2.55
46 D 7227	0144	9	4.63	3.94	3.10	2.55
46 D 7228	0145	10	4.63	3.94	3.10	2.55
46 D 7229	0146	15	4.11	3.49	2.75	2.26
46 D 7230	0147	25	4.11	3.49	2.75	2.26
46 D 7231	0148	35	4.11	3.49	2.75	2.26
46 D 7232	0149	50	4.11	3.49	2.75	2.26
46 D 7234	0150	75	4.11	3.49	2.75	2.26
46 D 7236	0151	100	4.11	3.49	2.75	2.26
46 D 7237	0152	125	4.11	3.49	2.75	2.26
46 D 7238	0153	175	4.11	3.49	2.75	2.26
46 D 7239	0154	250	4.11	3.49	2.75	2.26
46 D 7240	0155	350	4.11	3.49	2.75	2.26
46 D 7241	0156	500	4.11	3.49	2.75	2.26
46 D 7242	0157	750	4.11	3.49	2.75	2.26
46 D 7244	0158	1000	4.63	3.94	3.10	2.55
46 D 7245	0159	1500	4.63	3.94	3.10	2.55
46 D 7246	0160	2500	4.63	3.94	3.10	2.55
46 D 7247	0161	3500	4.90	4.17	3.28	2.70
46 D 7248	0162	5000	4.90	4.17	3.28	2.70
46 D 7150	4200†	7500	5.06	4.30	3.39	2.78
46 D 7151	4201†	10K	5.06	4.30	3.39	2.78
46 D 7152	4202†	15K	5.50	4.68	3.69	3.03
46 D 7153	4203†	20K	6.16	5.24	4.13	3.39
46 D 7154	4204†	25K	6.82	5.80	4.57	3.75

50 WATT—TYPE J

Stock No.	Mfr's Type	Ohm	EACH 1-4	5-9	10-24	25-49
46 D 7249	0308*	0.5	5.15	4.38	3.45	2.83
46 D 7250	0309*	1	5.15	4.38	3.45	2.83
46 D 7251	0310*	2	5.15	4.38	3.45	2.83
46 D 7252	0311	4	5.15	4.38	3.45	2.83
46 D 7253	0312	6	5.15	4.38	3.45	2.83
46 D 7254	0313	8	4.63	3.94	3.10	2.55
46 D 7255	0314	12	4.63	3.94	3.10	2.55
46 D 7256	0315	16	4.63	3.94	3.10	2.55
46 D 7257	0316	22	4.63	3.94	3.10	2.55

50 WATT—TYPE J (Cont'd)

Stock No.	Mfr's Type	Ohm	EACH 1-4	5-9	10-24	25-49
46 D 7258	0317	35	4.63	3.94	3.10	2.55
46 D 7259	0318	50	4.63	3.94	3.10	2.55
46 D 7260	0319	80	4.63	3.94	3.10	2.55
46 D 7261	0320	125	4.63	3.94	3.10	2.55
46 D 7262	0321	150	4.63	3.94	3.10	2.55
46 D 7263	0322	225	4.63	3.94	3.10	2.55
46 D 7264	0323	300	4.63	3.94	3.10	2.55
46 D 7265	0324	500	4.63	3.94	3.10	2.55
46 D 7266	0325	800	4.90	4.17	3.28	2.70
46 D 7267	0326	1000	4.90	4.17	3.28	2.70
46 D 7268	0327	1600	4.90	4.17	3.28	2.70
46 D 7269	0328	2500	4.90	4.17	3.28	2.70
46 D 7270	0329	3500	5.15	4.38	3.45	2.83
46 D 7271	0330	5000	5.15	4.38	3.45	2.83
46 D 7272	0331	8000	5.15	4.38	3.45	2.83
46 D 7273	0332	10K	5.15	4.38	3.45	2.83

100 WATT—TYPE K

Stock No.	Mfr's Type	Ohm	EACH 1-4	5-9	10-24	25-49
46 D 7274	0440*	0.5	7.72	6.56	5.17	4.25
46 D 7275	0441*	1	7.72	6.56	5.17	4.25
46 D 7276	0442*	2	7.72	6.56	5.17	4.25
46 D 7277	0443*	3	7.72	6.56	5.17	4.25
46 D 7278	0444*	5	7.72	6.56	5.17	4.25
46 D 7279	0445	7.5	7.72	6.56	5.17	4.25
46 D 7280	0446	10	7.72	6.56	5.17	4.25
46 D 7281	0447	16	7.21	6.13	4.83	3.97
46 D 7282	0448	25	7.21	6.13	4.83	3.97
46 D 7283	0449	50	7.21	6.13	4.83	3.97
46 D 7284	0450	75	7.21	6.13	4.83	3.97
46 D 7285	0451	100	7.21	6.13	4.83	3.97
46 D 7286	0452	200	7.21	6.13	4.83	3.97
46 D 7287	0453	300	7.21	6.13	4.83	3.97
46 D 7289	0455	500	7.21	6.13	4.83	3.97
46 D 7290	0456	750	7.21	6.13	4.83	3.97
46 D 7291	0457	1000	7.72	6.56	5.17	4.25
46 D 7293	0459	2000	7.72	6.56	5.17	4.25
46 D 7295	0461	5000	8.24	7.00	5.52	4.53
46 D 7297	0463	10K	9.26	7.87	6.20	5.09

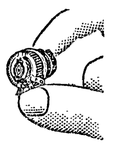
150 WATT—TYPE L

Stock No.	Mfr's Type	Ohm	EACH 1-4	5-9	10-24	25-49
46 D 7298	0524*	0.5	9.78	8.31	6.55	5.38
46 D 7300	0525*	1	9.78	8.31	6.55	5.38
46 D 7303	0528*	5	9.78	8.31	6.55	5.38
46 D 7304	0529*	7.5	9.78	8.31	6.55	5.38
46 D 7305	0530	10	9.78	8.31	6.55	5.38
46 D 7306	0531	15	9.78	8.31	6.55	5.38
46 D 7307	0532	25	9.26	7.87	6.20	5.09
46 D 7308	0533	35	9.26	7.87	6.20	5.09
46 D 7309	0534	50	9.26	7.87	6.20	5.09
46 D 7310	0535	75	9.26	7.87	6.20	5.09
46 D 7311	0536	100	9.26	7.87	6.20	5.09
46 D 7312	0537	150	9.26	7.87	6.20	5.09
46 D 7313	0538	200	9.26	7.87	6.20	5.09
46 D 7314	0539	250	9.26	7.87	6.20	5.09
46 D 7315	0540	350	9.26	7.87	6.20	5.09
46 D 7316	0541	500	9.26	7.87	6.20	5.09
46 D 7317	0542	750	9.78	8.31	6.55	5.38
46 D 7318	0543	1250	9.78	8.31	6.55	5.38
46 D 7324	0549	10K	12.35	10.50	8.27	6.79

300 WATT—TYPE N

Stock No.	Type	Ohms	1-2, EA.	3-4, EA.
46 D 7325	0650*	1	15.29	13.00
46 D 7327	0652*	3	15.29	13.00
46 D 7329	0654*	5	15.29	13.00
46 D 7330	0655*	7.5	15.29	13.00
46 D 7331	0656*	10	15.29	13.00
46 D 7332	0657*	15	15.29	13.00
46 D 7333	0658	25	15.29	13.00
46 D 7334	0659	50	15.29	13.00
46 D 7336	0661	100	15.29	13.00
46 D 7337	0662	150	15.29	13.00
46 D 7338	0663	200	15.29	13.00
46 D 7339	0664	300	15.29	13.00
46 D 7340	0665	400	15.29	13.00
46 D 7341	0666	700	15.29	13.00
46 D 7343	0668	1200	15.29	13.00
46 D 7344	0669	1500	15.29	13.00
46 D 7346	0671	2500	15.29	13.00

TYPE E 12½-WATT MINIATURE RHEOSTATS



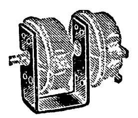
Compact power rheostats for limited space applications. Rugged, ceramic and metal construction. For high temperature applications; operate at maximum hot spot temperature of 340°C. Resistance tolerance is ±10%. Only 7/8″ diameter. Require 11/16″ behind panel. 1/4″ by 32 threaded bushing 1/4″ long. 1/8″ dia. shaft, 3/8″ lg. Less knob, below. 2½ oz.

Stock No.	Type	Ohms	1-4, EA.	5-9, EA.	10-24, EA.	25-49, EA.
46 D 7200	0101	1	4.63	3.94	3.10	2.55
46 D 7201	0102	2	4.63	3.94	3.10	2.55
46 D 7202	0103	3	4.63	3.94	3.10	2.55
46 D 7204	0105	8	4.63	3.94	3.10	2.55
46 D 7205	0106	10	4.63	3.94	3.10	2.55
46 D 7206	0107	15	4.11	3.49	2.75	2.26
46 D 7207	0108	25	4.11	3.49	2.75	2.26
46 D 7209	0110	50	4.11	3.49	2.75	2.26
46 D 7210	0111	75	4.11	3.49	2.75	2.26
46 D 7211	0112	100	4.11	3.49	2.75	2.26
46 D 7213	0114	175	4.11	3.49	2.75	2.26
46 D 7214	0115	250	4.11	3.49	2.75	2.26
46 D 7216	0117	500	4.11	3.49	2.75	2.26
46 D 7217	0118	750	4.11	3.49	2.75	2.26
46 D 7218	0119	1000	4.63	3.94	3.10	2.55
46 D 7219	0120	1500	4.63	3.94	3.10	2.55
46 D 7220	0121	2500	4.63	3.94	3.10	2.55
46 D 7221	0122	3500	4.90	4.17	3.28	2.70
46 D 7222	0123	5000	4.90	4.17	3.28	2.70
46 D 7155	4190	7500	5.06	4.30	3.39	2.78
46 D 7156	4191	10K	5.06	4.30	3.39	2.78
46 D 7158	4193	15K	5.50	4.68	3.69	3.03

Type 5007 Dial Plate. For Type E. 1¼″ dia. Black background.
46 D 7939. 1-4.....Ea. .29 5-9.....Ea. .25 10-24......Ea. .19

Type 5151 Knob. 3/4″ finger-grip type for E rheostats.
46 D 7940. 1-4.....Ea. .29 5-9.....Ea. .25 10-24......Ea. .19

TANDEM COUPLING KITS



Handy kits for assembling Ohmite rheostats in tandem. Each kit consists of a steel "U" frame, mica washer, coupling, Allen wrench and complete instructions for easy assembly. Maximum panel thickness with standard rheostat is 1/8″.

Type 6533 Tandem Coupling Kit. Large frame for Types G, K, or L in front; accommodates Types H, J, G, K or L in rear position. Frame size is 2 9/16″ long by 1¼″ wide. Shpg. wt., 8 oz.
46 D 7941. 1-4.....Ea. 2.51 5-9.....Ea. 2.13 10-24......Ea. 1.68

Type 6532 Tandem Coupling Kit. Compact frame for Types H or J in front; accommodates Types H, J, G, K or L in rear position. Frame size is 2 5/32″ long by 1¼″ wide. Shpg. wt., 4 oz.
46 D 7942. 1-4.....Ea. 2.01 5-9.....Ea. 1.71 10-24......Ea. 1.35

DIAL PLATES AND KNOB

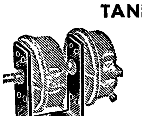
Type 5000 Dial Plate. For Type H, J, K and L rheostats. 2 3/16″ diameter. Handsomely finished with bright figures and lines on etched black background. 0-100 scale. Shpg. wt., 2 oz.
46 D 7945 1-4.............Ea. .29 5-9..............Ea. .25

Type 5001 Dial Plate. For Type N. 5½″ dia. 0-100. Shpg. wt., 2 oz.
46 D 7943 1-2.............Ea. .70 3-49.............Ea. .58

Type 5104 Handwheel. With pointer. For Type N. 3¼″ dia. 2 oz.
46 D 7969 1-2............Ea. 1.38 3-49............Ea. 1.15

Type 5150 Knob. 1½″ finger-grip type for H, J, K and L. 2 oz.
46 D 7944 1-4.....Ea. .29 5-9.....Ea. .25 10-24....Ea. .19

TANDEM COUPLING KIT FOR TYPE E

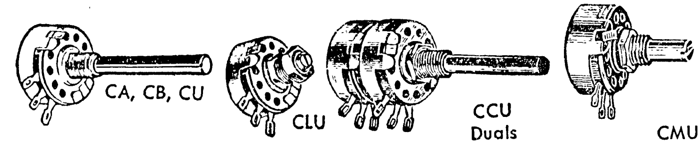


Type 6591 Tandem Coupling Kit. For assembling two Type E rheostats. Consists of a steel "U" frame, mica washer, coupling, Allen wrench and assembly instructions. Max. panel thickness 1/16″. Frame 1 7/16″ long and 3/4″ wide. Shpg. wt., 2 oz.
46 D 1595. 1-4.......Ea. 2.01 5-9....Ea. 1.71
10-24........Each 1.35 25-49........Each 1.11

OHMITE Potentiometers

"AB" MOLDED COMPOSITION 2-WATT POTENTIOMETERS

Single units are 5/8x1 5/32" dia.; double units are 1 17/64x1 5/32" dia. Mount in 3/8" hole in panels to 1/4" thick. 2" long 1/4" round shafts except CLU, slotted shaft and locking nut; CMU, 7/8" slotted shaft. CU, CCU, CMU and CLU Types linear taper; CA Types, CW log; CB Types, CCW log. ±10% tol. except * ±20%. Av. shpg. wt., 3 1/2 oz.



STYLE CA, CB, CU

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-Up
46 D 1500	CU5001	50	1.95	1.75	1.62	1.46
46 D 1501	CU1011	100	1.95	1.75	1.62	1.46
46 D 1596	CU1511	150	1.95	1.75	1.62	1.46
46 D 1502	CU2511	250	1.95	1.75	1.62	1.46
46 D 1597	CU3511	350	1.95	1.75	1.62	1.46
46 D 1503	CU5011	500	1.95	1.75	1.62	1.46
46 D 1598	CU7511	750	1.95	1.75	1.62	1.46
46 D 1504	CU1021	1000	1.95	1.75	1.62	1.46
46 D 1599	CU1521	1500	1.95	1.75	1.62	1.46
46 D 1505	CU2521	2500	1.95	1.75	1.62	1.46
46 D 1600	CU3521	3500	1.95	1.75	1.62	1.46
46 D 1506	CU5021	5000	1.95	1.75	1.62	1.46
46 D 1601	CU7521	7500	1.95	1.75	1.62	1.46
46 D 1507	CU1031	10K	1.95	1.75	1.62	1.46
46 D 1508	CB1031	10K	2.25	2.02	1.87	1.69
46 D 1602	CU1531	15K	1.95	1.75	1.62	1.46
46 D 1509	CU2531	25K	1.95	1.75	1.62	1.46
46 D 1510	CB2531	25K	2.25	2.02	1.87	1.69
46 D 1603	CU3531	35K	1.95	1.75	1.62	1.46
46 D 1511	CU5031	50K	1.95	1.75	1.62	1.46

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-Up
46 D 1512	CB5031	50K	2.25	2.02	1.87	1.69
46 D 1604	CU7531	75K	1.95	1.75	1.62	1.46
46 D 1513	CU1041	100K	1.95	1.75	1.62	1.46
46 D 1514	CA1041	100K	2.25	2.02	1.87	1.69
46 D 1605	CU1541	150K	1.95	1.75	1.62	1.46
46 D 1515	CU2541	250K	1.95	1.75	1.62	1.46
46 D 1516	CA2541	250K	2.25	2.02	1.87	1.69
46 D 1606	CU3541	350K	1.95	1.75	1.62	1.46
46 D 1517	CU5041	500K	1.95	1.75	1.62	1.46
46 D 1518	CA5041	500K	2.25	2.02	1.87	1.69
46 D 1607	CU7542	750K*	1.95	1.75	1.62	1.46
46 D 1519	CU1052	1 meg*	1.95	1.75	1.62	1.46
46 D 1520	CA1052	1 meg*	2.25	2.02	1.87	1.69
46 D 1608	CU1552	1.5 meg*	1.95	1.75	1.62	1.46
46 D 1548	CU2052	2.0 meg*	1.95	1.75	1.62	1.46
46 D 1521	CU2552	2.5 meg*	1.95	1.75	1.62	1.46
46 D 1522	CA2552	2.5 meg*	2.25	2.02	1.87	1.69
46 D 1609	CU3552	3.5 meg*	1.95	1.75	1.62	1.46
46 D 1523	CU5052	5 meg*	1.95	1.75	1.62	1.46

STYLE CLU LOCKING-SHAFT TYPES—MEET MIL-R-94B

Stock No.	Type	MIL Type	Ohms
46 D 1525	CLU5001	RV4LAYSA500A	50
46 D 1526	CLU1011	RV4LAYSA101A	100
46 D 1527	CLU2511	RV4LAYSA251A	250
46 D 1528	CLU5011	RV4LAYSA501A	500
46 D 1529	CLU1021	RV4LAYSA102A	1000
46 D 1530	CLU2521	RV4LAYSA252A	2500
46 D 1531	CLU5021	RV4LAYSA502A	5000
46 D 1532	CLU1031	RV4LAYSA103A	10K
46 D 1533	CLU2531	RV4LAYSA253A	25K

1-9 .... Each 2.55 10-49 .... Each 2.29
50-99 .... Each 2.12 100-Up .... Each 1.90

Stock No.	Type	MIL Type	Ohms
46 D 1534	CLU5031	RV4LAYSA503A	50K
46 D 1535	CLU1041	RV4LAYSA104A	100K
46 D 1536	CLU2541	RV4LAYSA254A	250K
46 D 1537	CLU5041	RV4LAYSA504A	500K
46 D 1538	CLU1052	RV4LAYSA105B	1 meg*
46 D 1549	CLU2052	RV4LAYSA205B	2 meg*
46 D 1539	CLU2552	RV4LAYSA255B	2.5 meg*
46 D 1540	CLU5052	RV4LAYSA505B	5 meg*

1-9 .... Each 2.55 10-49 .... Each 2.29
50-99 .... Each 2.12 100-Up .... Each 1.90

STYLE CMU SLOTTED-SHAFT TYPES—MEET MIL-R-94B

46 D 1612	CMU5001	RV4NAYSD500A	50
46 D 1613	CMU1011	RV4NAYSD101A	100
46 D 1614	CMU2511	RV4NAYSD251A	250
46 D 1615	CMU5011	RV4NAYSD501A	500
46 D 1616	CMU1021	RV4NAYSD102A	1000
46 D 1617	CMU2521	RV4NAYSD252A	2500
46 D 1618	CMU5021	RV4NAYSD502A	5000
46 D 1619	CMU1031	RV4NAYSD103A	10K
46 D 1620	CMU2531	RV4NAYSD253A	25K

1-9 .... Each 1.95 10-49 .... Each 1.75
50-99 .... Each 1.62 100-Up .... Each 1.46

46 D 1621	CMU5031	RV4NAYSD503A	50K
46 D 1622	CMU1041	RV4NAYSD104A	100K
46 D 1623	CMU2541	RV4NAYSD254A	250K
46 D 1624	CMU5041	RV4NAYSD504A	500K
46 D 1625	CMU1052	RV4NAYSD105B	1 meg*
46 D 1626	CMU2052	RV4NAYSD205B	2 meg*
46 D 1627	CMU2552	RV4NAYSD255B	2.5 meg*
46 D 1628	CMU5052	RV4NAYSD505B	5 meg*

1-9 .... Each 1.95 10-49 .... Each 1.75
50-99 .... Each 1.62 100-Up .... Each 1.46

STYLE CCU DUALS

46 D 1541	CCU1031	....	10K
46 D 1542	CCU2531	....	25K
46 D 1543	CCU5031	....	50K
46 D 1544	CCU1041	....	100K

1-9 .... Each 5.85 10-49 .... Each 5.26
50-99 .... Each 5.06 100-Up .... Each 4.40

46 D 1545	CCU2541	....	250K
46 D 1546	CCU5041	....	500K
46 D 1547	CCU1052	....	1 meg*

1-9 .... Each 5.85 10-49 .... Each 5.26
50-99 .... Each 5.06 100-Up .... Each 4.40

TYPE CS-1 SPST SWITCH FOR "AB" SERIES

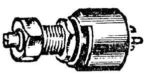
Single-pole single-throw switch for Ohmite "AB" potentiometers listed above. For single-unit type potentiometers only.

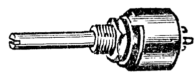
46 D 1524. 1-9 ...... Each .66 10-49 .... Each .62
50-99 .... Each .59 100-Up .... Each .55

EXPLANATION OF MIL NOS. Example: RV4NAYSB104B.
RV4, variable composition control. N, bushing—N for std., L for locking, S for shaft and panel seal. A, switch—A for none, B for SPST. Y, temperature and moisture resistance: X for 120° C max. ambient temperature, ±14% max. resistance change in humidity test, 50 megohm min. insulation resistance in humidity test; Y for 120° ambient, ±10% resistance change, 100 megohms insulation test. SB, operating shaft: First letter for style—F for flatted, S for slotted; second letter for length from mtg. surface—A-5/8, B-1/2, D-7/8, G-1 1/4, K-2 1/2" (flatted all K). 104, ohms resistance—first two digits are significant figures, third is zeros to add. B, resistance characteristic and tolerance: A, linear ±10%; B, linear ±20%; C, 10% res. at 50% CW ±10%; D, 10% res. at 50% CW ±20%; E, 10% res. at 50% CCW ±10%; F, 10% res. at 50% CCW ±20%.

Ohmite Potentiometers and Mallory Attenuators

OHMITE "AS" ½-WATT MINIATURE CONTROLS


LOCKING

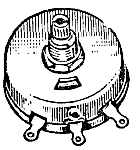

STANDARD BUSHING

Linear-taper controls ideal for miniaturized assemblies. Molded composition resistance and collector tracks, dustproof sealed enclosures, specially plated terminals. Available in 5/8" screwdriver slotted, locking-types, or standard bushing-types with 7/8" slotted shaft. All are rated at 350 volts. ½" dia., 11/16" long. Meet QQ-M-151, MIL-R-94, MIL Type RV6LAYSA (locking type) or RV6NAYSD (7/8" shaft) and EIA specs. Tolerance: ±10%, except * ±20%. Shpg. wt., 3 oz.

Stock No.	Locking, 5/8" Shaft Mfr's Type	Ohms	Stock No.	St. Bush., 7/8" Shaft Mfr's Type
46 D 1580	AS3601	100	46 D 1645	ASM6661
46 D 1581	AS3602	250	46 D 1646	ASM6662
46 D 1582	AS3603	500	46 D 1647	ASM6663
46 D 1583	AS3604	1000	46 D 1648	ASM6664
46 D 1584	AS3605	2500	46 D 1649	ASM6665
46 D 1585	AS3606	5000	46 D 1650	ASM6666
46 D 1586	AS3607	10K	46 D 1651	ASM6667
46 D 1587	AS3608	25K	46 D 1652	ASM6668
46 D 1588	AS3609	50K	46 D 1653	ASM6669
46 D 1589	AS3610	100K	46 D 1654	ASM6670
46 D 1590	AS3611	250K	46 D 1655	ASM6671
46 D 1591	AS3612	500K	46 D 1656	ASM6672
46 D 1592	AS3613*	1.0 meg	46 D 1657	ASM6673*
46 D 1644	AS3684*	2.0 meg	46 D 1658	ASM6674*
46 D 1593	AS3614*	2.5 meg	46 D 1659	ASM6675*
46 D 1594	AS3615*	5.0 meg	46 D 1660	ASM6676*

1-9 ...... Each 5.10 10-49 ...... Each 4.59 50-99 ...... Each 4.23
100-Up* ...... Each 3.58

MALLORY TYPE M WIREWOUND CONTROLS



For bias controls and voltage dividers. 4 watts. Arm insulated from shaft. 294° rotation. Knurled ¼" shaft is 3/8" long; has screwdriver slot. "M" shaft is hollow to accept extension shafts and bushings. All are 1 5/8" dia. x 9/16" deep. Mount in 3/8" hole. All have linear taper. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-249	250-499
46 D 3424	M1PK	1	1.35	1.22	1.13	1.01	.90
46 D 3425	M3PK	3	1.35	1.22	1.13	1.01	.90
46 D 3426	M6PK	6	1.35	1.22	1.13	1.01	.90
46 D 3427	M10PK	10	1.35	1.22	1.13	1.01	.90
46 D 3400	M15PK	15	1.35	1.22	1.13	1.01	.90
46 D 3401	M20PK	20	1.35	1.22	1.13	1.01	.90
46 D 3402	M25PK	25	1.35	1.22	1.13	1.01	.90
46 D 3403	M30PK	30	1.35	1.22	1.13	1.01	.90
46 D 3404	M40PK	40	1.35	1.22	1.13	1.01	.90
46 D 3405	M50PK	50	1.35	1.22	1.13	1.01	.90
46 D 3406	M60PK	60	1.35	1.22	1.13	1.01	.90
46 D 3408	M100PK	100	1.35	1.22	1.13	1.01	.90
46 D 3409	M200PK	200	1.35	1.22	1.13	1.01	.90
46 D 3410	M400PK	400	1.35	1.22	1.13	1.01	.90
46 D 3411	M500PK	500	1.35	1.22	1.13	1.01	.90
46 D 3412	M600PK	600	1.35	1.22	1.13	1.01	.90
46 D 3413	M1MPK	1000	1.35	1.22	1.13	1.01	.90
46 D 3431	M1.5MPK	1500	1.35	1.22	1.13	1.01	.90
46 D 3414	M2MPK	2000	1.35	1.22	1.13	1.01	.90
46 D 3432	M2.5MPK	2500	1.35	1.22	1.13	1.01	.90
46 D 3415	M3MPK	3000	1.35	1.22	1.13	1.01	.90
46 D 3417	M5MPK	5000	1.35	1.22	1.13	1.01	.90
46 D 3418	M10MPK	10K	1.35	1.22	1.13	1.01	.90
46 D 3419	M15MPK	15K	1.47	1.32	1.23	1.10	.98
46 D 3420	M20MPK	20K	1.47	1.32	1.23	1.10	.98
46 D 3421	M25MPK	25K	1.47	1.32	1.23	1.10	.98
46 D 3422	M50MPK	50K	1.74	1.57	1.45	1.31	1.16
46 D 3434	M100MPK	100K	2.46	2.21	2.05	1.85	1.64

RHEOSTATS

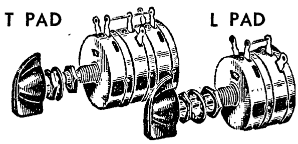
Have open or off position counter-clockwise.

Stock No.	Type	Ohms	Amps
46 D 3456	M6RK	6	.82
46 D 3457	M10RK	10	.63
46 D 3461	M30RK	30	.37
46 D 3463	M50RK	50	.28
46 D 3466	M100RK	100	.20

1-9 ...... Each .93 10-49 ...... Each .84 50-99 ..... Each .78
100-249 .... Each .70 250-499 .... Each .62
46 D 3651. Type 395 Dial Plate. For "M" controls .... Each .21

MALLORY CONSTANT-LOAD ATTENUATORS

T PAD L PAD



Widely used to control the level of low-impedance audio circuits in sound systems. Rated 4 watts. Continuous DC; 15 watts, peak audio. Have 2" shafts. 3/8" diameter bushing. With bar knob, 0-10 dial plate. Av. shpg. wt., 7 oz.

T-Pad Attenuators. Present a constant source-impedance as well as constant load. Size, 1 5/8" dia. x 1 11/16".

Ohms	Stock No.	Type	Ohms	Stock No.	Type
4	46 D 3869	T4	600	46 D 3866	T600
8	46 D 3871	T8	1000	46 D 3867	T1000
15	46 D 3872	T15	2000	46 D 3877	T2000
50	46 D 3873	T50	3000	46 D 3878	T3000
500	46 D 3876	T500	.....	.....	.....

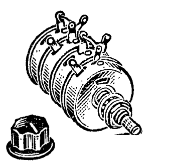
1-9 .... Each 3.54 10-24 .... Each 3.36
25-49 .... Each 3.19 50-99 .... Each 2.95
100-249 .... Each 2.66 250-499 .... Each 2.36

L-Pad Attenuators. Present a constant load-impedance at all control settings. Size, 1 5/8" dia. x 1 1/8" long.

Ohms	Stock No.	Type	Ohms	Stock No.	Type
4	46 D 3884	L4	600	46 D 3921	L600
8	46 D 3892	L8	1000	46 D 3922	L1000
15	46 D 3886	L15	2000	46 D 3891	L2000
50	46 D 3887	L50	4000	46 D 3708	L4000
500	46 D 3890	L500	.....	.....	.....

1-9 .... Each 2.73 10-24 .... Each 2.59
25-49 .... Each 2.46 50-99 .... Each 2.28
100-249 .... Each 2.05 250-499 .... Each 1.82

MALLORY STEREO L PADS—MONOPHONIC L, T PADS



Type "LL" Pads. For level control of low impedance stereo audio. Rated 4 watts DC; 15 watts peak. Consist of two "L" pads mounted in tandem and operated by a common shaft—permits adjustment of 2 channels. 1 5/8x2 5/16". Av. shpg. wt., 7 oz.

Type "LA" Pads. Rated at 4 watts continuous DC and 15 watts peak. For level control in monophonic equipment. Maintain constant impedance between control and amplifier. With a 1" bushing, 2 nuts. 2 lock washers. Size, 1 5/8x1 1/8". Av. shpg. wt., 7 oz.

Type "MRL" L Pads. Rated at 3 watts continuous DC and 10 watts peak. For monophonic use. Size, ¾x7/8". Av. shpg. wt., 7 oz.

Type "MRT" T Pads. Rated 3 watts DC; 10 watts peak. Maintains equal input and output impedances. With 3/8x1" bushing, knob, and wiring instructions. Size, ¾x1 5/16". Av. shpg. wt., 7 oz.

SERIES "LL" and "LA" L PADS

Stock Number	Mfr's Type	Imp., Ohms	EACH 1-9	10-24	25-49	50-99	100-249	250-499
46 D 3097	LL8	8	5.70	5.42	5.13	4.75	4.28	3.80
46 D 3098	LL16	16	5.70	5.42	5.13	4.75	4.28	3.80
46 D 3071	L8A	8	2.85	2.71	2.57	2.38	2.14	1.90
46 D 3072	L16A	16	2.85	2.71	2.57	2.38	2.14	1.90

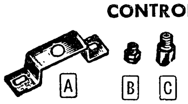
SERIES "MRL" L PADS

46 D 3112	MRL8	8	2.52	2.39	2.27	2.10	1.89	1.68
46 D 3113	MRL16	16	2.52	2.39	2.27	2.10	1.89	1.68

SERIES "MRT" T PADS

46 D 3116	MRT8	8	3.33	3.16	3.00	2.78	2.50	2.22
46 D 3117	MRT16	16	3.33	3.16	3.00	2.78	2.50	2.22

CONTROL MOUNTING ACCESSORIES

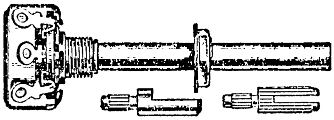


Useful accessories include mounting brackets with adjustable mounting centers, in two sizes; extender that extends body of controls 5/8" away from mounting surface; and bushing adapter for ¼" panel. 2 oz.

Stock No.	Type	Fig.	Description	EACH
46 D 3676	RB249	A	Mtg. bracket, mtg. ctrs. 2½"	.05
46 D 3675	RB248	A	Mtg. bracket, mtg. ctrs. 1¾"	.05
46 D 3661	EB247	B	Extender	.13
47 D 4096	119	C	¼" bushing	.15

MALLORY Controls

TYPE U METAL-SHAFT MIDGETROL CONTROLS

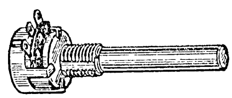


For audio, tone and similar control circuits in home receivers, audio amplifiers, portables, TV sets, and industrial electronic equipment. Available in a full line of resistances, tapers, and taps. Round, hollow shaft—easily cut to desired length. Two spline-shank knob adapters furnished with each Midgetrol—see illustration above. Taper No. 1: for audio or antenna shunt circuits. Taper No. 4: Linear. For voltage control. With nut and lockwasher. 15⁄16" diameter. Brass shaft, 2 1⁄8" long, 1⁄4" dia. Less switch (at right). Av. shpg. wt. 4 oz.

Stock No.	Type	Ohms	Taper	Stock No.	Type	Ohms	Taper
46 D 3714	U-1	100	4	46 D 3763	U-35	50K	4
46 D 3709	U-2	500	4	46 D 3765	U-39	100K	1
46 D 3785	U-4	1000	4	46 D 3767	U-41	100K	4
46 D 3787	U-8	3000	4	46 D 3768	U-42	150K	1
46 D 3751	U-12	5000	1	46 D 3770	U-44	250K	1
46 D 3752	U-14	5000	4	46 D 3772	U-46	250K	4
46 D 3753	U-18	10K	1	46 D 3773	U-48	500K	1
46 D 3755	U-20	10K	4	46 D 3774	U-50	500K	4
46 D 3756	U-21	15K	1	46 D 3776	U-53	1 meg	1
46 D 3783	U-26	20K	4	46 D 3777	U-54	1 meg	4
46 D 3712	U-28A	25K	1	46 D 3781	U-56	2 meg	4
46 D 3760	U-29	25K	4	46 D 3789	U-82	10 meg	4
46 D 3761	U-33	50K	1	....	......	......	......

1-24......Each 1.02 25-49......Each .92 50-99.......Each .85
100-174...Each .77 175-299....Each .73 300-499.....Each .68

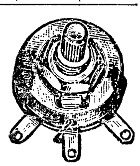
TYPE VW 5-WATT WIREWOUND CONTROLS



Miniature 5-watt potentiometers. Very small size for this rating; ideal for limited space applications. Only 3⁄4" dia., 7⁄16" deep. Bushing: 3⁄8x3⁄8" dia. and length. 1⁄4" plain round shaft, 2" long from mtg. surface. Linear taper. ±5% tol. 305° mechanical rotation; 275° electrical rotation. High-quality construction. Av. shpg. wt., 4 oz.

Stock Number	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-249	250-499
46 D 1087	VW-1	1	1.38	1.24	1.15	1.04	.92
46 D 1088	VW-2	2	1.38	1.24	1.15	1.04	.92
46 D 1089	VW-3	3	1.38	1.24	1.15	1.04	.92
46 D 1090	VW-5	5	1.38	1.24	1.15	1.04	.92
46 D 1092	VW-8	8	1.38	1.24	1.15	1.04	.92
46 D 1093	VW-10	10	1.38	1.24	1.15	1.04	.92
46 D 1094	VW-15	15	1.38	1.24	1.15	1.04	.92
46 D 1095	VW-20	20	1.38	1.24	1.15	1.04	.92
46 D 1096	VW-25	25	1.38	1.24	1.15	1.04	.92
46 D 1097	VW-30	30	1.38	1.24	1.15	1.04	.92
46 D 1098	VW-40	40	1.38	1.24	1.15	1.04	.92
46 D 1099	VW-50	50	1.38	1.24	1.15	1.04	.92
46 D 1100	VW-60	60	1.38	1.24	1.15	1.04	.92
46 D 1102	VW-100	100	1.38	1.24	1.15	1.04	.92
46 D 1103	VW-200	200	1.38	1.24	1.15	1.04	.92
46 D 1104	VW-250	250	1.38	1.24	1.15	1.04	.92
46 D 1105	VW-300	300	1.38	1.24	1.15	1.04	.92
46 D 1106	VW-400	400	1.38	1.24	1.15	1.04	.92
46 D 1107	VW-500	500	1.38	1.24	1.15	1.04	.92
46 D 1110	VW-1K	1000	1.38	1.24	1.15	1.04	.92
46 D 1111	VW-1P5K	1500	1.44	1.30	1.20	1.08	.96
46 D 1112	VW-2K	2000	1.44	1.30	1.20	1.08	.96
46 D 1113	VW-2P5K	2500	1.44	1.30	1.20	1.08	.96
46 D 1114	VW-3K	3000	1.44	1.30	1.20	1.08	.96
46 D 1115	VW-4K	4000	1.44	1.30	1.20	1.08	.96
46 D 1116	VW-5K	5000	1.44	1.30	1.20	1.08	.96
46 D 1118	4W-10K	10K	1.50	1.35	1.25	1.13	1.00
46 D 1119	VW-15K	15K	1.56	1.40	1.30	1.17	1.04
46 D 1120	VW-20K	20K	1.56	1.40	1.30	1.17	1.04
46 D 1121	VW-25K	25K	1.65	1.49	1.38	1.24	1.10

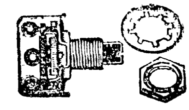
TYPE TSA-10 THEATER SPEAKER CONTROL



Rugged speaker control especially designed for drive-in theaters. Completely weatherproofed to withstand severe climatic conditions. Unit is L-pad type; has durable steel construction. Has 10-ohm input impedance; 4-ohm output impedance. With 1 1⁄16" diameter case, 1⁄2" long shaft. Supplied with mounting nut. Av. shpg. wt., 4 oz.

46 D 3847. 1-9........Each 1.35 10-24............Each 1.26
25-49.. ....Each 1.13 50-99............Each 1.02
100-249...............Each .97 250-499..........Each .90

INSULATED SHAFT MIDGETROLS



For use as exact replacements in television sets and special applications. Have 5⁄8" long x 1⁄4" dia. fixed, knurled and slotted phenolic shaft extending 1⁄4" beyond bushing. 15⁄16" dia. Rated 1⁄2-watt. Linear taper. With washer and nut. Av. shpg. wt., 4 oz.

Stock No.	Type	Ohms	Stock No.	Type	Ohms
46 D 3646	SU-6	1500	46 D 3813	SU-41	100K
46 D 3647	SU-8	3000	46 D 3828	SU-46	250K
46 D 3832	SU-14	5000	46 D 3814	SU-50	500K
46 D 3826	SU-20	10K	46 D 3829	SU-54	1 meg
46 D 3812	SU-29	25K	46 D 3815	SU-67	5 meg
46 D 3827	SU-35	50K	....	....	....

1-24.......Each .93 25-49.......Each .84 50-99......Each .78
100-174....Each .70 175-299.....Each .66 300-499.....Each .62

SWITCHES FOR MIDGETROLS (EXCEPT SERIES SU)

"Push-on, stay-on" switches for Midgetrols.

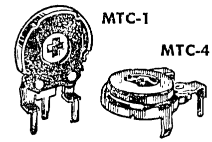
46 D 3620. US-26 SPST Switch. 1-24....................Each .42
25-49......Each .38 50-99......Each .35 100-174.....Each .32
175-299................Each .30 300-499.............Each .28

46 D 3622. US-27 DPST Switch. 1-24....................Each .51
25-49......Each .46 50-99......Each .43 100-174.....Each .38
175-299..............Each .36 300-499.............Each .34

46 D 3623. US-28 SPDT Switch. 1-24....................Each .51
25-49......Each .46 50-99......Each .43 100-174.....Each .38
175-299..............Each .36 300-499...............Each .34

Type USB-29 Circuit Breaker. A high-quality combination AC line switch (SPST) and circuit breaker for TV, radio, etc. Carries 1.6 amps, breaks at 2.5 amps. Resets by turning to "OFF" position. Fits all Mallory U type controls.
46 D 3791...Each .98

MINIATURE TRIMMER CONTROLS



Miniature 1⁄4-watt trimmers designed especially for printed circuitry. Can be used in transistorized or tube circuits—wherever an occasionally adjusted, variable resistance is needed. Have flush, open, crossed slot; adjustments can be made with either blade or Phillips type screwdriver. All have linear taper; 270° rotation; 500 v. max. rating. All are 9⁄16" dia. In 2 types—vertical or horizontal mounting—**specify type wanted. See table "B" below for resistance values.** 3 oz.

Type MTC-1. Terminals arranged for stand-up, vertical mounting.
46 D 3673 C. 1-24..Each .39 25-49...Each .35 50-99...Each .33
100-299..........Each .29 300-499..................Each .26

Type MTC-4. Terminals arranged for flat, horizontal mounting.
46 D 3674 C. 1-24..Each .39 25-49....Each .35 50-99...Each .33
100-299..........Each .29 300-499...................Each .26

TABLE "B"—RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs
100	300	1000	3000	6800	20K	100K	250K	500K	3.5
200	500	1500	5000	10K	25K	120K	325K	1 meg	...
250	750	2000	6000	15K	50K	180K	450K	2 meg	...

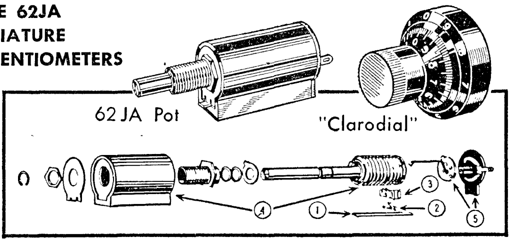
TYPE R 3-WATT WIREWOUND CONTROLS

Three-watt wirewound potentiometers. Excellent for use as voltage dividers and bias controls. Insulated-contact arm type, linear taper. Special dual-contactor mechanism. 900 volts AC insulation between resistance element and chassis. 297° rotation. Taper 4. 125⁄64" dia. All units have thumb knurled, screwdriver-slotted stub shaft. All have 3⁄8" bushing. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-99	100-249	250-499
46 D 3835	R20L	20	.93	.84	.78	.70	.62
46 D 3837	R25L	25	.93	.84	.78	.70	.62
46 D 3838	R30L	30	.93	.84	.78	.70	.62
46 D 3840	R50L	50	.93	.84	.78	.70	.62
46 D 3864	R100L	100	.93	.84	.78	.70	.62
46 D 3841	R205L	250	.93	.84	.78	.70	.62
46 D 3834	R500L	500	.93	.84	.78	.70	.62
46 D 3842	R1000L	1000	.93	.84	.78	.70	.62
46 D 3843	R1500L	1500	.93	.84	.78	.70	.62
46 D 3844	R2500L	2500	.93	.84	.78	.70	.62
46 D 3846	R3000L	3000	.93	.84	.78	.70	.62
46 D 3845	R5000L	5000	.93	.84	.78	.70	.62
46 D 3693	R10ML	10K	1.08	.97	.90	.81	.72
46 D 3695	R20ML	20K	1.08	.97	.90	.81	.72

Clarostat Potentiometers and Controls

TYPE 62JA MINIATURE POTENTIOMETERS



Extra quality features diagrammed above:

- (1) Collector rail of gold-plated alloy
- (2) High conductivity, low noise contact
- (3) 4-finger carrier reduces wobble
- (4) Tough, thermal plastic construction for Case, Contact Carrier and Drum
- (5) Slip rings have 2 contact fingers at 180° position for positive contact

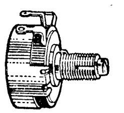
Accurate 10-turn pots with resistance tolerance of ±5%. High power rating in a miniature size—2 watts @ 25°C. Have dielectric strength of 1000 volts RMS with absolute linearity of ±0.25%; except 100, 200 and 250 ohms, ±0.5%. Overall length, $2\frac{11}{16}$", with $\frac{3}{8}$" mtg. bushing $\frac{3}{8}$-32 threaded. Shafts are $\frac{1}{4}$" dia. x $\frac{9}{16}$" long, fit Clarodials, below. Shpg. wt., $3\frac{1}{2}$ oz.

Stock No.	Mfr's Type	Resistances (Ohms) Specify When Ordering	EACH 1-9	10-24	25-99	100-499
46 D 7102 C	62JA	100, 200, 250, 500, 1000, 2000, 5000, 10K, 20K, 30K, 50K, 100K	7.50	6.50	6.00	5.50

CLARODIALS. For 62JA above. $\frac{5}{8}$" knob, 1" dial. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-99
46 D 7104	411	Black, no lock	7.75	7.30	6.95
46 D 7105	412	Black, with lock	8.95	8.50	8.05
46 D 7106	461	Clear, no lock	8.25	7.80	7.40
46 D 7107	462	Clear, with lock	9.45	8.95	8.50

TYPE 43C2 2-WATT WIREWOUND POTENTIOMETERS



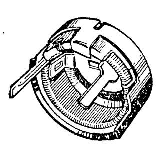
Available in a wide range of resistances. Have corrosion-proof finish, moisture and dust-proof construction. Resistance tolerance is ±5%. Linearity is ±2%. Require $1\frac{5}{32}$" O.D.; $\frac{5}{8}$" depth behind mounting surface. With $\frac{1}{4}$" slotted shaft and $\frac{3}{8}$" dia., $\frac{1}{2}$" long locking bushing. Shpg. wt., 5 oz.

TABLE "A" RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms
5	75	400	2000	10K
10	100	500	2500	15K
20	150	750	3000	20K
25	200	1000	4000	25K
50	300	1500	5000	50K

Stock No.	Mfr's Type	Resistances Available (See Table "A" Above)	EACH
46 D 3492 C	43C2	5 ohms to 10K ohms	2.25
46 D 3493 C	43C2	15K to 25K ohms	2.55
46 D 3494	43C2	50K ohms	3.00

SERIES U39 "HUMDINGER" CONTROLS



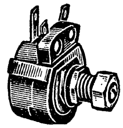
Versatile 2-watt wirewound controls for above-chassis or printed-circuit board mounting. All have linear taper. Resistance tolerance is ±20%. Have no shafts, slot is provided for screwdriver adjustment. $\frac{3}{4}$" diameter; $1\frac{1}{4}$" long; 1" mtg. centers. With insulated mounting plate. Shpg. wt., 2 oz.

TABLE "B" RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	75	150	500	700	1500	4000
8	100	200	600	800	2000	5000
50	125	300	650	1000	3000	

Stock No.	Mfr's Type	Ohms (See Table "B" Above)	EACH
46 D 7970 C	U39	5 to 5000	.60

TYPE 48M-9 MINIATURE 0.2 WATT COMPOSITION POTENTIOMETERS



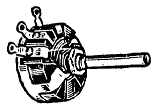
Compact composition-element potentiometers. Equipped with split locking bushing to permit fixed setting when used in bias supplies, voltage dividers, or test equipment. Mechanical and electrical rotation is 300°. Tolerance is ±10% except * ±20%. All have linear taper. Power rating is 0.2 watt. Insulation (terminals to ground) 1000 v. AC. Threaded locking bushing $\frac{1}{4}$x$\frac{3}{8}$" long. $\frac{1}{8}$" dia. slotted shaft. $1\frac{5}{32}$x$\frac{5}{8}$" dia. body. Shpg. wt., 5 oz.

TABLE "C" RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1000	10K	25K	50K	100K	500K*

Stock No.	Mfr's Type	Ohms (See Table "C" Above)	EACH 1-9	10-24	25-49	50-99	100-249
46 D 7243 C	48M-9	1000 to 500K	4.90	3.68	3.15	2.63	2.28

TYPE 58 4-WATT WIREWOUND CONTROLS



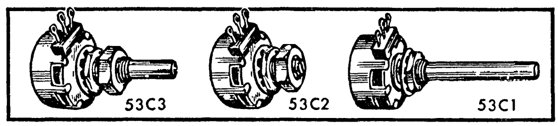
Designed to provide extremely smooth, quiet operation as voltage dividers, bias controls, etc. Have linear windings; resistance tolerance of ±10%. Insulation tested to 1000 v. A.C. Control size: $2\frac{5}{32}$x$1\frac{21}{32}$" dia. Shaft size: 2"x$\frac{1}{4}$" dia. Molded phenolic body. Shpg. wt., 4 oz.

TABLE "D" RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	15	50	300	2000	20K	40K
4	20	100	500	5000	25K	50K
10	30	200	1000	10K	30K	....

Stock No.	Mfr's Type	Resistances Available (See Table "D" Above)	EACH
46 D 7120 C	58	1 ohm to 10K	.93
46 D 7121 C	58	20K; 25K	1.20
46 D 7122 C	58	30K; 40K; 50K	1.62

2-WATT MOLDED COMPOSITION POTS



Molded composition element controls are totally enclosed and sealed against moisture. Type 53C3 has $\frac{7}{8}$" long by $\frac{1}{4}$" diameter round shaft FMS; $\frac{3}{8}$" long bushing with $\frac{3}{8}$-32-NEF-2 thread. Type 53C2 has $\frac{1}{8}$" by $\frac{1}{4}$" diameter screwdriver slotted shaft with $\frac{1}{2}$" long locking bushing. Type 53C1 has $1\frac{5}{8}$" long by $\frac{1}{4}$" diameter round shaft beyond bushing; $\frac{3}{8}$" long bushing with $\frac{3}{8}$-32-NEF-2 thread. Tolerance: plus or minus 10% to 1 megohm; plus or minus 20% above 1 megohm. Linear taper. Size, $\frac{9}{16}$x$1\frac{1}{16}$" diameter. Both types 53C2 and 53C3 are fabricated in accordance with government specifications MIL-R-94 Style RV4. Shpg. wt., 4 oz.

TABLE "E" RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Meg
50	500	2000	10K	50K	200K	750K	3
100	1000	2500	20K	100K	250K	1 meg	5
250	....	5000	25K	150K	500K	2 meg	10

Stock No.	Mfr's Type	Ohms (See Table "E" Above)	EACH 1-34	35-49	50-64	65-99	100-249
46 D7110C	53C1	50 ohms to 10 meg	1.75	1.60	1.55	1.50	1.25
46 D7115C	53C2	50 ohms to 10 meg	2.05	1.90	1.79	1.58	1.33
46 D7116C	53C3	50 ohms to 10 meg	1.75	1.60	1.55	1.50	1.25

Specify Manufacturer's Type Number and Ohms When Ordering Controls

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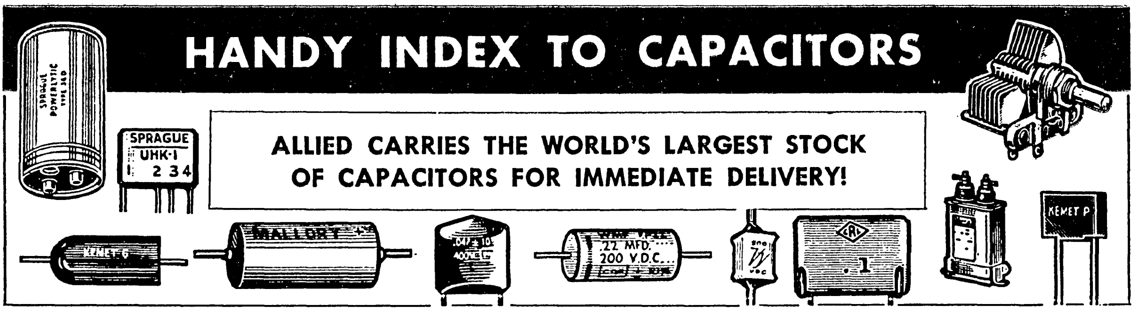

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MANUFACTURERS INDEX—with OEM Quantities and Page References

Manufacturer and Type	OEM Prices To	Page
ARCO-ELMENCO		
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DM	4999	183
SCDM	4999	183
CAPACITOR HARDWARE	1000-up	170
CENTRALAB		
CE	999	178
CF	999	178
CK	999	178
CV11 (825)	249	179
DA	999	178
DD	4999	178
DD16	999	178
DD30	999	178
DD60	999	178
DDA	999	178
DDK-200	Each	178
DF	999	178
FT, MFT	999	179
UK	999	179
820, 822, 823, 827	249	179
825 (CV11)	249	179
829	999	179
850-858	249	179
4-Stage Amplifier	Each	179
CORNELL-DUBILIER		
BBR, BBRD	999	172
BBRQ, BBRT, BR	999	172
CD (6, 7, 10, 15)	999	177
CD (19, 30, 43)	999	177
CM (05, 06, 07, 08)	999	177
CP70 (T Series)	999	175
CP70 Brackets	Each	175
DMF	999	173
DPMS	999	173
DYR	499	175
IF Filters	Each	175
MFP	999	174
MMW	999	176
MPY	999	176
NLW	999	173
PKM	999	174
T, TJH, TJL, TJU, CP70	999	175
WMF	999	174
ELMENCO		
30 Padders		
40, 42, 46 Trimmers	999	187
GENERAL ELECTRIC		
23F	999	180
28F	999	181
64F	999	181
65F	999	180
74F	999	180
75F	999	180
76F	999	181
GOOD-ALL		
601PE	999	171
608	999	171
663F, X663F	999	171
663UW	999	171

Manufacturer and Type	OEM Prices To	Page
HAMMERLUND		
APC	Each	186
BFC	Each	186
HF, HFA	Each	186
MAC	Each	186
MAPC	Each	186
MC, MCD	Each	186
RMC	Each	186
JFD ELECTRONICS		
DVO1	999	185
LC	299	185
MC	499	184
MT	499	185
NMC, NMQ	499	184
NQS, NSC	499	184
NVC	499	184
PC35H	299	185
SC	499	184
UY Series	999	185
VAM	499	185
VC	499	184
VC900	499	185
Tuning Tools	Each	185
E. F. JOHNSON		
L-167	99	187
M-160	99	187
R-149	99	187
S-148	99	187
U-189	99	187
KEMET		
C-Series	999	158
CS12 ("J")	999	157
CS13 ("J")	999	156
J-Series (CS12, 13)	999	156,157
P-Series	999	158
Z-Series	999	157
MALLORY		
CG	99	169
CS13	999	155
FP	249	170
HC	249	169
MTA	1000-up	168
MTP, MTPH	999	155
NP	249	169
SX	1000-up	169
TPG	249	168
WP	249	170
NYTRONICS		
DC	499	176
HC	499	176
PLASTIC CAPACITORS, INC.		
EP	249	182
OF	249	182
RADIO CONDENSER	999	186,187
SPRAGUE		
AB	49	164
BL	999	166
C-751 Indicator	Each	167
CL25 (112D)	999	154
CP53	499	167

Manufacturer and Type	OEM Prices To	Page
SPRAGUE—(Cont'd)		
CS13 (150D)	999	152,153
EK-9 Kit	Each	164
FF-1	Each	162
HY	999	166
J-135	Each	167
Kits	Each	164
MB (160P)	499	160,161
PCL	249	162
PQ	Each	165
PS (220P)	499	
TE (30D)	499	162
TG, TH	999	166
TK Kits	Each	164
TL (31D)	249	164
TM (160P)	499	165
TR (160A)	499	165
TU, TVA, TVAN	499	159
TVL	249	160,161
TVM (160P)	499	165
3C, 4C, 5C	499	166
5GA, 5HK	999	166
10TCC, 10TCU	999	167
20DK, 30DK	Each	167
30D (TE)	499	162
30GA	999	166
31D (TL)	249	164
36D	99	163
39D	99	163
48P, 80P	Each	168
96P	999	167
112D (CL25)	999	154
118P	999	168
121P	999	167
150D (CS13)	999	152,153
155P, 156P	499	168
160P (MB, TM, TR, TVM)	499	165
162D	999	154
164D	999	154
192P	249	164
220P (PS)	499	165
225P	499	165
600D	999	161
VITRAMON		
CK (05, 06)	999	182
CY (13, 17, 22, 32)	999	182
VK (23, 33)	999	182

MILITARY TYPES AVAILABLE

Spec. MIL-	MIL Type	Page
C-5C	CM (05, 06, 07, 08)	177,183
C-25C	CP-53	167
	CP-70	175
C-81A	CV11	179
C-3965B	CL-25	154
C-11015/18/19	CK (05, 06)	182
C-11272B	CY (13C, 17C, 22C, 32C)	182
C-14409B	PC35H	182
C-26655B	CS12, CS13	152,153, 155
	CS13	156,157

SPRAGUE® THE MARK OF RELIABILITY

Polarized Solid Tantalums, 10% Tolerance

COMMERCIAL 150D AND MILITARY CS13 WITH PLASTIC INSULATING SLEEVE

Both types are *identical and interchangeable*, but Military Type has MIL-C-26655B marking

All capacitors on this page are subminiature, hermetically sealed units meeting MIL-C-26655B. All are interchangeable with, and superior to MIL-C-26655A. Life test: 2000 hours. Temperature range: —55 to +85°C. Tighter leakage current and dissipation-factor characteristics over MIL-C-26655A. High-frequency performance; impedance remains low above 1 mc. 2000-cycle vibration test and 50g shock test without any adverse effects. Withstand severe humidity. NOTE: CS12 with uninsulated bare can is available on Special Order in same values listed below; deduct 2c each, from prices shown. See facing page for note on ordering, and note on interchangeability of MIL-C-26655B and MIL-C-26655A. 1 oz. **For price and size, see Case Size (*), then refer to Price and Size Locator.**

EQUIVALENT TANTALUM CAPACITORS AVAILABLE. For listings of alternate 10%-tolerance tantalum capacitors *with* plastic sleeves, see page 156. For alternate 10%-tolerance tantalum capacitors *without* sleeves, see page 157 of this catalog.

PRICE AND SIZE LOCATOR

Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	9⁄64x5⁄16″	1.34	1.08	.75	.62	.53
B	9⁄64x5⁄16″	2.48	1.99	1.68	1.45	1.31
C	3⁄16x1⁄2″	1.57	1.27	.77	.64	.54
D	3⁄16x1⁄2″	2.62	2.10	1.77	1.52	1.39
E	9⁄32x3⁄4″	2.23	2.01	1.36	1.12	.94
F	9⁄32x3⁄4″	2.57	2.07	1.42	1.16	.98
G	9⁄32x3⁄4″	4.28	3.43	2.90	2.47	2.26
H	11⁄32x55⁄64″	4.50	3.56	2.34	1.91	1.60
J	11⁄32x55⁄64″	4.60	3.66	2.53	2.06	1.73
K	11⁄32x55⁄64″	4.75	3.81	2.81	2.29	1.91
L	11⁄32x55⁄64″	7.98	6.39	5.39	4.60	4.20

Commercial Type 150D Stk. No.	Type 150D-	Military CS13 Mil-C-26655B Stk. No.	Type CS13-	Mfd	WV DC	Case Size*
43 D 0026	472X9035A2			.0047	35	A
43 D 0027	562X9035A2			.0056	35	A
43 D 3315	103X9035A2			.01	35	A
43 D 3402	103X9050A2			.01	50	B
43 D 3316	153X9035A2			.015	35	A
43 D 3405	153X9050A2			.015	50	B
43 D 3317	223X9035A2			.022	35	A
43 D 3406	223X9050A2			.022	50	B
43 D 3318	333X9035A2			.033	35	A
43 D 3407	333X9050A2			.033	50	B
43 D 3319	393X9035A2			.039	35	A
43 D 3408	393X9050A2			.039	50	B
43 D 3320	473X9035A2			.047	35	A
43 D 0081	473X9050A2			.047	50	B
43 D 3321	563X9035A2			.056	35	A
43 D 3409	563X9050A2			.056	50	B
43 D 3322	683X9035A2			.068	35	A
43 D 3415	683X9050A2			.068	50	B
43 D 3416	823X9035A2			.082	35	A
43 D 3417	823X9050A2			.082	50	B
43 D 3323	104X9035A2			.1	35	A
43 D 4150	104X9050A2			.1	50	B
43 D 3324	124X9035A2			.12	35	A
43 D 3418	124X9050A2			.12	50	B
43 D 3325	154X9035A2			.15	35	A
43 D 0079	154X9050A2			.15	50	B
43 D 3326	184X9035A2			.18	35	A
43 D 0055	184X9050A2			.18	50	B
43 D 3327	224X9035A2			.22	35	A
43 D 4151	224X9050A2			.22	50	B
43 D 3328	274X9035A2			.27	35	A
43 D 3419	274X9050A2			.27	50	B
43 D 3329	334X9035A2	43 D 2500	BF334K	.33	35	A
43 D 4171	334X9050A2			.33	50	B
43 D 0029	394X9035A2	43 D 2501	BF394K	.39	35	A
43 D 0059	394X9050A2			.39	50	B
43 D 3330	474X9035A2	43 D 2502	BF474K	.47	35	A
43 D 4172	474X9050A2			.47	50	B
43 D 3331	564X9035A2	43 D 2503	BF564K	.56	35	A
43 D 3420	564X9050A2			.56	50	B
43 D 3332	684X9035A2	43 D 2504	BF684K	.68	35	A
43 D 3421	684X9050A2			.68	50	B
43 D 3333	824X9035A2	43 D 2505	BF824K	.82	35	A
43 D 0063	824X9050A2			.82	50	B
43 D 3334	105X9035A2	43 D 2506	BF105K	1.0	35	A
43 D 4173	105X9050A2	43 D 2507	BG105K	1.0	50	B
43 D 3335	125X9020A2	43 D 2508	BE125K	1.2	20	A
43 D 3336	125X9035B2	43 D 2509	BF125K	1.2	35	C
43 D 4174	125X9050B2	43 D 2510	BG125K	1.2	50	D
43 D 3422	155X9020A2	43 D 2511	BE155K	1.5	20	A
43 D 3337	155X9035B2	43 D 2512	BF155K	1.5	35	C
43 D 4175	155X9050B2	43 D 2513	BG155K	1.5	50	D
43 D 3423	185X9020A2	43 D 2514	BE185K	1.8	20	A
43 D 3338	185X9035B2	43 D 2515	BF185K	1.8	35	C
43 D 0067	185X9050B2	43 D 2516	BG185K	1.8	50	D
43 D 3339	225X9020A2	43 D 2518	BE225K	2.2	20	A
43 D 3340	225X9035B2	43 D 2519	BF225K	2.2	35	C
43 D 4176	225X9050B2	43 D 2520	BG225K	2.2	50	D
43 D 3424	275X9015A2	43 D 2521	BD275K	2.7	15	A
43 D 3341	275X9035B2	43 D 2523	BF275K	2.7	35	C
43 D 0069	275X9050B2	43 D 2524	BG275K	2.7	50	D
43 D 0013	335X9015A2	43 D 2525	BD335K	3.3	15	A

Commercial Type 150D Stk. No.	Type 150D-	Military CS13 Mil-C-26655B Stk. No.	Type CS13-	Mfd	WV DC	Case Size*
43 D 3342	335X9035B2	43 D 2526	BF335K	3.3	35	C
43 D 4177	335X9050B2	43 D 2527	BG335K	3.3	50	D
43 D 3343	395X9010A2	43 D 2528	BC395K	3.9	10	A
43 D 3344	395X9035B2	43 D 2529	BF395K	3.9	35	C
43 D 0071	395X9050B2	43 D 2531	BG395K	3.9	50	D
43 D 3345	475X9010A2	43 D 2532	BC475K	4.7	10	A
43 D 3346	475X9035B2	43 D 2533	BF475K	4.7	35	C
43 D 4185	475X9050B2	43 D 2534	BG475K	4.7	50	D
43 D 3429	565X9006A2	43 D 2536	BB565K	5.6	6	A
43 D 4152	565X9035B2	43 D 2537	BF565K	5.6	35	C
43 D 3432	565X9050R2	43 D 2538	BG565K	5.6	50	G
43 D 3347	685X9006A2	43 D 2539	BB685K	6.8	6	A
43 D 3348	685X9035B2	43 D 2541	BF685K	6.8	35	C
43 D 0080	685X9050R2	43 D 2542	BG685K	6.8	50	G
43 D 3437	825X9020B2	43 D 2543	BE825K	8.2	20	C
43 D 0030	825X9035R2	43 D 2545	BF825K	8.2	35	F
43 D 3438	825X9050R2	43 D 2546	BG825K	8.2	50	G
43 D 3349	106X9020B2	43 D 2547	BE106K	10.0	20	C
43 D 0031	106X9035R2	43 D 2548	BF106K	10.0	35	F
43 D 4186	106X9050R2	43 D 2550	BG106K	10.0	50	G
43 D 3350	126X9020B2	43 D 2551	BE126K	12.0	20	C
43 D 4153	126X9035R2	43 D 2552	BF126K	12.0	35	F
43 D 0077	126X9050R2	43 D 2553	BG126K	12.0	50	G
43 D 3351	156X9020B2	43 D 2554	BE156K	15.0	20	C
43 D 0033	156X9035R2	43 D 2555	BF156K	15.0	35	F
43 D 4187	156X9050R2	43 D 2556	BG156K	15.0	50	G
43 D 4154	186X9015B2	43 D 2557	BD186K	18.0	15	C
43 D 0034	186X9035R2	43 D 2558	BF186K	18.0	35	F
43 D 4188	186X9050R2	43 D 2559	BG186K	18.0	50	G
43 D 4155	226X9015B2	43 D 2560	BD226K	22.0	15	C
43 D 0035	226X9035R2	43 D 2561	BF226K	22.0	35	F
43 D 4189	226X9050S2	43 D 2562	BG226K	22.0	50	L
43 D 4156	276X9010B2	43 D 2563	BC276K	27.0	10	C
43 D 0018	276X9020R2	43 D 2564	BE276K	27.0	20	E
43 D 0036	276X9035S2	43 D 2565	BF276K	27.0	35	J
43 D 3440	336X9010B2	43 D 2566	BC336K	33.0	10	C
43 D 0019	336X9020R2	43 D 2567	BE336K	33.0	20	E
43 D 4160	336X9035S2	43 D 2568	BF336K	33.0	35	J
43 D 3353	396X9010B2	43 D 2569	BC396K	39.0	10	C
43 D 3444	396X9020R2	43 D 2570	BE396K	39.0	20	E
43 D 0038	396X9035S2	43 D 2571	BF396K	39.0	35	K
43 D 4163	476X9006B2	43 D 2572	BB476K	47.0	6	C
43 D 0021	476X9020R2	43 D 2573	BE476K	47.0	20	E
43 D 0039	476X9035S2	43 D 2574	BF476K	47.0	35	K
43 D 0000	566X9006B2	43 D 2575	BB566K	56.0	6	C
43 D 0014	566X9015R2	43 D 2576	BD566K	56.0	15	E
43 D 0022	566X9020S2	43 D 2577	BE566K	56.0	20	H
43 D 3445	686X9015R2	43 D 2578	BD686K	68.0	15	E
43 D 4164	686X9020S2	43 D 2579	BE686K	68.0	20	H
43 D 0008	826X9010R2	43 D 2580	BC826K	82.0	10	E
43 D 0024	826X9020S2	43 D 2581	BE826K	82.0	20	H
43 D 0009	107X9010R2	43 D 2582	BC107K	100.0	10	E
43 D 0025	107X9020S2	43 D 2583	BE107K	100.0	20	H
43 D 3446	127X9010R2	43 D 2584	BC127K	120.0	10	E
43 D 4165	127X9015S2	43 D 2585	BD127K	120.0	15	H
43 D 3447	157X9006R2	43 D 2586	BB157K	150.0	6	E
43 D 4166	157X9015S2	43 D 2587	BD157K	150.0	15	H
43 D 3448	187X9006R2	43 D 2588	BB187K	180.0	6	E
43 D 0011	187X9010S2	43 D 2589	BC187K	180.0	10	H
43 D 4168	227X9010S2	43 D 2590	BC227K	220.0	10	H
43 D 3449	277X9006S2	43 D 2591	BB277K	270.0	6	H
43 D 0006	337X9006S2	43 D 2592	BB337K	330.0	6	H

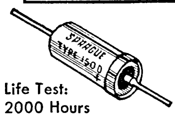
Specify Manufacturer's Type No. and Capacitance on Capacitor Orders

Polarized Solid Tantalums, 20% Tolerance

SPRAGUE® THE MARK OF RELIABILITY

COMMERCIAL 150D AND MILITARY CS13—PLASTIC INSULATING SLEEVE

Both are *identical and interchangeable,* but CS13 has MIL-C-26655B marking



Life Test: 2000 Hours

Subminiature, hermetically sealed MIL-C-26655B units. See facing page for specs and information on ordering CS12 uninsulated bare-can types. For price and size, see Case Size (*), then refer to Price and Size Locator.

USERS OF CS13 CHARACTERISTIC "A" TANTALUMS—TAKE NOTE

MIL-C-26655A and MIL-C-26655B capacitors are interchangeable per paragraph 6.8 of MIL-C-26655B. "Interchangeability—characteristic B capacitors of this specification shall unilaterally supersede and be acceptable alternates for characteristic A capacitors of specification MIL-C-26655A of equivalent capacitance, tolerance, and voltage ratings in the same case size."

NOTE ON ORDERING

Values listed below and on the facing page combine the highest voltages with smallest case sizes. For example, if you require a 6-volt, 0.33-mfd unit, it pays to order the 35-volt capacitor. You get added protection at no extra cost. Here's why. Both the 6-volt and the 35-volt units have the *same* case size. Since the *price is based on case size,* the price for both units is the same.

EQUIVALENT 10% TANTALUM CAPACITORS AVAILABLE, 3¢ EXTRA. See units with sleeves on pages 152 and 156. In selecting units rated from 6 through 35 volts, the difference in price between 10% types and 20% types is only 3¢.

PRICE AND SIZE LOCATOR

Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	9/64x5/16"	1.31	1.05	.72	.59	.50
B	9/64x5/16"	1.92	1.54	1.30	1.11	1.02
C	9/64x5/16"	2.87	2.30	1.94	1.66	1.52
D	9/64x5/16"	3.73	2.98	2.52	2.15	1.97
E	9/64x5/16"	4.10	3.28	2.77	2.36	2.17
F	3/16x1/2"	1.54	1.24	.74	.61	.51
G	3/16x1/2"	2.02	1.62	1.37	1.17	1.07
H	3/16x1/2"	3.02	2.42	2.05	1.75	1.60
J	3/16x1/2"	3.92	3.14	2.66	2.27	2.07
K	3/16x1/2"	4.31	3.45	2.93	2.50	2.28
L	9/32x3/4"	2.20	1.98	1.33	1.09	.91
M	9/32x3/4"	2.54	2.04	1.39	1.13	.95
N	9/32x3/4"	3.30	2.64	2.24	1.91	1.75
P	9/32x3/4"	4.94	3.95	3.35	2.86	2.62
R	9/32x3/4"	4.57	3.63	2.50	2.03	1.70
S	11/32x55/64"	4.47	3.53	2.31	1.88	1.57
T	11/32x55/64"	4.72	3.78	2.78	2.26	1.88
W	11/32x55/64"	6.14	4.92	4.16	3.54	3.24
X	11/32x55/64"	9.20	7.37	6.23	5.30	4.85

Commercial Type 150D Stock No.	Type 150D-	Military CS13 Mil-C-26655B Stk. No.	Type CS13-	Mfd	WV DC	Case Size*
43 D 3300	472X0035A2	....	....	.0047	35	A
43 D 4550	682X0035A2	....	....	.0068	35	A
43 D 3301	103X0035A2	....	....	.01	35	A
43 D 0040	103X0050A2	....	....	.01	50	B
43 D 3302	153X0035A2	....	....	.015	35	A
43 D 0042	153X0050A2	....	....	.015	50	B
43 D 3303	223X0035A2	....	....	.022	35	A
43 D 0044	223X0050A2	....	....	.022	50	B
43 D 3304	333X0035A2	....	....	.033	35	A
43 D 4551	333X0050A2	....	....	.033	50	B
43 D 3305	473X0035A2	....	....	.047	35	A
43 D 0048	473X0050A2	....	....	.047	50	B
43 D 4552	683X0035A2	....	....	.068	35	A
43 D 4553	683X0050A2	....	....	.068	50	B
43 D 3306	104X0035A2	....	....	.1	35	A
43 D 0052	104X0050A2	....	....	.1	50	B
43 D 4554	104X0075A2	43 D 2466	BH104M	.1	75	C
43 D 4555	104X0100A2	43 D 2469	BJ104M	.1	100	D
43 D 4556	104X0125A2	....	....	.1	125	E
43 D 3283	154X0035A2	....	....	.15	35	A
43 D 0054	154X0050A2	....	....	.15	50	B
43 D 4557	154X0075A2	43 D 2473	BH154M	.15	75	C
43 D 4558	154X0100A2	43 D 2475	BJ154M	.15	100	D
43 D 4559	154X0125A2	....	....	.15	125	E
43 D 3307	224X0035A2	....	....	.22	35	A
43 D 0056	224X0050A2	....	....	.22	50	B
43 D 4560	224X0075A2	43 D 2476	BH224M	.22	75	C
43 D 4561	224X0100A2	43 D 2478	BJ224M	.22	100	D
43 D 4562	224X0125A2	....	....	.22	125	E
43 D 3308	334X0035A2	43 D 2408	BF334M	.33	35	A
43 D 0058	334X0050A2	....	....	.33	50	B
43 D 4563	334X0075A2	43 D 2479	BH334M	.33	75	C
43 D 4564	334X0100A2	43 D 2480	BJ334M	.33	100	D
43 D 4565	334X0125A2	....	....	.33	125	E
43 D 3309	474X0035A2	43 D 2409	BF474M	.47	35	A
43 D 0060	474X0050A2	....	....	.47	50	B
43 D 4566	474X0075A2	43 D 2481	BH474M	.47	75	C
43 D 4567	474X0100A2	43 D 2483	BJ474M	.47	100	D
43 D 4568	474X0125B2	....	....	.47	125	K
43 D 3310	684X0035A2	43 D 2410	BF684M	.68	35	A
43 D 0062	684X0050A2	....	....	.68	50	B
43 D 4569	684X0075A2	43 D 2484	BH684M	.68	75	C
43 D 4570	684X0100B2	43 D 2485	BJ684M	.68	100	J
43 D 4571	684X0125B2	....	....	.68	125	K
43 D 3311	105X0035A2	43 D 2411	BF105M	1.0	35	A
43 D 0064	105X0050A2	43 D 2413	BG105M	1.0	50	B
43 D 4572	105X0075B2	43 D 2487	BH105M	1.0	75	H
43 D 4573	105X0100B2	43 D 2488	BJ105M	1.0	100	J
43 D 4574	105X0125B2	....	....	1.0	125	K
43 D 3295	155X0020A2	43 D 2414	BE155M	1.5	20	A
43 D 4575	155X0035B2	43 D 2415	BF155M	1.5	35	F
43 D 0066	155X0050B2	43 D 2416	BG155M	1.5	50	G
43 D 4576	155X0075B2	43 D 2491	BH155M	1.5	75	H
43 D 4577	155X0100B2	43 D 2494	BJ155M	1.5	100	J
43 D 4578	155X0125B2	....	....	1.5	125	K
43 D 3296	225X0020A2	43 D 2418	BE225M	2.2	20	A
43 D 3312	225X0035B2	43 D 2419	BF225M	2.2	35	F
43 D 0068	225X0050B2	43 D 2420	BG225M	2.2	50	G
43 D 4579	225X0075B2	43 D 2495	BH225M	2.2	75	H
43 D 4580	225X0100B2	43 D 2497	BJ225M	2.2	100	J
43 D 4581	225X0125B2	....	....	2.2	125	K
43 D 3293	335X0015A2	43 D 2421	BD335M	3.3	15	A
43 D 3313	335X0035B2	43 D 2422	BF335M	3.3	35	F
43 D 0070	335X0050B2	43 D 2423	BG335M	3.3	50	G
43 D 4582	335X0075B2	43 D 2498	BH335M	3.3	75	H
43 D 3290	475X0010A2	43 D 2424	BC475M	4.7	10	A
43 D 3314	475X0035B2	43 D 2426	BF475M	4.7	35	F
43 D 0072	475X0050B2	43 D 2427	BG475M	4.7	50	G
43 D 4583	475X0075R2	43 D 2499	BH475M	4.7	75	P
43 D 3288	685X0006A2	43 D 2428	BB685M	6.8	6	A
43 D 3284	685X0035B2	43 D 2429	BF685M	6.8	35	F
43 D 0074	685X0050R2	43 D 2430	BG685M	6.8	50	N
43 D 4584	685X0075R2	43 D 2597	BH685M	6.8	75	P
43 D 3298	106X0020B2	43 D 2431	BE106M	10	20	F
43 D 3285	106X0035R2	43 D 2432	BF106M	10	35	M
43 D 0076	106X0050R2	43 D 2433	BG106M	10	50	N
43 D 4585	106X0075R2	43 D 2598	BH106M	10	75	P
43 D 3299	156X0020B2	43 D 2434	BE156M	15	20	F
43 D 3286	156X0035R2	43 D 2435	BF156M	15	35	M
43 D 0078	156X0050R2	43 D 2436	BG156M	15	50	N
43 D 4586	156X0075S2	43 D 2599	BH156M	15	75	X
43 D 3294	226X0015B2	43 D 2437	BD226M	22	15	F
43 D 3287	226X0035R2	43 D 2438	BF226M	22	35	M
43 D 4587	226X0050S2	43 D 2440	BG226M	22	50	W
43 D 4588	336X0010B2	43 D 2443	BC376M	33	10	F
43 D 3281	336X0020R2	43 D 2445	BE336M	33	20	L
43 D 3352	336X0035S2	43 D 2446	BF336M	33	35	R
43 D 3276	476X0006B2	43 D 2447	BB476M	47	6	F
43 D 3282	476X0020R2	43 D 2448	BE476M	47	20	L
43 D 3354	476X0035S2	43 D 2450	BF476M	47	35	T
43 D 3289	606X0006B2	....	....	60	6	F
43 D 3280	686X0015R2	43 D 2451	BD686M	68	15	L
43 D 3355	686X0020S2	43 D 2454	BE686M	68	20	S
43 D 3278	107X0010R2	43 D 2457	BC107M	100	10	L
43 D 3356	107X0020S2	43 D 2458	BE107M	100	20	S
43 D 3279	127X0010R2	....	....	120	10	L
43 D 4590	157X0006R2	43 D 2460	BB157M	150	6	L
43 D 3357	157X0015S2	43 D 2462	BD157M	150	15	S
43 D 3277	187X0006T2	....	....	180	6	L
43 D 3358	227X0010S2	43 D 2463	BC227M	220	10	S
43 D 0004	227X0006S2	....	....	270	6	S
43 D 3359	337X0006S2	43 D 2464	BB337M	330	6	S

SPRAGUE
THE MARK OF RELIABILITY

Solid and Foil Tantalums

TYPE 164D POLARIZED SOLID TANTALUM CAPACITORS

Low-cost compact, metal-cased capacitors. Ideal for computers Excellent where hermetically-sealed, military quality units are not necessary. Plastic resin end-seal. Priced comparable to older style electrolytics. Have plastic insulating sleeves. Tolerance, ±10%. Operating temperature range, —80° to +85° C. Metal case provides excellent moisture protection. Voltage ratings from 6 through 50 WVDC. Av. shpg. wt., 2 oz.

164D PRICE AND SIZE LOCATOR (±10% Tolerance)

* Price Code	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	.135x.322″	1.15	.93	.65	.535	.458
B	.135x.322″	2.11	1.69	1.43	1.24	1.12
C	.185x.510″	1.42	1.15	.70	.581	.491
D	.185x.510″	2.36	1.89	1.60	1.37	1.25
E	.289x.722″	2.06	1.85	1.26	1.034	.869
F	.289x.722″	2.37	1.91	1.31	1.07	1.906
G	.289x.722″	3.94	3.16	2.67	2.27	2.08
H	.351x.822″	4.28	3.38	2.23	1.82	1.52
J	.351x.822″	4.37	3.48	2.41	1.96	1.65
K	.351x.822″	4.52	3.62	2.67	2.18	1.82
L	.351x.822″	7.58	6.07	5.12	4.37	3.99

Stock No.	Type 164D-	Mfd	WV DC	*
43 D 5618	472X9035A2	.0047	35	A
43 D 5619	472X9050A2	.0047	50	B
43 D 5620	682X9035A2	.0068	35	A
43 D 5621	682X9050A2	.0068	50	B
43 D 5622	103X9035A2	.01	35	A
43 D 5623	103X9050A2	.01	50	B
43 D 5624	153X9035A2	.015	35	A
43 D 5625	153X9050A2	.015	50	B
43 D 5626	223X9035A2	.022	35	A
43 D 5627	223X9050A2	.022	50	B
43 D 5628	333X9035A2	.033	35	A
43 D 5629	333X9050A2	.033	50	B
43 D 5630	473X9035A2	.047	35	A
43 D 5631	473X9050A2	.047	50	B
43 D 5632	683X9035A2	.068	35	A
43 D 5633	683X9050A2	.068	50	B
43 D 5634	104X9035A2	.1	35	A
43 D 5635	104X9050A2	.1	50	B
43 D 5636	154X9035A2	.15	35	A
43 D 5637	154X9050A2	.15	50	B
43 D 5638	224X9035A2	.22	35	A
43 D 5639	224X9050A2	.22	50	B
43 D 5640	334X9035A2	.33	35	A
43 D 5641	334X9050A2	.33	50	B
43 D 5642	474X9035A2	.47	35	A
43 D 5643	474X9050A2	.47	50	B
43 D 5644	684X9035A2	.68	35	A
43 D 5645	684X9050A2	.68	50	B

Stock No.	Type 164D-	Mfd	WV DC	*
43 D 5646	105X9035A2	1.0	35	A
43 D 5647	105X9050A2	1.0	50	B
43 D 5877	125X9020A2	1.2	20	A
43 D 5648	155X9020A2	1.5	20	A
43 D 5649	155X9035B2	1.5	35	C
43 D 5650	155X9050B2	1.5	50	D
43 D 5651	225X9020A2	2.2	20	A
43 D 5652	225X9035B2	2.2	35	C
43 D 5653	225X9050B2	2.2	50	D
43 D 5879	275X9015A2	2.7	15	A
43 D 5880	275X9035B2	2.7	35	C
43 D 5654	335X9015A2	3.3	15	A
43 D 5655	335X9035B2	3.3	35	C
43 D 5656	335X9050B2	3.3	50	D
43 D 5881	395X9010A2	3.9	10	A
43 D 5882	395X9035B2	3.9	35	C
43 D 5657	475X9010A2	4.7	10	A
43 D 5658	475X9035B2	4.7	35	C
43 D 5659	475X9050B2	4.7	50	D
43 D 5883	565X9006A2	5.6	6	A
43 D 5900	565X9035B2	5.6	35	C
43 D 5660	685X9006A2	6.8	6	A
43 D 5661	585X9035B2	6.8	35	C
43 D 5662	685X9050R2	6.8	50	G
43 D 5901	825X9020B2	8.2	20	C
43 D 5663	106X9020B2	10	20	C
43 D 5664	106X9035R2	10	35	F
43 D 5665	106X9050R2	10	50	G

Stock No.	Type 164D-	Mfd	WV DC	*
43 D 5909	126X9020B2	12	20	C
43 D 5666	156X9020B2	15	20	C
43 D 5667	156X9035R2	15	35	F
43 D 5668	156X9050R2	15	50	G
43 D 5975	186X9015B2	18	15	C
43 D 5669	226X9015B2	22	15	C
43 D 5679	226X9035R2	22	35	F
43 D 5680	226X9050S2	22	50	L
43 D 5976	276X9010B2	27	10	C
43 D 5681	336X9010B2	33	10	C
43 D 5682	336X9020R2	33	20	E
43 D 5684	336X9035S2	33	35	J
43 D 5977	396X9010B2	39	10	C
43 D 5686	476X9006B2	47	6	C
43 D 5687	476X9020R2	47	20	E
43 D 5690	476X9035S2	47	35	K
43 D 5978	566X9006B2	56	6	C
43 D 5979	566X9015R2	56	15	E
43 D 5691	686X9015R2	68	15	E
43 D 5692	686X9020S2	68	20	H
43 D 5693	107X9010R2	100	10	E
43 D 5694	107X9020S2	100	20	H
43 D 5980	127X9010R2	120	10	E
43 D 5695	157X9006R2	150	6	E
43 D 5696	157X9015S2	150	15	H
43 D 5982	187X9006R2	180	6	E
43 D 5698	227X9010S2	220	10	H
43 D 5699	337X9006S2	330	6	H

TYPE 162D MINIATURE POLARIZED TANTALUMS

Extremely small, solid-electrolyte tantalums for use on printed circuit wiring boards, in packaged circuit modules, and in applications where space is limited. Have plastic resin end-seal; plastic ins. sleeve. ±10% tol. —55° to +85°C, derating. Av., 2 oz.

Stock No.	Type 162D-	Mfd	WV DC	*
43 D 5830	333X9100AA2	.033	100	F
43 D 5831	683X9100AA2	.068	100	F
43 D 5833	104X9050AA2	.1	50	E
43 D 5834	154X9035AA2	.15	35	A
43 D 5835	474X9020AA2	.47	20	A
43 D 5837	684X9015AA2	.68	15	A
43 D 5839	105X9010AA2	1.0	10	A
43 D 5840	105X9020AB2	1.0	20	B
43 D 5841	225X9015AB2	2.2	15	B
43 D 5842	475X9020BA2	4 7	20	C
43 D 5843	685X9015BA2	6.8	15	C
43 D 5845	106X9010BA2	10	10	C
43 D 5847	156X9015CA2	15	15	D
43 D 5848	226X9010CA2	22	10	D
43 D 5849	476X9004CA2	47	4	D

162D AXIAL-LEAD PRICE AND SIZE LOCATOR

Price Code*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	.080x.135″	1.22	.72	.54	.500	.460
B	.080x.185″	1.22	.72	.54	.500	.460
C	.105x.265″	1.28	.76	.57	.524	.482
D	.145x.265″	1.40	.83	.62	.572	.526
E	.080x.135″	1.85	1.09	.82	.752	.692
F	.080x.135″	3.62	2.12	1.58	1.460	1.340

CL25 (TYPE 112D) TANTALEX® FOIL CAPACITORS

Polarized, etched-foil tantalum capacitors with virtually leakproof fluorocarbon end-seals. Designed for applications up to 150 volts in both military and industrial equipment. Feature high stability even at low operating temperatures. Operating temperature range is —50° to +85°C. Engineered to meet MIL-C-3965B specifications. Have floating design for higher insulation resistance, ultra-low leakage current, and longer service life. With tubular aluminum cases and outer plastic insulating sleeve. Av. shpg. wt., 2 oz.

CL25 (112D) PRICE AND SIZE LOCATOR

Price Code*	Diameter & Length	EACH 1-9	10-24	25-49	50-99	100-499	500-999
A	13/64x3/4″	4.24	3.37	2.46	1.74	1.23	.88
B	19/64x15/16″	7.59	4.98	3.84	2.74	1.91	1.50
C	25/64x1 1/2″	12.64	8.69	6.69	4.77	3.31	2.64
D	25/64x2 3/16″	20.59	14.15	10.87	7.74	5.35	4.69
E	25/64x2 13/16″	27.39	18.60	14.48	10.30	7.14	5.94

Stock No.	MIL CL25- / Type 112D-	Mfd	WVDC	Case Size*
43 D 4647	BQ010SP3 / 105C3150D1	1	150	A
43 D 4644	BN020SP3 / 205C3100D1	2	100	A
43 D 4639	BL030TP3 / 305C5075D1	3	75	A
43 D 4648	BQ040SP3 / 405C3150G1	4	150	B
43 D 4634	BJ4R5TP3 / 455C5050D1	4.5	50	A
43 D 2986	BH080UP3/ 805C7030D1	8	30	A
43 D 4645	BN080SP3 / 805C3100G1	8	100	B
43 D 2981	BG100UP3/ 106C7025D1	10	25	A
43 D 4640	BL120TP3 / 126C5075G1	12	75	B
43 D 2976	BE150UP3 / 156C7015D1	15	15	A
43 D 4635	BJ180TP3 / 186C5050G1	18	50	B
43 D 4646	BN250SP3 / 256C3100J1	25	100	C
43 D 4641	BL300TP3 / 306C5075J1	30	75	C
43 D 2998	BH320UP3/ 326C7030G1	32	30	B
43 D 2982	BG400UP3/ 406C7025G1	40	25	B

Stock No.	MIL CL25- / Type 112D-	Mfd	WVDC	Case Size*
43 D 2977	BE600UP3 / 606C7015G1	60	15	B
43 D 4636	BJ600TP3 / 606C5050J1	60	50	C
43 D 4642	BL700TP3 / 706C5075M1	70	75	D
43 D 4637	BJ101TP3 / 107C5050M1	100	50	D
43 D 4643	BL101TP3 / 107C5075P1	100	75	E
43 D 2999	BH111UP3/ 117C7030J1	110	30	C
43 D 2983	BG121UP3/ 127C7025J1	120	25	C
43 D 4638	BJ151TP3 / 157C5050P1	150	50	E
43 D 2978	BE201UP3 / 407C7015J1	200	15	C
43 D 3000	BH221UP3/ 227C7030M1	220	30	D
43 D 2984	BG251UP3/ 257C7025M1	250	25	D
43 D 3001	BH301UP3/ 307C7030P1	300	30	E
43 D 2985	BG351UP3/ 357C7025P1	350	25	E
43 D 2979	BE401UP3 / 407C7015M1	400	15	D
43 D 2980	BE581UP3 / 587C7015P1	580	15	E

Specify Manufacturer's Type No. and Capacitance on All Capacitor Orders

Solid Tantalum Capacitors

MALLORY

MILITARY CS13 TYPES—INSULATED—10% TOLERANCE

Subminiature, hermetically sealed units meeting MIL-C-26655B. Interchangeable with and unilaterally supersedes MIL-26655A types per paragraph 6.8 of MIL-26655B. Life test: 2000 hours. Temperature range: —55° to +85° C. High frequency performance; low impedance above 1 mc. Vibration test: 2000 cycles. Shock test: 50 g. Withstand severe humidity. **For price and size, see Case Size (*), then refer to Price and Size Locator Chart.**

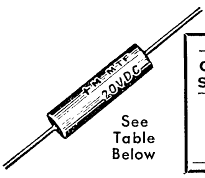
PRICE AND SIZE LOCATOR

Case Size*	Dia. x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	9/64x5/16″	1.34	1.07	.75	.62	.53
B	9/64x5/16″	2.47	1.99	1.68	1.45	1.31
C	3/16x1/2″	1.55	1.25	.77	.64	.54
D	3/16x1/2″	2.62	1.79	1.35	1.52	1.39
E	9/32x3/4″	2.23	2.01	1.36	1.12	.94
F	9/32x3/4″	2.55	2.05	1.42	1.16	.97
G	9/32x3/4″	4.27	3.42	2.90	2.47	2.26
H	11/32x55/64″	4.50	3.55	2.34	1.91	1.60
J	11/32x55/64″	4.55	3.65	2.53	2.05	1.73
K	11/32x55/64″	4.75	3.80	2.87	2.29	1.91
L	11/32x55/64″	7.97	6.37	5.37	4.60	4.20

EQUIVALENT TANTALUM CAPACITORS AVAILABLE. For listings of alternate 10%-tolerance tantalum capacitors with plastic sleeves, see page 156. For alternate 10%-tolerance tantalum capacitors without sleeves, see page 157.

Military CS13 Mil-C-26655B Stock No.	Type CS13-	Mfd	WV DC	Case Size*
43 D 5818	BF334K	.33	35	A
43 D 5819	BF394K	.39	35	A
43 D 5820	BF474K	.47	35	A
43 D 5821	BF564K	.56	35	A
43 D 5822	BF684K	.68	35	A
43 D 5823	BF824K	.82	35	A
43 D 5824	BF105K	1.0	35	A
43 D 6566	BG105K	1.0	50	B
43 D 5557	BE125K	1.2	20	A
43. D 5825	BF125K	1.2	35	C
43 D 6567	BG125K	1.2	50	D
43 D 5558	BE155K	1.5	20	A
43 D 5826	BF155K	1.5	35	C
43 D 6568	BG155K	1.5	50	D
43 D 5559	BE185K	1.8	20	A
43 D 5827	BF185K	1.8	35	C
43 D 6569	BG185K	1.8	50	D
43 D 5560	BE225K	2.2	20	A
43 D 5828	BF225K	2.2	35	C
43 D 6571	BG225K	2.2	50	D
43 D 5516	BD275K	2.7	15	A
43 D 5829	BF275K	2.7	35	C
43 D 6574	BG275K	2.7	50	D
43 D 5517	BD335K	3.3	15	A
43 D 5950	BF335K	3.3	35	C
43 D 6576	BG335K	3.3	50	D
43 D 5506	BC395K	3.9	10	A
43 D 5951	BF395K	3.9	35	C
43 D 6577	BG395K	3.9	50	D
43 D 5507	BC475K	4.7	10	A
43 D 5952	BF475K	4.7	35	C
43 D 6578	BG475K	4.7	50	D
43 D 5498	BB565K	5.6	6	A
43 D 5953	BF565K	5.6	35	C
43 D 6579	BG565K	5.6	50	G
43 D 5499	BB685K	6.8	6	A
43 D 5954	BF685K	6.8	35	C
43 D 6580	BG685K	6.8	50	G
43 D 5675	BE825K	8.2	20	C
43 D 5955	BF825K	8.2	35	F
43 D 6581	BG825K	8.2	50	G
43 D 5676	BE106K	10.0	20	C
43 D 5956	BF106K	10.0	35	F
43 D 6582	BG106K	10.0	50	G
43 D 5677	BE126K	12.0	20	C
43 D 5957	BF126K	12.0	35	F
43 D 6583	BG126K	12.0	50	G
43 D 5678	BE156K	15.0	20	C
43 D 5958	BF156K	15.0	35	F
43 D 6584	BG156K	15.0	50	G
43 D 5518	BD186K	18.0	15	C
43 D 5959	BF186K	18.0	35	F
43 D 6585	BG186K	18.0	50	G
43 D 5519	BD226K	22.0	15	C
43 D 5960	BF226K	22.0	35	F
43 D 6586	BG226K	22.0	50	L
43 D 5508	BC276K	27.0	10	C
43 D 5793	BE276K	27.0	20	E
43 D 5961	BF276K	27.0	35	J
43 D 5509	BC336K	33.0	10	C
43 D 5794	BE336K	33.0	20	E
43 D 5962	BF336K	33.0	35	J
43 D 5510	BC396K	39.0	10	C
43 D 5795	BE396K	39.0	20	E
43 D 5963	BF396K	39.0	35	K
43 D 5500	BB476K	47.0	6	C
43 D 5796	BE476K	47.0	20	E
43 D 5964	BF476K	47.0	35	K
43 D 5501	BB566K	56.0	6	C
43 D 5520	BD566K	56.0	15	E
43 D 5797	BE566K	56.0	20	H
43 D 5554	BD686K	68.0	15	E
43 D 5798	BE686K	68.0	20	H
43 D 5511	BC826K	82.0	10	E
43 D 5799	BE826K	82.0	20	H
43 D 5512	BC107K	100.0	10	E
43 D 5817	BE107K	100.0	20	H
43 D 5513	BC127K	120.0	10	E
43 D 5555	BD127K	120.0	15	H
43 D 5502	BB157K	150.0	6	E
43 D 5556	BD157K	150.0	15	H
43 D 5503	BB187K	180.0	6	E
43 D 5514	BC187K	180.0	10	H
43 D 5515	BC227K	220.0	10	H
43 D 5504	BB277K	270.0	6	H
43 D 5505	BB337K	330.0	6	H

MTP ULTRA-MINIATURE TANTALUM CAPACITORS



See Table Below

PRICE AND SIZE LOCATOR

Case Size*	Dia. x L.	EACH 1-9	10-24	25-49	50-99	100-499	500-999
D	.115 x .312″	2.57	2.26	1.97	1.69	1.35	1.23
A	.115 x .400″	2.59	2.28	1.99	1.71	1.37	1.25
B	.145 x .590″	3.11	2.74	2.39	2.06	1.64	1.51
C	.225 x .775″	3.62	3.18	2.78	2.39	1.91	1.75

Sintered tantalum anode, polar wet slug capacitors offer higher capacity-voltage product than ordinary wet slug, solid or foil tantalum capacitors. Meet MIL-STD-202 specifications for high-frequency vibration, shock, temperature cycling, moisture resistance, and sleeve strength. Low-profile geometry, with silver case, closed on elastomer end-seal. Insulated sleeve. Temperature range: —55° C to +85° C. Tolerance: ±20%. Maximum DC leakage, 2 μa at 25° C. Av. shpg. wt., 1 oz.

Stock No.	Type MTP-	Mfd	WV DC	Case Size*
43 D 0552	335M060P1D	3.3	60	D
43 D 0650	405M050P1	4	50	D
43 D 0553	475M035P1D	4.7	35	D
43 D 0559	475M060P1A	4.7	60	A
43 D 0651	605M030P1D	6	30	D
43 D 0561	685M020P1D	6.8	20	D
43 D 0652	685M050P1A	6.8	50	A
43 D 0563	685M060P1A	6.8	60	A
43 D 0577	106M010P1D	10	10	D
43 D 0653	106M030P1A	10	30	A
43 D 0654	106M035P1A	10	35	A
43 D 0578	106M060P1B	10	60	B
43 D 0579	156M006P1D	15	6	D
43 D 0581	156M020P1A	15	20	A
43 D 0582	156M060P1B	15	60	B
43 D 0600	226M015P1A	22	15	A
43 D 0655	226M060P1B	22	60	B
43 D 0656	306M050P1B	30	50	B
43 D 0602	336M010P1A	33	10	A
43 D 0657	336M050P1B	33	50	B
43 D 0603	336M060P1C	33	60	C
43 D 0658	456M030P1B	45	30	B
43 D 0605	476M006P1A	47	6	A
43 D 0607	476M020P1B	47	20	B
43 D 0608	476M060P1C	47	60	C
43 D 0659	606M020P1B	60	20	B
43 D 0609	686M015P1B	68	15	B
43 D 0610	686M050P1C	68	50	C
43 D 0660	786M050P1C	78	50	C
43 D 0661	806M015P1B	80	15	B
43 D 0662	107M010P1B	100	10	B
43 D 0663	107M035P1C	100	35	B
43 D 0664	127M010P1B	120	10	B
43 D 0613	157M006P1B	150	6	B
43 D 0614	157M020P1C	150	20	C
43 D 0665	127M030P1C	120	30	C
43 D 0666	187M006P1B	180	6	B
43 D 0667	207M015P1C	200	15	C
43 D 0668	227M015P1C	220	15	C
43 D 0669	307M010P1C	300	10	C
43 D 0616	337M010P1C	330	10	C
43 D 0670	457M006P1C	450	6	C
43 D 0618	477M006P1C	470	6	C

MTPH ULTRA-MINIATURES

Industrial equivalent of MTP types listed at left. Manufactured to rigid standards, with 0 failures in 3.7 million unit-hours of testing. Case sizes determine price, see below for price listings.

CASE SIZES

Case	Dia.	Length
A	.115″	.400″
B	.145″	.590″
C	.225″	.775″

Stock No.	Type	Mfd	WVDC	Size*
43 D 2619	MTPH1	6.8	50	A
43 D 2620	MTPH4	10	30	A
43 D 2622	MTPH2	30	50	B
43 D 2623	MTPH5	45	30	B
43 D 2624	MTPH7	60	20	B
43 D 2629	MTPH3	78	50	C
43 D 2630	MTPH8	80	15	B
43 D 2631	MTPH10	120	10	B
43 D 2632	MTPH6	120	30	C
43 D 2633	MTPH12	180	6	B
43 D 2634	MTPH11	300	10	C
43 D 2637	MTPH13	450	6	C

Case Size	EACH 1-9	10-24	25-49	50-99	100-499	500-999
A	7.68	6.40	5.12	3.84	3.33	2.81
B	8.04	6.70	5.36	4.02	3.49	2.94
C	8.34	6.95	5.56	4.17	3.62	3.06

All Mallory capacitors not listed in this Catalog are available from Allied at OEM prices. Contact the Allied facility nearest you for information.

KEMET Series "J" and CS13 Solid Tantalum—10% Tol.

The capacitors listed on this page have an insulating polyester sleeve and have the same specifications as shown for the bare can (uninsulated) units listed on facing page. All are hermetically sealed and polarized. CS13 (Military) meet MIL-C-26655B. Price of capacitor depends upon case size, see Price and Size Locator chart, below. Average shpg. wt., 2 oz.

For listing of equivalent 10% tolerance capacitors, see pages 152 and 155.

PRICE AND SIZE LOCATOR—POLARIZED SERIES "J" AND CS13 WITH INSULATING SLEEVE

Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999	Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	.135x.286″	1.34	1.08	.75	.62	.53	H	.185x.474″	5.09	4.08	3.45	2.95	2.70
B	.135x.286″	2.48	1.99	1.68	1.45	1.31	J	.289x.686″	2.57	2.07	1.42	1.16	.98
C	.135x.286″	3.73	2.99	2.51	2.15	1.97	K	.289x.686″	4.28	3.43	2.90	2.47	2.26
D	.135x.286″	4.84	3.88	3.26	2.79	2.56	L	.289x.686″	6.41	5.14	4.36	3.71	3.40
E	.185x.474″	1.57	1.27	.77	.64	.54	M	.351x.786″	4.75	3.81	2.81	2.29	1.91
F	.185x.474″	2.62	2.10	1.77	1.52	1.39	N	.351x.786″	7.98	6.39	5.39	4.60	4.20
G	.185x.474″	3.92	3.14	2.66	2.27	2.08	P	.351x.786″	11.96	9.58	8.09	6.89	6.31

Commercial J-Series Stk. No.	Type No.	Military (CS13) MIL-C-26655B Stk. No.	Type No.	Mfd	WV DC	Case Size*
43 D7107	KR0047J35KS			.0047	35	A
43 D7108	KR0047J50KS			.0047	50	B
43 D7111	KR0068J35KS			.0068	35	A
43 D7112	KR0068J50KS			.0068	50	B
43 D7115	KR01J35KS			.01	35	A
43 D7116	KR01J50KS			.01	50	B
43 D7151	KR01J100KS	43 D7991	BJ103K	.01	100	D
43 D7119	KR015J35KS			.015	35	A
43 D7120	KR015J50KS			.015	50	B
43 D7123	KR022J35KS			.022	35	A
43 D7124	KR022J50KS			.022	50	B
43 D7152	KR022J100KS	43 D7992	BJ223K	.022	100	D
43 D7127	KR033J35KS			.033	35	A
43 D7128	KR033J50KS			.033	50	B
43 D7131	KR047J35KS			.047	35	A
43 D7132	KR047J50KS			.047	50	B
43 D7135	KR068J35KS			.068	35	A
43 D7136	KR068J50KS			.068	50	B
43 D7139	KR1J35KS			.1	35	A
43 D7140	KR1J50KS			.1	50	B
43 D7141	KR1J75KS	43 D7993	BH104K	.10	75	C
43 D7142	KR1J100KS	43 D7994	BJ104K	.10	100	D
43 D7155	KR15J35KS			.15	35	A
43 D7156	KR15J50KS			.15	50	B
43 D7157	KR15J75KS	43 D7995	BH154K	.15	75	C
43 D7158	KR15J100KS	43 D7996	BJ154K	.15	100	D
43 D7171	KR22J35KS			.22	35	A
43 D7172	KR22J50KS			.22	50	B
43 D7173	KR22J75KS	43 D8000	BH224K	.22	75	C
43 D7174	KR22J100KS	43 D8001	BJ224K	.22	100	D
43 D7187	KR33J35KS	43 D8300	BF334K	.33	35	A
43 D7188	KR33J50KS			.33	50	B
43 D7189	KR33J75KS	43 D8002	BH334K	.33	75	C
43 D7190	KR33J100KS	43 D8003	BJ334K	.33	100	D
43 D7196	KR39J35KS	43 D8301	BF394K	.39	35	A
43 D7206	KR47J35KS	43 D8302	BF474K	.47	35	A
43 D7207	KR47J50KS			.47	50	B
43 D7208	KR47J75KS	43 D8004	BH474K	.47	75	C
43 D7210	KR47J100KS	43 D8005	BJ474K	.47	100	D
43 D7216	KR56J35KS	43 D8303	BF564K	.56	35	A
43 D7225	KR68J35KS	43 D8304	BF684K	.68	35	A
43 D7226	KR68J50KS			.68	50	B
43 D7227	KR68J75KS	43 D8006	BH684K	.68	75	C
43 D7228	KR68J100KS	43 D8007	BJ684K	.68	100	H
43 D7234	KR82J35KS	43 D8305	13BF824K	.82	35	A
43 D7252	K1J35KS	43 D8307	BF105K	1.0	35	A
43 D7253	K1J50KS	43 D8310	BG105K	1.0	50	B
43 D7254	K1J75KS	43 D8008	BH105K	1.0	75	G
43 D7255	K1J100KS	43 D8009	BJ105K	1.0	100	H
43 D7262	K1R2J20KS	43 D8311	BE125K	1.2	20	A
43 D7263	K1R2J35KS	43 D8312	BF125K	1.2	35	E
43 D7264	K1R2J50KS	43 D8313	BG125K	1.2	50	F
43 D7275	K1R5J20KS	43 D8314	BE155K	1.5	20	A
43 D7276	K1R5J35KS	43 D8315	BF155K	1.5	35	E
43 D7277	K1R5J50KS	43 D8316	BG155K	1.5	50	F
43 D7278	K1R5J75KS	43 D8010	BH155K	1.5	75	G
43 D7279	K1R5J100KS	43 D8011	BJ155K	1.5	100	H
43 D7288	K1R8J20KS	43 D8318	BE185K	1.8	20	A
43 D7289	K1R8J35KS	43 D8319	BF185K	1.8	35	E
43 D7290	K1R8J50KS	43 D8320	BG185K	1.8	50	F
43 D7301	K2R2J20KS	43 D8321	BE225K	2.2	20	A
43 D7302	K2R2K35KS	43 D8322	BF225K	2.2	35	E
43 D7303	K2R2J50KS	43 D8323	BG225K	2.2	50	F
43 D7304	K2R2J75KS	43 D8012	BH225K	2.2	75	G
43 D7305	K2R2J100KS	43 D8013	BJ225K	2.2	100	H
43 D7314	K2R7J15KS	43 D8324	BD275K	2.7	15	A
43 D7315	K2R7J35KS	43 D8325	BF275K	2.7	35	E
43 D7316	K2R7J50KS	43 D8326	BG275K	2.7	50	F

Commercial J-Series Stk. No.	Type No.	Military (CS13) MIL-C-26655B Stk. No.	Type No.	Mfd	WV DC	Case Size*
43 D7328	K3R3J15KS	43 D8327	BD335K	3.3	15	A
43 D7329	K3R3J35KS	43 D8328	BF335K	3.3	35	E
43 D7330	K3R3J50KS	43 D8329	BG335K	3.3	50	F
43 D7331	K3R3J75KS	43 D8014	BH335K	3.3	75	G
43 D7341	K3R9J10KS	43 D8330	BC395K	3.9	10	A
43 D7342	K3R9J35KS	43 D8331	BF395K	3.9	35	E
43 D7343	K3R9J50KS	43 D8332	BG395K	3.9	50	F
43 D7354	K4R7J10KS	43 D8333	BC475K	4.7	10	A
43 D7355	K4R7J35KS	43 D8334	BF475K	4.7	35	E
43 D7356	K4R7J50KS	43 D8335	BG475K	4.7	50	F
43 D7357	K4R7J75KS	43 D8015	BH475K	4.7	75	L
43 D7367	K5R6J6KS	43 D8336	BB565K	5.6	6	A
43 D7368	K5R6J35KS	43 D8339	BF565K	5.6	35	E
43 D7369	K5R6J50KS	43 D8340	BF565K	5.6	50	K
43 D7380	K6R8J6KS	43 D8341	BB685K	6.8	6	A
43 D7381	K6R8J35KS	43 D8345	BF685K	6.8	35	E
43 D7382	K6R8J50KS	43 D8346	BG685K	6.8	50	K
43 D7383	K6R8J75KS	43 D8016	BH685K	6.8	75	L
43 D7394	K8R2J20KS	43 D8347	BE825K	8.2	20	E
43 D7395	K8R2J35KS	43 D8348	BF825K	8.2	35	J
43 D7396	K8R2J50KS	43 D8349	BG825K	8.2	50	K
43 D7650	K10J20KS	43 D8350	BE106K	10	20	E
43 D7651	K10J35KS	43 D8351	BF106K	10	35	J
43 D7652	K10J50KS	43 D8352	BG106K	10	50	K
43 D7653	K10J75KS	43 D8017	BH016K	10	75	L
43 D7663	K12J20KS	43 D8353	BE126K	12	50	E
43 D7664	K12J35KS	43 D8354	BF126K	12	35	J
43 D7665	K12J50KS	43 D8355	BG126K	12	50	K
43 D7677	K15J20KS	43 D8356	BE156K	15	20	E
43 D7678	K15J35KS	43 D8357	BF156K	15	35	J
43 D7679	K15J50KS	43 D8358	BG156K	15	50	K
43 D7680	K15J75KS	43 D8021	BH156K	15	75	P
43 D7691	K18J15KS	43 D8359	BD186K	18	15	E
43 D7692	K18J35KS	43 D8360	BF186K	18	35	J
43 D7693	K18J50KS	43 D8361	BG186K	18	50	K
43 D7704	K22J15KS	43 D8362	BD226K	22	15	E
43 D7706	K22J35KS	43 D8363	BF226K	22	35	J
43 D7707	K22J50KS	43 D8364	BF226K	22	50	N
43 D7718	K27J10KS	43 D8365	BC276K	27	10	E
43 D7719	K27J20KS	43 D8366	BE276K	27	20	J
43 D7720	K27J35KS	43 D8367	BF276K	27	35	M
43 D7729	K33J10KS	43 D8368	BC336K	33	10	E
43 D7730	K33J20KS	43 D8369	BE336K	33	20	J
43 D7731	K33J35KS	43 D8370	BF336K	33	35	M
43 D7740	K39J10KS	43 D8371	BC396K	39	10	E
43 D7741	K39J20KS	43 D8372	BE396K	39	20	J
43 D7742	K39J35KS	43 D8373	BF396K	39	35	M
43 D7751	K47J6KS	43 D8374	BB476K	47	6	E
43 D7752	K47J20KS	43 D8375	BE476K	47	20	J
43 D7753	K47J35KS	43 D8376	BF476K	47	35	M
43 D7762	K56J6KS	43 D8377	BB566K	56	6	E
43 D7763	K56J15KS	43 D8378	BD566K	56	15	J
43 D7764	K56J20KS	43 D8379	BE566K	56	20	M
43 D7773	K68J15KS	43 D8380	BD686K	68	15	J
43 D7774	K68J20KS	43 D8381	BE686K	68	20	M
43 D7781	K82J10KS	43 D8383	BC826K	82	10	J
43 D7782	K82J20KS	43 D8383	BE826K	82	20	M
43 D7788	K100J10KS	43 D8384	BC107K	100	10	J
43 D7789	K100J20KS	43 D8385	BE107K	100	20	M
43 D7795	K120J10KS	43 D8386	BC127K	120	10	J
43 D7796	K120J15KS	43 D8387	BD127K	120	15	M
43 D7802	K150J6KS	43 D8388	BB157K	150	6	J
43 D7803	K150J15KS	43 D8389	BD157K	150	15	M
43 D7812	K180J6KS	43 D8391	BB187K	180	6	J
43 D7813	K180J10KS	43 D8394	BC187K	180	10	M
43 D7819	K220J10KS	43 D8395	BC227K	220	10	M
43 D7824	K270J6KS	43 D8399	BB277K	270	6	M
43 D7827	K330J6KS	43 D8400	BB337K	330	6	M

Polarized Solid Tantalum Capacitors

KEMET

10% TOLERANCE J-SERIES AND IDENTICAL MILITARY CS12 IN UNINSULATED CAN

Subminiature, hermetically sealed units meet MIL-C-26655B. Both types identical, but military has MIL marking and is interchangeable with and superior to MIL-C-26655A per Par. 6.8 of MIL-C-26655B. Life test: 2000 hours. Tighter leakage current and dissipation factor over MIL-C-26655A. Low impedance above 1 mc. 2000-cycle vibration test; 50g shock test. Withstand severe humidity —55° to 85° C. Values listed below and on the facing page combine highest voltages with smallest case size. This provides added protection at no extra cost: because size determines cost. Thus 6 and 35-volt units (same size) are same price.

For listing of equivalent 10% tolerance tantalum capacitors with plastic sleeves, see pages 152, 155 and 156.

PRICE AND SIZE LOCATOR—BARE CAN (UNINSULATED) J-SERIES AND CS12

Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999	Case Size*	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	.125x.250″	1.35	1.09	.96	.79	.64	F	.175x.438″	2.55	2.05	1.40	1.14	.96
B	.125x.250″	1.32	1.06	.73	.60	.51	G	.279x.650″	4.26	3.41	2.88	2.45	2.24
C	.125x.250″	2.46	1.97	1.66	1.43	1.29	H	.341x.750″	4.73	3.79	2.79	2.27	1.89
D	.175x.438″	1.55	1.25	.75	.62	.52	J	.341x.750″	7.96	6.37	5.37	4.58	4.18
E	.175x.438″	2.60	2.08	1.75	1.50	1.37							

Commercial J-Series Stk. No.	Type No.	Military CS12 MIL-26655B Stk No.	Type CS12	Mfd	WV DC	Case Size*
43 D 7501	KR0047J35K	....	....	.0047	35	A
43 D 7506	KR0047J50K	....	....	.0047	50	C
43 D 7509	KR0068J35K	....	....	.0068	35	A
43 D 7520	KR0068J50K	....	....	.0068	50	C
43 D 7521	KR01J35K	....	....	.01	35	A
43 D 7522	KR01J50K	....	....	.01	50	C
43 D 7523	KR015J35K	....	....	.015	35	A
43 D 7524	KR015J50K	....	....	.015	50	C
43 D 7525	KR022J35K	....	....	.022	35	A
43 D 7526	KR022J50K	....	....	.022	50	C
43 D 7527	KR033J35K	....	....	.033	35	B
43 D 7528	KR033J50K	....	....	.033	50	C
43 D 7529	KR047J35K	....	....	.047	35	B
43 D 7530	KR047J50K	....	....	.047	50	C
43 D 7533	KR068J35K	....	....	.068	35	B
43 D 7534	KR068J50K	....	....	.068	50	C
43 D 7535	KR1J35K	....	....	.1	35	B
43 D 7536	KR1J50K	....	....	.1	50	C
43 D 7537	KR15J35K	....	....	.15	35	B
43 D 7538	KR15J50K	....	....	.15	50	C
43 D 7539	KR22J35K	....	....	.22	35	B
43 D 7540	KR22J50K	....	....	.22	50	C
43 D 7541	KR33J35K	43 D 8500	BF834K	.33	35	B
43 D 7542	KR33J50K	....	....	.33	50	C
43 D 7543	KR47J35K	43 D 8501	BF474K	.47	35	B
43 D 7544	KR47J50K	....	....	.47	50	C
43 D 7545	KR68J35K	43 D 8502	BF684K	.68	35	B
43 D 7546	KR68J50K	....	....	.68	50	C
43 D 7547	K1J35K	43 D 8503	BF105K	1.0	35	B
43 D 7548	K1J50K	43 D 8504	BG105K	1.0	50	C
43 D 7550	K1R5J20K	43 D 8505	BE155K	1.5	20	B
43 D 7551	K1R5J35K	43 D 8506	BF155K	1.5	35	D
43 D 7552	K1R5J50K	43 D 8507	BG155K	1.5	50	E
43 D 7553	K2R2J20K	43 D 8508	BE225K	2.2	20	B
43 D 7554	K2R2J35K	43 D 8509	BF225K	2.2	35	D
43 D 7555	K2R2J50K	43 D 8510	BG225K	2.2	50	E
43 D 7556	K3R3J15K	43 D 8511	BD335K	3.3	15	B

Commercial J-Series Stk. No.	Type No.	Military CS12 MIL-C-26655B Stk. No.	Type CS12	Mfd	WV DC	Case Size*
43 D 7557	K3R3J35K	43 D 8512	BF335K	3.3	35	D
43 D 7558	K3R3J50K	43 D 8513	BG335K	3.3	50	E
43 D 7559	K4R7J10K	43 D 8514	BG475K	4.7	10	B
43 D 7560	K4R7J35K	43 D 8515	BF475K	4.7	35	D
43 D 7561	K4R7J50K	43 D 8516	BG475K	4.7	50	E
43 D 7562	K6R8J6K	43 D 8517	BB685K	6.8	6	B
43 D 7563	K6R8J35K	43 D 8518	BF685K	6.8	35	D
43 D 7564	K6R8J50K	43 D 8519	BG685K	6.8	50	G
43 D 7565	K10J20K	43 D 8520	BE106K	10	20	D
43 D 7566	K10J35K	43 D 8521	BF106K	10	35	F
43 D 7567	K10J50K	43 D 8522	BG106K	10	50	G
43 D 7568	K15J20K	43 D 8523	BE156K	15	20	D
43 D 7569	K15J35K	43 D 8524	BF156K	15	35	F
43 D 7570	K15J50K	43 D 8525	BG156K	15	50	G
43 D 7571	K22J15K	43 D 8526	BD226K	22	15	D
43 D 7572	K22J35K	43 D 8527	BF226K	22	35	F
43 D 7573	K22J50K	43 D 8528	BG226K	22	50	J
43 D 7574	K33J10K	43 D 8529	BC336K	33	10	D
43 D 7575	K33J20K	43 D 8530	BE336K	33	20	F
43 D 7576	K33J35K	43 D 8531	BF336K	33	35	H
43 D 7578	K47J6K	43 D 8532	BB476K	47	6	D
43 D 7587	K47J20K	43 D 8533	BE476K	47	20	F
43 D 7591	K47J35K	43 D 8534	BF476K	47	35	H
43 D 7593	K68J15K	43 D 8535	BD686K	68	15	F
43 D 7594	K68J20K	43 D 8536	BE686K	68	20	H
43 D 7595	K100J10K	43 D 8537	BC107K	100	10	F
43 D 7596	K100J20K	43 D 8538	BE107K	100	20	H
43 D 7597	K120J10K	43 D 8539	BC127K	120	10	F
43 D 7598	K120J15K	43 D 8540	BD127K	120	15	H
43 D 7599	K150J6K	43 D 8541	BB157K	150	6	F
43 D 7606	K150J15K	43 D 8542	BD157K	150	15	H
43 D 7607	K180J6K	43 D 8543	BB187K	180	6	F
43 D 7609	K180J10K	43 D 8544	BC187K	180	10	H
43 D 7612	K220J10K	43 D 8545	BC227K	220	10	H
43 D 7613	K270J6K	43 D 8546	BE277K	270	6	H
43 D 7614	K330J6K	43 D 8547	BB337K	330	6	H

Z-SERIES "ULTRAMINIATURE" POLAR SOLID-TANTALUM CAPACITORS

Ultraminiature hermetically sealed capacitors. Each consists of an extremely small, dry tantalum anode encapsulated in a corrosion resistant metal case. Direct glass to metal seal is formed by bonding the hermetic seal to the anode lead wire. Prevents solder sealing on anode lead wire. Case and end-seal construction; ideal for cordwood modules, printed circuits and other high density packages. Gold-flashed alloy 52 lead and gold-flashed nickel cathode lead. Polyester insulating sleeves. Operating temperature, —80°C to +85°C at full rated voltage. 2/3 voltage at 125°C. Extremely low DC leakage and high capacitance stability, at operating temperature range. Tolerance ±20%. Av. wt., 1 oz.

Z-SERIES PRICE AND SIZE LOCATOR TABLE

*Case Size Code	Diameter x Length	EACH 1-24	25-49	50-99	100-499	500-999
A	.10 x .30″	1.66	1.36	1.15	.86	.82
B	.10 x .30″	2.29	1.89	1.58	1.18	1.13
C	.15 x .40″	1.70	1.40	1.18	.88	.85
D	.15 x .40″	2.36	1.94	1.63	1.22	1.16

Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*
43 D 8550	KR047Z35S	.047	35	A	43 D 8564	KR18Z35S	.18	35	A	43 D 8578	KR68Z35S	.68	35	C	43 D 8590	K2R2Z35S	2.2	35	C
43 D 8551	KR047Z50S	.047	50	B	43 D 8565	KR18Z50S	.18	50	B	43 D 8579	KR68Z50S	.68	50	D	43 D 8591	K2R7Z35S	2.7	35	C
43 D 8552	KR056Z35S	.056	35	A	43 D 8566	KR22Z35S	.22	35	A	43 D 8580	KR82Z35S	.82	35	C	43 D 8592	K3R3Z6S	3.3	6	A
43 D 8553	KR056Z50S	.056	50	B	43 D 8567	KR22Z50S	.22	50	B	43 D 8581	KR82Z50S	.82	50	D	43 D 8594	K3R3Z20S	3.3	20	C
43 D 8554	KR068Z35S	.068	35	A	43 D 8568	KR27Z35S	.27	35	A	43 D 8611	K1Z20S	1.0	20	A	43 D 8595	K3R9Z20S	3.9	20	C
43 D 8555	KR068Z50S	.068	50	B	43 D 8569	KR27Z50S	.27	50	B	43 D 8582	K1Z35S	1.0	35	C	43 D 8597	K4R7Z20S	4.7	20	C
43 D 8556	KR082Z35S	.082	35	A	43 D 8570	KR33Z35S	.33	35	A	43 D 8583	K1Z50S	1.0	50	D	43 D 8598	K5R6Z20S	5.6	20	C
43 D 8557	KR082Z50S	.082	50	B	43 D 8571	KR33Z50S	.33	50	D	43 D 8584	K1R2Z35S	1.2	35	C	43 D 8599	K6R8Z20S	6.8	20	C
43 D 8558	KR1Z35S	10	35	A	43 D 8572	KR39Z35S	.39	35	A	43 D 8585	K1R2Z50S	1.2	50	D	43 D 8600	K8R2Z15S	8.2	15	C
43 D 8559	KR1Z50S	.10	50	B	43 D 8573	KR39Z50S	.39	50	D	43 D 8586	K1R5Z35S	1.5	35	C	43 D 8602	K10Z10S	10	10	C
43 D 8560	KR12Z35S	.12	35	A	43 D 8574	KR47Z35S	.47	35	A	43 D 8587	K1R5Z50S	1.5	50	D	43 D 8604	K12Z10S	12	10	C
43 D 8561	KR12Z50S	.12	50	B	43 D 8575	KR47Z50S	.47	50	D	43 D 8588	K1R8Z35S	1.8	35	C	43 D 8605	K15Z10S	15	10	C
43 D 8562	KR15Z35S	.15	35	A	43 D 8576	KR56Z35S	.56	35	C	43 D 8589	K1R8Z50S	1.8	50	D	43 D 8606	K18Z10S	18	10	C
43 D 8563	KR15Z50S	.15	50	B	43 D 8577	KR56Z50S	.56	50	D	43 D 8608	K2R2Z10S	2.2	10	A	43 D 8607	K22Z6S	22	6	C

KEMET Polarized Solid Tantalums

C SERIES—POLAR TYPE

Bullet-shaped, epoxy-molded solid tantalum capacitors, ideally suited for use in ship-to-shore, 2-way radio communications, computers and better grade entertainment devices. Exhibit low-leakage current, narrow range of capacitance tolerance, good capacitance stability and low dissipation factors at extreme temperatures and under severe mechanical stresses. Designed to operate continuously at full-rated voltage at temperatures from —55° to +85°C. Av. wt. 2 oz. **Price depends upon case size.**

PRICE AND SIZE LOCATOR ±10% Tolerance

Case Size*	Diameter x Length	EACH 1-24	25-99	100-499	500-999
A	.138x.390″	.63	.53	.43	.35
B	.138x.390″	.68	.55	.45	.37
C	.138x.390″	1.05	.85	.69	.55
D	.190x.562″	.65	.55	.45	.37
E	.190x.562″	.71	.57	.47	.39
F	.190x.562″	1.09	.88	.71	.59

Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*
43 D 7145	KR1C35K	.10	35	A	43 D 7287	K1R5C50K	1.5	50	E
43 D 7146	KR1C50K	.10	50	B	43 D 7937	K1R5C75K	1.5	75	F
43 D 7054	KR1C75K	.10	75	C	43 D 7298	K1R8C20K	1.8	20	A
43 D 7153	KR12C35K	.12	35	A	43 D 7299	K1R8C35K	1.8	35	D
43 D 7154	KR12C50K	.12	50	B	43 D 7300	K1R8C50K	1.8	50	E
43 D 7161	KR15C35K	.15	35	A	43 D 7311	K2R2C20K	2.2	20	A
43 D 7162	KR15C50K	.15	50	B	43 D 7312	K2RC35K	2.2	35	D
43 D 7055	KR15C75K	.15	75	C	43 D 7313	K2RC50K	2.2	50	E
43 D 7169	KR18C35K	.18	35	A	43 D 7327	K2R2C75K	2.2	75	F
43 D 7170	KR18C50K	.18	50	B	43 D 7324	K2R7C15K	2.7	15	A
43 D 7177	KR22C35K	.22	35	A	43 D 7325	K2R7C35K	2.7	35	D
43 D 7178	KR22C50K	.22	50	B	43 D 7326	K2R7C50K	2.7	50	E
43 D 7057	KR22C75K	.22	75	C	43 D 7338	K3R3C15K	3.3	15	A
43 D 7185	KR27C35K	.27	35	A	43 D 7339	K3R3C35K	3.3	35	D
43 D 7186	KR27C50K	.27	50	B	43 D 7340	K3R3C50K	3.3	50	E
43 D 7194	KR33C35K	.33	35	A	43 D 7334	K3R3C75K	3.3	75	F
43 D 7195	KR33C50K	.33	50	B	43 D 7351	K3R9C10K	3.9	10	A
43 D 7058	KR33C75K	.33	75	C	43 D 7352	K3R9C35K	3.9	35	D
43 D 7203	KR39C35K	.39	35	A	43 D 7353	K3R9C50K	3.9	50	E
43 D 7205	KR39C50K	.39	50	B	43 D 7364	K4R7C10K	4.7	10	A
43 D 7214	KR47C35K	.47	35	A	43 D 7365	K4R7C35K	4.7	35	D
43 D 7215	KR47C50K	.47	50	B	43 D 7366	K4R7C50K	4.7	50	E
43 D 7241	KR47C75K	.47	75	C	43 D 7377	K5R6C6K	5.6	6	A
43 D 7223	KR56C35K	.56	35	A	43 D 7378	K5R6C35K	5.6	35	D
43 D 7224	KR56C50K	.56	50	B	43 D 7391	K6R8C6K	6.8	36	A
43 D 7232	KR68C35K	.68	35	A	43 D 7392	K6R8C35K	6.8	35	D
43 D 7233	KR68C50K	.68	50	B	43 D 7405	K8R2C20K	8.2	20	D
43 D 7939	KR68C75K	.68	75	C	43 D 7660	K10C20K	10	20	D
43 D 7250	KR82C35K	.82	35	A	43 D 7674	K12C20K	12	20	D
43 D 7251	KR82C50K	.82	50	B	43 D 7688	K15C20K	15	20	D
43 D 7260	K1C35K	1.0	35	A	43 D 7701	K18C15K	18	15	D
43 D 7261	K1C50K	1.0	50	B	43 D 7715	K22C15K	22	15	D
43 D 7938	K1C75K	1.0	75	F	43 D 7726	K27C10K	27	10	D
43 D 7272	K1R2C20K	1.2	20	A	43 D 7737	K33C10K	33	10	D
43 D 7273	K1R2C35K	1.2	35	D	43 D 7748	K39C10K	39	10	D
43 D 7274	K1R2C50K	1.2	50	E	43 D 7759	K47C6K	47	6	D
43 D 7285	K1R5C20K	1.5	20	A	43 D 7770	K56C6K	56	6	D
43 D 7286	K1R5C35K	1.5	35	D	......	......	...	...	...

PRICE AND SIZE LOCATOR ±20% Tolerance

Case Size*	Diameter x Length	EACH 1-24	25-99	100-499	500-999
A	.138x.390″	.60	.50	.40	.32
B	.138x.390″	.65	.52	.42	.34
C	.190x.562″	.62	.52	.42	.34
D	.190x.562″	.67	.54	.44	.36

Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*
43 D 9862	KR1C35	.10	35	A	43 D 9893	K2R2C20	2.2	20	A
43 D 9863	KR1C50	.10	50	B	43 D 9894	K2R2C35	2.2	35	C
43 D 9864	KR15C35	.15	35	A	43 D 9895	K2R2C50	2.2	50	D
43 D 9865	KR15C50	.15	50	B	43 D 9897	K3R3C15	3.3	15	A
43 D 9868	KR22C35	.22	35	A	43 D 9898	K3R3C35	3.3	35	C
43 D 9870	KR22C50	.22	50	B	43 D 9900	K3R3C50	3.3	50	D
43 D 9874	KR33C35	.33	35	A	43 D 9901	K4R7C10	4.7	10	A
43 D 9877	KR33C50	.33	50	B	43 D 9905	K4R7C35	4.7	35	C
43 D 9879	KR47C35	.47	35	A	43 D 9917	K4R7C50	4.7	50	D
43 D 9880	KR47C50	.47	50	B	43 D 9919	K6R8C6	6.8	6	A
43 D 9882	KR68C35	.68	35	A	43 D 9920	K6R8C35	6.8	35	C
43 D 9883	KR68C50	.68	50	B	43 D 9924	K10C20	10	20	C
43 D 9885	K1C35	1.0	35	A	43 D 9945	K15C20	15	20	C
43 D 9886	K1C50	1.0	50	B	43 D 9946	K22C15	22	15	C
43 D 9888	K1R5C20	1.5	20	A	43 D 9947	K33C10	33	10	C
43 D 9889	K1R5C35	1.5	35	C	43 D 9948	K47C6	47	6	C
43 D 9890	K1R5C50	1.5	50	D	......	......	...	...	...

P SERIES—POLAR TYPE

Dry, sintered slab-shaped tantalum anode capacitor encapsulated in molded epoxy case. Excellent moisture resistance and dielectric properties. Withstands severe shock and vibration. Extremely compact and highly reliable—provides maximum capacitance per unit of chassis area. Ideal for printed circuits and other limited space applications. Parallel wire leads spaced .200″ apart, can be soldered or welded. One face of epoxy case has slight radius on two vertical corners to permit use with automatic insertion equipment. Polarity symbol molded into top face of case. Operates continuously at full-rated voltage at temperatures from —55° to +85°C. Av. shpg. wt. 2 oz. **Price based on case size; see price and size locator below.**

PRICE AND SIZE LOCATOR ±10% Tolerance

Case Size*	Physical Size (DWH)	EACH 1-24	25-49	50-99	100-499	500-999
A	.225x.285x.170″	1.90	1.52	1.28	.95	.90
B	.225x.285x.170″	2.60	2.08	1.75	1.50	1.37
C	.225x.285x.170″	2.46	1.97	1.66	1.43	1.29
D	.225x.285x.170″	1.98	1.58	1.34	.98	.93
E	.325x.360x.170″	2.60	2.08	1.75	1.50	1.37
F	.325x.360x.170″	1.98	1.58	1.34	.98	.93
G	.325x.360x.170″	4.26	3.41	2.88	2.45	2.24
H	.325x.360x.170″	3.28	2.62	2.21	1.63	1.55
J	.375x.600x.195″	4.26	3.41	2.88	2.45	2.24
K	.375x.600x.195″	3.28	2.62	2.21	1.63	1.55
L	.375x.600x.195″	6.11	4.89	3.59	2.91	2.42
M	.375x.600x.195″	7.96	6.37	5.37	4.58	4.18

Stock No.	Mfr's Type	Mfd	WV DC	*	Stock No.	Mfr's Type	Mfd	WV DC	*
43 D 7143	KR1P35K	.1	35	A	43 D 7375	K5R6P35K	5.6	35	F
43 D 7144	KR1P50K	.1	50	C	43 D 7376	K5R6P50K	5.6	50	G
43 D 7941	KR12P35K	.12	35	A	43 D 7388	K6R8P15K	6.8	15	D
43 D 7942	KR12P50K	.12	50	C	43 D 7389	K6R8P35K	6.8	35	F
43 D 7159	KR15P35K	.15	35	A	43 D 7390	K6R8P50K	6.8	50	J
43 D 7160	KR15P50K	.15	50	C	43 D 7401	K8R2P15K	8.2	15	D
43 D 7167	KR18P35K	.18	35	A	43 D 7713	K8R2P25K	8.2	25	F
43 D 7168	KR18P50K	.18	50	C	43 D 7403	K8R2P35K	8.2	35	H
43 D 7175	KR22P35K	.22	35	A	43 D 7404	K8R2P50K	8.2	50	J
43 D 7176	KR22P50K	.22	50	C	43 D 7657	K10P10K	10	10	D
43 D 7183	KR27P35K	.27	35	A	43 D 7830	K10P25K	10	25	H
43 D 7184	KR27P50K	.27	50	C	43 D 7658	K10P35K	10	35	H
43 D 7192	KR33P35K	.33	35	A	43 D 7659	K10P50K	10	50	J
43 D 7193	KR33P50K	.33	50	C	43 D 7670	K12P10K	12	10	D
43 D 7201	KR39P35K	.39	35	A	43 D 7671	K12P25K	12	25	H
43 D 7202	KR39P50K	.39	50	C	43 D 7672	K12P35K	12	35	K
43 D 7212	KR47P35K	.47	35	A	43 D 7673	K12P50K	12	50	M
43 D 7213	KR47P50K	.47	50	C	43 D 7684	K15P10K	15	10	D
43 D 7221	KR56P35K	.56	35	A	43 D 7685	K15P25K	15	25	H
43 D 7222	KR56P50K	.56	50	C	43 D 7686	K15P35K	15	35	K
43 D 7230	KR68P35K	.68	35	A	43 D 7687	K15P50K	15	50	M
43 D 7231	KR68P50K	.68	50	C	43 D 7697	K18P6K	18	6	D
43 D 7239	KR82P35K	.82	35	A	43 D 7698	K18P15K	18	15	F
43 D 7240	KR82P50K	.82	50	C	43 D 7699	K18P35K	18	35	K
43 D 7258	K1P35K	1.0	35	A	43 D 7700	K18P50K	18	50	M
43 D 7259	K1P50K	1.0	50	C	43 D 7711	K22P6K	22	6	D
43 D 7248	K1R2P25K	1.2	25	A	43 D 7712	K22P15K	22	15	H
43 D 7270	K1R2P35K	1.2	35	D	43 D 7714	K22P35K	22	35	L
43 D 7271	K1R2P50K	1.2	50	B	43 D 7724	K27P15K	27	15	H
43 D 7940	K1R5P25K	1.5	25	A	43 D 7943	K27P25K	27	25	L
43 D 7283	K1R5P35K	1.5	35	D	43 D 7725	K27P35K	27	35	L
43 D 7284	K1R5P50K	1.5	50	B	43 D 7735	K33P10K	33	10	H
43 D 7059	K1R8P25K	1.8	25	A	43 D 7944	K33P15K	33	15	K
43 D 7296	K1R8P35K	1.8	35	D	43 D 7736	K33P35K	33	35	L
43 D 7297	K1R8P50K	1.8	50	B	43 D 7746	K39P10K	39	10	H
43 D 7899	K2R2P15K	2.2	15	A	43 D 7747	K39P15K	39	15	K
43 D 7309	K2R2P35K	2.2	35	D	43 D 7934	K39P25K	39	25	L
43 D 7310	K2R2P50K	2.2	50	B	43 D 7757	K47P6K	47	6	H
43 D 7898	K2R7P15K	2.7	15	A	43 D 7931	K47P15K	47	15	L
43 D 7322	K2R7P35K	2.7	35	D	43 D 7758	K47P25K	47	25	L
43 D 7323	K2R7P50K	2.7	50	E	43 D 7768	K56P6K	56	6	H
43 D 7902	K3R3P15K	3.3	15	A	43 D 7769	K56P15K	56	15	F
43 D 7336	K3R3P35K	3.3	35	D	43 D 7777	K68P6K	68	6	H
43 D 7337	K3R3P50K	3.3	50	E	43 D 7778	K68P15K	68	15	L
43 D 6994	K3R9P15K	3.9	15	D	43 D 7906	K82P10K	82	10	L
43 D 7348	K3R9P25K	3.9	25	D	43 D 7785	K82P15K	82	15	L
43 D 7349	K3R9P35K	3.9	35	F	43 D 7792	K100P10K	100	10	L
43 D 7350	K3R9P50K	3.9	50	G	43 D 7799	K120P10K	120	10	L
43 D 7361	K4R7P25K	4.7	25	D	43 D 7910	K150P6K	150	6	L
43 D 6999	K4R7P15K	4.7	15	D	43 D 7807	K150P10K	150	10	L
43 D 7362	K4R7P35K	4.7	35	F	43 D 7816	K180P6K	180	6	L
43 D 7363	K4R7P50K	4.7	50	G	43 D 7822	K220P6K	220	6	L
43 D 7374	K5R6P15K	5.6	15	D	......	......	...	...	...

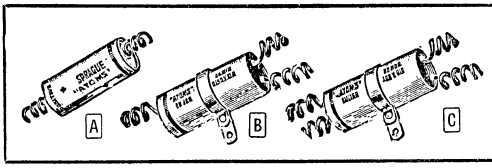
Allied Can Make Immediate Shipments in OEM Quantities

Specify Mfr's Type No. and Capacitance on Capacitor Orders

TVA Atom Midget Electrolytics

SPRAGUE
THE MARK OF RELIABILITY

Sprague Atom electrolytics offer dependable performance, compact size and the ability to operate at high temperatures. Ultra-compact size makes these dry electrolytics excellent for use in circuits for television, AC-DC home radios, auto radios, and radio-phonograph combinations. Easy to install—even in crowded chassis. Capacitors will perform efficiently at temperatures up to 85°C(185°F) and withstand high surge voltages and ripple currents as found in television circuits. All have extremely low leakage and long shelf life. (*TVAN Types—nonpolarized.) Metal cases with outer cardboard insulating case except †, cardboard.



[A] SINGLE SECTION TYPE TVA Av. shpg. wt., 3 oz.

Stock No.	Type TVA	Mfd	WV DC	Size Inches	EACH 1-24	25-49	50-99	100-249	250-499
43 D 6231	1102	250	6	5/8x1 7/16	.81	.64	.50	.40	.33
43 D 6232	1103	500	6	5/8x2 3/16	.93	.73	.57	.46	.37
43 D 5801	1104	1000	6	3/4x2 3/16	1.14	.89	.70	.56	.46
43 D 5861	1106	2000	6	13/16x2 15/16	1.38	1.08	.84	.67	.55
43 D 6234	1130	100	12	9/16x1 3/16	.72	.52	.40	.32	.26
43 D 5862	1131	250	12	5/8x1 11/16	.87	.68	.53	.43	.35
43 D 5863	1132	500	12	3/4x1 11/16	1.02	.79	.62	.49	.41
43 D 6235	1133	1000	12	13/16x2 3/16	1.35	1.05	.82	.65	.54
43 D 6236	1160	100	15	5/8x1 3/16	.75	.52	.41	.33	.27
43 D 6237	1161	250	15	5/8x1 11/16	.93	.74	.60	.46	.38
43 D 6238	1162	500	15	11/16x2 3/16	1.05	.83	.64	.52	.42
43 D 6239	1163	1000	15	7/8x2 3/16	1.38	1.07	.84	.67	.55
43 D 5803	1170	2000	15	1x3 11/16	1.92	1.29	1.00	.81	.66
43 D 5207	1203	5	25	3/8x1 1/4	.60	.42	.32	.26	.21
43 D 5205	1204	10	25	3/8x1 1/4	.60	.42	.33	.27	.22
43 D 5805	1204.5	20	25	1/2x1 1/4	.60	.43	.34	.27	.23
43 D 5206	1205	25	25	3/8x1 1/4	.60	.44	.35	.28	.23
43 D 5208	1206	50	25	9/16x1 3/16	.66	.47	.37	.30	.24
43 D 5867	1207	100	25	9/16x1 11/16	.81	.58	.45	.36	.30
43 D 5868	1208	250	25	3/4x1 11/16	1.02	.79	.61	.49	.40
43 D 5869	1209	500	25	7/8x2 3/16	1.38	1.07	.84	.67	.55
43 D 5864	1211	1000	25	1x2 11/16	1.98	1.79	1.39	1.11	.91
43 D 5870	1300	1	50	3/8x1 1/4	.54	.39	.31	.25	.20
43 D 5871	1301	2	50	3/8x1 1/4	.54	.39	.31	.25	.20
43 D 5200	1303	5	50	3/8x1 1/4	.60	.42	.32	.26	.21
43 D 5201	1304	10	50	3/8x1 1/4	.60	.42	.33	.27	.22
43 D 5183	1305.5	20	50	7/16x1 3/8	.60	.43	.34	.27	.22
43 D 5202	1306	25	50	7/16x1 3/8	.63	.44	.35	.28	.23
43 D 5203	1308	50	50	9/16x1 11/16	.72	.52	.40	.32	.27
43 D 5876	1310	100	50	3/4x1 11/16	.84	.60	.47	.40	.31
43 D 5858	1311	150	50	3/4x1 11/16	.93	.66	.51	.41	.34
43 D 5859	1312	250	50	15/16x1 11/16	1.05	.83	.64	.52	.42
43 D 5806	1315	500	50	1x1 15/16	1.44	1.11	.86	.69	.57
43 D 5182	1400	1	150	3/4x1 1/4	.57	.41	.32	.26	.22
43 D 5192	1402	4	150	3/8x1 1/4	.60	.43	.33	.27	.22
43 D 6241	1403	5	150	3/8x1 1/4	.60	.43	.34	.27	.22
43 D 5193	1405	8	150	3/8x1 3/4	.63	.45	.35	.28	.23
43 D 5226	1406	10	150	3/8x1 3/4	.63	.46	.36	.29	.24
43 D 5195	1409	16	150	9/16x1 11/16	.69	.49	.38	.31	.25
43 D 5196	1410	20	150	9/16x1 11/16	.72	.50	.39	.32	.26
43 D 6242	1411	25	150	5/8x1 11/16	.75	.53	.41	.33	.27
43 D 5197	1412	30	150	5/8x1 11/16	.78	.55	.43	.35	.28
43 D 5198	1413	40	150	3/4x1 11/16	.81	.58	.45	.36	.30
43 D 5199	1414	50	150	13/16x1 11/16	.84	.60	.47	.38	.31
43 D 6243	1415	60	150	7/8x1 11/16	.90	.63	.49	.40	.33
43 D 5878	1418	80	150	7/8x1 15/16	.96	.69	.54	.43	.35
43 D 6619	1420	100	150	7/8x2 3/16	1.05	.75	.58	.47	.38
43 D 6240	1422	150	150	1x2 3/16	1.14	.82	.64	.48	.42
43 D 6244	1423	200	150	1x3 13/16	1.32	.93	.72	.58	.47
43 D 6245	1425†	300	150	1x3 3/16	1.68	1.25	.97	.78	.64
43 D 5179	1445	100	200	1x2 3/16	1.14	.90	.70	.56	.46
43 D 5191	1447	150	200	1 3/8x3 3/8	1.68	1.26	.98	.79	.65
43 D 6246	1480†	200	200	1 3/8x3 3/8	1.89	1.42	1.10	.89	.73
43 D 5185	1501	4	250	7/16x1 5/8	.66	.48	.37	.30	.25
43 D 5186	1503	8	250	1/2x1 5/8	.69	.54	.42	.34	.28
43 D 6617	1504	10	250	9/16x1 11/16	.72	.56	.43	.35	.29
43 D 5187	1505	12	250	9/16x1 11/16	.75	.57	.45	.36	.29
43 D 5865	1507	16	250	5/8x1 11/16	.78	.60	.47	.38	.31
43 D 5189	1508	20	250	11/16x1 11/16	.81	.64	.50	.40	.33
43 D 6618	1510	30	250	11/16x2 3/16	.87	.68	.53	.43	.35
43 D 5190	1511	40	250	3/4x2 3/16	.93	.74	.57	.46	.38
43 D 5807	1512	50	250	3/4x2 3/16	1.02	.81	.63	.50	.41
43 D 5808	1513	60	250	13/16x2 3/16	1.08	.84	.66	.53	.43
43 D 6247	1575†	140	300	1 3/8x3 3/8	2.19	1.64	1.28	1.02	.84
43 D 6265	1578	200	300	1 1/4x4 1/2	2.70	1.61	1.25	1.00	.72
43 D 6616	1601	4	350	1/2x1 5/8	.63	.49	.38	.31	.25
43 D 5181	1603	8	350	5/8x1 11/16	.72	.55	.43	.35	.28
43 D 5866	1605	12	350	11/16x1 11/16	.78	.61	.47	.38	.31
43 D 5872	1607	16	350	3/4x1 11/16	.84	.66	.51	.41	.34
43 D 5184	1608	20	350	13/16x1 11/16	.87	.68	.53	.42	.35
43 D 5809	1610	30	350	13/16x2 3/16	.99	.77	.60	.48	.40
43 D 5983	1611	40	350	7/8x2 7/16	1.05	.80	.62	.50	.41
43 D 5984	1613	60	350	1x2 7/16	1.17	.91	.71	.57	.47
43 D 5812	1620	100	350	1x3 7/16	1.86	1.11	.86	.69	.57
43 D 5815	1650*	10	400	1 1/16x2 1/16	1.05	.78	.61	.49	.40
43 D 5816	1652*	20	400	1x2 3/16	1.17	.88	.69	.55	.46
43 D 5873	1700	1	450	7/16x1 1/8	.66	.51	.40	.32	.26
43 D 6615	1701	2	450	7/16x1 5/8	.66	.52	.41	.33	.27
43 D 5170	1702	4	450	9/16x1 11/16	.69	.54	.42	.34	.28
43 D 5171	1704	8	450	11/16x1 11/16	.75	.60	.46	.37	.31
43 D 5225	1705	10	450	11/16x1 11/16	.78	.60	.47	.37	.31
43 D 5173	1708	16	450	3/4x2 3/16	.84	.68	.53	.42	.35
43 D 5174	1709	20	450	3/4x2 3/16	.93	.73	.57	.46	.37
43 D 5169	1711	30	450	7/8x2 3/16	1.02	.80	.63	.50	.41
43 D 5178	1712	40	450	7/8x2 11/16	1.08	.83	.65	.52	.43
43 D 5991	1713	50	450	7/8x3 3/16	1.26	.98	.76	.61	.50
43 D 6248	1714	60	450	1x3 11/16	1.41	1.16	.90	.72	.59
43 D 5985	1716	80	450	1x3 11/16	1.68	1.11	.87	.69	.57
43 D 8219	1718†	100	450	1 3/8x3 15/16	1.92	1.69	1.31	1.05	.86
43 D 5175	1902	8	500	7/8x1 11/16	.78	.61	.48	.38	.31
43 D 5177	1906	20	500	1x2 3/16	.96	.75	.58	.47	.38
43 D 6249	1962	8	600	1x3 1/16	1.83	1.37	1.07	.85	.70
43 D 6256	1963	10	600	1x3 1/16	2.19	1.64	1.28	1.02	.84
43 D 6257	1965	16	600	1x4 1/16	2.49	1.87	1.46	1.17	.96
43 D 6258	1966	20	600	1x4 1/16	2.58	1.93	1.50	1.20	.99

[B] DUAL SECTION TYPE TVA Av. shpg. wt., 5 oz.

Stock No.	Type TVA	Mfd	WV DC	Size Inches	1-24	25-49	50-99	100-249	250-499
43 D 5247	2428	20-20	150	7/8x1 7/16	1.05	.80	.62	.50	.41
43 D 5252	2438	40-20	150	7/8x1 11/16	1.14	.84	.65	.52	.43
43 D 5251	2434	30-30	150	7/8x1 11/16	1.08	.85	.66	.53	.43
43 D 5250	2442	40-30	150	7/8x1 15/16	1.08	.86	.67	.54	.44
43 D 5243	2445	40-40	150	7/8x1 15/16	1.11	.88	.69	.55	.45
43 D 5244	2450	50-30	150	7/8x1 15/16	1.17	.88	.69	.55	.45
43 D 5305	2453	50-50	150	7/8x2 7/16	1.26	.93	.72	.58	.47
43 D 5306	2460	80-30	150	7/8x2 7/16	1.32	.94	.73	.59	.48
43 D 5258	2461	80-40	150	7/8x2 7/16	1.32	.96	.75	.60	.49
43 D 6259	2462	80-50	150	7/8x2 15/16	1.41	.99	.77	.62	.51
43 D 5256	2463	100-50	150	1x1 11/16	1.59	1.04	.81	.65	.54
43 D 6262	2464†	100-100	150	1 3/8x3 3/8	1.92	1.32	1.03	.82	.68
43 D 6263	2467†	200-5	150	1x3 7/8	1.59	1.17	.91	.73	.60
43 D 5257	2515	20-20	250	7/8x1 15/16	1.11	.88	.69	.55	.45
43 D 8221	2640†	140-5	350	1 1/4x3 7/8	2.49	1.90	1.48	1.18	.97
43 D 5220	2720	8-8	450	7/8x1 11/16	1.17	.88	.69	.55	.45
43 D 5884	2722	10-10	450	7/8x1 15/16	1.23	.92	.72	.58	.47
43 D 5227	2730	20-20	450	7/8x2 15/16	1.50	1.19	.92	.74	.61
43 D 5986	2735	30-30	450	1x3 3/16	1.95	1.46	1.13	.91	.75
43 D 5987	2740	40-40	450	1x3 15/16	2.25	1.69	1.40	1.12	.92

[C] TRIPLE SECTION TYPE TVA Av. shpg. wt., 6 oz.

Stock No.	Type TVA	Mfd	WV DC	Size Inches	1-24	25-49	50-99	100-249	250-499
43 D 5811	3422.9	40-20/20	150/25	7/8x1 11/16	1.80	1.33	1.04	.83	.68
43 D 5312	3423	40-30/20	150/25	7/8x1 15/16	1.80	1.35	1.05	.84	.69
43 D 5813	3425	40-40/20	150/25	7/8x2 3/16	1.86	1.38	1.08	.86	.71
43 D 5313	3430	50-30/20	150/25	7/8x2 3/16	1.86	1.38	1.07	.86	.71
43 D 8223	3437.1	80-40/20	150/25	1x1 15/16	1.95	1.45	1.13	.90	.74
43 D 5307	3440	20-20-20	150	7/8x1 11/16	1.77	1.32	1.03	.82	.68
43 D 5874	3442	30-25-20	150	7/8x2 3/16	1.80	1.36	1.06	.85	.70
43 D 5875	3444	30-30-30	150	7/8x2 3/16	1.86	1.39	1.08	.86	.71
43 D 5800	3446	40-20-20	150	7/8x1 15/16	1.80	1.36	1.06	.84	.70
43 D 5308	3448	40-30-20	150	7/8x2 3/16	1.86	1.38	1.08	.86	.71
43 D 5814	3450	40-40-20	150	7/8x2 7/16	1.86	1.40	1.09	.88	.72
43 D 5309	3451	40-40-40	150	1x2 7/16	1.92	1.44	1.12	.90	.74
43 D 8222	3453	50-30-20	150	1x2 7/16	1.89	1.40	1.09	.88	.72
43 D 5327	3455	80-40-20	150	1x2 15/16	1.98	1.49	1.16	.93	.76

QUADRUPLE SECTION TYPE TVA Av. shpg. wt., 8 oz.

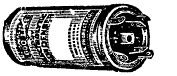
Stock No.	Type TVA	Mfd	WV DC	Size Inches	1-24	25-49	50-99	100-249	250-499
43 D 6284	4576†	140-5-200-30	350-300/200-150	1 1/2x4 7/8	3.72	2.77	2.16	1.73	1.42
43 D 8225	4748†	40-20-20-10	450	1 3/8x4 3/8	3.18	2.37	1.84	1.47	1.21
43 D 5856	4750†	40-40-20-20	450	1 1/2x4 1/4	3.27	2.34	1.82	1.46	1.20

Equivalent Types Available—Page 172

SPRAGUE
THE MARK OF RELIABILITY

Twist-Prong Electrolytic Capacitors

TVL "TWIST-LOK" AND PCL "PRINT-LOK" MIDGET CAN CAPACITORS



Type TVL "Twist-Lok" electrolytics come in hermetically sealed, aluminum cans for long life and dependable performance—excellent for use in high-ripple selenium rectifier circuits. Withstand extremely high temperatures often encountered in TV, auto radio and hi-fi cabinets; all types are designed for 85°C (185°F) operation. Up to 150 WVDC, capacity tolerance is —10% to +100%; above 150 WVDC, tolerance is —10% to +50%. Can is common negative. Easy to mount—unit locks firmly in place with a twist of the tabs. Supplied with both phenolic and metal mounting washers. Terminals are welded to capacitor cathodes and tinned for easy soldering. Asterisk in tables below indicates type PCL "Print-Lok" electrolytics, universal printed circuit version of TVL "Twist-Loks." "Print-Lok" types fit all printed circuit mountings or standard twist-base mountings. Lock in position with a touch of the pliers.

For Equivalent-Type Electrolytics, See listings on page 170 of This Catalog

TWIST-PRONG CAPACITOR SIZE CHART

Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L
A	¾x2"	C	1x2½"	E	1x3½"	G	1⅜x2"	J	1⅜x3"	L	1⅜x4"
B	1x2"	D	1x3"	F	1x4"	H	1⅜x2½"	K	1⅜x3½"	M	1x1½"

SINGLE SECTION Av. shpg. wt., 1 lb.

Stock No.	Type TVL- *PCL-	Cap. Mfd	WVDC	Size	EACH 1-24	25-49	50-99	100-249
43 D 9620	1160	225	15	A	1.05	.59	.46	.37
43 D 9364	1165	1000	15	M	1.53	.94	.74	.59
43 D 9365	1168	2000	15	G	2.07	1.44	1.12	.89
43 D 9366	1170	3000	15	G	2.55	1.82	1.42	1.14
43 D 9603	1173	4000	15	K	2.25	2.20	1.71	1.37
43 D 9362	1220	500	25	M	1.53	.87	.68	.54
43 D 9363	1230	1000	25	G	2.13	1.30	1.01	.81
43 D 9357	1317	100	50	A	.99	.58	.45	.36
43 D 9604	1324	250	50	C	1.20	.77	.60	.48
43 D 9358	1330	500	50	G	1.59	1.09	.85	.68
43 D 9359	1338	1000	50	H	2.25	1.49	1.16	.93
43 D 9360	1341	1500	50	J	2.64	1.87	1.45	1.16
43 D 9344	1415	50	150	M	.99	.66	.51	.41
43 D 9346	1423	100	150	C	1.20	.75	.58	.47
43 D 9606	1426	120	150	H	1.29	.92	.71	.57
43 D 9348	1428	140	150	C	1.29	.81	.63	.51
43 D 9609	1428*	140	150	C	1.29	.81	.63	.51
43 D 9349	1429	150	150	D	1.29	.83	.65	.52
43 D 9350	1430	150	150	J	1.29	.99	.77	.62
43 D 9351	1431	200	150	G	1.47	1.10	.86	.69
43 D 9352	1434	300	150	G	1.68	1.25	.97	.78
43 D 9343	1473	160	200	J	1.89	1.10	.86	.69
43 D 9610	1473*	160	200	G	1.89	1.08	.84	.66
43 D 9339	1519	40	250	B	1.08	.70	.54	.44
43 D 9340	1535	100	250	D	1.62	.89	.69	.55
43 D 9341	1540	150	250	H	1.86	1.17	.91	.73
43 D 9342	1547	200	250	K	2.19	1.36	1.06	.85
43 D 9336	1584	150	300	K	2.10	1.34	1.05	.84
43 D 9337	1590	250	300	L	3.33	1.74	1.35	1.08
43 D 9611	1617	30	350	B	1.14	.72	.56	.45
43 D 9329	1621	40	350	B	1.20	.77	.60	.48
43 D 9332	1638	125	350	K	2.37	1.37	1.06	.85
43 D 9333	1642	150	350	H	2.37	1.50	1.17	.93
43 D 9314	1705	10	450	B	.93	.65	.51	.41
43 D 9316	1714	20	450	B	1.08	.72	.56	.45
43 D 9317	1720	30	450	C	1.17	.80	.63	.50
43 D 9324	1725	40	450	D	1.23	.88	.68	.55
43 D 9325	1728	50	450	D	1.41	.95	.74	.59
43 D 9622	1730	60	450	H	1.56	1.16	.90	.72
43 D 9326	1735	80	450	H	1.83	1.31	1.02	.81
43 D 9327	1750	100	450	J	2.07	1.47	1.15	.92
43 D 9328	1760	125	450	L	2.31	1.69	1.31	1.05
43 D 9613	1820	40	475	G	1.51	1.06	.82	.66
43 D 9308	1943	20	500	C	1.11	.78	.61	.49
43 D 9309	1947	30	500	C	1.20	.89	.69	.55
43 D 9310	1950	40	500	D	1.50	.99	.77	.62
43 D 9311	1958	80	500	J	2.16	1.54	1.20	.96
43 D 9312	1960	90	500	J	2.10	1.66	1.29	1.03

DUAL SECTION Av. shpg. wt., 1½ lbs.

43 D 9120	2160	1000-1000	15	E	2.64	1.40	1.09	.87
43 D 9626	2161	1000-1000	15	H	2.64	1.54	1.20	.96
43 D 9117	2326	100-100	50	M	1.26	.81	.63	.50
43 D 9102	2428	40-40	150	M	1.14	.80	.62	.50
43 D 9104	2432*	50-30	150	B	1.20	.79	.62	.49
43 D 9105	2435	50-50	150	C	1.29	.83	.64	.52
43 D 9107	2442	80-40	150	H	1.38	1.02	.79	.63
43 D 9108	2442.1	80-50	150	C	1.44	.88	.68	.55
43 D 9114	2444	200-5	150	G	1.62	1.24	.96	.77
43 D 9632	2444*	200-5	150	H	1.62	1.15	.90	.72
43 D 9623	2446	200-150	150	L	2.25	1.42	1.11	.89
43 D 9115	2447	200-200	150	H	2.40	1.50	1.17	.94
43 D 9634	2464	100-100	200	J	2.10	1.28	1.00	.80
43 D 9405	2470	200-5	200	G	1.83	1.37	1.07	.85
43 D 9402	2515	20-20	250	M	1.14	.78	.61	.49
43 D 9403	2520	40-40	250	B	1.50	.90	.70	.56
43 D 9404	2535	150-150	250	L	3.09	1.76	1.37	1.09
43 D 9636	2538	200-200	250	L	3.63	2.05	1.60	1.28
43 D 9395	2625	15-15	350	B	1.35	.81	.63	.50
43 D 9396	2626	20-20	350	B	1.38	.87	.68	.54
43 D 9397	2628	30-30	350	C	1.74	.96	.75	.60
43 D 9639	2639	100-60	350	K	2.88	1.62	1.26	1.01
43 D 9398	2641	100-100	350	J	3.69	1.80	1.40	1.12
43 D 9640	2655	100-30	400-50	J	2.34	1.50	1.17	.93
43 D 9641	2656	80-80	400-200	K	2.37	1.54	1.20	.96
43 D 9394	2677	80-60	400	J	2.82	1.73	1.35	1.08
43 D 9642	2679	120-40	400	L	3.15	1.88	1.47	1.17
43 D 9376	2750	10-10	450	B	1.14	.81	.63	.50
43 D 9379	2755	20-20	450	C	1.53	.96	.75	.60
43 D 9381	2759	30-30	450	G	1.83	1.26	.98	.78
43 D 9382	2762	40-20	450	H	1.95	1.26	.98	.78
43 D 9383	2764	40-40	450	H	2.07	1.42	1.10	.88
43 D 9384	2767	50-50	450	J	2.31	1.56	1.22	.97
43 D 9386	2772	60-60	450	K	2.70	1.72	1.34	1.07
43 D 9387	2776	80-10	450	J	2.16	1.49	1.16	.93
43 D 9389	2778	80-40	450	K	3.03	1.72	1.34	1.07
43 D 9390	2780	100-40	450	L	2.91	1.88	1.46	1.17
43 D 9643	2813	20-100	475-400	L	2.70	1.67	1.30	1.04
43 D 9368	2933	10-10	500	C	1.17	.87	.67	.54
43 D 9369	2935	20-20	500	H	1.71	1.22	.95	.76
43 D 9370	2937	30-30	500	H	1.95	1.43	1.11	.89
43 D 9371	2940	40-40	500	J	2.58	1.63	1.27	1.02
43 D 9372	2944	60-40	500	K	2.76	1.84	1.43	1.15

TRIPLE SECTION Av. shpg. wt., 1½ lbs.

43 D 9624	3426.4	40-40-250	150-150-25	D	1.89	1.03	.80	.64
43 D 9625	3432	80-40-20	150-150-25	C	1.68	.95	.74	.59
43 D 9186	3437	40-20-20	150	C	1.44	.82	.64	.51
43 D 9187	3438	40-30-20	150	B	1.50	.88	.69	.55
43 D 9188	3440	40-40-40	150	B	1.56	.95	.74	.59
43 D 9190	3442	50-50-50	150	D	1.80	.99	.77	.62
43 D 9191	3443	60-40-20	150	D	1.65	.94	.74	.59
43 D 9194	3450	200-100-60	150	K	2.73	1.51	1.18	.94
43 D 9627	3453	250-200-10	150	L	2.85	1.69	1.31	1.05
43 D 9184	3461.4	60-200-140	200-150-150	L	2.88	1.63	1.27	1.02
43 D 9644	3467	60-5-20	200-200-50	C	1.50	1.03	.80	.64
43 D 9700	3532	20-20-20	250	B	1.56	.92	.72	.57
43 D 9177	3562	100-60-20	300-250-250	J	2.94	1.57	1.22	.98
43 D 9614	3574.7	140-100-60	300-300-50	K	3.63	1.90	1.48	1.18
43 D 9803	3585.5	140-100-20	300	L	3.72	1.96	1.53	1.22
43 D 9176	3586*	150-100-30	300	L	3.81	2.03	1.58	1.26
43 D 9615	3608.6	60-200-30	350-150-150	J	3.00	1.62	1.26	1.01
43 D 9811	3610	125-5-100	350-200-75	H	3.18	1.64	1.28	1.02
43 D 9812	3636	30-20-20	350-350-25	B	1.80	.99	.77	.62
43 D 9818	3638.7	30-20-100	350-350-150	H	2.40	1.31	1.02	.82
43 D 9616	3641	60-50-50	350	L	2.94	1.72	1.34	1.07
43 D 9820	3642	80-60-60	350	L	3.33	1.91	1.49	1.19
43 D 9618	3684	80-40-150	400-400-50	L	3.15	1.81	1.41	1.13
43 D 9822	3685	100-10-20	400-400-50	K	2.70	1.65	1.29	1.03
43 D 9163	3689.3	100-10-80	400-400-350	L	3.66	2.04	1.59	1.27
43 D 9823	3708.2	10-100-200	450-200-25	E	2.16	1.17	.91	.73
43 D 9619	3713.7	10-40-10	450-300-150	G	1.86	1.14	.88	.71
43 D 9158	3731	10-10-20	450-450-25	B	1.44	.90	.70	.56
43 D 9160	3739	20-20-20	450-450-25	D	1.83	1.05	.82	.66
43 D 9161	3744	40-40-20	450-450-25	H	2.34	1.50	1.17	.83
43 D 9157	3757	80-20-100	450-450-50	L	2.88	1.75	1.36	1.09
43 D 9129	3776	10-10-10	450	C	1.56	.97	.76	.61

For Your Nearest Allied Facility, See Page Opposite Inside Front Cover

Twist-Prong Electrolytic Capacitors

SPRAGUE
THE MARK OF RELIABILITY

TWIST-PRONG CAPACITOR SIZE CHART

Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L	Code	Dia. x L
A	¾x2″	C	1x2½″	E	1x3½″	G	1⅜x2″	J	1⅜x3″	L	1⅜x4″
B	1x2″	D	1x3″	F	1x4″	H	1⅜x2½″	K	1⅜x3½″	M	1x1½″

TRIPLE SECTION (Cont'd) Av. shpg. wt., 1½ lbs.

Stock No.	Type TVL-	Cap. Mfd	WVDC	Size	EACH 1-24	25-49	50-99	100-249
43 D 9130	3778	15-15-10	450	E	1.80	1.05	.82	.66
43 D 9131	3779	20-10-10	450	D	1.74	1.04	.81	.65
43 D 9132	3780	20-20-20	450	H	2.16	1.34	1.04	.84
43 D 9136	3785	40-40-10	450	H	2.49	1.56	1.21	.97
43 D 9137	3786	40-40-20	450	J	2.67	1.65	1.28	1.03
43 D 9138	3787	40-40-40	450	J	2.94	1.81	1.41	1.13
43 D 9091	4414	60-40-20-200	150-150-150-10	G	2.07	1.22	.95	.76
43 D 9082	4415	30-30-30-40	150-150-150-25	G	1.86	1.13	.88	.71
43 D 9087	4431	80-40-40-20	150-150-150-25	G	2.13	1.23	.96	.77
43 D 9097	4440	250-200-10-25	150-150-150-50	L	3.21	1.78	1.39	1.11
43 D 9079	4441	40-40-40-30	150	G	1.98	1.20	.94	.75
43 D 9828	4450	200-200-60-30	175	L	3.33	1.97	1.53	1.23
43 D 9831	4559	10-200-140-30	300-150-150-150	K	3.06	1.64	1.28	1.02
43 D 9072	4561	100-10-200-30	300-300-150-150	L	3.54	1.82	1.42	1.13
43 D 9833	4574	150-30-30-150	300-300-300-50	L	3.66	1.94	1.51	1.21
43 D 9722	4579	40-40-20-10	300	K	2.73	1.43	1.12	.89
43 D 9139	3789	60-20-20	450	J	2.76	1.65	1.28	1.03
43 D 9151	3793	80-40-20	450	L	3.24	1.97	1.53	1.22
43 D 9826	3816	40-80-10	475-450-450	L	3.30	1.94	1.51	1.21
43 D 9124	3935	40-40-100	500-500-200	L	3.48	1.97	1.53	1.23
43 D 9121	3952	10-10-10	500	D	1.62	1.05	.82	.66
43 D 9122	3956	30-20-20	500	J	2.52	1.62	1.26	1.01
43 D 9050	4670	80-40-30-40	400-400-400-25	L	3.57	2.01	1.57	1.25
43 D 9875	4671.2	80-40-10-100	400-400-400-200	L	3.81	2.08	1.62	1.30
43 D 9876	4672	80-40-30-4	400-400-400-350	L	3.54	2.01	1.56	1.25
43 D 9878	4720	40-40-30-30	450-450-350-350	L	3.54	1.90	1.48	1.18
43 D 9042	4724.2	20-20-20-20	450-450-450-25	H	2.49	1.43	1.11	.89
43 D 9043	4734	40-30-10-20	450-450-450-25	J	2.70	1.60	1.25	1.00
43 D 9046	4739	40-40-40-40	450-450-450-25	J	3.30	1.89	1.47	1.18
43 D 9031	4760	10-10-10-10	450	G	2.01	1.25	.98	.78

FOUR SECTION Av. shpg. wt., 1½ lbs.

Stock No.	Type TVL-	Cap. Mfd	WVDC	Size	EACH 1-24	25-49	50-99	100-249
43 D 9853	4605.3	140-100-20-20	350-300-300-300	L	4.62	2.24	1.74	1.39
43 D 9866	4605.5	160-60-10-4	350-300-300-300	L	3.78	2.08	1.62	1.30
43 D 9867	4608	60-20-80-100	350-350-150-50	L	2.94	1.61	1.26	1.01
43 D 9066	4609	60-40-60-20	350-350-200-150	K	3.03	1.61	1.25	1.00
43 D 9869	4631	70-40-10-50	350-350-350-50	J	3.15	1.61	1.25	1.00
43 D 9872	4635.3	40-40-40-40	350	L	3.60	1.80	1.40	1.12
43 D 9055	4635.7	80-60-40-20	350	L	3.84	1.99	1.55	1.24
43 D 9052	4654	40-80-100-25	400-350-200-50	K	3.57	1.91	1.49	1.19
43 D 9873	4666.2	100-10-20-20	400-400-350-50	L	4.92	1.81	1.41	1.13
43 D 9033	4763	20-20-20-20	450	J	2.82	1.58	1.23	.98
43 D 9034	4769.4	30-30-20-20	450	J	3.12	1.72	1.34	1.07
43 D 9036	4773	40-40-20-20	450	K	3.33	1.90	1.48	1.18
43 D 9037	4774	40-40-30-30	450	L	3.63	2.04	1.59	1.27
43 D 9038	4775	40-40-40-40	450	L	3.87	2.19	1.70	1.36
43 D 9887	4801	20-80-20-10	475-300-300-300	K	3.00	1.60	1.25	1.00
43 D 9896	4805.2	10-80-40-100	475-400-400-50	L	3.48	1.95	1.52	1.22
43 D 9023	4832	20-20-10-10	475	H	2.61	1.49	1.16	.93
43 D 9024	4834	20-20-20-20	475	J	3.06	1.51	1.17	.94
43 D 9025	4840	40-20-10-10	475	J	3.06	1.68	1.31	1.05
43 D 9020	4940	10-10-10-10	500	G	2.10	1.36	1.06	.85

TYPE 600D 125°C EXTRALYTIC HIGH GRADE ALUMINUM ELECTROLYTICS

- Temperature Range —55°C to +125°C
- Voltage Ratings up to 150 Volts DC
- Compact and Lightweight
- Half the Cost of Tantalum Types

High grade aluminum electrolytics offering operating temperature range from −55° C to +125° C and voltage ratings up to 150 volts DC. Performance comparable to military-grade tantalum foil capacitors at about half the cost with smaller size, and lighter weight. Closely approximate electrical requirements of MIL-C-3965. Moreover, units are available for operation at 125° C at higher voltages than those shown in the military specification. Dual-rated, may be employed for either 85° C or 125° C operation, unlike MIL-style tantalum capacitors, which have different case sizes for the two operating temperatures, creating stocking problems. After high-temperature shelf testing, these capacitors have displayed a stability of capacitance, dissipation factor, and DC leakage current that indicates a storage capacity of at least five years. Designed for long, reliable life at normal conditions. Withstand 200-hour life test at either temperature, and corresponding working voltage. Withstand vibration from 10 to 2000 cycles at 15 g without internal damage. Tolerance is −10% and +75% up to 75 WVDC; −10% and +50% for 100 WVDC up. All types include insulating sleeve. Sizes in chart for bare can only; add 1/64″ to dia. and 1/16″ to length for insulating sleeve. Av. shpg. wt., 3 oz.

PRICE AND SIZE LOCATOR

*Case Code	Dia. x L., In.	EACH 1-9	10-24	25-49	50-99	100-499	500-999
A	⅜x1 3/16	2.86	2.14	1.44	1.26	.899	.827
B	⅜x1 5/16	3.06	2.29	1.54	1.34	.962	.885
C	⅜x1⅛	3.98	2.98	2.00	1.75	1.254	1.152
D	⅜x1⅜	5.98	4.48	3.00	2.62	1.874	1.722
E	⅜x1⅝	6.14	4.60	3.08	2.69	1.924	1.772
F	⅜x2 3/16	6.58	4.93	3.30	2.88	2.064	1.892

Stock No.	Mfr's Type 600 D	Mfd	WVDC @ 85° C	WVDC @ 125° C	*
43 D 0958	147G007DC4	140	7	5	A
43 D 0959	217G007DD4	210	7	5	B
43 D 0961	287G007DE4	280	7	5	C
43 D 0962	427G007DG4	420	7	5	D
43 D 0963	567G007DJ4	560	7	5	E
43 D 0964	857G007DL4	850	7	5	F
43 D 0965	956G015DC4	95	15	10	A
43 D 0966	147G015DD4	140	15	10	B
43 D 0967	197G015DE4	190	15	10	C
43 D 0968	297G015DG4	290	15	10	D
43 D 0969	397G015DJ4	390	15	10	E
43 D 0970	587G015DL4	580	15	10	F
43 D 0971	706G020DC4	70	20	15	A
43 D 0972	107G020DD4	100	20	15	B
43 D 0973	147G020DE4	140	20	15	C
43 D 0974	227G020DG4	220	20	15	D
43 D 0975	297G020DJ4	290	20	15	E
43 D 0976	447G020DL4	440	20	15	F
43 D 0977	506G025DC4	50	25	20	A
43 D 0978	756G025DD4	75	25	20	B
43 D 0979	107G025DE4	100	25	20	C
43 D 0980	157G025DG4	150	25	20	D
43 D 0981	217G025DJ4	210	25	20	E
43 D 0982	317G025DL4	310	25	20	F
43 D 0983	306G040DC4	30	40	30	A
43 D 0984	506G040DD4	50	40	30	B
43 D 0985	706G040DE4	70	40	30	C
43 D 0986	107G040DG4	100	40	30	D
43 D 0987	147G040DJ4	140	40	30	E
43 D 0988	217G040DL4	210	40	30	F
43 D 0989	206G050DC4	20	50	40	A
43 D 0990	356G050DD4	35	50	40	B
43 D 0991	506G050DE4	50	50	40	C
43 D 0992	756G050DG4	75	50	40	D
43 D 0993	107G050DJ4	100	50	40	E
43 D 0994	157G050DL4	150	50	40	F
43 D 0995	186G060DC4	18	60	50	A
43 D 0996	256G060DD4	25	60	50	B
43 D 0997	406G060DE4	40	60	50	C
43 D 0998	606G060DG4	60	60	50	D
43 D 0999	806G060DJ4	80	60	50	E
43 D 1031	127G060DL4	120	60	50	F
43 D 1032	156G070DC4	15	70	60	A
43 D 1033	206G070DD4	20	70	60	B
43 D 1034	306G070DE4	30	70	60	C
43 D 1035	506G070DG4	50	70	60	D
43 D 1036	656G070DJ4	65	70	60	E
43 D 1038	107G070DL4	100	70	60	F
43 D 1040	805G100DC4	8	100	75	A
43 D 1041	136G100DD4	13	100	75	B
43 D 1043	176G100DE4	17	100	75	C
43 D 1044	256G100DG4	25	100	75	D
43 D 1045	356G100DJ4	35	100	75	E
43 D 1046	506G100DL4	50	100	75	F
43 D 1047	605F150DC4	6	150	100	A
43 D 1048	905F150DD4	9	150	100	B
43 D 1049	126F150DE4	12	150	100	C
43 D 1050	186F150DG4	18	150	100	D
43 D 1051	256F150DJ4	25	150	100	E
43 D 1053	376F150DL4	37	150	100	F
43 D 1054	405F200DC4	4	200	150	A
43 D 1055	605F200DD4	6	200	150	B
43 D 1056	805F200DE4	8	200	150	C
43 D 1057	136F200DG4	13	200	150	D
43 D 1060	176F200DJ4	17	200	150	E
43 D 1061	266F200DL4	26	200	150	F

For Similarly Rated Electrolytics, See Mallory and C-D Listings

Subminiature Capacitors

SPRAGUE
THE MARK OF RELIABILITY

TE "LITTL-LYTIC" (30D) SUBMINIATURE ELECTROLYTICS

- For All Types of Transistorized Equipment
- Dependable All-Welded Construction
- Plastic Sleeve for Corrosion Resistance
- Hermetically Sealed and Metal-Enclosed

*Code	Size	*Code	Size
A	3/16x1/2"	F	3/8x13/16"
B	1/4x1/2"	G	3/8x15/16"
C	1/4x11/16"	H	3/8x1 1/4"
D	5/16x11/16"	J	3/8x1 1/2"
E	3/8x11/16"		

Ultra-small dependable 30D Series subminiature electrolytic capacitors provide high reliability for transistorized and printed circuit applications. Ideal for radios, hearing aids, wireless microphones and a variety of other electronic equipment. Hermetically-sealed and metal enclosed, with clear plastic outer insulating sleeves for corrosion resistance in hot, humid conditions. All-welded construction—no pressure joints to cause open or intermittent circuits. Will withstand temperatures of up to 85° C (185° F) without derating. Leakage current is extremely low, with long shelf life. All dimensions are given in sequence of diameter by length. Av. shpg. wt., 2 oz.

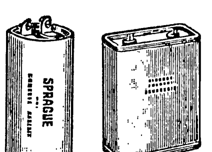
IMPORTANT ORDERING INFORMATION

If a capacitance you require is not listed in the voltage desired, go to the higher voltage where the capacitance is listed. For example: 1, 2, 3 and 4 mfd capacitors are not available at less than 25 WVDC, as all voltages below this are the same size and approximate price as the 25 WVDC.
Equivalent Type Available—See Page 173

Stock No.	Mfr's Type	Mfd	WV DC	*	EACH 1-24	25-49	50-99	100-249	250-499
43 D 1779	TE1200	1	25	A	.54	.41	.32	.26	.21
43 D 1784	TE1300	1	50	A	.54	.41	.32	.26	.21
43 D 1026	TE1400	1	100	G	.81	.60	.47	.37	.31
43 D 1797	TE1500	1	150	G	.84	.63	.49	.39	.32
43 D 1780	TE1201	2	25	A	.57	.41	.32	.26	.21
43 D 6642	TE1301	2	50	B	.54	.41	.32	.26	.21
43 D 1792	TE1401	2	100	G	.81	.60	.47	.37	.31
43 D 1798	TE1501	2	150	G	.84	.63	.49	.39	.32
43 D 1021	TE1201.1	3	25	A	.57	.43	.33	.27	.22
43 D 1785	TE1302	3	50	B	.57	.43	.33	.27	.22
43 D 1029	TE1502	3	150	G	.84	.63	.49	.39	.32
43 D 1022	TE1201.2	4	25	A	.57	.43	.34	.27	.22
43 D 6643	TE1302.1	4	50	C	.57	.43	.34	.27	.22
43 D 1794	TE1403	4	100	G	.81	.60	.47	.37	.31
43 D 1799	TE1503	4	150	G	.84	.63	.49	.39	.32
43 D 1739	TE1052.2	5	3	A	.51	.38	.29	.24	.20
43 D 6034	TE1084	5	6	A	.54	.39	.30	.24	.20
43 D 6044	TE1127	5	12	A	.57	.41	.32	.26	.21
43 D 6624	TE1152	5	15	A	.57	.42	.33	.26	.22
43 D 6046	TE1202	5	25	A	.57	.43	.34	.27	.22
43 D 1786	TE1303	5	50	C	.57	.43	.34	.27	.22
43 D 6646	TE1404	5	100	G	.81	.60	.47	.38	.31
43 D 6651	TE1504	5	150	G	.84	.63	.49	.39	.32
43 D 1750	TE1085	6	6	A	.54	.39	.30	.24	.20
43 D 1777	TE1153	6	15	B	.57	.42	.33	.26	.22
43 D 6047	TE1203	6	25	C	.57	.43	.34	.27	.22
43 D 1025	TE1303.1	6	50	D	.81	.59	.46	.37	.31
43 D 1795	TE1405	6	100	G	.81	.60	.47	.38	.31
43 D 1800	TE1505	6	150	H	.84	.63	.49	.39	.32
43 D 6035	TE1086	8	6	A	.54	.39	.30	.24	.20
43 D 1018	TE1154	8	15	B	.57	.42	.33	.26	.22
43 D 1023	TE1203.5	8	25	C	.60	.44	.34	.27	.23
43 D 1788	TE1303.3	8	50	D	.81	.60	.46	.37	.31
43 D 1027	TE1406	8	100	G	.81	.61	.47	.38	.31
43 D 1801	TE1506	8	150	H	.84	.63	.49	.40	.32
43 D 1742	TE1053	10	3	A	.51	.38	.29	.24	.20
43 D 6036	TE1087	10	6	B	.54	.39	.30	.24	.20
43 D 1756	TE1114	10	10	B	.57	.41	.32	.26	.21
43 D 6045	TE1128	10	12	B	.57	.41	.32	.26	.21
43 D 6625	TE1155	10	15	B	.57	.42	.33	.26	.22
43 D 6048	TE1204	10	25	C	.60	.44	.34	.28	.23
43 D 1789	TE1304	10	50	D	.81	.60	.47	.37	.31
43 D 6647	TE1407	10	100	G	.81	.61	.47	.38	.31
43 D 6652	TE1507	10	150	H	.84	.63	.49	.40	.33
43 D 1030	TE1508	12	150	J	.87	.65	.51	.40	.33
43 D 6037	TE1089	15	6	B	.54	.39	.30	.24	.20
43 D 1009	TE1116	15	10	B	.57	.41	.32	.26	.21
43 D 1763	TE1129	15	12	C	.57	.41	.32	.26	.21
43 D 6626	TE1156	15	15	C	.57	.42	.33	.26	.22
43 D 6049	TE1205	15	25	D	.75	.56	.43	.35	.29
43 D 1790	TE1304.2	15	50	E	.81	.61	.48	.38	.31
43 D 1028	TE1408	15	100	H	.84	.62	.48	.39	.32
43 D 1751	TE1090	20	6	C	.54	.39	.30	.24	.20
43 D 1013	TE1130	20	12	C	.57	.41	.32	.26	.21

Stock No.	Mfr's Type	Mfd	WV DC	*	EACH 1-24	25-49	50-99	100-249	250-499
43 D 1019	TE1157	20	15	C	.57	.42	.33	.26	.22
43 D 6636	TE1206	20	25	E	.81	.61	.48	.38	.32
43 D 6644	TE1305	20	50	F	.81	.61	.48	.38	.32
43 D 6649	TE1409	20	100	J	.84	.63	.49	.39	.32
43 D 6028	TE1055	25	3	B	.51	.38	.29	.24	.20
43 D 6038	TE1091	25	6	C	.54	.39	.30	.24	.20
43 D 6043	TE1118	25	10	C	.75	.56	.43	.35	.29
43 D 1765	TE1131	25	12	C	.75	.56	.43	.35	.29
43 D 6628	TE1157.1	25	15	D	.75	.56	.43	.35	.29
43 D 6637	TE1207	25	25	E	.81	.61	.48	.38	.32
43 D 6039	TE1092	30	6	C	.57	.43	.33	.27	.22
43 D 6629	TE1158	30	15	D	.75	.56	.43	.35	.29
43 D 1752	TE1093	35	6	C	.57	.43	.33	.27	.22
43 D 1014	TE1132	35	12	D	.75	.56	.43	.35	.29
43 D 6630	TE1159	35	15	E	.75	.56	.43	.35	.29
43 D 6638	TE1208	35	25	F	.81	.61	.48	.38	.32
43 D 6662	TE1306	35	50	H	.84	.63	.49	.40	.33
43 D 1746	TE1057	40	3	C	.72	.53	.42	.33	.28
43 D 1006	TE1095	40	6	C	.57	.43	.33	.27	.22
43 D 1747	TE1058	50	3	C	.72	.53	.42	.33	.28
43 D 6041	TE1100	50	6	D	.75	.56	.43	.35	.29
43 D 6621	TE1119	50	10	E	.81	.61	.48	.38	.32
43 D 1767	TE1133	50	12	E	.81	.61	.48	.38	.32
43 D 6631	TE1160	50	15	E	.81	.61	.48	.38	.32
43 D 6639	TE1209	50	25	G	.81	.61	.48	.38	.32
43 D 6645	TE1307	50	50	J	.87	.65	.51	.41	.34
43 D 6026	TE1101	60	6	D	.75	.56	.43	.35	.29
43 D 1748	TE1059	75	3	D	.75	.56	.43	.35	.29
43 D 6659	TE1101.5	75	6	E	.81	.61	.48	.38	.32
43 D 1768	TE1134	75	12	F	.81	.61	.48	.38	.32
43 D 1020	TE1161	75	15	F	.81	.61	.48	.38	.32
43 D 1024	TE1210	75	25	H	.87	.65	.50	.40	.33
43 D 1749	TE1059.5	100	3	D	.81	.61	.48	.38	.32
43 D 1753	TE1102	100	6	E	.81	.61	.48	.38	.32
43 D 6622	TE1119.3	100	10	F	.81	.61	.48	.38	.32
43 D 1769	TE1135	100	12	F	.81	.61	.48	.38	.32
43 D 6633	TE1162	100	15	G	.81	.61	.48	.38	.32
43 D 6641	TE1211	100	25	J	.90	.67	.52	.42	.34
43 D 1003	TE1061	150	3	E	.81	.61	.48	.38	.32
43 D 1754	TE1103	150	6	G	.81	.61	.48	.38	.32
43 D 6634	TE1163	150	15	H	.87	.66	.51	.41	.34
43 D 6654	TE1064	200	3	F	.81	.61	.48	.38	.32
43 D 1007	TE1104	200	6	H	.84	.63	.49	.40	.33
43 D 6623	TE1119.6	200	10	H	.96	.72	.56	.45	.37
43 D 1771	TE1137	200	12	H	.96	.72	.56	.45	.37
43 D 6635	TE1164	200	15	J	.96	.72	.56	.45	.37
43 D 1004	TE1065	250	3	G	.81	.61	.48	.38	.32
43 D 1008	TE1105	250	6	H	.87	.66	.51	.41	.34
43 D 1772	TE1138	250	12	H	.96	.72	.56	.45	.37
43 D 6656	TE1066	300	3	H	.87	.66	.51	.41	.34
43 D 6661	TE1106	300	6	J	.93	.69	.54	.43	.36
43 D 1005	TE1067	400	3	H	.93	.70	.55	.44	.36
43 D 6658	TE1068	500	3	J	.99	.75	.58	.47	.38

ENERGY-STORAGE CAPACITORS FOR PHOTOFLASH AND LASER APPLICATIONS



A B

Designed expressly for photoflash and laser applications. Provide very low leakage for either dry-battery or AC-operated power supplies. Miniature-size capacitors are extremely lightweight, and dependable in performance.

[A] **Type FF-1 525-Mfd Capacitor.** Highly stable film formation ensures long life. Weighs only 11 oz. 450 WVDC. Nominal rating, 53 watt-seconds.
43 D 5726 .... 13.50

[B] **Type PQ Capacitors.** Hermetically sealed, oil-impregnated, and oil-filled. Have high insulation resistance. Combine smallest possible construction with maximum operational dependability.

Stock No.	Type PQ-	Mfd	DC Peak Volts	Watt/ Sec.	Size TxWxH"	Wt., Lbs.	EACH
43 D 5730	2510	10	2500	31	2 1/4x3 3/4x4 1/2"	1 3/4	15.00
43 D 5731	2515	15	2500	47	3 3/16x3 3/4x4 3/4"	2 1/2	19.86
43 D 5734	2525	25	2500	78	4 9/16x3 3/4x5 1/8"	4 1/4	28.50
43 D 5733	2535	35	2500	109	4 9/16x3 3/4x7"	6	34.80
43 D 5724	315	15	3000	67	3 3/16x3 1/4x4 3/4"	3	22.11
43 D 5728	425	25	4000	200	4 9/16x3 3/4x9 5/8"	7 1/4	44.01

Specify Manufacturer's Type No. and Capacitance on Capacitor Orders

"Powerlytic" Aluminum Electrolytic Capacitors

SPRAGUE — THE MARK OF RELIABILITY

TYPE 39D MINIATURE INSULATED COMPUTER GRADE ALUMINUM ELECTROLYTICS

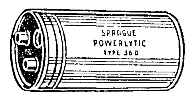
Greatest possible capacitance in small case, ideal for transistor circuits. Welded terminals; no riveted or pressure connections to cause open circuits at low signals. 2½" axial leads. Low ESR and leakage current. With plastic sleeve. Up to 85° C. Tol.: 3-50 WV, —10, +75%; 150-450 WV, —10, +50%. Av., 4 oz.

Stock No.	Type 39D	Mfd	WV DC	Size (Dia.xL.)	EACH 1-24	25-49	50-99
43 D 6484	138G003EL4	1300	3	9/16x2¼"	1.67	.98	.75
43 D 6485	218G003HE4	2100	3	15/16x1¼"	1.74	1.02	.79
43 D 6486	308G003JE4	3000	3	1 1/16x1¼"	1.89	1.11	.85
43 D 6487	578G003GP4	5700	3	13/16x2¾"	2.01	1.18	.91
43 D 6488	109G003HS4	10000	3	15/16x3¼"	2.52	1.48	1.14
43 D 6489	189G003JT4	18000	3	1 1/16x3¾"	3.15	1.84	1.42
43 D 6490	607G006EJ4	600	6	9/16x1¾"	1.62	.95	.73
43 D 6491	108G006GE4	1000	6	13/16x1¼"	1.68	.99	.76
43 D 6492	208G006GJ4	2000	6	13/16x1¾"	1.79	1.05	.81
43 D 6493	408G006GP4	4000	6	13/16x2¾"	2.01	1.18	.91
43 D 6494	608G006HP4	6000	6	15/16x2¾"	2.07	1.21	.94
43 D 6495	109G006JS4	10000	6	1 1/16x3¼"	2.91	1.70	1.31
43 D 6496	507G010EJ4	500	10	9/16x1¾"	1.62	.95	.73
43 D 6497	108G010FJ4	1000	10	11/16x1¾"	1.71	1.00	.77
43 D 6498	168G010FL4	1600	10	11/16x2¼"	1.77	1.04	.80
43 D 6499	258G010GL4	2500	10	13/16x2¼"	1.95	1.14	.88
43 D 6500	508G010HP4	5000	10	13/16x2¾"	2.07	1.21	.94
43 D 6503	109G010JT4	10000	10	1 1/16x3¾"	3.15	1.84	1.42
43 D 6504	607G015EL4	600	15	9/16x2¼"	1.67	.98	.75
43 D 6505	128G015FL4	1200	15	11/16x2¼"	1.77	1.04	.80
43 D 6507	285G015GP4	2500	15	13/16x2¾"	2.01	1.18	.91
43 D 6509	408G015JL4	4000	15	1 1/16x2¼"	2.43	1.42	1.10
43 D 6510	808G015JT4	8000	15	1 1/16x3¾"	3.15	1.84	1.42
43 D 6511	207G025EJ4	200	25	9/16x1¾"	1.62	.95	.73
43 D 6512	507G025HE4	500	25	15/16x1¼"	1.74	1.02	.79
43 D 6513	108G025GL4	1000	25	13/16x2¼"	1.95	1.14	.88
43 D 6514	228G025HP4	2200	25	15/16x2¾"	2.07	1.21	.94
43 D 6515	408G025JT4	4000	25	1 1/16x3¼"	3.15	1.84	1.42
43 D 6516	756G030EE4	75	30	9/16x1¼"	1.59	.93	.72
43 D 6517	157G030EJ4	150	30	9/16x1¾"	1.62	.95	.73
43 D 6518	257G030EL4	250	30	9/16x2¼"	1.67	.98	.75
43 D 6519	507G030FL4	500	30	11/16x2¼"	1.77	1.04	.80

Stock No.	Type 39D	Mfd	WV DC	Size (Dia.xL.)	EACH 1-24	25-49	50-99
43 D 6523	118G030GP4	1100	30	13/16x2¾"	2.01	1.18	.91
43 D 6524	218G030HS4	2100	30	15/16x3¼"	2.52	1.48	1.14
43 D 6525	308G030JS4	3000	30	1 1/16x3¼"	2.91	1.70	1.31
43 D 6526	506G050EE4	50	50	9/16x1¼"	1.59	.93	.72
43 D 6528	107G050EJ4	100	50	9/16x1¾"	1.62	.95	.73
43 D 6529	157G050EL4	150	50	9/16x2¼"	1.67	.98	.75
43 D 6531	257G050HE4	250	50	15/16x1¼"	1.74	1.02	.79
43 D 6533	507G050GL4	500	50	13/16x2¼"	1.95	1.14	.88
43 D 6534	118G050HP4	1100	50	15/16x2¾"	2.07	1.21	.94
43 D 6537	238G050JT4	2300	50	1 1/16x3¾"	3.15	1.84	1.42
43 D 6538	256F150EJ4	25	150	9/16x1¾"	1.62	.95	.73
43 D 6539	506F150FJ4	50	150	11/16x1¾"	1.71	1.00	.77
43 D 6540	107F150FP4	100	150	11/16x2¾"	1.92	1.13	.87
43 D 6541	257F150HP4	250	150	15/16x2¾"	2.07	1.21	.94
43 D 6542	537F150JT4	530	150	1 1/16x3¾"	3.15	1.84	1.42
43 D 6543	206F250EL4	20	250	9/16x2¼"	1.67	.98	.75
43 D 6544	506F250JE4	50	250	1 1/16x1¼"	1.89	1.11	.85
43 D 6545	107F250HL4	100	250	15/16x2¼"	2.06	1.20	.93
43 D 6547	207F250JP4	200	250	1 1/16x2¾"	2.58	1.51	1.16
43 D 6548	307F250JT4	300	250	1 1/16x3¾"	3.15	1.84	1.42
43 D 6549	206F350FL4	20	350	11/16x2¼"	1.77	1.04	.80
43 D 6550	306F350FP4	30	350	11/16x2¾"	1.92	1.13	.87
43 D 6551	406F350GL4	40	350	13/16x2¼"	1.95	1.14	.88
43 D 6553	506F350GP4	50	350	13/16x2¾"	2.01	1.18	.91
43 D 6554	107F350HS4	100	350	15/16x3¼"	2.52	1.48	1.14
43 D 6555	167F350JT4	160	350	1 1/16x3¾"	3.15	1.84	1.42
43 D 6556	505F450EL4	5	450	9/16x2¼"	1.67	.98	.75
43 D 6558	106F450FL4	10	450	11/16x2¼"	1.77	1.04	.80
43 D 6561	206F450GL4	20	450	13/16x2¼"	1.95	1.14	.88
43 D 6563	506F450JP4	50	450	1 1/16x2¾"	2.58	1.51	1.16
43 D 6565	756F450JT4	75	450	1 1/16x3¾"	3.15	1.84	1.42

IMPROVED TYPE 36D "POWERLYTIC" INSULATED COMPUTER-GRADE ALUMINUM ELECTROLYTICS

Provide maximum capacitance in a given size. Low ESR and leakage currents. Long life. Plastic insulating tube withstands military environment conditions including —55° storage tests. Pressure safety vents. Tapped 10-32. —20° +85° C. Tol.: 3-50 WV, —10%, +75%; 75-450 WV, —10%, +50%. Av., 1½ lbs.



Stock No.	Type 36D. .2A	Mfd	WV DC	Size (Dia. x L.)	EACH 1-24	25-49	50-99
43 D 5020	274G003DF	270000	3	3 1/16x6"	10.97	9.60	7.41
43 D 5021	124G006DC	120000	6	3 1/16x4½"	8.20	7.17	5.54
43 D 5022	194G006DF	190000	6	3 1/16x6"	11.04	9.66	7.46
43 D 5023	602G010AA	6000	10	1 7/16x2½"	1.85	1.62	1.25
43 D 5025	123G010AB	12000	10	1 7/16x3½"	2.23	1.95	1.51
43 D 5026	183G010AC	18000	10	1 7/16x4½"	2.57	2.25	1.74
43 D 5027	283G010BB	28000	10	2 1/16x3½"	3.43	3.00	2.32
43 D 5028	423G010BC	42000	10	2 1/16x4½"	4.15	3.64	2.81
43 D 5029	483G010CB	48000	10	2 9/16x3½"	4.66	4.08	3.15
43 D 5030	104G010DC	100000	10	3 1/16x4½"	8.27	7.24	5.58
43 D 5031	164G010DF	160000	10	3 1/16x6"	11.10	9.71	7.49
43 D 5032	462G015AA	4600	15	1 7/16x2½"	1.85	1.62	1.25
43 D 5156	922G015AB	9200	15	1 7/16x3½"	2.24	1.96	1.51
43 D 5154	133G015AC	13000	15	1 7/16x4½"	2.58	2.26	1.74
43 D 5035	213G015BB	21000	15	2 1/16x3½"	3.45	3.02	2.33
43 D 5155	313G015BC	31000	15	2 1/16x4½"	4.16	3.64	2.81
43 D 5037	363G015CB	36000	15	2 9/16x3½"	4.68	4.10	3.16
43 D 5038	543G015CC	54000	15	2 9/16x4½"	6.14	5.37	4.14
43 D 5039	633G015CD	63000	15	2 9/16x5"	6.87	6.01	4.64
43 D 5040	803G015DC	80000	15	3 1/16x4½"	7.97	6.98	5.38
43 D 5041	272G025AA	2700	25	1 7/16x2½"	1.85	1.62	1.25
43 D 5042	552G025AB	5500	25	1 7/16x3½"	2.24	1.96	1.51
43 D 5050	822G025AC	8200	25	1 7/16x4½"	2.59	2.26	1.75
43 D 5051	183G025BC	18000	25	2 1/16x4½"	4.18	3.66	2.82
43 D 5052	323G025CC	32000	25	2 9/16x4½"	6.18	5.41	4.17
43 D 5053	473G025DC	47000	25	3 1/16x4½"	7.99	7.00	5.40
43 D 5054	553G025DD	55000	25	3 1/16x5"	9.51	8.33	6.42
43 D 5055	713G025DF	71000	25	3 1/16x6"	10.99	9.62	7.42
43 D 5056	363G030DC	36000	30	3 1/16x4½"	8.05	7.05	5.44
43 D 5057	423G030DD	42000	30	3 1/16x5"	9.56	8.36	6.45
43 D 5058	552G040AC	5500	40	1 7/16x4½"	2.60	2.28	1.76
43 D 5059	842G040BB	8400	40	2 1/16x3½"	3.50	3.06	2.36
43 D 5060	123G040BC	12000	40	2 1/16x4½"	4.26	3.73	2.88
43 D 5061	213G040CC	21000	40	2 9/16x4½"	6.22	5.45	4.20
43 D 5062	253G040CD	25000	40	2 9/16x5"	7.02	6.14	4.74
43 D 5063	132G050AA	1300	50	1 7/16x2½"	1.86	1.63	1.26
43 D 5064	262G050AB	2600	50	1 7/16x3½"	2.26	1.98	1.53
43 D 5065	392G050AC	3900	50	1 7/16x4½"	2.61	2.29	1.76
43 D 5066	602G050BB	6000	50	2 1/16x3½"	3.52	3.08	2.38
43 D 5067	902G050BC	9000	50	2 1/16x4½"	4.27	3.74	2.88
43 D 5068	153G050CC	15000	50	2 9/16x4½"	6.24	5.46	4.22
43 D 5069	223G050DC	22000	50	2 1/16x4½"	8.09	7.08	5.47
43 D 5085	252F075AC	2500	75	1 7/16x4½"	2.62	2.29	1.77
43 D 5086	392F075BB	3900	75	2 1/16x3½"	3.53	3.09	2.38

Stock No.	Type 36D. .2A	Mfd	WV DC	Size (Dia. x L.)	EACH 1-24	25-49	50-99
43 D 5087	592F075BC	5900	75	2 1/16x4½"	4.28	3.74	2.89
43 D 5088	113F075CD	11000	75	2 9/16x5"	7.08	6.20	4.78
43 D 5089	143F075DC	14000	75	3 1/16x4½"	8.14	7.12	5.49
43 D 5090	223F075DF	22000	75	3 1/16x6"	11.52	10.08	7.78
43 D 5091	451F100AA	450	100	1 7/16x2½"	1.86	1.63	1.26
43 D 5097	132F100AC	1300	100	1 7/16x4½"	2.60	2.28	1.76
43 D 5099	302F100BC	3000	100	2 1/16x4½"	4.24	3.71	2.86
43 D 5100	532F100CC	5300	100	2 9/16x4½"	6.22	5.45	4.20
43 D 5101	782F100DC	7800	100	3 1/16x4½"	8.50	7.44	5.74
43 D 5102	301F150AA	300	150	1 7/16x2½"	1.86	1.63	1.25
43 D 5103	901F150AC	900	150	1 7/16x4½"	2.58	2.26	1.74
43 D 5104	142F150BB	1400	150	2 1/16x3½"	3.45	3.02	2.33
43 D 5105	212F150BC	2100	150	2 1/16x4½"	4.18	3.66	2.82
43 D 5106	362F150CC	3600	150	2 9/16x4½"	6.24	5.46	4.22
43 D 5107	532F150DC	5300	150	3 1/16x4½"	8.42	7.37	5.68
43 D 5108	782F150DF	7800	150	3 1/16x6"	11.39	9.97	7.69
43 D 5109	251F200AA	250	200	1 7/16x2½"	1.85	1.62	1.25
43 D 5110	431F200AB	430	200	1 7/16x3½"	2.22	1.94	1.50
43 D 5111	641F200AC	640	200	1 7/16x4½"	2.56	2.24	1.73
43 D 5112	142F200BC	1400	200	2 1/16x4½"	4.11	3.60	2.78
43 D 5113	162F200CB	1600	200	2 9/16x3½"	4.70	4.11	3.17
43 D 5114	372F200DC	3700	200	3 1/16x4½"	8.21	7.18	5.54
43 D 5115	552F200DF	5500	200	3 1/16x6"	11.35	9.93	7.66
43 D 5116	531F250AC	530	250	1 7/16x4½"	2.55	2.23	1.72
43 D 5130	122F250BC	1200	250	2 1/16x4½"	4.09	3.58	2.76
43 D 5131	302F250DC	3000	250	3 1/16x4½"	8.19	7.16	5.53
43 D 5132	452F250DF	4500	250	3 1/16x6"	11.29	9.88	7.62
43 D 5133	241F300AB	240	300	1 7/16x3½"	2.20	1.92	1.49
43 D 5134	821F300BC	820	300	2 1/16x4½"	4.07	3.56	2.75
43 D 5135	212F300DC	2100	300	3 1/16x4½"	8.16	7.14	5.51
43 D 5136	950F350AA	95	350	1 7/16x2½"	1.84	1.61	1.24
43 D 5137	191F350AB	190	350	1 7/16x3½"	2.17	1.90	1.47
43 D 5138	421F350BB	420	350	2 1/16x3½"	3.17	2.78	2.14
43 D 5139	651F350BC	650	350	2 1/16x4½"	4.04	3.53	2.73
43 D 5140	112F350CC	1100	350	2 9/16x4½"	5.91	5.17	3.99
43 D 5141	162F350DC	1600	350	3 1/16x4½"	8.05	7.05	5.44
43 D 5142	252F350DF	2500	350	3 1/16x6"	11.08	9.69	7.48
43 D 5143	421F400BC	420	400	2 1/16x4½"	4.02	3.52	2.71
43 D 5144	500F450AA	50	450	1 7/16x2½"	1.80	1.58	1.22
43 D 5150	141F450AC	140	450	1 7/16x4½"	2.51	2.20	1.69
43 D 5151	221F450BB	220	450	2 1/16x3½"	3.23	2.82	2.18
43 D 5152	331F450BC	330	450	2 1/16x4½"	3.99	3.49	2.70
43 D 5153	861F450DC	860	450	3 1/16x4½"	8.37	7.33	5.65

Equivalent Available for Type 36D, See Page 169

Sprague Capacitors and Kits

SPRAGUE
THE MARK OF RELIABILITY

SERIES TL TRANSI-LYTIC (31D) MINIATURE CAPACITORS

Transi-lytic capacitors are miniature units specially designed for transistorized circuit applications. Ideal for use in pocket radios, walkie-talkies, intercoms, etc. Utilize low-leakage current construction to meet the stringent requirements of transistor circuitry. Have tough plastic cases with thermo-setting resin end-seals to provide excellent resistance to the effects of high humidity conditions. Operating temperature range —20°C to +65°C. Tolerance —10% to +100% of rated capacitance, measured at 120 cps and 25°C. **Important Note:** Values listed in table below combine the highest voltage with the smallest case size. Example: 1 mfd is only listed at 25 volts, as all lower voltages are the same size and price. Av. shpg. wt., 2 oz.

Equivalent Types Available—See Page 168

Stock No.	Mfr's Type	Mfd	WV DC	Dia. x L. (In.)	EACH 1-24	25-49	50-99	100-249
43 D 4117	TL1200	1	25	.180x.57	.42	.32	.25	.20
43 D 4118	TL1201	2	25	.180x.57	.42	.32	.25	.20
43 D 4095	TL1127	5	12	.180x.57	.42	.32	.25	.20
43 D 4104	TL1152	5	16	.218x.57	.42	.32	.25	.20
43 D 4112	TL1174	5	20	.210x.70	.45	.33	.26	.21
43 D 4119	TL1202	5	25	.250x.82	.45	.33	.26	.21
43 D 4086	TL1086	8	6	.180x.57	.42	.32	.25	.20
43 D 4113	TL1176	8	20	.210x.70	.45	.33	.26	.21
43 D 4120	TL1203.5	8	25	.250x.82	.45	.33	.26	.21
43 D 4076	TL1053	10	3	.180x.57	.42	.32	.25	.20
43 D 4097	TL1128	10	12	.210x.70	.42	.32	.25	.20
43 D 4121	TL1204	10	25	.250x.82	.45	.33	.26	.21
43 D 4107	TL1157.1	25	16	.250x.82	.45	.34	.27	.21
43 D 4115	TL1180	25	20	.312x.82	.54	.40	.31	.25
43 D 4122	TL1207	25	25	.375x1.07	.54	.41	.32	.25
43 D 4078	TL1058	50	3	.250x.82	.42	.32	.25	.20
43 D 4099	TL1133	50	12	.312x.82	.42	.32	.25	.20
43 D 4123	TL1209	50	25	.375x1.07	.54	.41	.32	.25
43 D 4079	TL1059.5	100	3	.250x.82	.45	.33	.26	.21
43 D 4109	TL1162	100	16	.375x1.07	.48	.36	.28	.23
43 D 4091	TL1103	150	6	.375x1.07	.60	.44	.35	.28
43 D 4092	TL1103.5	175	6	.375x1.07	.60	.44	.35	.28
43 D 4081	TL1064	200	3	.375x1.07	.54	.41	.32	.25
43 D 4082	TL1065	250	3	.375x1.07	.66	.49	.38	.30

AB PLASTIC-ENCASED MOTOR-STARTING CAPACITORS

Electrolytic capacitors designed for intermittent duty with 110 volt capacitor-start AC motors. Carefully engineered to pass the correct amount of current for maximum possible starting torque. Molded bakelite case for high efficiency and protection against moisture, dirt and grease. Dual-blade universal terminals take quick-connect connectors, also have notches and eyes for soldered leads. Includes two clip-on adapters with screws. When any question as to proper size arises, it is always safer to choose the next larger capacitance value. *Indicates minimum-maximum capacitance values replaceable. Type AB-1109 is for 1/8 hp motors; Type AB-1110, 1/6 hp; Type AB-1113 and AB-1116, 1/4 hp; Type AB-1125, 1/3 hp; Type AB-1130 and AB-1131, 1/2 hp; Type AB-1146 and AB-1149, 1 hp. Standard sizes to fit conventional type motor mounts. Av. shpg. wt., 10 oz.

Stock No.	Mfr's Type	* Mfd	Size (Dia. x L)	EACH
43 D 5529	AB-1104	38-46	1 7/16x2 3/4″	.76
43 D 5530	AB-1105	43-53	1 7/16x2 3/4″	.76
43 D 5531	AB-1107	53-64	1 7/16x2 3/4″	.77
43 D 5532	AB-1108	64-77	1 7/16x2 3/4″	.81
43 D 5533	AB-1109	72-88	1 7/16x2 3/4″	.83
43 D 5534	AB-1110	88-108	1 7/16x2 3/4″	.78
43 D 5535	AB-1113	108-130	1 7/16x2 3/4″	.86
43 D 5536	AB-1116	124-149	1 7/16x2 3/4″	.89
43 D 5537	AB-1119	130-156	1 7/16x2 3/4″	.89
43 D 5538	AB-1122	145-175	1 7/16x2 3/4″	.96
43 D 5539	AB-1125	161-193	1 7/16x3 3/8″	.98
43 D 5540	AB-1128	189-227	1 7/16x3 3/8″	1.13
43 D 5541	AB-1130	200-240	1 7/16x3 3/8″	1.17
43 D 5542	AB-1131	216-259	1 13/16x3 3/8″	1.22
43 D 5543	AB-1134	233-280	1 13/16x3 3/8″	1.35
43 D 5544	AB-1137	243-292	1 13/16x3 3/8″	1.41
43 D 5545	AB-1140	270-324	1 13/16x3 3/8″	1.43
43 D 5546	AB-1142	324-388	1 13/16x3 3/8″	1.62
43 D 5547	AB-1143	340-408	1 13/16x3 3/8″	1.67
43 D 5548	AB-1146	378-440	1 13/16x3 3/8″	1.80
43 D 5549	AB-1149	400-480	1 13/16x3 3/8″	1.82
43 D 5550	AB-1152	430-516	2 1/16x4 3/8″	2.09
43 D 5551	AB-1155	460-552	2 1/16x4 3/8″	2.28
43 D 5552	AB-1158	540-648	2 1/16x4 3/8″	2.45
43 D 5553	AB-1161	590-708	2 1/16x4 3/8″	2.66

192P "PACER" MINIATURE 200 WVDC CAPACITORS

Nearly three times smaller than conventional paper-film tubulars. Fit tight spots in small electronic assemblies that require high temperature operation and good humidity performance. Sizes are the same as composition resistors—may be used with resistors and diodes in modules. Non-inductor capacitors have metal end-caps over foil sections. High insulation resistance; epoxy coating. 200 WVDC. Ambient temperature range, —55° to +85° C. Derate 50% at 105° C. Tolerance, ±10%. Av. shpg. wt., 2 oz.

SIZE CHART

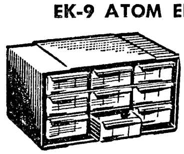
Code	Size	Code	Size	Code	Size	Code	Size
A	9/64x5/16″	D	11/64x1/2″	G	15/64x9/16″	K	21/64x5/8″
B	11/64x5/16″	E	7/32x7/16″	H	19/64x1/2″	L	21/64x7/8″
C	11/64x7/16″	F	7/32x9/16″	J	19/64x5/8″	M	21/64x1 3/16″

Stock No.	Type 192P	Mfd	Size Code	EACH 1-24	25-49	50-99	100-249
43 D 0334	47192	.00047	A	.33	.23	.18	.15
43 D 0360	56192	.00056	A	.30	.22	.17	.14
43 D 0361	68192	.00068	A	.30	.22	.17	.14
43 D 0362	82192	.00082	A	.30	.22	.17	.14
43 D 0335	10292	.001	A	.27	.19	.15	.12
43 D 0336	12292	.0012	A	.27	.19	.15	.12
43 D 0337	15292	.0015	A	.27	.19	.15	.12
43 D 0338	18292	.0018	B	.27	.19	.15	.12
43 D 0339	22292	.0022	B	.27	.19	.15	.12
43 D 0341	33292	.0033	B	.27	.19	.15	.12
43 D 0342	39292	.0039	C	.27	.19	.15	.12
43 D 0343	47292	.0047	C	.27	.20	.15	.12
43 D 0344	56292	.0056	C	.27	.20	.15	.12
43 D 0345	68292	.0068	C	.27	.20	.16	.13
43 D 0346	82292	.0082	D	.30	.21	.16	.13
43 D 0347	10392	.01	D	.30	.21	.17	.13
43 D 0348	12392	.012	E	.30	.22	.17	.14
43 D 0349	15392	.015	E	.30	.22	.17	.14
43 D 0350	18392	.018	F	.30	.22	.17	.14
43 D 0352	22392	.022	F	.30	.23	.18	.14
43 D 0353	33392	.033	G	.33	.25	.20	.16
43 D 0354	39392	.039	H	.36	.26	.21	.17
43 D 0355	47392	.047	H	.39	.28	.22	.17
43 D 0356	56392	.056	J	.39	.29	.23	.18
43 D 0357	68392	.068	J	.42	.31	.24	.19
43 D 0358	82392	.082	K	.45	.32	.25	.20
43 D 0359	10492	.1	K	.45	.34	.26	.21
43 D 0366	12492	.12	L	.48	.35	.27	.22
43 D 0367	15492	.15	L	.48	.35	.27	.22
43 D 0368	22492	.22	M	.51	.37	.29	.23

CAPACITOR KITS

Contain popular assortments of Atom electrolytics, Black Beauty, or Orange Drop capacitors. Perfect for service shop or laboratory. Supplied in compartmented steel cabinets or plastic cases. You know just where capacitors are—when you need them.

EK-9 ATOM ELECTROLYTIC CAPACITOR KIT



Deluxe assortment of Atom electrolytics, perfect for shop or lab—insures always having the correct electrolytic capacitor available when needed. Contains one each of the following TVA types (listed in table on page 159): 1205, 1207, 1303, 1304, 1306, 1308, 1310, 1410, 1413, 1422, 1704, 1705, 1709, 1711, 1712, 1716, 2450 and 2453. In blue plastic cabinet with nine clear plastic drawers, complete with adjustable dividers. 5x9¾x6¼″. Shpg. wt., 4 lbs.

43 D 9280..16.14

"BLACK BEAUTY" KITS

TK-1. Molded tubulars. 72 of the most common values. From .001 to .25 mfd. All are 600 WVDC. In plastic case with compartments; size, 1¾x11x6½″. Shpg. wt., 3 lbs.

43 D 3507..14.70

TK-6. Handsome two-drawer steel cabinet contains 119 molded tubulars in 10 popular ratings. From .001 to .25 mfd at 600 WVDC. Size, 4½x7x9¼″. Shpg. wt., 5 lbs.

43 D 9646..23.96

"ORANGE DROP" KITS

TK-12. 70 "Orange Drop" "Mylar" paper capacitors in 10 most popular ratings from .001 to .1 mfd at 600 WVDC. Supplied in handy plastic case with individual compartments. Dimensions, 1¾x11x6½″. Shpg. wt., 3 lbs.

43 D 1168..13.83

TK-24. Rugged 2-drawer steel cabinet contains 124 "Orange Drops" in the 13 most popular ratings from .001 to .25mfd at 600 WVDC. Cabinet size, 7x4½x9¼″. Shpg. wt., 5 lbs.

43 D 1169..24.90

Specify Manufacturer's Type No. and Capacitance on Capacitor Orders

Sprague Mylar-Paper Capacitors

SPRAGUE THE MARK OF RELIABILITY

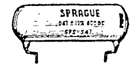
160P "BLACK BEAUTY" MYLAR-PAPER TUBULAR CAPACITORS

Molded tubular capacitors built for long life under high humidity and heat conditions. Mylar and paper dielectric combines best qualities of the two. Will not leak or drip; capacitor section solidly impregnated. 200 to 1600-volt types operate to 105°C without derating; 6000-volt up, to 85°C. 6000-volt types oil-impregnated. Tolerance, ±10%. Av. wt., 2 oz.

Equivalent Type Available—See Page 174

Stock No.	Mfr's Type	Mfd	WV DC	Size Dia. x L.	EACH 1-24	25-49	50-99	100-249
43 D 5119	2TM-S10	.01	200	5/16x1"	.18	.12	.10	.08
43 D 5120	2TM-S20	.02	200	3/8x1 1/4"	.18	.13	.10	.08
43 D 5149	2TM-S47	.047	200	7/16x1 1/4"	.21	.14	.11	.09
43 D 5121	2TM-S50	.05	200	7/16x1 1/4"	.21	.15	.11	.09
43 D 5122	2TM-P10	.1	200	1/2x1 1/2"	.21	.16	.12	.10
43 D 5145	2TM-P15	.15	200	1/2x1 1/2"	.24	.18	.14	.11
43 D 5146	2TM-P22	.22	200	5/8x1 7/8"	.33	.24	.18	.15
43 D 5147	2TM-P25	.25	200	5/8x1 7/8"	.36	.25	.20	.16
43 D 5148	2TM-P47	.47	200	3/4x2 1/4"	.42	.31	.24	.19
43 D 5123	2TM-P50	.5	200	3/4x2 1/4"	.75	.54	.42	.34
43 D 5124	2TM-M1	1.0	200	3/4x2 1/4"	1.05	.79	.61	.49
43 D 5118	4TM-D10	.001	400	5/16x1"	.18	.12	.10	.08
43 D 5117	4TM-D50	.005	400	5/16x1"	.18	.12	.10	.08
43 D 5125	4TM-S10	.01	400	3/8x1 1/4"	.18	.12	.10	.08
43 D 5001	4TM-S15	.015	400	3/8x1 1/4"	.18	.12	.10	.08
43 D 5126	4TM-S20	.02	400	3/8x1 1/4"	.18	.13	.10	.08
43 D 5002	4TM-S25	.025	400	7/16x1 1/4"	.21	.14	.11	.09
43 D 5014	4TM-S47	.047	400	7/16x1 1/4"	.21	.15	.12	.09
43 D 5127	4TM-S50	.05	400	7/16x1 1/4"	.24	.17	.13	.11
43 D 5128	4TM-P10	.1	400	1/2x1 1/2"	.24	.18	.14	.11
43 D 5011	4TM-P15	.15	400	5/8x1 7/8"	.33	.24	.19	.15
43 D 5521	4TM-P20	.2	400	5/8x1 7/8"	.36	.25	.20	.16
43 D 5012	4TM-P22	.22	400	5/8x1 7/8"	.36	.25	.20	.16
43 D 5129	4TM-P25	.25	400	3/4x2 1/4"	.54	.39	.30	.24
43 D 5005	4TM-P47	.47	400	3/4x2 1/4"	.63	.46	.36	.29
43 D 5010	4TM-P50	.5	400	3/4x2 1/4"	.75	.56	.44	.35
43 D 5009	4TM-M1	1.0	400	1x2 1/2"	1.26	.93	.72	.58
43 D 6250	6TM-T10	.0001	600	5/16x1"	.18	.12	.10	.08
43 D 6251	6TM-T25	.00025	600	5/16x1"	.18	.12	.10	.08
43 D 6253	6TM-T50	.0005	600	5/16x1"	.18	.12	.10	.08
43 D 5070	6TM-D10	.001	600	5/16x1"	.18	.12	.10	.08
43 D 5084	6TM-D15	.0015	600	5/16x1"	.18	.12	.10	.08
43 D 5071	6TM-D20	.002	600	5/16x1"	.18	.13	.10	.08
43 D 5095	6TM-D25	.0025	600	5/16x1"	.18	.13	.10	.08
43 D 5072	6TM-D30	.003	600	5/16x1"	.18	.13	.10	.08
43 D 5073	6TM-D40	.004	600	3/8x1 1/4"	.18	.14	.11	.09
43 D 5093	6TM-D47	.0047	600	3/8x1 1/4"	.18	.14	.11	.09
43 D 5074	6TM-D50	.005	600	3/8x1 1/4"	.21	.14	.11	.09
43 D 6254	6TM-D68	.0068	600	3/8x1 1/4"	.21	.14	.11	.09
43 D 5076	6TM-S10	.01	600	3/8x1 1/4"	.18	.14	.11	.08
43 D 5094	6TM-S15	.015	600	3/8x1 1/4"	.21	.14	.11	.09
43 D 5077	6TM-S20	.02	600	7/16x1 1/4"	.21	.15	.12	.09
43 D 6255	6TM-S22	.022	600	7/16x1 1/4"	.21	.15	.12	.09
43 D 5096	6TM-S25	.025	600	7/16x1 1/4"	.21	.16	.12	.10
43 D 5078	6TM-S30	.03	600	7/16x1 1/4"	.21	.16	.12	.10
43 D 5079	6TM-S40	.04	600	1/2x1 1/2"	.24	17	.13	.11
43 D 5098	6TM-S47	.047	600	1/2x1 1/2"	.24	.17	.13	.11
43 D 5080	6TM-S50	.05	600	1/2x1 1/2"	.27	.20	.15	.12
43 D 5081	6TM-S60	.06	600	1/2x1 1/2"	.27	.20	.15	.12
43 D 5007	6TM-S68	.068	600	1/2x1 1/2"	.27	.20	.15	.12
43 D 5082	6TM-P10	.1	600	5/8x1 7/8"	.33	.23	.18	.14
43 D 5524	6TM-P15	.15	600	5/8x1 7/8"	.45	.33	.25	.20
43 D 5525	6TM-P20	.2	600	3/4x2 1/4"	.60	.44	.34	.27
43 D 5008	6TM-P22	.22	600	3/4x2 1/4"	.60	.44	.34	.27
43 D 5083	6TM-P25	.25	600	3/4x2 1/4"	1.02	.75	.58	.46
43 D 6260	6TM-P50	.5	600	1x2 1/2"	1.05	.77	.60	.48
43 D 6261	6TM-M1	1.0	600	1x2 1/2"	1.38	1.02	.79	.63
43 D 5928	10TM-T50	.0005	1000	5/16x1"	.18	.13	.10	.08
43 D 5929	10TM-D10	.001	1000	5/16x1"	.18	.13	.10	.08
43 D 5936	10TM-D50	.005	1000	3/8x1 1/4"	.18	.13	.10	.08
43 D 5938	10TM-S10	.01	1000	7/16x1 1/4"	.21	.15	.12	.10
43 D 5945	10TM-S50	.05	1000	5/8x1 7/8"	.36	.25	.20	.16
43 D 5947	10TM-P10	.1	1000	3/4x2 1/4"	.57	.41	.32	.25
43 D 5019	MB-D1	.001	1600	3/8x1 1/4"	.21	.14	.11	.09
43 D 5161	MB-D5	.005	1600	1/2x1 1/2"	.30	.22	.17	.14
43 D 5166	MB-S1	.01	1600	5/8x1 7/8"	.39	.28	.22	.18
43 D 5168	MB-S2	.02	1600	5/8x1 7/8"	.45	.33	.26	.20
43 D 6277	MB-S3	.03	1600	3/4x2 1/4"	.63	.46	.36	.29
43 D 6278	MB-S4	.04	1600	3/4x2 1/4"	.69	.51	.40	.32
43 D 6280	TR-15	.05	1600	3/4x2 1/8"	.42	.41	.32	.25
43 D 5850	TVM-356	.0005	6000	9/16x1 7/8"	.81	.47	.37	.29
43 D 5851	TVM-216	.001	6000	9/16x1 7/8"	.81	.40	.38	.30
43 D 5852	TVM-256	.005	6000	11/16x2 1/4"	.81	.52	.40	.32
43 D 5853	TVM-351	.0005	10000	11/16x2 1/4"	.90	.52	.41	.33

220P AND 225P "ORANGE DROP" PRINTED CIRCUIT CAPACITORS



Compact dual dielectric "Orange Drops" combine best features of Mylar and special capacitor tissue. Rock-hard case has radial leads crimped for printed circuit board spacing. Double dipped in orange epoxy resin for extra protection against heat and moisture. Outside foil leads identified by black striping. Temperature range, —40°C to +85°C; can be operated to 125°C with proper voltag derating. Capacitance tolerance, ±10%. Av. wt., 2 oz.

TYPE 225P RECTANGULAR

Size, height by thickness. 45/64" long, except *3/4", †1 3/16".

Stock No.	Mfr's Type	Mfd	WV DC	Size	EACH 1-24	25-49	50-99	100-249	250-499
43 D 3570	1549R75	.15*	75	5/8x25/64"	.21	.16	.12	.10	.077
43 D 3571	2249R75	.22*	75	43/64x27/64"	.27	.19	.15	.12	.094
43 D 3572	3349R75	.33*	75	27/32x31/64"	.33	.24	.19	.15	.120
43 D 3573	4749R75	.47*	75	27/32x19/32"	.39	.28	.22	.18	.142
43 D 3574	6849R75	.68†	75	29/32x19/32"	.54	.39	.30	.24	.196
43 D 3575	1059R75	1.0†	75	63/64x47/64"	.66	.49	.38	.31	.248
43 D 3576	10291	.001	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3577	15291	.0015	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3578	22291	.0022	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3579	33291	.0033	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3580	47291	.0047	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3581	68291	.0068	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3582	10391	.01	100	5/16x13/64"	.15	.10	.08	.06	.049
43 D 3583	15391	.015	100	5/16x13/64"	.15	.10	.08	.07	.052
43 D 3631	18391	.018	100	5/16x13/64"	.15	.10	.08	.07	.052
43 D 3600	22391	.022	100	5/16x13/64"	.15	.11	.09	.07	.053
43 D 3632	27391	.027	100	21/64x15/64"	.15	.11	.09	.07	.054
43 D 3601	33391	.033	100	21/64x15/64"	.15	.11	.09	.07	.054
43 D 3603	39391	.039	100	11/32x1/4"	.15	.11	.09	.07	.056
43 D 3605	47391	.047	100	11/32x1/4"	.15	.12	.09	.07	.057
43 D 3608	56391	.056	100	3/8x9/32"	.18	.12	.10	.08	.059
43 D 3609	68391	.068	100	3/8x9/32"	.18	.12	.10	.08	.061
43 D 3611	82391	.082	100	17/32x21/64"	.18	.13	.10	.08	.063
43 D 3618	10491	.1	100	17/32x21/64"	.18	.13	.10	.08	.065

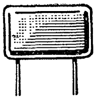
TYPE 220P TUBULAR

43 D 3017	2PS-S20	.02	200	3/8x7/8"	.15	.11	.09	.07	.056
43 D 3018	2PS-S47	.047	200	29/64x7/8"	.15	.13	.10	.08	.061
43 D 3019	2PS-S50	.05	200	15/32x7/8"	.15	.13	.10	.08	.065
43 D 3020	2PS-P10	.1	200	31/64x1 3/16"	.21	.15	.12	.09	.071
43 D 3138	2PS-P20	.2	200	19/32x1 5/16"	.24	.20	.16	.13	.099
43 D 3021	2PS-P25	.25	200	5/8x1 5/16"	.24	.20	.16	.13	.102
43 D 7917	2PS-P33	.33	200	5/8x1 5/8"	.30	.23	.18	.15	.117
43 D 7912	2PS-P47	.47	200	45/64x1 5/8"	.36	.26	.21	.17	.133
43 D 3022	2PS-P50	.5	200	23/32x1 5/8"	.36	.27	.21	.17	.135
43 D 3023	4PS-S10	.01	400	13/32x11/16"	.15	.10	.08	.07	.049
43 D 3024	4PS-S20	.02	400	13/32x7/8"	.15	.12	.09	.07	.057
43 D 3026	4PS-S47	.047	400	29/64x1 3/16"	.18	.14	.11	.09	.071
43 D 3027	4PS-S50	.05	400	29/64x1 3/16"	.18	.15	.11	.09	.072
43 D 7911	4PS-S68	.068	400	33/64x1 3/16"	.21	.15	.12	.10	.075
43 D 3028	4PS-P10	.1	400	37/64x1 3/16"	.21	.17	.13	.11	.085
43 D 3029	4PS-P20	.2	400	19/32x1 5/8"	.27	.25	.20	.16	.126
43 D 3030	4PS-P22	.22	400	39/64x1 5/8"	.27	.25	.20	.16	.126
43 D 3031	4PS-P25	.25	400	41/64x1 5/8"	.30	.26	.20	.16	.129
43 D 3032	6PS-D10	.001	600	21/64x11/16"	.15	.10	.08	.07	.049
43 D 3033	6PS-D15	.0015	600	21/64x11/16"	.15	.10	.08	.07	.049
43 D 3034	6PS-D20	.002	600	21/64x11/16"	.15	.10	.08	.07	.050
43 D 7926	6PS-D25	.0025	600	21/64x11/16"	.15	.10	.08	.07	.050
43 D 7914	6PS-D33	.0033	600	23/64x11/16"	.15	.10	.08	.07	.050
43 D 7928	6PS-D39	.0039	600	3/8x11/16"	.15	.10	.08	.07	.050
43 D 3043	6PS-D47	.0047	600	25/64x11/16"	.15	.10	.08	.07	.050
43 D 3049	6PS-D50	.005	600	25/64x11/16"	.15	.10	.08	.07	.051
43 D 7929	6PS-D56	.0056	600	25/64x11/16"	.15	.10	.08	.07	.051
43 D 3051	6PS-D68	.0068	600	13/32x11/16"	.18	.11	.08	.07	.052
43 D 7930	6PS-D82	.0082	600	3/8x7/8"	.18	.11	.09	.07	.053
43 D 3052	6PS-S10	.01	600	25/64x7/8"	.18	.11	.09	.07	.054
43 D 3053	6PS-S15	.015	600	27/64x7/8"	.18	.11	.09	.07	.056
43 D 3054	6PS-S20	.02	600	31/64x7/8"	.18	.13	.10	.08	.062
43 D 3055	6PS-S22	.022	600	31/64x7/8"	.18	.13	.10	.08	.062
43 D 7901	6PS-S25	.025	600	17/32x7/8"	.21	.13	.11	.09	.065
43 D 7935	6PS-S33	.033	600	15/32x1 3/16"	.21	.14	.11	.09	.065
43 D 7936	6PS-S39	.039	600	31/64x1 3/16"	.21	.14	.11	.09	.069
43 D 3058	6PS-S47	.047	600	17/32x1 3/16"	.24	.15	.12	.10	.072
43 D 3059	6PS-S50	.05	600	17/32x1 3/16"	.24	.15	.12	.10	.076
43 D 7904	6PS-S56	.056	600	35/64x1 3/16"	.24	.15	.12	.10	.076
43 D 7905	6PS-S68	.068	600	37/64x1 3/16"	.27	.18	.14	.11	.088
43 D 3143	6PS-S82	.082	600	37/64x1 5/16"	.27	.18	.14	.12	.092
43 D 3060	6PS-P10	.1	600	5/8x1 5/16"	.27	.19	.15	.12	.095
43 D 7913	6PS-P15	.15	600	43/64x1 5/8"	.30	.23	.18	.15	.116
43 D 3061	6PS-P20	.2	600	3/4x1 5/8"	.39	.27	.21	.17	.133
43 D 7908	6PS-P22	.22	600	25/32x1 5/8"	.42	.27	.21	.17	.133
43 D 3062	6PS-P25	.25	600	13/16x1 5/8"	.45	.27	.21	.17	.135
43 D 3063	10PS-D10	.001	1000	21/64x11/16"	.30	.09	.07	.06	.050
43 D 3067	10PS-D50	.005	1000	13/32x7/8"	.30	.11	.09	.07	.057

SPRAGUE
THE MARK OF RELIABILITY

Ceramic Capacitors

HIGH-K MONOLYTHICS



Series C-23. Radial-lead ceramics for VHF and UHF equipment, low RF and audio frequency use. Temperature range of —55° C to +85° C. Tolerance, ±20%. No anti-resonance points to 1000 mc. Withstand test potential of 100 VDC for at least 1 second at 25° C. 25 WVDC, except *50 WVDC. Av. wt., 1 oz.

Stock No.	Mfr's Type	Mfd	L x W x Thickness (Inches)	EACH 1-49	50-99	100-249	250-499
43 D 3370	3CO23103X0250A3	.01	.39x.21x.13	1.36	1.02	.77	.68
43 D 3371	3CO23153X0250A3	.015	.39x.21x.13	1.40	1.05	.79	.70
43 D 3372	3CO23223X0250A3	.022	.39x.21x.13	1.46	1.10	.83	.73
43 D 3373	3CO23333X0250A3	.033	.39x.21x.13	1.50	1.13	.85	.75
43 D 3374	3CO23473X0250A3	.047	.39x.21x.13	1.54	1.16	.87	.77
43 D 3375	3CO23683X0250A3	.068	.39x.21x.13	1.74	1.31	.98	.87
43 D 3376	3CO23104X0250A3	.1	.39x.21x.14	1.96	1.47	1.11	.98
43 D 3383	3CO23224X0250A3	.22	.39x.21x.16	2.88	2.16	1.62	1.44
43 D 3384	3CO23474X0250A3	.47	.39x.21x.24	3.90	2.93	2.20	1.95
43 D 3377	4CO23154X0250A3	.15	.52x.30x.13	1.94	1.46	1.10	.97
43 D 3378	4CO23224X0250A3	.22	.52x.30x.13	2.24	1.68	1.26	1.12
43 D 3379	4CO23334X0250A3	.33	.52x.30x.13	2.74	2.06	1.55	1.37
43 D 3380	4CO23474X0250A3	.47	.52x.30x.13	3.42	2.57	1.93	1.71
43 D 3381	4CO23684X0250A3	.68	.52x.30x.16	4.44	3.33	2.50	2.22
43 D 3385	4CO23105X0250A3	1.0	.52x.30x.24	5.36	4.02	3.02	2.68
43 D 6589	5CO23104X0250B3	.1	.50x.50x.13	.80	.60	.45	.40
43 D 3382	5CO23154X0250B3	.15	.50x.50x.13	.92	.69	.52	.46
43 D 6698	5CO23224X0250B3	.22	.50x.50x.13	1.06	.80	.60	.53
43 D 6699	5CO23334X0250B3	.33	.50x.50x.13	1.20	.90	.68	.60
43 D 6825	5CO23474X0250B3	.47	.50x.50x.13	1.38	1.04	.78	.69
43 D 6823	5CO23684X0250B3	.68	.50x.50x.13	1.50	1.13	.85	.75
43 D 6824	5CO23105X0250B3	1.0	.50x.50x.16	2.00	1.50	1.13	1.00
43 D 6697	5CO23155X0250B3	1.5	.50x.50x.16	3.00	2.25	1.69	1.50
43 D 6695	5CO23225X0250B3	2.2	.50x.50x.24	3.96	2.97	2.23	1.98
43 D 6660	5CO23104X0500B3*	.1	.50x.50x.13	1.06	.80	.60	.53
43 D 6663	5CO23154X0500B3*	.15	.50x.50x.13	1.20	.90	.68	.60
43 D 6667	5CO23224X0500B3*	.22	.50x.50x.16	1.38	1.04	.78	.69
43 D 6668	5CO23334X0500B3*	.33	.50x.50x.16	2.00	1.50	1.13	1.00
43 D 6669	5CO23474X0500B3*	.47	.50x.50x.24	2.52	1.89	1.42	1.26
43 D 3386	5CO23105X0500B3*	1.0	.50x.50x.24	3.70	2.78	2.09	1.85

CERAMIC DISC CAPACITORS

SERIES 30GA—3000 WVDC

Tolerance: 1.5 mmf, ±.25 mmf; 4.7 mmf, ±.5 mmf; 10 through 68 mmf, ±10%; 100 through 500 mmf, ±20%. †Mfd. Av., 1 oz.

Stock No.	Mfr's Type	Mmf	EACH 1-24	25-99	Multiples of 100 Only 100-400	500-1000
43 D 6387	30GA-V15	1.5	.15	.12	10.00	8.90
43 D 6370	30GA-V47	4.7	.15	.12	10.00	8.90
43 D 6371	30GA-Q10	10	.15	.12	10.00	8.90
43 D 6372	30GA-Q15	15	.15	.12	10.00	8.90
43 D 6373	30GA-Q25	25	.15	.12	10.00	8.90
43 D 6374	30GA-Q30	30	.15	.12	10.00	8.90
43 D 6389	30GA-Q39	39	.15	.12	10.00	8.90
43 D 6375	30GA-Q50	50	.15	.12	10.00	8.90
43 D 6376	30GA-Q68	68	.15	.12	10.00	8.90
43 D 6377	30GA-T10	100	.15	.12	10.00	8.90
43 D 6379	30GA-T15	150	.15	.12	10.50	9.30
43 D 6380	30GA-T18	180	.15	.12	10.50	9.30
43 D 6382	30GA-T22	220	.15	.12	10.50	9.30
43 D 6383	30GA-T25	250	.15	.12	10.50	9.30
43 D 6385	30GA-T30	300	.18	.14	12.40	11.00
43 D 6386	30GA-T50	500	.21	.17	14.60	13.00
43 D 6501	30GA-D10	†.001	.21	.17	14.60	13.00
43 D 6502	30GA-D20	†.002	.21	.17	14.60	13.00
43 D 6506	30GA-D50	†.005	.24	.19	17.90	15.00
43 D 6508	30GA-S10	†.01	.39	.31	28.10	25.00

SERIES TG—50 WVDC ±20%.

Stock No.	Type	Mfd	EACH 1-24	25-99	Multiples of 100 Only 100-400	500-1000
43 D 5995	TG-D50	.005	.15	.12	9.00	8.00
43 D 5996	TG-S10	.01	.15	.12	8.30	7.40
43 D 6520	TG-S20	.02	.15	.12	10.70	9.50
43 D 5997	TG-S25	.025	.15	.12	10.70	9.50
43 D 6521	TG-S30	.03	.15	.12	11.10	9.90
43 D 5998	TG-S50	.05	.30	.24	21.20	18.80
43 D 5999	TG-P10	.1	.39	.31	28.10	25.00

SERIES TH—200 WVDC ±20%.

43 D 6600	TH-D50	.005	.15	.12	5.50	4.90
43 D 6601	TH-S10	.01	.30	.24	21.40	19.00
43 D 6602	TH-S20	.02	.15	.12	10.10	9.00
43 D 6603	TH-S25	.025	.15	.12	11.30	10.00
43 D 6604	TH-S30	.03	.18	.14	12.40	11.00
43 D 6605	TH-S50	.05	.27	.21	20.30	18.00
43 D 6606	TH-P10	.1	.78	.62	57.80	51.40

CERAMIC DISC CAPACITORS

Extremely dependable, ultra-compact ceramic disc capacitors in standard EIA and other popular values. Low self-inductance of silvered flat-plate design ensures high by-pass efficiency in critical circuits. Moisture-proof coating. Av. shpg. wt., 1 oz.

PRICES FOR SERIES 5GA

*Code	EACH 1-24	25-99	Multiples of 100 Only 100-400	500-1000
A	.15	.12	5.50	4.90
B	.15	.12	5.70	5.10
C	.15	.12	6.60	5.90
D	.15	.12	7.20	6.40
E	.39	.31	28.00	25.00

SERIES 5GA—1000 WVDC ±20%. †Mfd.

Stock No.	Mfr's Type	Mmf	*	Stock No.	Mfr's Type	Mmf	*
43 D 6300	5GA-V50	5	C	43 D 6333	5GA-T33	330	A
43 D 6302	5GA-V75	7.5	C	43 D 6335	5GA-T36	360	C
43 D 6304	5GA-Q10	10	C	43 D 6336	5GA-T39	390	C
43 D 6305	5GA-Q12	12	C	43 D 6338	5GA-T47	470	A
43 D 6306	5GA-Q15	15	C	43 D 6339	5GA-T50	500	A
43 D 6308	5GA-Q20	20	C	43 D 6340	5GA-T56	560	A
43 D 6309	5GA-Q22	22	C	43 D 6342	5GA-T68	680	A
43 D 6310	5GA-Q25	25	C	43 D 6343	5GA-T75	750	A
43 D 6311	5GA-Q27	27	C	43 D 6345	5GA-T82	820	A
43 D 6312	5GA-Q30	30	C	43 D 5670	5GA-D10	†.001	A
43 D 6313	5GA-Q33	33	C	43 D 6347	5GA-D12	†.0012	A
43 D 6314	5GA-Q39	39	C	43 D 6348	5GA-D13	†.0013	C
43 D 6315	5GA-Q47	47	C	43 D 5671	5GA-D15	†.0015	A
43 D 6316	5GA-Q50	50	C	43 D 6351	5GA-D18	†.0018	A
43 D 6317	5GA-Q56	56	C	43 D 6352	5GA-D20	†.0020	A
43 D 6318	5GA-Q68	68	C	43 D 6353	5GA-D22	†.0022	A
43 D 6319	5GA-Q75	75	C	43 D 6354	5GA-D25	†.0025	C
43 D 6320	5GA-Q82	82	C	43 D 6355	5GA-D27	†.0027	C
43 D 6322	5GA-T10	100	C	43 D 6356	5GA-D30	†.0030	C
43 D 6323	5GA-T12	120	C	43 D 6357	5GA-D33	†.0033	A
43 D 6325	5GA-T15	150	A	43 D 6358	5GA-D39	†.0039	A
43 D 6326	5GA-T18	180	C	43 D 6360	5GA-D43	†.0043	C
43 D 6327	5GA-T20	200	C	43 D 6361	5GA-D47	†.0047	B
43 D 6328	5GA-T22	220	A	43 D 6362	5GA-D50	†.005	B
43 D 6330	5GA-T25	250	C	43 D 6363	5GA-S10	†.01	D
43 D 6331	5GA-T27	270	C	43 D 6364	5GA-S20	†.02	E
43 D 6332	5GA-T30	300	C	....	....	......	...

SERIES 5HK—1000 WVDC +80%, —20%. ‡500 WVDC.

Stock No.	Mfr's Type	Mfd	EACH 1-24	25-99	Multiples of 100 Only 100-400	500-1000
43 D 8650	5HK-D10	.001	.15	.12	5.30	4.70
43 D 8651	5HK-D15	.0015	.15	.12	5.30	4.70
43 D 5672	5HK-D20	.002	.15	.12	5.30	4.70
43 D 8654	5HK-D22	.0022	.15	.12	5.30	4.70
43 D 8659	5HK-D25	.0025	.15	.12	6.40	5.70
43 D 8661	5HK-D33	.0033	.15	.12	5.30	4.70
43 D 8665	5HK-D47	.0047	.15	.12	5.50	4.90
43 D 5673	5HK-D50	.005	.15	.12	5.50	4.90
43 D 8666	5HK-D68	.0068	.15	.12	6.10	5.40
43 D 5674	5HK-S10	.010	.15	.12	6.10	5.40
43 D 8667	‡5HK-S15	.015	.15	.12	7.90	7.00
43 D 9950	‡5HK-S20	.020	.15	.12	8.60	7.60
43 D 8668	‡5HK-S22	.022	.15	.12	8.60	7.60
43 D 8669	‡5HK-S25	.025	.15	.12	8.60	7.60
43 D 9951	‡5HK-S30	.030	.27	.21	20.30	18.00
43 D 9952	‡5HK-S40	.040	.27	.21	20.30	18.00
43 D 9953	‡5HK-S50	.050	.27	.21	20.30	18.00
43 D 9954	‡5HK-P10	.1	.78	.62	57.80	51.40

SERIES HY *3 WVDC, §10 WVDC, †16 WVDC (+80, —20%)

43 D 6671	*HY-120	.10	.39	.31	29.30	26.00
43 D 6672	*HY-125	.22	.24	.19	16.90	15.00
43 D 6673	*HY-130	.47	.24	.19	16.90	15.00
43 D 6674	*HY-135	1.00	.30	.24	22.50	20.00
43 D 6675	*HY-150	2.00	.39	.31	28.10	25.00
43 D 6394	§HY-310	.047	.15	.12	10.10	9.00
43 D 6395	§HY-320	.1	.15	.12	10.60	9.40
43 D 6396	§HY-325	.22	.24	.19	16.90	15.00
43 D 6397	§HY-330	.47	.36	.29	27.00	24.00
43 D 6670	†HY-420	.01	.15	.12	9.00	8.00
43 D 6683	†HY-435	.047	.15	.12	10.10	9.00
43 D 6692	†HY-450	.1	.18	.15	11.60	10.30

SERIES BL BUFFER CERAMICS—2000 WVDC ±20%

Stock No.	Mfr's Type	Mfd	EACH 1-24	25-99	Multiples of 100 Only 100-400	500-1000
43 D 6290	BL-D10	.001	.21	.17	14.60	13.00
43 D 6294	BL-D50	.005	.21	.17	14.60	13.00
43 D 6299	BL-S10	.01	.24	.19	18.00	16.00

Specify Mfr's Type No. and Capacitance

Sprague Quality Capacitors

NPO AND N750 CERAMICS

Series 10TCC NPO Ceramics. Zero temperature-coefficient. 1000 WVDC. Tol.: ±5%, 6.8 μμf and above; ±.25 μμf, 4.7 μμf and below. *In multiples of 100 only. Av. shpg. wt., 1 oz.

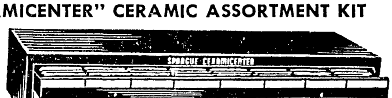
Stock No.	Mfr's Type	Mmf	EACH 1-24	EACH 25-99	*Per Multiples of 100: 100-400	*Per Multiples of 100: 500-1000
43 D 9955	10TCC-V10	1.0	.15	.12	5.60	5.00
43 D 9956	10TCC-V15	1.5	.15	.12	5.60	5.00
43 D 9957	10TCC-V22	2.2	.15	.12	5.60	5.00
43 D 9958	10TCC-V33	3.3	.15	.12	5.60	5.00
43 D 9959	10TCC-V47	4.7	.15	.12	5.60	5.00
43 D 9960	10TCC-V68	6.8	.15	.12	5.60	5.00
43 D 9961	10TCC-Q10	10.0	.15	.12	5.60	5.00
43 D 9962	10TCC-Q15	15.0	.15	.12	5.60	5.00
43 D 9963	10TCC-Q20	20.0	.15	.12	5.60	5.00
43 D 9964	10TCC-Q22	22.0	.15	.12	5.60	5.00
43 D 9965	10TCC-Q25	25.0	.15	.12	5.60	5.00
43 D 9966	10TCC-Q33	33.0	.15	.12	5.60	5.00
43 D 9967	10TCC-Q39	39.0	.15	.12	5.60	5.00
43 D 9968	10TCC-Q47	47.0	.15	.12	7.00	6.20
43 D 9969	10TCC-Q50	50.0	.15	.12	7.00	6.20
43 D 9970	10TCC-Q68	68.0	.15	.12	7.00	6.20
43 D 9971	10TCC-Q75	75.0	.15	.12	7.00	6.20
43 D 9972	10TCC-T10	100.0	.15	.12	7.00	6.20
43 D 9973	10TCC-T12	120.0	.15	.12	7.00	6.20
43 D 9974	10TCC-115	150.0	.15	.12	10.10	9.00
43 D 9975	10TCC-T175	175.0	.15	.12	11.30	10.00
43 D 9976	10TCC-T22	220.0	.18	.15	11.90	10.60
43 D 9977	10TCC-T27	270.0	.24	.19	17.20	15.30

Series 10TCU N750 Ceramics. Negative temperature coefficient capacitors with a negative change of 750 parts per million per degree Centigrade. All are rated 1000 WVDC Tolerance, ±5%. Av., 3 oz.

Stock No.	Mfr's Type	Mmf	EACH 1-24	EACH 25-99	*Per Multiples of 100: 100-400	*Per Multiples of 100: 500-1000
43 D 9978	10TCU-V50	5	.15	.12	5.60	5.00
43 D 9979	10TCU-Q10	10	.15	.12	5.60	5.00
43 D 9980	10TCU-Q15	15	.15	.12	5.60	5.00
43 D 9981	10TCU-Q20	20	.15	.12	5.60	5.00
43 D 9982	10TCU-Q22	22	.15	.12	5.60	5.00
43 D 9983	10TCU-Q25	25	.15	.12	5.60	5.00
43 D 9984	10TCU-Q33	33	.15	.12	5.60	5.00
43 D 9985	10TCU-Q47	47	.15	.12	5.60	5.00
43 D 9986	10TCU-Q68	68	.15	.12	7.00	6.20
43 D 9987	10TCU-Q75	75	.15	.12	7.00	6.20
43 D 9988	10TCU-T10	100	.15	.12	7.00	6.20
43 D 9989	10TCU-T15	150	.15	.12	7.00	6.20
43 D 9990	10TCU-T20	200	.15	.12	7.00	6.20
43 D 9991	10TCU-T22	220	.15	.12	10.10	9.00
43 D 9992	10TCU-T33	330	.15	.12	11.30	10.00
43 D 9993	10TCU-T47	470	.24	.19	17.20	15.30
43 D 9994	10TCU-T68	680	.27	.21	19.10	17.00

J-135 "CERAMICENTER" CERAMIC ASSORTMENT KIT

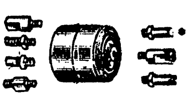
Saves Time and Effort—Eliminates Searching Through Scattered Boxes



Contains 710 capacitors of 57 different values, packaged in handy reusable "Kleer-Pak" plastic boxes and conveniently arranged in a two-drawer, metal sliding-tray cabinet. Kit includes: 290 Type 5GA, 1000 WVDC ceramic disc capacitors in 31 different capacitance values from 5 mmf to 20,000 mmf; 145 Type 5HK "High K" bypass and coupling capacitors in 7 different values from .001 mfd to .01 mfd @ 1000 WVDC, and .02 mfd to .1 mfd @ 500 WVDC; 100 Type 10TS, 1000 WVDC temperature stable capacitors in 12 different values from 100 mmf to 20,000 mmf; and 175 Type TG, 50 WVDC miniaturized disc capacitors in 7 different values from .005 to .1 mfd. Cabinet, 30¾x5½x11¾". 29 lbs.

43 D 1182 U..172.50

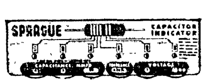
PLASTIC DOORKNOB CAPACITORS



High voltage, 500 mmf capacitors for TV replacement use. Each 20DK-T5 includes 7 terminals as shown; 30DK-T5 includes 2 of the type indicated by *. 3 oz.

Stock No.	Type	KV Rating	Dia. x Lgth.	PRICE
43 D 5599	20DK-T5	20	1x31/32"	3.30 per pair
43 D 5597	30DK-T5	30	15/16x1¼"	2.40 each

TYPE C-751 CAPACITOR INDICATOR



Reads color codes directly in capacitance, tolerance and volts. 2 oz.

43 D 9910........................25

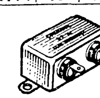
96P "VITAMIN Q" SUBMINIATURES

Hermetically-sealed glass-to-metal terminals. Style S-2—insulated section, plain metal case. Inserted tabs. "Vitamin Q" impregnated for high insulation resistance. Tolerance, ±10%. Exceed MIL-C-25. For ambient temperatures—55° to +125° C. 3 oz.

*	Size	*	Size	*	Size	*	Size
A	3/16x3/4"	D	13/32x7/8"	G	13/32x1 3/8"	K	21/32x1 7/8"
B	7/32x3/4"	E	13/32x1 1/8"	H	9/16x1 3/8"	L	1x1 7/8"
C	5/16x7/8"	F	9/16x1 1/8"	J	9/16x1 7/8"	M	3/4x2 1/8"

Stock No.	Type 96P-	Mfd	WV DC	*	EACH 1-9	10-24	25-49	50-99	100-499	500-999
43 D 5911	10391	.01	100	A	1.67	1.25	.94	.63	.50	.46
43 D 6763	22391	.022	100	A	1.67	1.25	.94	.63	.50	.46
43 D 6765	47391	.047	100	C	1.63	1.22	.92	.61	.49	.45
43 D 5926	10491	.1	100	C	1.76	1.32	.99	.66	.53	.48
43 D 6767	22491	.22	100	E	1.85	1.39	1.04	.69	.55	.51
43 D 5925	47491	.47	100	F	2.24	1.68	1.26	.84	.67	.62
43 D 5044	10591	1.0	100	J	2.82	2.11	1.58	1.06	.85	.77
43 D 6771	10292	.001	200	B	1.58	1.19	.89	.59	.48	.44
43 D 6773	22292	.0022	200	B	1.58	1.19	.89	.59	.48	.44
43 D 6775	47292	.0047	200	B	1.63	1.22	.92	.61	.49	.45
43 D 5912	10392	.01	200	B	1.63	1.22	.92	.61	.49	.45
43 D 5913	22392	.022	200	B	1.65	1.24	.93	.62	.50	.45
43 D 5914	47392	.047	200	C	1.72	1.29	.97	.64	.52	.47
43 D 5924	10492	.1	200	D	1.80	1.35	1.01	.68	.54	.50
43 D 5915	22492	.22	200	G	2.00	1.50	1.13	.75	.60	.55
43 D 5923	47492	.47	200	H	2.29	1.72	1.29	.86	.69	.63
43 D 5916	10592	1.0	200	K	2.90	2.18	1.63	1.09	.87	.80
43 D 5917	10394	.01	400	B	1.72	1.29	.97	.64	.52	.47
43 D 5918	22394	.022	400	C	1.78	1.34	1.00	.67	.54	.49
43 D 5919	47394	.047	400	D	1.85	1.39	1.04	.69	.55	.51
43 D 5922	10494	.1	400	G	1.94	1.45	1.09	.73	.58	.53
43 D 5920	22494	.22	400	H	2.24	1.68	1.26	.84	.67	.62
43 D 5921	47494	.47	400	K	2.73	2.05	1.54	1.02	.82	.75
43 D 5049	10594	1.0	400	L	3.76	2.82	2.12	1.41	1.13	1.04
43 D 5904	10396	.01	600	C	1.76	1.32	.99	.66	.53	.48
43 D 5905	22396	.022	600	C	1.80	1.35	1.02	.68	.54	.50
43 D 5906	47396	.047	600	E	1.89	1.42	1.06	.71	.57	.52
43 D 5908	10496	.1	600	F	2.11	1.58	1.19	.79	.63	.58
43 D 5910	47496	.47	600	M	2.97	2.23	1.67	1.11	.89	.82

MIL TYPE CP 53 CAPACITORS



Non-inductive oil-filled bathtub capacitors; hermetically sealed, silicone rubber compression terminals. Have mtg. flanges. Exceed MIL-C-25A. Suffix K has tolerance of ±10%; V, +20%, −10%. For use up to 85°C. 600 WVDC, except *1000. Shpg. Wt., 4 oz.

Stock No.	MIL No. CP53	Mfd	Size	EACH 1-9	10-24	25-49	50-99	100-499
43 D 5727	B1EF503K	.05	1 13/16x1x3/4"	1.80	1.20	1.02	.75	.66
43 D 5736	B1EF104K	.1	1 13/16x1x3/4"	1.85	1.24	1.05	.78	.68
43 D 5737	B1EF254K	.25	1 13/16x1x3/4"	1.92	1.28	1.09	.80	.71
43 D 5738	B1EF504K	.5	1 13/16x1x1"	2.07	1.38	1.18	.87	.76
43 D 5739	B1EF105K	1.0	2x1 3/4x1"	2.41	1.61	1.37	1.01	.89
43 D 5740	B1EF205K	2.0	2x2x1 1/8"	3.22	2.15	1.83	1.34	1.18
43 D 5741	B4EF104V	.1-.1	1 13/16x1x3/4"	2.51	1.68	1.43	1.05	.92
43 D 5742	B4EF254V	.25-.25	1 13/16x1x1"	2.59	1.73	1.47	1.08	.95
43 D 5743	B4EF504V	.5-.5	2x1 3/4x1"	2.95	1.97	1.67	1.23	1.08
43 D 5745	B1EG254K*	.25	1 13/16x1x7/8"	2.03	1.35	1.15	.85	.75
43 D 5735	B1EG104K*	.1	1 13/16x1x3/4"	1.96	1.31	1.11	.82	.72
43 D 5746	B4EG254V*	.25-.25	2x1 3/4x7/8"	2.84	1.89	1.61	1.18	1.04
43 D 5747	B1EG504K*	.5	2x1 3/4x7/8"	2.17	1.45	1.23	.91	.80
43 D 5748	B1EG105K*	1.0	2x2x1 1/8"	2.91	1.94	1.65	1.21	1.07

TYPE 121P METALLIZED PAPER CAPACITORS

Operate at 125°C without derating. Have ungrounded cases. Hermetically sealed, glass-to-metal solder-seal terminals. Tol., ±10%. 150 WVDC. 3 oz.

Stock No.	Type 121P	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 3122	15591R5S2	1.5	9/16x1 1/8"	2.73	1.60	1.23	1.10	1.01
43 D 3123	20591R5S2	2.0	9/16x1 3/8"	3.00	1.75	1.35	1.20	1.10
43 D 3124	25591R5S2	2.5	9/16x1 5/8"	3.09	1.81	1.40	1.24	1.14
43 D 3125	30591R5S2	3.0	43/64x1 3/8"	3.45	2.02	1.56	1.38	1.27
43 D 3127	40591R5S2	4.0	43/64x1 5/8"	3.72	2.17	1.68	1.49	1.37
43 D 3128	50591R5S2	5.0	43/64x1 7/8"	4.08	2.38	1.84	1.64	1.50
43 D 3129	60591R5S2	6.0	3/4x1 7/8"	4.44	2.59	2.00	1.78	1.63
43 D 3130	80591R5S2	8.0	3/4x2 3/8"	5.16	3.01	2.33	2.07	1.90
43 D 3131	10691R5S2	10.0	3/4x2 5/8"	5.97	3.49	2.69	2.39	2.19
43 D 3132	12691R5S2	12.0	1x1 7/8"	6.75	3.94	3.04	2.70	2.48
43 D 3133	14691R5S2	14.0	1x2 1/8"	7.53	4.40	3.39	3.02	2.77
43 D 3134	16691R5S2	16.0	1x2 3/8"	8.01	4.68	3.61	3.21	2.94
43 D 3135	18691R5S2	18.0	1x2 5/8"	9.12	5.32	4.11	3.65	3.35

Sprague and Mallory Capacitors

SPRAGUE CAPACITORS

118P HERMETICALLY SEALED "DIFILM" CAPACITORS

Dual-Dielectric—Solder Sealed

Metalized paper and polyester film dielectric. Hermetically sealed. Meet MIL-C-25 specs. Ambient temperature to 125° C without derating. High insulation resistance. Self-healing properties. Tolerance, ±10%. Ungrounded case without insulating sleeve. Av. shpg. wt., 3 oz.

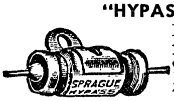
Stock No.	Type 118P	Mfd	WV DC	Size	EACH 1-24	25-49	50-99	100-499
43 D 3068	10392S2	.01	200	15/64x3/4"	1.95	1.14	.88	.78
43 D 3080	10492S2	.1	200	5/16x7/8"	2.04	1.19	.92	.82
43 D 3082	15492S2	.15	200	5/16x1 1/8"	2.07	1.21	.94	.83
43 D 3083	22492S2	.22	200	13/32x7/8"	2.07	1.21	.94	.83
43 D 3087	47492S2	.47	200	1/2x1 1/8"	2.33	1.36	1.05	.93
43 D 3088	56492S2	.56	200	1/2x1 1/8"	2.37	1.39	1.07	.95
43 D 3091	10592S2	1.0	200	9/16x1 1/8"	2.55	1.49	1.15	1.02
43 D 3093	20592S2	2.0	200	43/64x1 5/8"	4.29	2.51	1.94	1.72
43 D 3094	30592S2	3.0	200	43/64x1 7/8"	4.50	2.63	2.03	1.80
43 D 3095	40592S2	4.0	200	3/4x1 7/8"	4.80	2.80	2.16	1.92
43 D 3096	50592S2	5.0	200	1x1 7/8"	5.25	3.07	2.37	2.10
43 D 3097	60592S2	6.0	200	1x1 7/8"	6.00	3.50	2.70	2.40
43 D 3098	80592S2	8.0	200	1x1 7/8"	6.15	3.59	2.77	2.46
43 D 3099	10692S2	10.0	200	1x2 3/8"	6.57	3.84	2.96	2.63
43 D 3100	12692S2	12.0	200	1x2 5/8"	7.41	4.33	3.34	2.97
43 D 3103	10594S2	1.0	400	3/4x1 7/8"	3.40	1.98	1.53	1.36
43 D 3104	20594S2	2.0	400	1x1 7/8"	4.95	2.89	2.23	1.98
43 D 3105	30594S2	3.0	400	1x2 5/8"	5.85	3.42	2.64	2.34
43 D 3106	10396S2	.01	600	5/16x7/8"	2.01	1.18	.91	.81
43 D 3112	10496S2	.1	600	1/2x1 1/8"	2.34	1.37	1.06	.94
43 D 3114	22496S2	.22	600	9/16x1 3/8"	2.57	1.50	1.16	1.03
43 D 3116	47496S2	.47	600	43/64x1 5/8"	3.08	1.80	1.39	1.23
43 D 3118	10596S2	1.0	600	1x1 7/8"	4.35	2.54	1.96	1.74
43 D 3120	20596S2	2.0	600	1x2 1/8"	5.55	3.24	2.50	2.22

155P AND 156P METALIZED PAPER CAPACITORS

Superior to most paper-jacketed or film-wrapped metalized capacitors. Molded phenolic case provides excellent resistance to high humidity. At 85° C. minimum product of insulation resistance and capacitance is 40 megohm-microfarads. Withstand twice the rated voltage. Operating temp. —40° to +85° C. Tol. ±20%. Wt., 3 oz.

Stock No.	Mfd	WV DC	Size	EACH 1-24	25-49	50-99	100-499
43 D 0200	.01	200	5/16x1"	.42	.26	.20	.18
43 D 0207	.05	200	5/16x1"	.45	.27	.21	.19
43 D 0209	.1	200	5/16x1"	.45	.28	.22	.19
43 D 0211	.22	200	3/8x1 1/4"	.45	.28	.22	.20
43 D 0213	.33	200	7/16x1 1/4"	.66	.39	.30	.27
43 D 0214	.47	200	7/16x1 1/4"	.66	.40	.31	.28
43 D 0215	.5	200	1/2x1 1/2"	.78	.60	.46	.41
43 D 0217	1.0	200	1/2x1 1/2"	1.05	.63	.48	.43
43 D 0218	1.5	200	5/8x1 7/8"	1.20	.70	.54	.48
43 D 0219	2.0	200	5/8x1 7/8"	1.41	.85	.66	.59
43 D 0221	3.0	200	3/4x2 1/4"	1.80	1.05	.81	.72
43 D 0223	4.0	200	3/4x2 1/4"	2.22	1.30	1.00	.89
43 D 0225	5.0	200	7/8x2 1/2"	2.55	1.49	1.15	1.02
43 D 0227	6.0	200	7/8x2 1/2"	3.00	1.75	1.35	1.20
43 D 0233	9.0	200	1x2 1/2"	4.05	2.37	1.83	1.62
43 D 0234	9.5	200	1x2 1/2"	4.20	2.45	1.89	1.68
43 D 0244	.05	400	3/8x1 1/4"	.45	.29	.23	.20
43 D 0246	.1	400	7/16x1 1/4"	.51	.30	.23	.21
43 D 0250	.25	400	5/8x1 7/8"	.72	.48	.37	.33
43 D 0251	.33	400	5/8x1 7/8"	.72	.48	.37	.33
43 D 0253	.5	400	3/4x2 1/4"	.93	.62	.48	.42
43 D 0255	1.0	400	3/4x2 1/4"	1.29	.77	.60	.53
43 D 0257	2.0	400	7/8x2 1/2"	1.80	1.09	.84	.75
43 D 0267	.05	600	7/16x1 1/4"	.51	.32	.25	.22
43 D 0270	.1	600	1/2x1 1/2"	.57	.35	.27	.24
43 D 0274	.25	600	5/8x1 7/8"	.90	.55	.42	.38
43 D 0275	.33	600	5/8x1 7/8"	.93	.55	.42	.38
43 D 0277	.5	600	3/4x2 1/4"	1.14	.76	.59	.52
43 D 0279	1.0	600	7/8x2 1/2"	1.38	.84	.65	.57
43 D 0280	1.5	600	1x2 1/2"	1.89	1.10	.85	.75

"HYPASS" NETWORK CAPACITORS

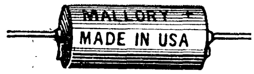


Feed-through VHF bypass capacitors. Compact, for easy installation in series with circuit being filtered. Efficient up to 150 mc. Reduce vibrator hash and harmonic radiation. Type 48P18 reduces voltage regulator noise in mobile applications. Type 80P3 is for bulkhead mounting. Screw terminals. †AC volts. Shpg. wt., 5 oz.

Stock No.	Type	Mfd	Amps	WVDC	Size	EACH
43 D 5688	48P18	.5	40	50	1x1 13/16"	2.28
43 D 5970	48P9	.1	20	250†	11/16x1 13/16"	1.56
43 D 5685	48P8	.1	20	600	11/16x1 13/16"	1.56
43 D 5689	80P3	.1	20	600	11/16x1 13/16"	1.77

MALLORY CAPACITORS

MTA ALUMINUM ELECTROLYTICS



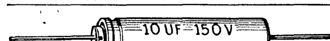
Polypropylene case provides humidity protection by excluding molecules of water vapor while allowing molecular venting. Operating temperature. —20°C to +65°C. Tolerance, —10%, +100%. DC leakage not over .03 μa per mfd volt or 4 μa, whichever is greater. Contact Allied for prices on quantities of 1000 and up. Av. shpg. wt., 2 oz.

PRICE AND SIZE LOCATOR

Code Size*	Dia. Lgth.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
D	.313x.750"	.36	.30	.25	.200	.187	.163
E	.375x1.000"	.39	.32	.26	.218	.204	.178
F	.500x1.375"	.45	.36	.30	.249	.233	.203
G	.500x1.375"	.51	.40	.33	.278	.261	.226
H	.500x1.375"	.54	.43	.35	.294	.275	.239
J	.500x1.375"	.63	.50	.41	.343	.321	.279

Stock No.	Type MTA	Mfd	Max WV DC	*	Stock No.	Type MTA	Mfd	Max WV DC	*
43 D 0483	1D50	1	50	D	43 D 0447	50E25	50	25	E
43 D 0484	2D50	2	50	D	43 D 0524	50F50	50	50	F
43 D 0485	3D50	3	50	D	43 D 0405	60D3	60	3	D
43 D 0486	4D50	4	50	D	43 D 0441	60E20	60	20	E
43 D 0487	5D50	5	50	D	43 D 0525	60F50	60	50	G
43 D 0488	6D50	6	50	D	43 D 0445	70E20	70	20	E
43 D 0489	7D50	7	50	D	43 D 0526	70F50	70	50	G
43 D 0490	8D50	8	50	D	43 D 0414	75E10	75	10	E
43 D 0458	9D35	9	35	D	43 D 0421	80E15	80	15	E
43 D 0491	9E50	9	50	E	43 D 0529	80F50	80	50	H
43 D 0459	10D35	10	35	D	43 D 0430	90E15	90	15	E
43 D 0492	10E50	10	50	E	43 D 0464	90F35	90	35	G
43 D 0460	15D35	15	35	D	43 D 0415	100E10	100	10	E
43 D 0493	15E50	15	50	E	43 D 0431	100E15	100	15	E
43 D 0456	20D30	20	30	D	43 D 0456	100F35	100	35	G
43 D 0494	20E50	20	50	E	43 D 0409	125E6	125	6	E
43 D 0435	25D20	25	20	D	43 D 0481	125F35	125	35	H
43 D 0461	25E35	25	35	E	43 D 0410	150E6	150	6	E
43 D 0495	25F50	25	50	F	43 D 0482	150F35	150	35	J
43 D 0418	30D15	30	15	D	43 D 0406	175E3	175	3	F
43 D 0462	30E25	30	35	E	43 D 0452	175F25	175	25	H
43 D 0501	30F50	30	50	F	43 D 0416	200F10	200	10	F
43 D 0419	35D15	35	15	D	43 D 0455	200F25	200	25	J
43 D 0463	35E35	35	35	E	43 D 0446	250F20	250	20	J
43 D 0505	35F50	35	50	F	43 D 0433	300F15	300	15	J
43 D 0413	40D10	40	10	D	43 D 0434	350F15	350	15	J
43 D 0457	40E30	40	30	E	43 D 0417	400F10	400	10	H
43 D 0506	40F50	40	50	F	43 D 0411	450F6	450	6	G
43 D 0408	50D6	50	6	D	43 D 0412	500F6	500	6	G
43 D 0420	50E15	50	15	E	43 D 0407	600F3	600	3	F

TPG ALUMINUM TUBULARS



Exceptional stability of capacitance, DC leakage and equivalent series resistance. Long operating life. All-welded construction with special safety vent, shrink-fit polyester insulating sleeve. Temperature range of —40° to +85°C. Tolerance: —10% to +100%. 1 1/2" long leads. Av. shpg. wt., 2 oz.

Equivalent Type Available, See Page 161

PRICE AND SIZE LOCATOR

Code Size*	Dia. Lgth.	EACH 1-9	10-24	25-49	50-99	100-249
A	3/8x13/16"	1.81	1.55	.91	.70	.622
B	3/8x15/16"	1.82	1.56	.91	.70	.625
C	3/8x1 1/8"	1.83	1.57	.92	.71	.628
D	3/8x1 3/8"	1.85	1.58	.92	.71	.634
E	3/8x1 5/8"	1.86	1.59	.93	.72	.637

Stock No.	Type TPG	Mfd	Max WV DC	*	Stock No.	Type TPG	Mfd	Max WV DC	*
43 D 7411	65T10	65	10	A	43 D 8410	50T50	50	50	E
43 D 7426	175T10	175	10	C	43 D 7447	10T75	10	75	A
43 D 8407	240T10	240	10	E	43 D 7436	25T75	25	75	C
43 D 7428	125T15	125	15	C	43 D 8411	30T75	30	75	D
43 D 8408	175T15	175	15	E	43 D 7437	40T75	40	75	D
43 D 7430	85T25	85	25	C	43 D 7439	30T100	30	100	D
43 D 8409	100T25	100	25	D	43 D 7483	5T150	5	150	A
43 D 7445	25T30	25	30	A	43 D 7440	10T150	10	150	C
43 D 7432	65T30	65	30	C	43 D 7441	20T150	20	150	E
43 D 7434	35T50	35	50	C	....	......	...	.....	...

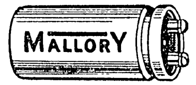
Contact Your Nearest Allied Office for Mallory Capacitors Not Listed

Electrolytic and Polystyrene Capacitors

MALLORY

TYPE CG COMPUTER-GRADE ELECTROLYTICS

*Size Code	Dia. x Lgth. (Inches)	*Size Code	Dia. x Lgth. (Inches)
A	1⅜x2¼	D	3x4⅛
B	1⅜x4⅛	E	3x5⅝
C	2x4⅛	F	2x3⅛



Quality aluminum electrolytics provide high reliability in power supplies of military and commercial computers. Pressure-sensitive safety-vent design for extended life—no electrolyte leakage. All have polyester film insulating sleeve with 7/32″ terminal posts. Designed to take surge higher than working voltage. Temperature range, —20° to +85° C. Capacity tolerance, —10 to +75% for units rated up to 150 WVDC; —10 to +50% for units rated to 450 WVDC. For mounting clamps, see page 170. Av. shpg. wt. size code A-C ¾ lb., D-F 2 lbs.

Equivalent Type Available—See Page 163

Stock No.	Mfr's Type	Mfd	WV DC	*Size Code	EACH 1-49	EACH 50-99
43 D 7952	CG363U3D1	36,000	3	C	4.41	3.47
43 D 7953	CG753U3F1	75,000	3	D	7.06	5.55
43 D 8107	CG1153U3G1	115,000	3	E	8.63	6.78
43 D 8108	CG15U5G1	100,000	5	E	9.39	7.38
43 D 8100	CG822U10C1	8200	10	B	2.84	2.23
43 D 8101	CG1352U10K1	13,500	10	F	3.72	2.92
43 D 8124	CG183U10D1	18,000	10	C	4.59	3.61
43 D 8125	CG4352U10F1	43,500	10	D	8.25	6.48
43 D 8109	CG683U10G1	68,000	10	E	9.66	7.59
43 D 8102	CG252U15A1	2500	15	A	1.97	1.55
43 D 8103	CG642U15C1	6400	15	B	2.69	2.11
43 D 8104	CG1052U15K1	10,500	15	F	3.38	2.66
43 D 8126	CG143U15D1	14,000	15	C	4.47	3.51
43 D 8127	CG343U15F1	34,000	15	D	7.11	5.59
43 D 7954	CG533U15G1	53,000	15	E	9.30	7.30
43 D 7955	CG152U25A1	1500	25	A	1.72	1.35
43 D 8105	CG382U25C1	3800	25	B	2.60	2.05
43 D 8106	CG63U25K1	6000	25	F	3.23	2.54
43 D 8128	CG852U25D1	8500	25	C	3.90	3.07
43 D 8129	CG24U25F1	20,000	25	D	6.55	5.15
43 D 8110	CG3152U25G1	31,500	25	E	8.78	6.90
43 D 8148	CG82U50A1	800	50	A	1.74	1.37
43 D 8149	CG23U50C1	2000	50	B	2.29	1.80
43 D 8159	CG332U50K1	3300	50	F	3.25	2.56
43 D 8130	CG452U50D1	4500	50	C	3.47	2.72
43 D 8131	CG14U50F1	10,000	50	D	6.70	5.27
43 D 7956	CG1652U50G1	16,500	50	E	9.20	7.23
43 D 7957	CG62U75A1	600	75	A	2.01	1.58
43 D 8160	CG152U75C1	1500	75	B	2.84	2.23
43 D 8162	CG252U75K1	2500	75	F	3.70	2.90
43 D 8132	CG3451U75D1	3450	75	C	4.03	3.17
43 D 8133	CG822U75F1	8200	75	D	7.25	5.70
43 D 8111	CG1252U75G1	12,500	75	E	9.45	7.42
43 D 8164	CG42U100A1	400	100	A	2.01	1.58
43 D 8169	CG13U100C1	1000	100	B	2.73	2.15
43 D 8177	CG1651U100K1	1650	100	F	3.17	2.49
43 D 8134	CG2251U100D1	2250	100	C	4.12	3.23
43 D 8135	CG532U100F1	5300	100	D	6.74	5.30
43 D 7958	CG832U100G1	8300	100	E	9.68	7.61
43 D 8184	CG2750U150A1	275	150	A	1.63	1.29
43 D 8185	CG72U150C1	700	150	B	2.40	1.89
43 D 8186	CG112U150K1	1100	150	F	3.13	2.46
43 D 8136	CG1551U150D1	1550	150	C	4.01	3.15
43 D 8137	CG362U150F1	3600	150	D	7.08	5.56
43 D 8112	CG562U150G1	5600	150	E	9.87	7.76
43 D 8187	CG181T200A1	180	200	A	2.02	1.59
43 D 8188	CG451T200C1	450	200	B	2.58	2.03
43 D 8189	CG751T200K1	750	200	F	3.30	2.59
43 D 8138	CG13T200D1	1000	200	C	4.51	3.54
43 D 8139	CG2451T200F1	2450	200	D	6.83	5.37
43 D 8113	CG382T200G1	3800	200	E	12.26	9.64
43 D 8191	CG3750T250C1	375	250	B	2.99	2.35
43 D 8192	CG62T250K1	600	250	F	3.65	2.88
43 D 8140	CG82T250D1	800	250	C	4.72	3.71
43 D 8114	CG33T250G1	3000	250	E	10.16	8.00
43 D 8142	CG72T300D1	700	300	C	4.74	3.72
43 D 8143	CG1651T300F1	1650	300	D	8.46	6.65
43 D 7959	CG262T300G1	2600	300	E	10.63	8.35
43 D 8193	CG12T350A1	100	350	A	2.43	1.91
43 D 8194	CG251T350C1	250	350	B	2.96	2.33
43 D 8195	CG42T350K1	400	350	F	3.57	2.80
43 D 8144	CG551T350D1	550	350	C	5.10	4.01
43 D 8145	CG132T350F1	1300	350	D	8.59	6.57
43 D 8115	CG23T350G1	2000	350	E	10.63	8.35
43 D 8022	CG151T400C1	150	400	B	2.96	2.33
43 D 8146	CG3250T400D1	325	400	C	3.80	2.99
43 D 8199	CG181T450K1	180	450	F	3.09	2.43
43 D 8147	CG241T450D1	240	450	C	3.42	2.69

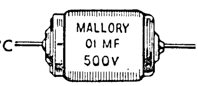
TYPES HC AND NP DRY ELECTROLYTICS

§	Size	Clamp	§	Size	Clamp
A	1 7/16x2¾″	43 D 7973	E	1 7/16x4⅜″	43 D 7973
B	1 7/16x3⅜″	43 D 7973	F	1 7/16x2¾″	43 D 7973
C	2 1/16x4⅜″	43 D 7975	G	1 13/16x4⅜″	43 D 7960
D	1 13/16x3⅜″	43 D 7960	H	3x4⅛″	43 D 7977

Moisture-resistant, plastic-cased electrolytics; screw terminals. Temperature range: —40°C to +85°C. ‡Aluminum case, lug terminals—for fence control. *NP nonpolarized types for intermittent AC use only. Others are HC polarized types for high-capacity, low-v. uses. †For photoflash. **Dual section. See page 170 for mounting clamps. Tolerances: NP, ±25%, except 3003A, ±15%; HC, 0-50 WVDC, —10% to +150%; 51-350 WVDC, —10% to +100%; 351 WVDC and up, —10% to +50%. Av. shpg. wt. size code A-D ½ lb., E-H 1½ lbs.

Stock No.	Mfr's Type	Mfd	WV DC	§	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99	EACH 100-249
43 D 8429	10100	10000	10	C	7.82	6.70	3.90	3.02	2.59
43 D 7581	1540A	4000	15	E	5.37	4.61	2.69	2.07	1.68
43 D 7589	1560A	6000	15	D	5.62	4.82	2.81	2.17	1.75
43 D 9935	2050-50	5000	20**	C	8.00	6.86	4.00	3.09	2.17
43 D 9936	2060A	6000	20	G	6.11	5.24	3.05	2.36	2.29
43 D 9923	20250†	25,000	20	H	12.88	11.04	6.44	4.96	4.02
43 D 7582	2510A	1000	25	F	3.19	2.73	1.59	1.23	.99
43 D 7583	2520A	2000	25	B	4.15	3.56	2.07	1.60	1.29
43 D 7584	2540A	4000	25	D	5.58	4.79	2.79	2.15	1.74
43 D 9937	4040A	4000	40	G	6.98	6.00	3.49	2.69	2.18
43 D 9938	5005A	500	50	A	3.33	2.85	1.66	1.28	1.04
43 D 7586	5010A	1000	50	B	4.25	3.65	2.13	1.64	1.33
43 D 7590	5020A	2000	50	D	5.06	4.34	2.53	1.95	1.58
43 D 8098	5040	4000	50	C	7.32	6.27	3.66	2.82	2.28
43 D 7805	1255A*	500	125	G	6.30	5.40	3.15	2.42	1.90
43 D 9944	20005	500	200	C	5.97	5.12	2.99	2.30	1.86
43 D 8428	3003A*	15	300	F	2.87	2.46	1.44	1.11	.96
43 D 9939	15010A	1000	150	G	6.44	5.52	3.22	2.48	2.01
43 D 7592	20005A	500	200	D	5.53	4.74	2.77	2.13	1.73
43 D 9943	3014A*	100	300	D	6.13	5.25	3.06	2.36	1.84
43 D 7588	3025*	200	300	C	7.00	6.00	3.50	2.70	2.10
43 D 7810	4505*	50	450	D	6.30	5.40	3.15	2.42	1.87
43 D 7811	4510*	100	450	C	7.70	6.60	3.85	2.97	2.64
43 D 7820	45003†	300	450	C	8.47	7.26	4.24	3.27	2.64

SX POLYSTYRENE CAPACITORS



- Less Than 1.3% Change From—10°C to +70°C
- High Insulation Resistance • Small Size
- Power Factor Less Than .05% • Low Cost

Stretched polystyrene dielectric fused to high-purity aluminum foil, produces excellent humidity barrier. Excellent where utmost capacitance stability versus temperature and time are required, due to high insulation resistance and power factor of less than .05%. Capacitance change from —10°C to +70°C is less than 1.3% total, and is negative. Temp. coefficient, —150 ppm/°C, ±60 ppm °C. 500 WVDC. ±5% capacitance tolerance. Temp. range —40°C to +85°C. Average shipping weight, 1 oz. Price Locator below. For larger quantities, contact Allied.

SIZE CHART

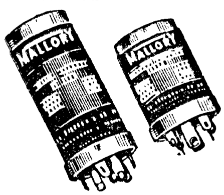
Mmf	Nominal Lgth.	Diameter
5 to 300	.395″	.165 to .255″
330 to 1000	.590″	.194 to .233″
1100 to 3000	.590″	.238 to .348″
3300 to 5000	.590 to .790″	.366 to .466″
5100 to 10,000	.590 to .790″	.470 to .590″

CAPACITANCE CHART

Mmf	Mmf	Mmf	Mmf	Mmf	Mmf	Mmf	Mmf
5	30	75	180	430	1000	2400	5000
10	33	82	200	470	1100	2500	5100
12	36	91	220	510	1200	2700	5600
15	39	100	240	560	1300	3000	6200
18	43	110	270	620	1500	3300	6800
20	47	120	300	680	1600	3600	7500
22	56	130	330	750	1800	3900	8200
24	62	150	360	820	2000	4300	9100
27	68	160	390	910	2200	4700	10,000

PRICE LOCATOR—SPECIFY MMF FROM TABLE ABOVE

Stock No.	Capacity Mmf	EACH 1-24	EACH 25-99	EACH 100-249	EACH 250-499	EACH 500-999	EACH 1000-Up
43 D 0400 C	5 to 300	.12	.11	.093	.07	.054	.051
43 D 0401 C	330 to 1000	.12	.11	.093	.07	.054	.051
43 D 0402 C	1100 to 3000	.15	.13	.111	.086	.066	.062
43 D 0403 C	3300 to 5000	.18	.16	.13	.103	.076	.07
43 D 0404 C	5100 to 10,000	.21	.16	.14	.105	.079	.076



Twist-Prong Electrolytic Capacitors

Types FP and WP. For filter, audio by-pass, TV circuits. Stable under high ripple current, surge voltages and temperatures (+85°C). Can is common negative. Both FP and WP types have etched-plate anodes. Tolerances: 0-50 WVDC, −10 to +150%; 150-350 WVDC, −10 to 100%; over 350 WVDC, −10 to +50%. With insulating washer. §In table refers to size. Av. wt., 6 oz.

For Listings of Equivalent Electrolytics—See Pages 160 and 161

§	Dia. x L	§	Dia. x L	§	Dia. x L	§	Dia. x L	§	Dia. x L	§	Dia. x L
A	1x1½"	C	1x2"	E	1x3"	G	1⅜x2½"	J	1⅜x3½"	L	1⅜x1¾"
B	1x1¾"	D	1x2½"	F	1⅜x2"	H	1⅜x3"	K	1⅜x4"		

SINGLE SECTION (FP, Except †WP)—Specify Stock No. and Type When Ordering

Stock No.	Mfr's Type	Cap. Mfd	WV DC	§	EACH 1-9	10-24	25-49	50-99	100-249
43 D 9566	031.6	5000	10	E	3.45	2.66	1.99	1.55	1.24
43 D 9567	031.8	10000	10	H	6.16	4.74	3.56	2.77	2.22
43 D 9554	039A†	1000	15	A	1.53	1.26	.95	.74	.59
43 D 9555	041A†	2000	15	F	2.07	1.93	1.45	1.13	.90
43 D 9556	042A†	3000	15	F	2.10	2.10	1.83	1.42	1.14
43 D 9568	042.6	5000	15	G	4.06	3.13	2.35	1.83	1.46
43 D 9569	042.8	10000	15	J	6.66	5.13	3.85	2.99	2.40
43 D 9663	055A†	100	25	A	.96	.85	.64	.50	.40
43 D 9552	057A†	500	25	A	1.53	1.17	.88	.68	.55
43 D 9553	059†	1000	25	F	2.13	1.73	1.30	1.01	.81
43 D 9570	060.2	2000	25	L	2.56	1.97	1.48	1.15	.92
43 D 9571	060.6	5000	25	J	4.63	3.57	2.68	2.08	1.67
43 D 9664	064A†	100	50	A	.99	.87	.65	.51	.41
43 D 9549	065†	500	50	F	1.59	1.44	1.08	.84	.67
43 D 9572	066.5	1000	50	F	2.50	1.92	1.44	1.12	.90
43 D 9550	068†	1500	50	H	2.31	2.31	1.84	1.43	1.14
43 D 9573	070	2000	50	J	3.21	2.48	1.86	1.45	1.16
43 D 9543	116A	100	150	A	1.20	.99	.75	.58	.47
43 D 9546	117A	150	150	C	1.29	1.10	.83	.65	.52
43 D 9547	118A	200	150	F	1.47	1.40	1.05	.82	.65
43 D 9548	119A	3C0	150	F	1.68	1.63	1.23	.96	.77
43 D 9540	121	120	200	F	1.41	1.31	.99	.77	.62
43 D 9665	123A†	500	200	H	2.19	2.19	1.90	1.48	1.19
43 D 9538	128A	80	300	D	1.53	1.19	.90	.70	.56
43 D 9539	129.1A	100	300	D	1.74	1.30	.97	.76	.61
43 D 9666	132†	200	300	G	2.58	1.99	1.50	1.16	.93
43 D 9667	138A	80	350	F	1.71	1.48	1.11	.87	.69
43 D 9537	140A	125	350	G	2.37	1.80	1.35	1.05	.84
43 D 9668	140.6A	150	350	G	2.55	1.96	1.47	1.15	.92
43 D 9669	141	320	350	K	4.05	3.10	2.33	1.81	1.45
43 D 9531	144	20	450	C	1.08	.97	.73	.57	.45
43 D 9533	146	40	450	D	1.23	1.17	.88	.68	.55
43 D 9534	149	80	450	G	1.83	1.74	1.31	1.02	.82
43 D 9535	150	100	450	H	2.07	1.96	1.47	1.15	.92
43 D 9525	173	20	500	C	1.11	1.04	.78	.61	.49
43 D 9526	175	30	500	D	1.20	1.18	.88	.69	.55
43 D 9527	177	40	500	G	1.50	1.32	.99	.77	.62
43 D 9528	187	90	500	H	2.10	2.10	1.64	1.28	1.02

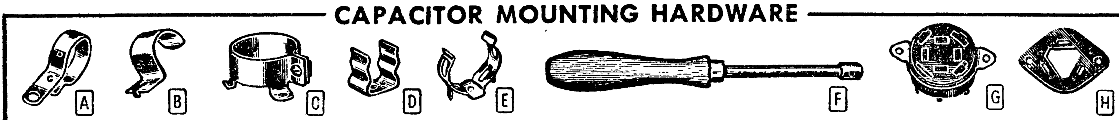
DUAL SECTION (FP, Except †WP)—Specify Stock No. and Type When Ordering

Stock No.	Mfr's Type	Cap. Mfd	WV DC	§	EACH 1-9	10-24	25-49	50-99	100-249
43 D 9458	200†	1000-1000	15	F	2.64	2.04	1.53	1.19	.95
43 D 9670	201.5†	1000-1000	35	G	3.93	3.02	2.26	1.77	1.42
43 D 9456	202.5A†	100-100	50	A	1.26	1.08	.81	.63	.50
43 D 9446	212A	40-40	150	A	1.14	1.05	.79	.62	.49
43 D 9449	214A	50-50	150	D	1.56	1.10	.83	.65	.52
43 D 9672	215A	125-100	150	F	2.04	1.59	1.19	.93	.74
43 D 9674	216.4A	200-200	15C	G	2.40	2.00	1.50	1.17	94
43 D 9658	221A	40-40	250	B	1.50	1.22	.90	.70	.56
43 D 9659	217.7A	150-150	250	G	3.09	2.35	1.76	1.37	1.10
43 D 9675	217.74A	200-200	250	H	3.60	2.75	2.06	1.60	1.28
43 D 9656	217.87	40-40	300	F	1.77	1.49	1.12	.87	.70
43 D 9653	227A	20-20	350	C	1.38	1.15	.86	.67	.54
43 D 9654	227.3A	30-30	350	D	1.74	1.29	.97	.75	.60
43 D 9677	227.6A	80-80	350	H	2.82	2.18	1.64	1.27	1.02
43 D 9655	227.7A	100-100	350	J	3.69	2.44	1.83	1.42	1.14
43 D 9587	231	10-10	450	C	1.14	1.08	.81	.63	.50
43 D 9591	234A	20-20	450	D	1.53	1.29	.97	.75	.60
43 D 9592	237	30-30	450	G	1.83	1.68	1.26	.98	.79
43 D 9593	238A	40-40	450	G	2.07	1.89	1.42	1.10	.88
43 D 9650	245.2	80-20	450	H	2.34	2.08	1.56	1.22	.97
43 D 9582	264.5	80-40	475	K	3.03	2.52	1.89	1.47	1.18
43 D 9584	266	80-50	475	K	3.12	2.63	1.98	1.54	1.23
43 D 9562	288	40-40	500	H	2.58	2.18	1.63	1.27	1.02
....	....	....	....	..	....	....	....	....	....

TRIPLE SECTION—Specify Stock No. and FP Type When Ordering

Stock No.	Mfr's Type	Cap. Mfd	WV DC	§	EACH 1-9	10-24	25-49	50-99	100-249
43 D 9521	302.5A	80-60-250	150-150-10	D	2.04	1.41	1.06	.83	.66
43 D 9511	311.5A	40-40-40	150	B	1.56	1.26	.95	.74	.59
43 D 9507	320	40-20-20	250	F	1.74	1.51	1.13	.88	.71
43 D 9486	330.5A	10-10-10	350	B	1.44	1.18	.89	.69	.55
43 D 9487	330.7A	30-20-10	350	D	1.95	1.39	1.04	.81	.65
43 D 9690	331.3A	80-60-60	350	J	3.33	2.56	1.92	1.49	1.20
43 D 9461	375.8	10-10-10	450	D	1.56	1.30	.97	.76	.61
43 D 9464	376.5	20-20-20	450	G	2.16	1.79	1.35	1.05	.84
43 D 9469	377.1	40-40-40	450	J	3.12	2.41	1.81	1.41	1.13
43 D 9470	378	80-40-20	450	K	3.24	2.63	1.97	1.53	1.23

CAPACITOR MOUNTING HARDWARE



Selection of mounting hardware for capacitors subject to moderate or acute vibration. Hold capacitors securely in position, positively eliminating any chance of wobble or strain on terminals or body. Straps are tinned steel; all others are cadmium plated.

A TUBULAR STRAPS (Wt., 1 oz.)

Stock No.	Dia. Size	EACH 1-99	100-999	1000-Up
43 D 7962	⅝"	.09	.07	.05
43 D 7963	11/16"	.09	.07	.05
43 D 7964	¾"	.09	.07	.05
43 D 7965	13/16"	.09	.07	.05
43 D 7966	⅞"	.12	.10	.08
43 D 7967	15/16"	.12	.10	.08
43 D 7968	1"	.12	.10	.08
43 D 7969	1⅜"	.12	.10	.08

B "C" CLAMPS (Wt., 1 oz.)

43 D 7970	⅝-¾"	.12	.10	.08
43 D 7971	⅞-1"	.12	.10	.08

C MOUNTING RINGS (Wt., 1 oz.)

43 D 7972	1-1 1/16"	.15	.12	.10
43 D 7973	1⅜-1 7/16"	.18	.15	.13
43 D 7974	1½-1 9/16"	.18	.15	.13
43 D 7960	1¾-1 13/16"	.24	.20	.16
43 D 7975	2-2 1/16"	.18	.14	.12
43 D 7976	2½-2 9/16"	.21	.18	.15

C MOUNTING RINGS (Cont'd)

Stock No.	Dia. Size	EACH 1-99	100-999	1000-Up
43 D 7977	3"	.39	.35	.32

D MOUNTING CLIPS (Wt., 1 oz.)

43 D 7978	¾"	.12	.08	.06
43 D 7979	1"	.12	.09	.07
43 D 7980	1⅜"	.18	.15	.13

E UNIVERSAL CLIPS (Wt., 1 oz.)

43 D 7981	⅜-7/16"	.12	.10	.08
43 D 7982	½-9/16"	.12	.10	.08
43 D 7983	⅝-11/16"	.12	.10	.08
43 D 7984	¾-13/16"	.15	.11	.09
43 D 7985	⅞-15/16"	.15	.11	.09
43 D 7986	1-1 1/16"	.15	.12	.10
43 D 7987	1⅜x1 7/16"	.15	.12	.10

G MOUNTING SOCKETS (Wt., 2 oz.)

47 D 0335	1"	.44	.218	....
47 D 0336	1⅜"	.67	.339	....

F MOUNTING WRENCH

For locking "Twist-Prong" electrolytic capacitors securely into position. Length of unit, 7⅞". Shpg. wt., 1 lb.

43 D 7990........................ 1.49

H MOUNTING PLATES (Wt., 1 oz.)

Standard mounting plates for mounting "Twist-Prong" capacitors. *Phenolic. †Metal. #Mount 1" dia. can over a 1⅜" dia. hole.

Stock No.	Size	Stock No.	Size
43 D 7945	1"*	43 D 7948	1"†
43 D 7946	1⅜"*	43 D 7949	1⅜"†
43 D 7947	#*	43 D 7950	#†

1-99 Ea. .09 100-999 Ea. .07 1000-Up Ea. .05

KRAFT INSULATING SLEEVES (Not Illus.)

43 D 7510	¾x2"	43 D 7517	1⅜x2½"
43 D 7511	1x2"	43 D 7514	1⅜x3"
43 D 7515	1x2½"	43 D 7988	1⅜x3½"
43 D 7512	1x3"	43 D 7518	1⅜x4"
43 D 7513	1⅜x2"	43 D 7989	1⅜x4⅛"

1-99 Ea. .09 100-999 Ea. .07 1000-Up Ea. .05

Good-All Subminiature "Mylar" Capacitors TRW

TYPE X663F METALLIZED "MYLAR" CAPACITORS

- Ultra-Miniature, Lightweight
- "Mylar" Dielectric and Cases
- Feature Exceptional Stability

Thin, oval case design. Extended-foil metallized "Mylar"-dielectric is self-healing; provides long stable life, high insulation-resistance, low dissipation factor. NOTE: the 200 WVDC units listed below are identical in price and size to 100 WVDC units (not listed)—you get this higher voltage-rating at no extra cost. Temperature range: −55°C to +100°C; derate 50% for +125°C. Life test: 250 hours at 100°C and 125% of rated voltage. Tolerance: ±10%. Average shpg. wt., 2 oz.

200 WVDC

Stock No.	Mfd	Size	EACH 1-24	25-49	50-99	100-249	250-499	500-999
43 D 1929	.01	5/32x13/64x7/16"	1.41	.85	.61	.55	.49	.45
43 D 1930	.022	13/64x17/64x7/16"	1.31	.79	.58	.51	.45	.43
43 D 1931	.033	7/32x9/32x7/16"	1.23	.74	.53	.48	.43	.39
43 D 1932	.047	11/64x17/64x9/16"	1.13	.68	.49	.44	.39	.36
43 D 1933	.10	1/4x23/64x9/16"	1.03	.62	.44	.41	.36	.34
43 D 1934	.22	17/64x3/8x11/16"	1.18	.71	.50	.46	.41	.37
43 D 1935	.33	19/64x31/64x11/16"	1.44	.86	.62	.56	.50	.46
43 D 1936	.47	23/64x35/64x11/16"	1.62	.97	.71	.64	.56	.52
43 D 1937	.68	11/32x33/64x15/16"	1.80	1.08	.78	.71	.62	.58
43 D 1938	1.00	27/64x19/32x15/16"	2.03	1.21	.88	.79	.71	.65
43 D 1940	1.5	9/16x37/64x1 1/4"	2.27	1.36	.99	.89	.79	.73
43 D 1939	2.00	27/64x23/32x1 1/4"	2.52	1.51	1.09	.99	.87	.80
43 D 1941	3.00	29/64x49/64x1 1/2"	3.01	1.80	1.31	1.18	1.05	.97
43 D 1942	4.00	1/2x57/64x1 1/2"	3.75	2.26	1.63	1.47	1.30	1.20
43 D 1944	5.00	33/64x29/32x1 3/4"	4.25	2.55	1.85	1.66	1.47	1.36

TYPE 663F "MYLAR" CAPACITORS

Special-purpose capacitors (look like X663F, above) function same as 663UW capacitors (lower right), but can be butted together when chassis area is limited. Excellent in military and instrument applications. Tough plastic film case. −55°C to +85°C temp. range; to +125°C with 50% derating. Tol., ±10%. Av. Shpg. wt., 2 oz.

100 WVDC

43 D 1900	.022	5/32x19/64x5/8"	.80	.48	.35	.31	.27	.25
43 D 1901	.033	3/16x21/64x5/8"	.80	.48	.35	.31	.28	.26
43 D 1902	.047	7/32x21/64x3/4"	.82	.49	.36	.32	.28	.26
43 D 1903	.10	7/32x23/64x7/8"	.86	.51	.37	.33	.30	.27
43 D 1904	.22	21/64x35/64x1"	.94	.56	.41	.37	.32	.30
43 D 1905	.33	25/64x39/64x1 1/8"	1.00	.60	.43	.39	.35	.32
43 D 1906	.47	23/64x43/64x1 1/4"	1.08	.65	.47	.42	.37	.34
43 D 1907	1.00	29/64x55/64x1 1/2"	1.30	.78	.56	.51	.45	.41

200 WVDC

43 D 1908	.01	5/32x19/64x5/8"	.77	.46	.33	.30	.27	.25
43 D 1910	.022	3/16x21/64x5/8"	.80	.48	.35	.31	.27	.25
43 D 1911	.033	3/16x19/64x3/4"	.80	.48	.35	.31	.28	.26
43 D 1912	.047	7/32x23/64x3/4"	.82	.49	.36	.32	.28	.26
43 D 1913	.10	19/64x31/64x7/8"	.86	.51	.37	.33	.30	.27
43 D 1914	.22	21/64x37/64x1 1/8"	.94	.56	.41	.37	.32	.30
43 D 1915	.33	27/64x43/64x1 1/8"	1.00	.60	.43	.39	.35	.32
43 D 1916	.47	27/64x51/64x1 1/4"	1.08	.65	.47	.42	.37	.34
43 D 1917	1.00	35/64x59/64x1 3/4"	1.30	.78	.56	.51	.45	.41

400 WVDC

43 D 1918	.01	7/32x23/64x5/8"	.80	.48	.35	.31	.27	.25
43 D 1919	.022	19/64x29/64x3/4"	.84	.50	.36	.33	.29	.27
43 D 1921	.047	23/64x29/64x7/8"	.89	.53	.38	.35	.31	.28
43 D 1922	.10	23/64x39/64x1"	.95	.57	.41	.37	.33	.30
43 D 1923	.22	27/64x51/64x1 3/8"	1.08	.65	.47	.42	.37	.34
43 D 1924	.47	33/64x59/64x1 5/8"	1.32	.79	.57	.52	.46	.42

TYPE 601PE "MYLAR" CAPACITORS

Space-saving capacitors are designed for transistor printed circuits. Replace ceramic discs where stability with temperature change is important. Temp. range: −55°C to +85°C. Derate 50% for +125°C. Life test: 500 hours at +85°C and 125% of rated voltage. High insulation resistance, low dissipation factor. Dipped epoxy coating seals winding and lead entries, provides high-dielectric strength, and humidity resistance. Rated 50 WVDC. Tol., ±10%. Av. shpg. wt., 1 oz.

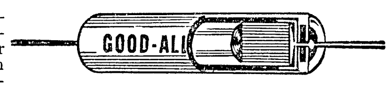
43 D 1946	.01	5/16x9/16x3/16"	.75	.45	.32	.29	.25	.24
43 D 1947	.022	23/64x9/16x3/16"	.83	.50	.36	.32	.29	.26
43 D 1948	.033	17/32x13/32x3/16"	.87	.52	.37	.34	.30	.28
43 D 1949	.047	17/32x29/64x13/64"	.91	.55	.40	.35	.32	.29
43 D 1950	.068	17/32x1/2x7/32"	.95	.57	.41	.37	.33	.31
43 D 1951	.10	21/32x17/32x15/64"	1.03	.62	.45	.41	.36	.33
43 D 1952	.15	43/64x21/32x17/64"	1.08	.65	.46	.42	.37	.34
43 D 1953	.22	47/64x11/16x5/16"	1.16	.69	.51	.45	.40	.37
43 D 1954	.33	13/16x3/4x5/16"	1.24	.75	.54	.48	.43	.40

TYPE 608 MICROMINIATURE "MYLAR" CAPACITORS

Foil-wound mylars for high-component-density applications. More heat tolerance and stability than same size micas; types to .01 mfd same size as tantalums but have less leakage and better insulation resistance. Temperature range, −55° to +85° C; to +125° C with 50% derating. Dissipation factor less than 0.1% at 1000 cps, 25° C. Humidity resistance meets MIL-C-27287 par. 3.12 when tested at 40° C for 96 hours. Life, 250 hours at 85° C and 125% of rated voltage. Tolerance ±10%. 100 WVDC. Av. shpg. wt., 1 oz.

Stock No.	Mfd	Size	EACH 1-24	25-49	50-99	100-249	250-499	500-999
43 D 1342	.001	5/64x3/8"	1.38	1.01	.75	.68	.60	.55
43 D 1343	.0015	3/32x3/8"	1.40	1.02	.76	.69	.61	.56
43 D 1344	.0022	3/32x3/8"	1.42	1.03	.77	.69	.61	.57
43 D 1345	.0033	7/64x3/8"	1.43	1.04	.78	.70	.62	.57
43 D 1346	.0047	7/64x3/8"	1.45	1.05	.79	.71	.63	.58
43 D 1347	.0068	1/8x3/8"	1.47	1.07	.80	.72	.63	.59
43 D 1364	.0082	1/8x3/8"	1.48	1.08	.81	.73	.64	.59
43 D 1365	.01	9/64x3/8"	1.48	1.08	.81	.73	.64	.59
43 D 1366	.015	5/32x3/8"	1.52	1.10	.82	.74	.66	.61
43 D 1367	.022	11/64x3/8"	1.52	1.10	.82	.74	.66	.61
43 D 1385	.033	7/32x3/8"	1.58	1.15	.86	.77	.68	.63
43 D 1386	.047	1/4x3/8"	1.62	1.17	.88	.79	.70	.64
43 D 1387	.068	11/32x17/32"	2.27	1.36	.99	.89	.79	.73
43 D 1388	.10	3/8x17/32"	2.40	1.44	1.05	.94	.83	.77

TYPE 663UW "MYLAR" CAPACITORS



Space-saving capacitors have "skin-tight" cases. Offer long, stable life, high insulation resistance, and low dissipation factor. Epoxy end-fills ensure high resistance to humidity. Temperature range: −55°C; to +125°C with 50% derating. Tolerance, ±10%. Av. shpg. wt., 2 oz.

100 WVDC

Stock No.	Mfd	Size	EACH 1-24	25-49	50-99	100-249	250-499	500-999
43 D 1079	.001	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1081	.0022	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1082	.0033	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1083	.0047	5/32x1/2"	.66	.40	.29	.26	.23	.21
43 D 1084	.0068	5/32x1/2"	.66	.40	.29	.26	.23	.21
43 D 1086	.01	5/32x1/2"	.70	.42	.31	.27	.24	.22
43 D 1088	.022	13/64x5/8"	.70	.42	.31	.27	.24	.22
43 D 1089	.033	7/32x5/8"	.74	.44	.32	.29	.25	.23
43 D 1090	.047	15/64x3/4"	.74	.44	.32	.29	.25	.23
43 D 1091	.068	17/64x3/4"	.74	.44	.32	.29	.25	.23
43 D 1092	.10	9/32x7/8"	.78	.47	.34	.31	.26	.24
43 D 1093	.22	21/64x1"	.87	.51	.37	.34	.30	.27
43 D 1094	.33	3/8x1 1/8"	.90	.54	.40	.35	.32	.29
43 D 1095	.47	15/32x1 1/4"	.99	.59	.43	.38	.34	.32
43 D 1096	.68	9/16x1 1/4"	1.08	.64	.46	.42	.37	.34
43 D 1098	1.0	19/32x1 1/2"	1.20	.72	.52	.46	.42	.38
43 D 1099	2.0	13/16x1 3/4"	1.57	.94	.68	.62	.54	.49

200 WVDC

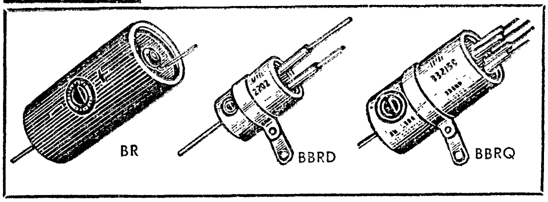
43 D 1300	.001	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1301	.0015	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1302	.0022	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1303	.0033	5/32x1/2"	.62	.37	.26	.24	.22	.20
43 D 1304	.0047	5/32x1/2"	.66	.40	.29	.26	.23	.21
43 D 1307	.01	11/64x1/2"	.70	.42	.31	.27	.24	.22
43 D 1309	.022	1/4x5/8"	.70	.42	.31	.27	.24	.22
43 D 1310	.033	1/4x3/4"	.74	.44	.32	.29	.25	.23
43 D 1311	.047	19/64x3/4"	.74	.44	.32	.29	.25	.23
43 D 1313	.10	3/8x7/8"	.78	.47	.34	.31	.26	.24
43 D 1314	.22	7/16x1 1/8"	.87	.51	.37	.34	.30	.27
43 D 1315	.33	31/64x1 1/8"	.90	.54	.40	.35	.32	.29
43 D 1316	.47	35/64x1 1/4"	.99	.59	.43	.38	.34	.32
43 D 1319	1.0	43/64x1 3/4"	1.20	.72	.52	.46	.42	.38
43 D 1320	2.0	7/8x1 7/8"	1.57	.94	.68	.62	.54	.49

400 WVDC

43 D 1321	.001	5/32x5/8"	.62	.37	.26	.24	.22	.20
43 D 1377	.0022	5/32x5/8"	.66	.40	.29	.26	.23	.21
43 D 1323	.0047	3/16x5/8"	.70	.42	.31	.27	.24	.22
43 D 1324	.01	1/4x5/8"	.74	.44	.32	.29	.25	.23
43 D 1325	.022	5/16x3/4"	.78	.47	.34	.31	.26	.24
43 D 1327	.047	11/32x7/8"	.82	.49	.36	.32	.29	.26
43 D 1328	.10	27/64x1"	.87	.51	.37	.34	.30	.27
43 D 1329	.22	35/64x1 3/8"	.99	.59	.43	.38	.34	.32
43 D 1331	.47	43/64x1 5/8"	1.20	.72	.52	.46	.42	.39
43 D 1332	1.0	13/16x2"	1.73	1.05	.75	.68	.61	.54
42 D 1333	2.0	1 3/32x2 1/4"	2.35	1.41	1.02	.92	.81	.75

Cornell-Dubilier "Blue Beaver" Capacitors

CDE



Tubular electrolytics for economy circuits. Sealed in aluminum cans, cardboard sleeves. Types BR and BBR have negative terminal grounded to can. Type BBR is miniature version of BR. Anodes and cathodes of BR and BBR units up to and including 150-v. types, are etched for use with junction rectifiers. BBRD, BBRT, BBRQ have 7" flexible vinyl-covered leads with color-coded positive, common neg. Rated 85° C, except 500-v. types, 65°C. Sizes are can-size only; add 1/16" to dia. and 3/16" to length for sleeve. Tolerance through 50 v. is —10% to +150%; 51 v. through 350 v.,—10% to +100%; 351 v. to 700 v.,—10% to +50%.

Equivalent Types Available—See Page 159

TYPES BR/BBR SINGLE SECTION Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Mfd	WV DC	Size Inches	EACH 1-24	25-49	50-99	100-499	500-999
43 D 9203	25-6	25	6	3/8x1 1/16	.51	.37	.29	.23	.20
43 D 9204	50-6	50	6	3/8x1 1/16	.57	.41	.32	.26	.22
43 D 9205	100-6	100	6	1/2x1 1/16	.72	.50	.39	.31	.27
43 D 9206	250-6	250	6	1/2x1 1/16	.81	.64	.50	.40	.34
43 D 9285	500-6	500	6	1/2x1 7/16	.93	.73	.57	.45	.39
43 D 9286	1000-6	1000	6	5/8x1 11/16	1.14	.89	.69	.55	.48
43 D 9287	2000-6	2000	6	3/4x2	1.38	1.04	.84	.67	.58
43 D 9207	100-15	100	15	1/2x1 1/16	.75	.52	.41	.33	.28
43 D 9272	250-15	250	15	1/2x1 1/16	.93	.73	.57	.46	.40
43 D 9273	500-15	500	15	1/2x1 7/16	1.05	.82	.64	.51	.44
43 D 9274	1000-15	1000	15	5/8x1 11/16	1.38	1.07	.83	.67	.58
43 D 9284	2000-15	2000	15	3/4x2	1.92	1.26	.97	.78	.68
43 D 9409	3000-15	3000	15	7/8x2 3/16	2.37	1.82	1.42	1.14	.98
43 D 9410	4000-15	4000	15	7/8x2 3/4	2.91	2.25	1.75	1.40	1.20
43 D 9411	5000-15	5000	15	1x3	3.15	2.45	1.91	1.53	1.31
43 D 9216	10-25	10	25	3/8x1 1/16	.60	.42	.33	.26	.23
43 D 9217	20-25	20	25	3/8x1 1/16	.60	.43	.34	.27	.23
43 D 9218	25-25	25	25	3/8x1 1/16	.60	.44	.35	.28	.24
43 D 9219	50-25	50	25	1/2x1 1/16	.66	.47	.37	.30	.25
43 D 9208	100-25	100	25	1/2x1 7/16	.81	.57	.45	.36	.31
43 D 9270	250-25	250	25	1/2x1 7/16	1.02	.79	.62	.49	.42
43 D 9271	500-15	500	25	5/8x1 11/16	1.38	1.07	.83	.67	.57
43 D 9261	1000-25	1000	25	3/4x2	2.37	1.82	1.42	1.14	.97
43 D 9412	2000-25	2000	25	7/8x2 1/2	2.91	2.75	1.76	1.41	1.21
43 D 9222	5-50	5	50	3/8x1 1/16	.60	.42	.32	.26	.22
43 D 9223	10-50	10	50	3/8x1 1/16	.60	.42	.33	.27	.23
43 D 9224	25-50	25	50	1/2x1 1/16	.63	.44	.35	.28	.24
43 D 9213	50-50	50	50		.72	.51	.40	.32	.28
43 D 9147	100-50	100	50	1/2x1 7/16	.84	.59	.46	.37	.32
43 D 9148	150-50	150	50	5/8x1 7/16	.93	.66	.51	.41	.36
43 D 9149	250-50	250	50	3/4x1 7/16	1.05	.87	.64	.51	.44
43 D 9269	500-50	500	50	7/8x1 11/16	1.44	1.11	.86	.69	.59
43 D 9413	1000-50	1000	50	1x2 11/16	2.52	1.93	1.49	1.20	1.03
43 D 9414	2000-50	2000	50	1 3/8x2 3/4	3.48	2.60	2.02	1.61	1.38
43 D 9214	4-150	4	150	1/8x1 1/16	.60	.43	.33	.27	.23
43 D 9249	8-150	8	150	1/2x1 1/16	.63	.45	.34	.28	.24
43 D 9226	10-150	10	150	1/2x1 1/16	.63	.46	.35	.29	.25
43 D 9247	12-150	12	150	1/2x1 1/16	.66	.42	.36	.29	.25
43 D 9248	16-150	16	150	1/2x1 7/16	.69	.49	.38	.31	.26
43 D 9225	20-150	20	150	1/2x1 7/16	.72	.50	.39	.31	.27
43 D 9145	25-150	25	150	3/4x1 7/16	.75	.53	.41	.33	.29
43 D 4045	30-150	30	150	3/4x1 7/16	.78	.55	.43	.34	.30
43 D 4046	40-150	40	150	3/4x1 11/16	.81	.58	.45	.36	.31
43 D 4047	50-150	50	150	3/4x1 11/16	.84	.59	.46	.37	.32
43 D 9146	60-150	60	150	7/8x1 11/16	.90	.63	.49	.39	.34
43 D 4039	80-150	80	150	7/8x1 11/16	.96	.68	.54	.43	.37
43 D 4056	100-150	100	150	7/8x2	1.05	.74	.58	.46	.40
43 D 4057	150-150	150	150	1x2 3/16	1.14	.82	.63	.51	.44
43 D 4542	200-150	200	150	1x3	1.32	.98	.77	.62	.53
43 D 4543	300-150	300	150	1x3 13/16	1.77	1.35	1.04	.84	.72
43 D 9227	4-250	4	250	1/2x1 1/16	.60	.47	.37	.30	.26
43 D 9228	8-250	8	250	1/2x1 7/16	.69	.54	.41	.33	.29
43 D 9229	12-250	12	250	1/2x1 7/16	.75	.57	.44	.36	.31
43 D 4033	16-250	16	250	3/4x1 7/16	.78	.60	.47	.38	.32
43 D 4034	20-250	20	250	3/4x1 7/16	.81	.64	.49	.40	.34
43 D 9142	30-250	30	250	3/4x1 11/16	.87	.68	.53	.42	.37
43 D 4035	40-250	40	250	3/4x2	.93	.73	.57	.46	.39
43 D 9143	50-250	50	250	7/8x1 11/16	1.02	.80	.62	.50	.43
43 D 9144	60-250	60	250	1x1 11/16	1.08	.84	.65	.52	.44
43 D 4020	4-350	4	350	5/8x1 1/16	.63	.47	.38	.30	.26
43 D 4021	8-350	8	350	5/8x1 7/16	.72	.55	.43	.34	.30
43 D 4022	12-350	12	350	3/4x1 7/16	.78	.60	.47	.38	.32
43 D 4023	16-350	16	350	3/4x1 7/16	.84	.66	.51	.41	.35
43 D 4018	20-350	20	350	3/4x1 7/16	.87	.68	.52	.42	.36
43 D 4019	30-350	30	350	3/4x2	.99	.77	.60	.48	.41
43 D 4026	40-350	40	350	7/8x2	1.05	.81	.62	.51	.43
43 D 4544	60-350	60	350	1x2	1.17	.91	.71	.57	.49
43 D 4545	80-350	80	350	1x3	1.26	.98	.78	.63	.54
43 D 4546	100-350	100	350	1x3	1.53	1.11	.86	.69	.60
43 D 4008	1-450	1	450	5/8x1 1/16	.66	.51	.39	.32	.27
43 D 4009	2-450	2	450	5/8x1 1/16	.66	.52	.40	.32	.28
43 D 4010	4-450	4	450	5/8x1 1/16	.69	.53	.42	.34	.29
43 D 4011	8-450	8	450	3/4x1 7/16	.75	.59	.46	.37	.32
43 D 4012	10-450	10	450	3/4x1 7/16	.78	.62	.47	.38	.32
43 D 4013	12-450	12	450	3/4x1 7/16	.81	.64	.50	.40	.34
43 D 4014	16-450	16	450	3/4x1 11/16	.84	.65	.53	.42	.36
43 D 4015	20-450	20	450	7/8x1 11/16	.93	.73	.56	.45	.39
43 D 4016	30-450	30	450	1x2	1.02	.80	.62	.50	.43
43 D 4017	40-450	40	450	1x2 3/16	1.08	.83	.64	.52	.45
43 D 4004	60-450	60	450	1x3	1.41	1.08	.83	.67	.58
43 D 4005	80-450	80	450	1x3 9/16	1.68	1.28	.99	.79	.68
43 D 4547	100-450	100	450	1x3 13/16	1.92	1.48	1.15	.92	.80
43 D 9215	4-500	4	500	5/8x1 7/16	.72	.56	.43	.35	.30
43 D 4000	8-500	8	500	3/4x1 7/16	.78	.61	.47	.38	.33
43 D 4001	16-500	16	500	7/8x1 11/16	.90	.70	.54	.43	.38
43 D 4002	20-500	20	500	7/8x2	.96	.74	.60	.47	.40
43 D 4003	30-500	30	500	1x2	1.05	.82	.64	.52	.45
43 D 4538	8-700	8	700	15/16x3 3/16	1.47	1.12	.87	.69	.60
43 D 4539	10-700	10	700	1 1/16x3 3/16	1.53	1.17	.91	.73	.63
43 D 4541	16-700	16	700	1 1/16x4 3/16	2.10	1.68	1.30	1.05	.90

TYPE BBRD DUAL SECTION Av. shpg. wt., 5 oz.

43 D 9220	2202	20-20	25	3/4x1 1/16	.84	.72	.55	.44	.43
43 D 9250	115	10-10	50	3/4x1 1/16	.84	.72	.55	.44	.43
43 D 9252	2215	20-20	150	3/4x1 1/16	.99	.79	.60	.48	.47
43 D 9254	3315	30-30	150	7/8x1 11/16	1.08	.84	.64	.51	.49
43 D 9257	4415	40-40	150	7/8x2	1.11	.87	.66	.53	.51
43 D 9258	5315	50-30	150	7/8x2	1.17	.87	.67	.53	.51
43 D 9259	5515	50-50	150	1x2	1.26	.87	.73	.59	.57
43 D 9260	8415	80-40	150	1x2 3/16	1.35	.97	.77	.61	.59
43 D 8609	0183.7	100-50	150	1x3	1.80	1.10	.83	.67	.65
43 D 9288	101015	100-100	150	1x3	1.92	1.20	.91	.73	.71
43 D 9434	0196	200-5	200	1x4 1/16	2.10	1.31	1.00	.80	.77
43 D 9289	8D25	8-8	250	3/4x1 7/16	.96	.74	.56	.45	.44
43 D 9263	2225	20-20	250	1x1 11/16	1.11	.92	.70	.56	.54
43 D 9296	3325	30-30	250	1x2 3/16	1.35	1.02	.78	.62	.60
43 D 8614	0286	150-100	300	1 3/8x4 3/16	3.15	2.40	1.84	1.47	1.42
43 D 9265	8D45	8-8	450	7/8x1 11/16	1.02	.91	.69	.55	.53
43 D 9267	16D45	16-16	450	1x2 1/2	1.35	1.12	.85	.68	.66
43 D 9268	2245	20-20	450	1x3	1.50	1.23	.94	.75	.72
43 D 9297	3345	30-30	450	1 1/8x3 9/16	1.80	1.50	1.14	.91	.88
43 D 9221	4445	40-40	450	1x4 1/16	2.04	1.74	1.32	1.06	1.02

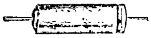
TYPE BBRT TRIPLE SECTION Av. shpg. wt., 6 oz.

43 D 9230	22215	20-20-20	150	7/8x1 11/16	1.32	1.23	.94	.75	.72
43 D 9231	32V215	30-25-20	150	7/8x2	1.35	1.28	.97	.78	.76
43 D 9232	33315	30-30-30	150	1x2	1.41	1.30	.99	.79	.76
43 D 9233	42215	40-20-20	150	1x1 11/16	1.35	1.33	1.02	.81	.78
43 D 9234	43215	40-30-20	150	1x2	1.41	1.30	.99	.79	.76
43 D 9235	44215	40-40-20	150	1x2	1.41	1.31	1.00	.80	.77
43 D 9236	44415	40-40-40	150	1x2 3/16	1.47	1.36	1.04	.83	.80
43 D 9435	53215	50-30-20	150	1x3	1.47	1.31	1.00	.80	.77
43 D 9298	84215	80-40-20	150	1x3	1.65	1.40	1.08	.86	.83
43 D 8620	0126.5	(3) 150	150	1 3/8x4 3/16	2.85	2.30	1.75	1.40	1.35
43 D 9238	3315C	30-30, 20	150,25	7/8x2	1.32	1.24	.96	.76	.73
43 D 9239	4215C	40-20, 20	150,25	1x1 11/16	1.29	1.24	.96	.76	.73
43 D 9243	5315C	50-30, 20	150,25	1x1 11/16	1.41	1.35	1.16	.93	.90
43 D 9245	8415C	80-40, 20	150,25	1x2 1/2	1.59	1.38	1.05	.84	.81
43 D 8621	0185	40-40-40	300	1 1/8x3	2.76	1.71	1.30	1.04	1.00
43 D 9282	16T45	16-16-16	450	1 1/8x3	1.86	1.57	1.20	.96	.93

TYPE BBRQ QUADRUPLE SECTION Av. shpg. wt., 8 oz.

Stock No.	Mfd	WVDC	Size Inches	EACH 1-24	25-49	50-99	100-499	500-999
43 D 9290	30-30-20, 20	150, 25	1x2	1.74	1.49	1.14	.91	.88
43 D 9293	40-40-30, 20	150, 25	1x2 1/2	1.80	1.55	1.18	.94	.91
43 D 9294	50-50-50, 20	150, 25	1x3	2.07	1.63	1.24	.99	.95
43 D 8628	140-5, 200-30	300, 150	1 1/2x4 3/16	3.09	2.56	1.94	1.56	1.50
43 D 9445	20-20-20-20	450	1x3	2.70	2.12	1.61	1.29	1.24
43 D 8635	40-40-20-20	450	1 3/8x4 3/16	3.27	2.50	1.89	1.51	1.45

Cornell-Dubilier Capacitors



TYPE NLW "ELECTOMITE" SUBMINIATURE ELECTROLYTIC CAPACITORS

Aluminum foil, hermetically sealed into aluminum cans with an outer transparent plastic sleeve. All terminal connections are securely welded. For use in transistorized and printed circuits. Surge voltages exceed working voltages by 20%. Operating temperature range, −40°C to +85°C. Tolerance, −10% to +150%. Grounded negative lead. Av. shpg. wt., 2 oz.

Code*	Size	Code*	Size	Code*	Size	Code*	Size
A	1/4x5/8"	D	3/16x7/8"	H	7/16x3/4"	L	7/16x1 1/8"
B	5/16x5/8"	F	3/8x3/4"	J	7/16x7/8"	M	7/16x1 3/8"
C	5/16x3/4"	G	3/8x7/8"	K	7/16x1"	N	7/16x1 5/8"

Equivalent Type Available—See Page 162.

3 WVDC

Stock No.	Mfd	Code Size *	EACH 1-24	25-49	50-99	100-499	500-999
43 D 8640	25	B	.75	.53	.30	.24	.21
43 D 9612	50	D	.75	.53	.41	.33	.28
43 D 0374	75	G	.84	.55	.43	.34	.29
43 D 9775	100	H	.84	.61	.47	.38	.32
43 D 8641	200	K	.90	.61	.47	.38	.32
43 D 9776	250	L	.96	.61	.47	.38	.32
43 D 0376	300	L	.99	.65	.51	.41	.35
43 D 0377	350	L	.99	.68	.53	.42	.36
43 D 9777	450	N	1.05	.72	.56	.45	.38

6 WVDC

Stock No.	Mfd	Code Size *	EACH 1-24	25-49	50-99	100-499	500-999
43 D 8645	10	A	.84	.56	.40	.28	.24
43 D 5994	15	B	.81	.51	.30	.24	.21
43 D 0379	20	B	.81	.51	.30	.24	.21
43 D 9774	30	C	.84	.51	.30	.24	.21
43 D 0901	40	F	.84	.53	.41	.33	.28
43 D 0380	50	G	.84	.55	.43	.34	.29
43 D 9597	125	J	.90	.61	.47	.38	.32
43 D 0381	150	K	.93	.61	.47	.38	.32
43 D 0382	250	M	1.02	.65	.51	.41	.35
43 D 0383	300	N	1.08	.69	.54	.43	.37

10 WVDC

Stock No.	Mfd	Code Size *	EACH 1-24	25-49	50-99	100-499	500-999
43 D 0384	8	A	.81	.51	.32	.26	.22
43 D 8652	25	C	.87	.55	.43	.34	.29
43 D 8653	50	G	.93	.61	.47	.38	.32
43 D 0385	75	H	.99	.61	.47	.38	.32
43 D 9773	125	K	1.11	.63	.49	.39	.34
43 D 0386	150	L	1.14	.64	.50	.40	.34
43 D 0387	225	M	1.26	.70	.54	.43	.37

12 WVDC

Stock No.	Mfd	Code Size *	EACH 1-24	25-49	50-99	100-499	500-999
43 D 0388	15	B	.84	.51	.32	.26	.22
43 D 0389	35	F	.87	.55	.43	.34	.29
43 D 0390	100	J	1.05	.61	.47	.38	.32
43 D 0391	200	M	1.23	.68	.53	.42	.36
43 D 0905	250	N	1.32	.71	.55	.44	.38
15 WVDC							
43 D 0907	4	A	.78	.51	.32	.26	.22
43 D 8655	5	A	.84	.51	.34	.27	.23
43 D 8656	10	B	.84	.53	.34	.27	.23
43 D 8657	20	C	.87	.53	.34	.27	.23
43 D 0913	25	F	.87	.55	.43	.34	.29
43 D 8658	30	F	.90	.55	.43	.34	.29
43 D 9765	40	H	.93	.55	.43	.34	.29
43 D 9766	50	H	.96	.61	.47	.38	.32
43 D 9768	100	K	1.08	.61	.47	.38	.32
43 D 9769	125	L	1.11	.63	.49	.39	.34
43 D 9770	150	M	1.17	.65	.51	.41	.35
43 D 9771	175	M	1.20	.68	.53	.42	.36
43 D 9772	200	N	1.26	.72	.56	.45	.38
25 WVDC							
43 D 9596	3	A	.78	.51	.34	.27	.23
43 D 9758	6	B	.84	.53	.34	.27	.23
43 D 9759	8	B	.87	.56	.40	.28	.24
43 D 9608	10	C	.87	.56	.40	.28	.24
43 D 8660	15	F	.87	.55	.43	.34	.29
43 D 9760	25	H	.93	.61	.47	.38	.32
43 D 9761	30	H	.96	.61	.47	.38	.32
43 D 9741	35	J	.96	.61	.47	.38	.32
43 D 9762	40	J	1.02	.61	.47	.38	.32
43 D 9763	50	K	1.08	.61	.47	.38	.32
43 D 0393	75	M	1.17	.64	.50	.40	.34
43 D 9764	100	N	1.26	.66	.52	.41	.35

50 WVDC

Stock No.	Mfd	Code Size *	EACH 1-24	25-49	50-99	100-499	500-999
43 D 0915	1	A	.87	.59	.40	.28	.24
43 D 9754	2	A	.81	.53	.32	.26	.22
43 D 0916	3	B	.81	.53	.34	.27	.23
43 D 9755	4	B	.81	.53	.34	.27	.23
43 D 8662	5	B	.87	.53	.34	.27	.23
43 D 0917	6	C	.87	.59	.46	.37	.31
43 D 0394	8	F	.90	.59	.46	.37	.32
43 D 8663	10	F	.90	.59	.46	.37	.32
43 D 0919	15	H	.90	.61	.47	.38	.32
43 D 8664	20	H	.90	.61	.47	.38	.32
43 D 0920	25	J	.93	.61	.47	.38	.32
43 D 0395	30	J	.96	.61	.47	.38	.32
43 D 0921	35	K	1.02	.63	.49	.39	.34
43 D 9756	40	L	1.05	.64	.50	.40	.34
43 D 9757	50	M	1.11	.64	.50	.40	.35
43 D 0396	75	N	1.20	.65	.51	.41	.35
100 WVDC							
43 D 0397	2	C	.84	.59	.46	.37	.32
43 D 0923	3	F	.84	.59	.46	.37	.32
43 D 9599	6	H	.90	.60	.47	.37	.32
43 D 9753	8	J	.93	.60	.47	.37	.32
43 D 9605	10	K	.93	.60	.47	.38	.32
43 D 0924	15	M	.93	.61	.48	.38	.32
43 D 9607	20	N	.96	.63	.49	.39	.33
150 WVDC							
43 D 9750	1	B	.84	.63	.49	.39	.33
43 D 9751	2	F	.87	.63	.49	.39	.33
43 D 9600	5	H	.93	.63	.49	.39	.33
43 D 9601	8	K	.96	.63	.49	.39	.33
43 D 9602	10	L	.96	.63	.49	.39	.34
43 D 0398	35	M	.96	.65	.51	.41	.35
43 D 9752	15	N	.96	.66	.51	.41	.35

DPMS PAPER-"MYLAR" DIELECTRIC CAPACITORS

Dual-dielectric for high reliability operation. "Fixfil" impregnant. Crimped leads permit uniform parallel mounting. Temp. range, —55°C to 125°C. Tolerance ±10%.

200 WVDC

Stock No.	Mfr's Type	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 9725	2S22	.022	.370x .855	.15	.12	.09	.07	.063
43 D 6786	2S47	.047	.450x .855	.18	.13	.10	.08	.072
43 D 6787	2P1	.1	.470x1.180	.21	.15	.11	.09	.081
43 D 9726	2P22	.22	.590x1.300	.27	.20	.16	.13	.117
43 D 9724	2P47	.47	.730x1.600	.36	.26	.21	.17	.153
400 WVDC								
43 D 6789	4S1	.01	.390x .690	.15	.10	.08	.07	.063
43 D 6790	4S22	.022	.400x .855	.18	.13	.10	.08	.072
43 D 6608	4S33	.033	.440x .855	.18	.13	.10	.08	.072
43 D 9728	4S47	.047	.415x1.150	.21	.14	.11	.09	.081
43 D 6610	4S5	.05	.415x1.150	.21	.14	.11	.09	.08
43 D 6609	4S68	.068	.440x1.180	.24	.16	.12	.10	.09
43 D 6791	4P1	.1	.520x1.180	.24	.17	.13	.11	.099
43 D 9730	4P22	.22	.620x1.560	.36	.25	.20	.16	.114
43 D 6611	4P25	.25	.650x1.560	.36	.25	.20	.16	.146
600 WVDC								
43 D 6794	6D1	.001	.340x .690	.15	.10	.08	.07	.063
43 D 6798	6D22	.0022	.340x .690	.15	.10	.08	.07	.063
43 D 6612	6D33	.0033	.370x .660	.15	.10	.08	.07	.063
43 D 6855	6D47	.0047	.400x .690	.15	.10	.08	.07	.063
43 D 6620	6D5	.005	.400x .690	.15	.10	.08	.07	.063
43 D 6859	6S1	.01	.390x .870	.18	.11	.09	.07	.063
43 D 6861	6S22	.022	.470x .870	.18	.13	.10	.08	.072
43 D 6627	6S33	.033	.430x1.150	.21	.15	.11	.09	.081
43 D 6863	6S47	.047	.490x1.150	.21	.15	.12	.10	.090
43 D 6866	6P1	.1	.640x1.300	.27	.21	.16	.13	.117
43 D 9733	6P22	.22	.750x1.560	.42	.28	.22	.19	.171
43 D 6632	6P25	.25	.830x1.560	.42	.28	.22	.20	.183
1600 WVDC								
43 D 6869	16D1	.001	.350x .870	.21	.14	.11	.09	.081
43 D 9735	16D22	.0022	.420x .870	.21	.14	.11	.09	.081
43 D 9736	16D47	.0047	.540x .870	.24	.16	.13	.11	.099
43 D 6875	16S1	.01	.525x1.180	.30	.19	.15	.13	.117
43 D 9738	16S22	.022	.585x1.600	.42	.27	.21	.17	.153
43 D 9739	16S47	.047	.785x1.600	.51	.34	.26	.21	.189

DMF DIPPED POLYESTER FILM CAPACITORS

Flat, space saving capacitors. Moisture resistant casing, phenolic dipped and epoxy impregnated. Fix-fil impregnated; no leakage even at maximum operating temperature. 1 1/2" copperweld leads. Operating temp., —55° C to 85° C. Derate voltage, 10% at 100° C, 50% at 125° C. Tol., ±10%. Av. shpg. wt., 2 oz.

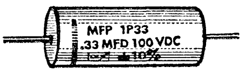
100 WVDC

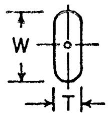
Stock No.	Type DMF	Mfd	Size, Inches LxWxT	EACH 1-24	25-49	50-99	100-499	500-999
43 D 5270	1S22	.022	3/4x5/16x3/16"	.21	.15	.12	.10	.09
43 D 5271	1S47	.047	3/4x11/32x7/32"	.24	.17	.13	.12	.10
43 D 5272	1P1	.1	3/4x7/16x5/16"	.27	.21	.16	.14	.12
43 D 5273	1P22	.22	3/4x3/4x3/8"	.36	.27	.21	.18	.15
43 D 5274	1P47	.47	1 1/8x3/4x3/8"	.48	.36	.28	.24	.20
43 D 5275	1W1	1.0	1 1/8x15/16x9/16"	.75	.56	.44	.38	.32
200 WVDC								
43 D 5276	2S1	.01	3/4x5/16x3/16"	.21	.17	.13	.11	.10
43 D 5277	2S22	.022	3/4x3/8x1/4"	.21	.15	.12	.10	.09
43 D 5278	2S33	.033	3/4x3/8x1/4"	.21	.16	.12	.11	.09
43 D 5279	2S47	.047	3/4x3/8x1/4"	.24	.17	.13	.12	.10
43 D 5280	2P1	.1	3/4x23/32x5/16"	.27	.21	.16	.14	.12
43 D 5281	2P22	.22	3/4x27/32x15/32"	.36	.27	.21	.18	.15
43 D 5282	2P33	.33	3/4x31/32x9/16"	.42	.31	.24	.21	.18
43 D 5283	2P47	.47	1 1/8x7/8x1/2"	.48	.36	.28	.24	.20
400 WVDC								
43 D 5284	4D47	.0047	3/4x5/16x3/16"	.21	.17	.13	.11	.10
43 D 5285	4S1	.01	3/4x11/32x7/32"	.21	.17	.13	.11	.10
43 D 5286	4S22	.022	3/4x13/32x9/32"	.21	.15	.12	.10	.09
43 D 5287	4S33	.033	3/4x11/16x9/32"	.21	.16	.13	.11	.10
43 D 5288	4S47	.047	3/4x23/32x11/32"	.24	.18	.14	.12	.10
43 D 5289	4P1	.1	3/4x29/32x1/2"	.30	.23	.18	.15	.13
43 D 5290	4P22	.22	1 1/8x7/8x15/32"	.39	.29	.23	.20	.17
600 WVDC								
43 D 5291	6D1	.001	3/4x5/16x3/16"	.24	.18	.14	.12	.10
43 D 5292	6D22	.0022	3/4x5/16x3/16"	.24	.18	.14	.12	.10
43 D 5293	6D33	.0033	3/4x5/16x3/16"	.24	.18	.14	.12	.10
43 D 5294	6D47	.0047	3/4x11/32x7/32"	.24	.18	.14	.12	.10
43 D 5295	6S1	.01	3/4x13/32x9/32"	.24	.18	.14	.12	.10
43 D 5296	6S22	.022	3/4x23/32x5/16"	.21	.16	.13	.11	.10
43 D 5297	6S33	.033	3/4x25/32x13/32"	.27	.20	.16	.13	.12
43 D 5298	6S47	.047	3/4x7/8x15/32"	.30	.23	.18	.15	.13
43 D 5299	6P1	.1	1 1/8x13/16x7/16"	.39	.29	.23	.20	.17

When Ordering, Specify Manufacturer's Type No. and Capacitance

Mylar and Mylar-Paper Capacitors

TYPE MFP SPACE-SAVING FLAT-OVAL "MYLAR" CAPACITORS





Solve tight space problems. Similar to type WMF tubular listed at right, but with flat pressed section for oval configuration. Mylar dielectric with tough yellow outer film wrap, epoxy end seals bonded to wrapper and leads. Moisture and humidity resistant. Copperweld leads, 1½" long. Temperature range, —55°C to +85°C at full rated voltage. Derate 10% for 100°C, 50% for 125°C operation. All units listed have tolerance of ±10%. Av. wt., 2 oz.

Stock No.	Type MFP-	Mfd	WV DC	Size, In. LxWxT	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4272	1S22	.022	100	5/8x11/32x7/32	.27	.20	.16	.14	.11
43 D 4273	1S33	.033	100	5/8x5/16x3/16	.30	.23	.18	.15	.13
43 D 4274	1S47	.047	100	3/4x5/16x3/16	.30	.23	.18	.15	.13
43 D 4275	1P1	.1	100	7/8x11/32x7/32	.36	.27	.21	.18	.15
43 D 4276	1P22	.22	100	1x15/32x9/32	.42	.32	.25	.21	.18
43 D 4277	1P33	.33	100	1 1/8x1/2x5/16	.45	.34	.26	.23	.19
43 D 4278	1P47	.47	100	1 1/4x17/32x3/8	.51	.38	.30	.26	.21
43 D 4280	1W1	1.0	100	1 1/2x23/32x1/2	.81	.61	.47	.41	.34
43 D 4281	1W1P5	1.5	100	1 3/4x27/32x21/32	1.14	.86	.67	.57	.48
43 D 4282	1W2	2.0	100	1 3/4x1 1/16x27/32	1.38	1.04	.81	.69	.58
43 D 4283	2S22	.022	200	5/8x11/32x7/32	.27	.20	.16	.14	.11
43 D 4284	2S47	.047	200	3/4x3/8x1/4	.30	.23	.18	.15	.13
43 D 4285	2P1	.1	200	7/8x1/2x5/16	.36	.27	.21	.18	.15
43 D 4287	2P22	.22	200	1 1/8x9/16x13/32	.42	.32	.25	.21	.18
43 D 4288	2P47	.47	200	1 1/4x21/32x1/2	.51	.38	.30	.26	.21
43 D 4289	2W1	1.0	200	1 3/4x13/16x5/8	.81	.61	.47	.41	.34
43 D 4290	2W1P5	1.5	200	1 3/4x1x25/32	1.14	.86	.67	.57	.48
43 D 4291	2W2	2.0	200	1 7/8x1 1/16x27/32	1.38	1.03	.81	.69	.58
43 D 4292	4S22	.022	400	3/4x3/8x1/4	.30	.23	.18	.15	.13
43 D 4293	4S47	.047	400	7/8x1/2x11/32	.33	.25	.19	.17	.14
42 D 4295	4P1	.1	400	1x17/32x3/8	.36	.27	.21	.18	.15
43 D 4296	4P22	.22	400	1 3/8x5/8x1/2	.42	.32	.25	.21	.18
43 D 4297	4P47	.47	400	1 5/8x25/32x19/32	.75	.56	.44	.38	.31
43 D 4309	4W1	1.0	400	2x15/16x3/4	1.11	.83	.65	.56	.46
43 D 4310	4W1P5	1.5	400	2 1/4x1 1/16x27/32	1.41	1.06	.82	.71	.59
43 D 4311	4W2	2.0	400	2 1/4x1 5/16x1 1/8	1.83	1.37	1.07	.92	.76

PKM "BLACK CAT" KRAFT-"MYLAR" CAPACITORS

Combine Mylar and Kraft Dielectrics. Extremely moisture resistant. Molded plastic cases. Note: 400 WVDC units are identical in price and size to 200 WVDC units. —55°C to +125°C. Tolerance. ±10%. Av. 3 oz.

Equivalent Type Available—See Page 165.

400 WVDC

Stock No.	Type PKM-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4209	4D47	.0047	5/16x1"	.21	.16	.11	.09	.08
43 D 4204	4D5	.005	5/16x1"	.21	.16	.11	.09	.08
43 D 4210	4S1	.01	5/16x1"	.21	.16	.11	.09	.08
43 D 4207	4S25	.025	3/8x1 1/4"	.21	.16	.11	.09	.08
43 D 4214	4S47	.047	7/16x1 1/4"	.21	.16	.11	.09	.08
43 D 4221	4S5	.05	7/16x1 1/4"	.21	.16	.11	.09	.08
43 D 4216	4P1	.1	1/2x1 1/2"	.21	.16	.12	.10	.09
43 D 4218	4P22	.22	5/8x1 7/8"	.27	.21	.18	.14	.12
43 D 4220	4P47	.47	11/16x1 15/16"	.45	.35	.31	.25	.18
43 D 4231	4P5	.5	11/16x1 15/16"	.48	.39	.34	.32	.24
43 D 4222	4W1	1.0	1x2 1/8"	.75	.60	.52	.48	.36

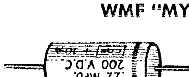
600 WVDC

Stock No.	Type PKM-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4224	6D22	.0022	5/16x1"	.21	.15	.11	.09	.08
43 D 4242	6D5	.005	3/8x1 1/4"	.21	.15	.11	.09	.08
43 D 4226	6S1	.01	3/8x1 1/4"	.21	.15	.11	.09	.08
43 D 4228	6S22	.022	3/8x1 1/4"	.35	.15	.11	.09	.08
43 D 4230	6S47	.047	1/2x1 1/2"	.24	.15	.12	.10	.09
43 D 4243	6S5	.05	1/2x1 1/2"	.24	.15	.12	.10	.09
43 D 4232	6P1	.1	9/16x1 9/16"	.27	.20	.16	.13	.11
43 D 4235	6P22	.22	11/16x1 15/16"	.42	.33	.29	.24	.17
43 D 4239	6P47	.47	1x2 1/8"	.75	.60	.52	.42	.30
43 D 4256	6P5	.5	1x2 1/8"	.78	.63	.55	.44	.32

1600 WVDC

Stock No.	Type PKM-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4252	16D1	.001	3/8x1 1/4"	.39	.30	.24	.19	.15
43 D 4253	16D22	.0022	3/8x1 1/4"	.39	.30	.25	.20	.15
43 D 4255	16D47	.0047	3/8x1 1/4"	.39	.30	.25	.20	.16
43 D 4259	16S1	.01	1/2x1 1/2"	.42	.33	.26	.21	.16
43 D 4262	16S22	.022	5/8x1 7/8"	.42	.33	.29	.23	.19
43 D 4264	16S47	.047	5/8x1 7/8"	.54	.35	.29	.23	.19

WMF "MYLAR" DIELECTRIC TUBULARS



Compact "Mylar" dielectric tubular capacitors encased in "Mylar" film and end-sealed with a high-density thermosetting epoxy. Outstanding features are high resistance to humidity, excellent capacitance stability, wide temperature range and long life. Operating temperature range: —55°C to +125°C. Full rated voltage at 85°C. Derate voltage 10% at 100°C, and 50% at 125°C. Capacitance tolerance, ±10%. Av. shpg. wt., 2 oz.

100 WVDC

Stock No.	Type WMF-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 6975	1D1	.001	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6976	1D15	.0015	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6977	1D22	.0022	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6978	1D33	.0033	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6979	1D47	.0047	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6980	1D68	.0068	11/64x1/2"	.21	.15	.12	.10	.09
43 D 6981	1S1	.01	13/64x1/2"	.21	.15	.12	.10	.09
43 D 6982	1S15	.015	15/64x1/2"	.21	.15	.12	.10	.09
43 D 6983	1S22	.022	9/32x5/8"	.24	.16	.13	.11	.09
43 D 6984	1S33	.033	19/64x5/8"	.24	.16	.13	.11	.10
43 D 6985	1S47	.047	17/64x3/4"	.27	.18	.14	.12	.10
43 D 6986	1S68	.068	9/32x3/4"	.27	.18	.14	.12	.10
43 D 6987	1P1	.1	19/64x7/8"	.36	.23	.18	.13	.11
43 D 6988	1P15	.15	31/64x7/8"	.36	.23	.18	.13	.11
43 D 6989	1P22	.22	25/64x1"	.39	.26	.20	.14	12
43 D 6990	1P33	.33	27/64x1 1/8"	.45	.29	.22	.17	.14
43 D 6991	1P47	.47	15/32x1 1/4"	.47	.30	.24	.20	.17
43 D 6992	1P68	.68	9/16x1 1/4"	.57	.38	.30	.26	.22
43 D 6993	1W1	1.0	5/8x1 1/2"	.87	.56	.44	.38	.32
43 D 6995	1W1P5	1.5	25/32x1 3/4"	1.23	.81	.63	.54	.45
43 D 6996	1W2	2.0	61/64x1 3/4"	1.50	.98	.76	.66	.55

200 WVDC

Stock No.	Type WMF-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 6877	2D1	.001	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6878	2D15	.0015	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6879	2D22	.0022	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6880	2D33	.0033	5/32x1/2"	.21	.15	.12	.10	.09
43 D 6881	2D47	.0047	11/64x1/2"	.21	.15	.12	.10	.09
43 D 6882	2D68	.0068	13/64x1/2"	.21	.15	.12	.10	.09
43 D 6883	2S1	.01	15/64x1/2"	.21	.15	.12	.10	.09
43 D 6884	2S15	.015	19/64x1/2"	.21	.15	.12	.10	.09
43 D 6885	2S22	.022	9/32x5/8"	.24	.16	.13	.11	.10
43 D 6886	2S33	.033	17/64x3/4"	.24	.16	.13	.11	.10
43 D 6887	2S47	.047	21/64x3/4"	.27	.17	.14	.12	.10
43 D 6888	2S68	.068	11/32x3/4"	.27	.18	.14	.12	.10
43 D 6889	2P1	.1	13/32x7/8"	.36	.23	.18	.13	.11
43 D 6890	2P15	.15	1/2x7/8"	.36	.24	.19	.14	.11
43 D 6891	2P22	.22	1/2x1 1/8"	.39	.26	.20	.14	.12
43 D 6892	2P33	.33	35/64x1 1/8"	.45	.29	.22	.17	.14
43 D 6893	2P47	.47	19/32x1 1/4"	.51	.33	.26	.21	.17
43 D 6894	2P68	.68	21/32x1 5/8"	.57	.38	.30	.26	.22
43 D 6895	2W1	1.0	3/4x1 3/4"	.87	.56	.44	.38	.32
43 D 6897	2W1P5	1.5	29/32x1 3/4"	1.23	.81	.63	.54	.45
43 D 6898	2W2	2.0	63/64x1 7/8"	1.50	.98	.76	.66	.55

400 WVDC

Stock No.	Type WMF-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4329	4D1	.001	5/32x5/8"	.27	.18	.14	.13	.10
43 D 4330	4D22	.0022	5/32x5/8"	.27	.18	.14	.13	.10
43 D 4331	4D47	.0047	13/64x58"	.27	.18	.14	.13	.10
43 D 6832	4S1	.01	19/64x5/8"	.27	.18	.14	.13	.10
43 D 6833	4S12	.015	23/64x5/8"	.27	.18	.14	.13	.11
43 D 6834	4S22	.022	5/16x3/4"	.27	.18	.14	.13	.11
43 D 6835	4S33	.033	11/32x7/8"	.27	.18	.14	.13	.11
43 D 6836	4S47	.047	13/32x7/8"	.30	.19	.15	.13	.11
43 D 6837	4S68	.068	25/64x1"	.33	.21	.16	.14	.12
43 D 6838	4P1	.1	15/32x1"	.33	.21	.17	.15	.12
43 D 6839	4P15	.15	33/64x1 1/4"	.36	.23	.18	.16	.13
43 D 6840	4P22	.22	9/16x1 3/8"	.42	.26	.21	.18	.15
43 D 6841	4P33	.33	19/32x1 5/8"	.66	.43	.33	.29	.23
43 D 6842	4P47	.47	45/64x1 5/8"	.78	.51	.39	.34	.29
43 D 6843	4P68	.68	11/64x1 3/4"	.96	.62	.49	.42	.35
43 D 6844	4W1	1.0	7/8x2"	1.20	.78	.60	.52	.44
43 D 6846	4W1P5	1.5	31/32x2 1/4"	1.56	1.01	.80	.68	.57
43 D 6847	4W2	2.0	1 1/4x2 1/4"	2.04	1.33	1.04	.89	.75

600 WVDC

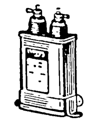
Stock No.	Type WMF-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4312	6D1	.001	11/64x3/4"	.30	.20	.16	.14	.12
43 D 4318	6D22	.0022	3/16x3/4"	.30	.20	.16	.14	.12
43 D 4323	6D47	.0047	15/64x3/4"	.30	.20	.16	.14	.12
43 D 2715	6S1	.01	19/64x3/4"	.30	.20	.16	.14	.12
43 D 2717	6S22	.022	21/64x7/8"	.30	.20	.16	.14	.12
43 D 2719	6S47	.047	27/64x1"	.33	.21	.16	.14	.12
43 D 2721	6P1	.1	33/64x1 3/8"	.42	.28	.22	.19	.16
43 D 2723	6P22	.22	21/32x1 5/8"	.51	.34	.27	.23	.19
43 D 2725	6P47	.47	55/64x2"	1.14	.75	.59	.51	.42
43 D 2727	6W1	1.0	1 11/16x2 1/2"	2.55	1.66	1.29	1.11	.92

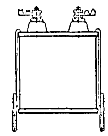
Specify Manufacturer's Type No. and Capacitance on All Orders

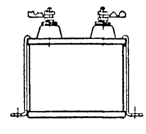
Cornell-Dubilier DC Capacitors

TYPE CP70 CAPACITORS AND BRACKETS

Oil-filled hermetically sealed, paper capacitors designed for power supply, filter applications. Meet MIL-C-25C specifications as shown. Tolerance, ±10%. Terminals have ceramic pillar insulators. Impregnated with specially processed mineral oil. Hermetically sealed metal cases have soldered seams. Operating temperature range, —55°C to +85°C. All capacitors listed are dual-marked with both MIL No. and industrial CDE Type No. Brackets must be ordered with capacitors to obtain prices shown in table at right, below. Order the MIL CPO7F Footed Bracket (sold in pairs) to get equivalent of CDE's capacitor Type TJL; CPO7S (sold in pairs) to get equivalent of CDE's capacitor Type TJH; Type TJU (sold singly) is universal bracket. All listings are Characteristic F, commercial type T-; except *Characteristic E, TCO-. Contact Allied for prices on quantities of 500-999; or on brackets w/o capacitors. 4 oz.


With TJU Bracket

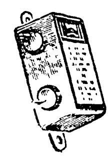

With CP07S (TJH) Bracket


With CP07F (TJL) Bracket

Stock No.	MIL No. CP70E1-	Type T-	Mfd	Size (In.)	EACH 1-9	10-24	25-49	50-99	100-499	Pr. of TJL Brackets Stock No.	MIL CP07F	Pr. of TJH Brackets Stock No.	MIL CP07S	(One) Universal Bracket Stock No.	Type TJU	PER SET
600 WVDC Shpg. wts., 5 oz. to 1½ lbs.										**MOUNTING BRACKETS (With Capacitors Only)**						
43 D 8948	EF105K1*	6010X	1.0	$1\frac{13}{16}x1\frac{1}{16}x2\frac{1}{4}$	3.00	1.50	1.35	1.25	1.15	43 D 8450	A2	43 D 8475	A2	43 D 8967	18402	.16
43 D 8949	FF205K1	6020	2.0	$1\frac{13}{16}x1\frac{1}{16}x2\frac{7}{8}$	3.51	1.76	1.58	1.46	1.35	43 D 8451	A3	43 D 8476	A3	43 D 8967	18402	.16
43 D 8950	FF405K1	6040	4.0	$2\frac{1}{2}x1\frac{3}{16}x3\frac{1}{2}$	4.71	2.36	2.12	1.96	1.81	43 D 8954	B3	43 D 8966	B3	43 D 8971	18403	.16
43 D 8951	FF605K1	6060	6.0	$2\frac{1}{2}x1\frac{3}{16}x4\frac{3}{4}$	5.70	2.85	2.57	2.38	2.19	43 D 8455	B6	43 D 8480	B6	43 D 8971	18403	.16
43 D 8952	FF805K1	6080	8.0	$3\frac{3}{4}x1\frac{1}{4}x3\frac{7}{8}$	6.84	3.42	3.07	2.85	2.62	43 D 8456	C2	43 D 8481	C2	43 D 8972	18404	.16
43 D 8953	FF106K1	6100	10.0	$3\frac{3}{4}x1\frac{1}{4}x4\frac{3}{4}$	7.89	3.95	3.55	3.29	3.20	43 D 8458	C4	43 D 8483	C4	43 D 8972	18404	.16
1000 WVDC Shpg. wts., 5 oz. to 2 lbs.										**CAPACITOR MOUNTING BRACKETS**						
43 D 8973	EG504K1*	10005X	.5	$1\frac{3}{16}x1\frac{1}{16}x2\frac{1}{4}$	3.06	1.53	1.38	1.28	1.17	43 D 8450	A2	43 D 8475	A2	43 D 8967	18402	.16
43 D 8974	FG105K1	10010	1.0	$1\frac{3}{16}x1\frac{1}{16}x2\frac{1}{4}$	3.30	1.65	1.49	1.38	1.27	43 D 8450	A2	43 D 8475	A2	43 D 8967	18402	.16
43 D 8975	FG205K1	10020	2.0	$1\frac{13}{16}x1\frac{1}{16}x3\frac{7}{8}$	4.20	2.01	1.81	1.68	1.54	43 D 9051	A5	43 D 9054	A5	43 D 8967	18402	.16
43 D 8977	FG405K1	10040	4.0	$2\frac{1}{2}x1\frac{3}{16}x4\frac{3}{4}$	5.28	2.64	2.38	2.20	2.02	43 D 8455	B6	43 D 8480	B6	43 D 8971	18403	.16
43 D 8978	FG805K1	10080X	8.0	$3\frac{3}{4}x1\frac{3}{4}x3\frac{7}{8}$	7.83	3.92	3.52	3.26	3.00	43 D 8459	D2	43 D 8484	D2	43 D 9057	18405	.27
43 D 8979	FG106K1	10100	10.0	$3\frac{3}{4}x1\frac{3}{4}x4\frac{3}{4}$	9.15	4.58	4.12	3.81	3.51	43 D 8440	D5	43 D 8487	D5	43 D 9057	18405	.27
43 D 8980	FG126K1	10120X	12.0	$3\frac{3}{4}x2\frac{1}{4}x4\frac{1}{2}$	10.68	5.34	4.81	4.45	4.09	43 D 8462	E4	43 D 8488	E4	43 D 9058	18406	.27
43 D 8981	FG156K1	10150	15.0	$3\frac{3}{4}x2\frac{1}{2}x4\frac{3}{4}$	12.90	6.45	5.81	5.38	4.95	43 D 9053	F1	43 D 9056	F1	43 D 9059	18407	.58
2000 WVDC (†2500 WVDC) Shpg. wts., 8 oz. to 6 lbs.										**CAPACITOR MOUNTING BRACKETS**						
43 D 8982	EK104K1*†	25001X	.1	$2\frac{1}{2}x1\frac{3}{16}x2\frac{1}{2}$	6.03	3.02	2.71	2.51	2.31	43 D 9847	B1	43 D 9856	B1	43 D 8971	18403	.16
43 D 8983	EJ504K1*	20005X	.5	$2\frac{1}{2}x1\frac{3}{16}x2\frac{7}{8}$	4.89	2.45	2.20	2.04	1.87	43 D 9843	B2	43 D 9851	B2	43 D 8971	18403	.16
43 D 8984	FJ105K1	20010X	1.0	$2\frac{1}{2}x1\frac{3}{16}x3\frac{1}{2}$	5.85	2.93	2.63	2.44	2.24	43 D 8954	B3	43 D 8966	B3	43 D 8971	18403	.16
43 D 8985	FJ205K1	20020X	2.0	$3\frac{3}{4}x1\frac{1}{4}x4\frac{1}{4}$	7.44	3.72	3.35	3.10	2.85	43 D 8457	C3	43 D 8482	C3	43 D 8972	18404	.16
43 D 8986	FJ405K1	20040	4.0	$3\frac{3}{4}x2\frac{1}{4}x3\frac{7}{8}$	10.44	5.22	4.70	4.35	4.00	43 D 9844	E3	43 D 9852	E3	43 D 9058	18406	.27
43 D 8987	FJ805K1	20080X	8.0	$3\frac{3}{4}x3\frac{3}{16}x5\frac{1}{8}$	15.93	7.97	7.17	6.64	6.11	43 D 9845	G3	43 D 9854	G3	43 D 9060	18408	.58
43 D 8988	FJ106K1	20100	10.0	$4\frac{9}{16}x3\frac{3}{4}x4\frac{3}{4}$	18.84	9.42	8.48	7.85	7.22	43 D 8469	J3	43 D 8495	J3	43 D 9061	18409	.58
43 D 8989	FJ126K1	20120	12.0	$4\frac{9}{16}x3\frac{3}{4}x5\frac{1}{2}$	21.93	10.97	9.87	9.14	8.41	43 D 9846	J5	43 D 9855	J5	43 D 9061	18409	.58
3000 WVDC Shpg. wts., 8 oz. to 5 lbs.										**CAPACITOR MOUNTING BRACKETS**						
43 D 8990	FL104K1	30001X	.1	$2\frac{1}{2}x1\frac{3}{16}x2\frac{1}{2}$	8.40	4.20	3.78	3.50	3.22	43 D 9847	B1	43 D 9856	B1	43 D 8971	18403	.16
43 D 8991	FL254K1	300025X	.25	$2\frac{1}{2}x1\frac{3}{16}x2\frac{7}{8}$	9.36	4.68	4.21	3.90	3.59	43 D 9843	B2	43 D 9858	B2	43 D 8971	18403	.16
43 D 8992	FL504K1	30005X	.5	$2\frac{1}{2}x1\frac{3}{16}x4\frac{1}{4}$	10.05	5.03	4.52	4.19	3.85	43 D 9848	B5	43 D 9859	B5	43 D 8971	18403	.16
43 D 8993	FL105K1	30010	1.0	$3\frac{3}{4}x2\frac{1}{4}x3\frac{7}{8}$	11.97	5.99	5.39	4.99	4.59	43 D 9844	E3	43 D 9852	E3	43 D 9058	18406	.27
43 D 8994	FL205K1	30020X	2.0	$3\frac{3}{4}x3\frac{3}{16}x4\frac{1}{2}$	15.48	7.74	6.97	6.45	5.93	43 D 9849	G1	43 D 9860	G1	43 D 9060	18408	.58
43 D 8995	FL405K1	30040	4.0	$4\frac{9}{16}x3\frac{3}{4}x4\frac{3}{4}$	21.57	10.79	9.71	8.99	8.27	43 D 8469	J3	43 D 8495	J3	43 D 9061	18409	.58
4000 WVDC Shpg. wts.. 4 lbs. to 8½ lbs.										**CAPACITOR MOUNTING BRACKETS**						
43 D 8996	FM105K1	40010	1.0	$3\frac{3}{4}x2\frac{1}{4}x5\frac{1}{8}$	13.92	6.96	6.26	5.80	5.34	43 D 8464	E6	43 D 8490	E6	43 D 9058	18406	.27
43 D 8997	FM205K1	40020	2.0	$4\frac{9}{16}x3\frac{3}{4}x5\frac{1}{8}$	18.63	9.32	8.28	7.76	7.14	43 D 8470	J4	43 D 8496	J4	43 D 9061	18409	.58
43 D 8998	FM405K1	40040X	4.0	$4\frac{9}{16}x3\frac{3}{4}x8\frac{1}{2}$	39.06	19.53	17.58	16.28	14.97	43 D 9850	J10	43 D 9861	J10	43 D 9061	18409	.58

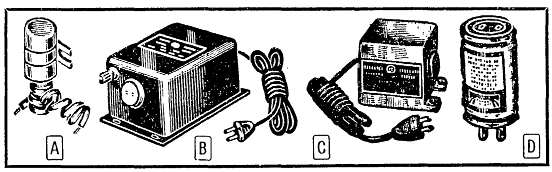
TYPE DYR PAPER-OIL "BATH-TUB" CAPACITORS

Designed for aircraft, submarine, marine and tropical applications or wherever components must operate under severe heat and humidity conditions. Feature extremely rugged "bathtub" type metal shells; solder terminals. Capacity tolerance: single sections, ±10%; others +20%, —10%. All capacitors are rated at 600 WVDC, except *1000 volts. Satisfy MIL-C-25A performance and test requirements. Similar to JAN CP53. Dual section units have common case. Operating temperature range: from —55°C to +85°C. Av. shpg. wt., 5 oz.



Stock No.	Type DYR-	Mfd	Size (In.)	EACH 1-9	10-24	25-49	50-99	100-499
43 D 4621	6010	.1	$1\frac{13}{16}x1x\frac{3}{4}$	1.80	1.20	1.05	.75	.69
43 D 4622	6025	.25	$1\frac{13}{16}x1x\frac{3}{4}$	1.83	1.22	1.07	.76	.70
43 D 4623	6050	.5	$1\frac{13}{16}x1x\frac{7}{8}$	1.92	1.28	1.12	.80	.74
43 D 4624	6100	1.0	$2x1\frac{3}{4}x\frac{7}{8}$	2.19	1.46	1.28	.91	.84
43 D 4625	6200	2.0	$2x2x1\frac{1}{8}$	2.91	1.94	1.70	1.21	1.12
43 D 4626	60055	.05-.05	$1\frac{13}{16}x1x\frac{3}{4}$	2.28	1.52	1.33	.95	.87
43 D 4627	6011J	.1-.1	$1\frac{13}{16}x1x\frac{3}{4}$	2.34	1.56	1.37	.98	.90
43 D 4628	6022	.25-.25	$1\frac{13}{16}x1x\frac{7}{8}$	2.40	1.60	1.40	1.00	.92
43 D 4629	6055	.5-.5	$2x1\frac{3}{4}x\frac{7}{8}$	2.76	1.84	1.61	1.15	1.06
43 D 4630	6110	1.0-1.0	$2x2x1\frac{1}{8}$	3.39	2.26	1.98	1.41	1.30
43 D 4631	6111	.1-.1-.1	$1\frac{13}{16}x1x\frac{3}{4}$	2.67	1.78	1.56	1.11	1.02
43 D 4602	10005*	.05	$1\frac{13}{16}x1x\frac{3}{4}$	1.74	1.16	1.22	.73	.67
43 D 4603	10010*	.1	$1\frac{13}{16}x1x\frac{3}{4}$	1.83	1.22	1.07	.76	.70
43 D 4615	10025*	.25	$1\frac{13}{16}x1x\frac{3}{4}$	1.89	1.26	1.10	.79	.72
43 D 4616	10050*	.5	$2x1\frac{3}{4}x\frac{13}{16}$	1.95	1.30	1.14	.81	.75
43 D 4604	10100*	1.0	$2x2x1\frac{1}{8}$	2.73	1.82	1.59	1.14	1.05
43 D 4605	10011	.1-.1	$1\frac{3}{16}x1x\frac{7}{8}$	2.46	1.64	1.44	1.03	.94
43 D 4606	10022	.25-.25	$2x1\frac{3}{4}x\frac{7}{8}$	2.70	1.80	1.58	1.13	1.04
43 D 4607	10055	.5-.5	$2x2x1\frac{1}{8}$	3.54	2.36	2.07	1.48	1.36

RADIO-TV INTERFERENCE FILTERS



[A] Type IF-24. Industrial filter for permanent installation directly at equipment causing interference. Flex-leads and metal housing, mtg. lug. For 110-120 v., AC/DC. Shpg. wt., 6 oz.
43 D 3566 .... 1.14

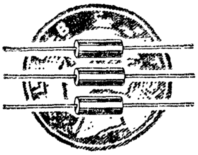
[B] Type IF-18. All-wave capacitive-inductive filter for severe interference caused by air conditioners, machine tools, etc. Bakelite case, $6x3\frac{3}{4}x2\frac{1}{2}$". With line cord, plug. Binding post for ground wire. 5 amps. For 115 v., AC/DC. Shpg. wt., 4 lbs.
43 D 3564 .... 6.60

[C] Type IF-19. Capacitive-inductive for severe interference caused by fans, diathermy machines, neon signs, etc. Mtg. holes. Ground term. 5 amps. 115 v., AC/DC. $4x2\frac{1}{4}x2\frac{7}{8}$". Wt., 3 lbs.
43 D 3565 .... 5.55

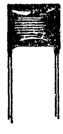
[D] Type IF-4. Plug-in, cylindrical type for medium interference produced by fluorescent lights, electric shavers, similar devices. Filter plugs into wall; appliance plugs into filter. 5 amps. 110 v., AC/DC. $1\frac{3}{8}x2$". Shpg. wt., 5 oz.
43 D 3568 .... .90

[D] Type IF-6. Similar to above, but has ground terminal. Connects between power line and appliance, or power line and receiver. 5 amps. 110 v., AC/DC. $1\frac{3}{8}x2$". Shpg. wt., 6 oz.
43 D 3569 .... 1.41

Ceramic and Metallized Capacitors



"Deci-Caps"



"Hy-Caps"

NYTRONICS CERAMIC CAPACITORS

"DECI-CAPS." Ultra-miniature ceramic capacitors. All in .250 x .100" dia. rugged epoxy molded envelope (¼-watt resistor size). Standardized size permits high-density cordwood packaging. Feature high stability—less than 7½% capacitance change over −55°C to +125°C operating range. ±10% tol. Meet MIL-C-11015.

"HY-CAPS". New solid state ceramic capacitors. Extremely stable—offer less than ±12% capacitance change from −55°C to +125°C. Have ±20% tolerance. Rated 100 WVDC with no derating to 125°C. Dissipation factors: less than 2½% at 25°C. With #26 AWG tinned copper leads. Meet MIL-C-11015 requirements.

"DECI-CAPS" ULTRA-MINIATURE CERAMIC CAPACITORS (Av. shpg. wt., 1 oz.)

Stock No.	Mfr's Type	Mmf.	WV DC	EACH 1-24	25-49	50-99	100-249	250-499
43 D 8026	DC-056K	5.6	200	.51	.41	.36	.32	.30
43 D 8027	DC-068K	6.8	200	.51	.41	.36	.32	.30
43 D 8028	DC-082K	8.2	200	.51	.41	.36	.32	.30
43 D 8029	DC-100K	10	200	.51	.41	.36	.32	.30
43 D 8030	DC-120K	12	200	.51	.41	.36	.32	.30
43 D 8031	DC-150K	15	200	.51	.41	.36	.32	.30
43 D 8032	DC-180K	18	200	.51	.41	.36	.32	.30
43 D 8033	DC-220K	22	200	.51	.41	.36	.32	.30
43 D 8034	DC-270K	27	200	.51	.41	.36	.32	.30
43 D 8035	DC-330K	33	200	.51	.41	.36	.32	.30
43 D 8036	DC-390K	39	200	.51	.41	.36	.32	.30
43 D 8037	DC-470K	47	200	.51	.41	.36	.32	.30
43 D 8038	DC-560K	56	200	.51	.41	.36	.32	.30
43 D 8039	DC-680K	68	200	.51	.41	.36	.32	.30
43 D 8040	DC-820K	82	200	.51	.41	.36	.32	.30
43 D 8041	DC-101K	100	200	.51	.41	.36	.32	.30
43 D 8042	DC-121K	120	200	.51	.41	.36	.32	.30
43 D 8043	DC-151K	150	200	.51	.41	.36	.32	.30
43 D 8044	DC-181K	180	200	.51	.41	.36	.32	.30
43 D 8045	DC-221K	220	200	.51	.41	.36	.32	.30
43 D 8046	DC-271K	270	200	.51	.41	.36	.32	.30
43 D 8047	DC-331K	330	200	.51	.41	.36	.32	.30
43 D 8048	DC-391K	390	200	.51	.41	.36	.32	.30

Stock No.	Mfr's Type	Mmf.	WV DC	EACH 1-24	25-49	50-99	100-249	250-499
43 D 8049	DC-471K	470	200	.53	.43	.37	.34	.31
43 D 8050	DC-561K	560	100	.53	.43	.37	.34	.31
43 D 8051	DC-681K	680	100	.53	.43	.37	.34	.31
43 D 8052	DC-821K	820	100	.53	.43	.37	.34	.31
43 D 8053	DC-102K	1000	100	.56	.45	.39	.36	.33
43 D 8054	DC-122K	1200	100	1.30	1.04	.90	.82	.76
43 D 8055	DC-152K	1500	100	1.32	1.05	.92	.84	.77
43 D 8056	DC-182K	1800	100	1.47	1.18	1.02	.93	.86
43 D 8057	DC-222K	2200	100	1.48	1.19	1.03	.94	.87
43 D 8058	DC-272K	2700	100	1.64	1.31	1.14	1.04	.96
43 D 8059	DC-332K	3300	100	1.72	1.38	1.20	1.09	1.01
43 D 8060	DC-392K	3900	100	1.80	1.44	1.25	1.14	1.06
43 D 8061	DC-472K	4700	100	1.86	1.49	1.29	1.18	1.09
43 D 8062	DC-562K	5600	100	2.10	1.68	1.46	1.33	1.23
43 D 8063	DC-682K	6800	100	2.32	1.85	1.61	1.47	1.36
43 D 8064	DC-822K	8200	100	2.53	2.03	1.76	1.60	1.48
43 D 8065	DC-103K	10,000	100	2.75	2.20	1.91	1.74	1.61
43 D 8066	DC-123K	12,000	100	2.91	2.33	2.02	1.84	1.70
43 D 8067	DC-153K	15,000	100	3.18	2.54	2.21	2.01	1.86
43 D 8068	DC-183K	18,000	100	3.18	2.54	2.21	2.01	1.86
43 D 8069	DC-223K	22,000	100	3.25	2.61	2.36	2.06	1.90
43 D 8070	DC-273K	27,000	100	3.64	2.91	2.53	2.30	2.13

"HY-CAPS" SOLID-STATE CERAMIC CAPACITORS (Av. shpg. wt., 2 oz.)

Stock No.	Type HC-	Mfd.	SIZE (HWD)	EACH 1-24	25-49	50-99	100-249	250-499
43 D 8071	A-103-M	.01	.175x 225x.110"	1.39	1.12	.97	.88	.82
43 D 8072	A-123-M	.012	.175x.225x.110"	1.57	1.26	1.09	.99	.92
43 D 8073	A-153-M	.015	.175x.225x.110"	1.73	1.38	1.20	1.09	1.01
43 D 8074	A-183-M	.018	.175x.225x.110"	1.86	1.49	1.30	1.18	1.09
43 D 8075	A-223-M	.022	.175x.225x.110"	2.11	1.69	1.47	1.33	1.23
43 D 8076	A-273-M	.027	.175x.225x.110"	2.52	2.01	1.75	1.59	1.47
43 D 8077	A-333-M	.033	.175x.225x.110"	2.83	2.27	1.97	1.79	1.66
43 D 8078	B-393-M	.039	.310x.325x.150"	3.21	2.57	2.24	2.03	1.88
43 D 8079	B-473-M	.047	.310x.325x.150"	3.39	2.71	2.36	2.15	1.99
43 D 8080	B-563-M	.056	.310x.325x.150"	3.55	2.84	2.47	2.25	2.08
43 D 8082	B-683-M	.068	.310x.325x.150"	3.91	3.13	2.72	2.47	2.29

Stock No.	Type HC-	Mfd.	Size (HWD)	EACH 1-24	25-49	50-99	100-249	250-499
43 D 8083	B-823-M	.082	.310x.325x.150"	4.15	3.33	2.89	2.63	2.44
43 D 8084	B-104-M	.100	.310x.325x.150"	4.38	3.50	3.05	2.77	2.57
43 D 8085	C-124-M	.12	.310x.325x.150"	4.40	3.52	3.06	2.79	2.58
43 D 8086	C-154-M	.15	.355x.670x.150"	4.49	3.60	3.12	2.84	2.63
43 D 8087	C-184-M	.18	.355x.670x.150"	4.72	3.77	3.28	2.98	2.76
43 D 8089	C-224-M	.22	.355x.670x.150"	4.94	3.95	3.44	3.13	2.90
43 D 8090	C-274-M	.27	.355x.670x.150"	5.21	4.17	3.62	3.30	3.05
43 D 8091	C-334-M	.33	.355x.670x.150"	5.91	4.41	3.84	3.49	3.23
43 D 8092	C-394-M	.39	.355x.670x.150"	5.93	4.74	4.12	3.75	3.47
43 D 8093	C-474-M	.47	.355x.670x.150"	6.40	5.12	4.45	4.05	3.75

CORNELL-DUBILIER METALLIZED CAPACITORS

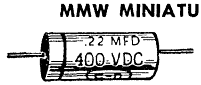
MPY 125°C METALLIZED PAPER

Lightweight, space-saving units for high-grade equipment. Feature superior moisture resistance, a wide temperature range, high insulation resistance, no derating, and self-healing properties of metallized dielectric capacitors. Resin impregnated Triclad tube with resin end-fill is wax-free for clean-handling; virtually unaffected by hot irons. Range, −55°C to +125°C. Tolerance. ±20%. Av. shpg. wt., 3 oz.

Equivalent Types Available—See Pages 167, 168

Stock No.	Mfr's Type MPY-	Mfd	WV DC	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4470	2S22	.022	200	¼x⅝"	.45	.34	.26	.21	.18
43 D 4402	2S47	.047	200	¼x⅝"	.45	.34	.26	.21	.18
43 D 4485	2P1	.1	200	⅜x⅝"	.54	.38	.30	.24	.20
43 D 4486	2P22	.22	200	15/32x⅝"	.66	.47	.37	.29	.25
43 D 4403	2P47	.47	200	7/16x1⅛"	.78	.56	.44	.35	.30
43 D 4488	2W1	1.0	200	9/16x1⅛"	1.08	.81	.63	.50	.43
43 D 4404	2W2	2.0	200	⅝x17/16"	1.50	1.10	.86	.69	.59
43 D 4474	2S22	.022	400	3/16x⅝"	.45	.34	.26	.21	.18
43 D 4469	4P1	.1	400	⅜x1⅛"	.60	.43	.33	.27	.23
43 D 4492	4P22	.22	400	½x1⅛"	.72	.54	.42	.34	.29
43 D 4494	4W1	1.0	400	11/16x113/16"	1.32	.99	.77	.62	.53
43 D 4407	4W2	2.0	400	13/16x2⅜"	1.74	1.31	1.01	.81	.70
43 D 4495	6S1	.01	600	¼x⅝"	.45	.34	.26	.21	.18
43 D 4478	6S22	.022	600	⅜x⅝"	.48	.36	.28	.22	.19
43 D 4408	6S47	.047	600	15/32x⅝"	.54	.41	.32	.25	.22
43 D 4496	6P1	.1	600	⅜x1⅛"	.60	.45	.35	.28	.24
43 D 4497	6P22	.22	600	9/16x1⅛"	.81	.61	.47	.38	.32
43 D 4409	6P47	.47	600	⅝x17/16"	1.14	.86	.67	.53	.46
43 D 4499	6W1	1.0	600	23/32x113/16"	1.44	1.08	.84	.67	.58
43 D 4410	6W2	2.0	600	29/32x2⅜"	2.10	1.58	1.23	.98	.84

MMW MINIATURE METALLIZED FILM TUBULARS



Ideal for transistorized circuits—can be used in conventional manner or imbedded in sub-assemblies. Constructed of metallized polyester film dielectric, tightly wound and encased in poly-film tape wrap; and sealed with high-density thermosetting resin. Resistant to humidity and moisture. Operating temperature range, −55°C to +85°C. Tolerance, ±10%. Av. shpg. wt., 3 oz.

Write for prices on quantities of 1000 and up.

200 WVDC

Stock No.	Mfr's Type MMW-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4411	2S33	.033	.180x9/16"	.69	.52	.40	.32	.28
43 D 4412	2S47	.047	.200x9/16"	.69	.52	.40	.32	.28
43 D 4413	2P1	.1	.240x11/16"	.75	.56	.44	.35	.30
43 D 4414	2P22	.22	.340x11/16"	.90	.68	.53	.42	.36
43 D 4415	2P33	.33	.390x11/16"	1.02	.77	.60	.48	.41
43 D 4416	2P47	.47	.370x1"	1.05	.79	.61	.49	.42
43 D 4417	2W1	1.0	.500x1"	1.35	1.01	.79	.63	.54
43 D 4418	2W2	2.0	.620x1¼"	1.95	1.46	1.14	.91	.78

400 WVDC

Stock No.	Mfr's Type MMW-	Mfd	Size	EACH 1-24	25-49	50-99	100-499	500-999
43 D 4419	4S1	.01	.180x9/16"	.66	.50	.39	.31	.26
43 D 4420	4S22	.022	.210x11/16"	.69	.52	.40	.32	.28
43 D 4422	4S47	.047	.300x11/16"	.75	.56	.44	.35	.30
43 D 4423	4P1	.1	.325x1"	.84	.63	.49	.39	.34
43 D 4424	4P22	.22	.400x1¼"	1.02	.77	.60	.48	.41
43 D 4426	4P47	.47	.520x1½"	1.35	1.01	.79	.63	.54
43 D 4427	4W1	1.0	.675x1¾"	2.04	1.53	1.19	.95	.82

Specify Manufacturer's Type No. and Capacitance on Capacitor Orders

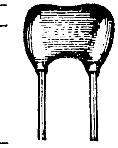
MIL-C-5C Dipped Silver Mica Capacitors

Meet MIL-C-5C. Temperature: −55 to +125°C without derating. Tolerance, ±5% or 0.5 mmf, whichever is greater, except micro-miniature types CD6 (minimum tolerance ±1 mmf) and CD7 (minimum tolerance ±0.5 mmf) which have ±2% tolerance. 500 WVDC, except *300 WVDC, †100 WVDC. Have 1¼" tinned brass wire leads, except CD10 which has copperweld leads. All units meet 10-2000 cps vibration tests.

If you require Military Types CM05, CM06, CM07, or CM08, order the identical Industrial Types CD15, CD19, CD30, or CD42 as the units are dual marked with both Type Numbers. (See size chart at right.)

SIZE CHART

Mfr's Type	Size (HxWxD)
CD6	.265x.135x.095"
CD7	.265x.220x.095" to .320x.270x.160"
CD10	.360x.330x.190" to .390x.380x.220"
CD15/CM05	.450x.360x.170" to .470x.400x.220"
CD19/CM06	.640x.510x.200" to .700x.580x.350"
CD30/CM07	.780x.860x.280" to .830x.920x.450"
CD42/CM08	1.420x.880x.310" to 1.470x.910x.450"



INDUSTRIAL TYPES CD6, CD7, CD10

Stock No.	Mfr's Type	Mmf	EACH 1-24	25-99	100-499	500-999
43 D 8200	CD6C030M500	3	.36	.21	.14	.096
43 D 8201	CD6C050M500	5	.36	.21	.14	.096
43 D 8202	CD6C100J500	10	.39	.22	.15	.105
43 D 8203	CD6C120J500	12	.39	.22	.15	.105
43 D 8204	CD6C180J500	18	.39	.22	.15	.105
43 D 8205	CD6C200J500	20	.39	.22	.15	.105
43 D 8206	CD6C220J500	22	.39	.22	.15	.105
43 D 8207	CD6C240J5C0	24	.39	.22	.15	.15
43 D 8215	CD6C270G500	27	.48	.27	.23	.159
43 D 8216	CD6C300G500	30	.48	.27	.23	.159
43 D 8217	CD6C330G500	33	.51	.28	.24	.169
43 D 8218	CD6C360G500	36	.51	.28	.24	.169
43 D 8229	CD6C390G5C0	39	.51	.28	.24	.169
43 D 8231	CD6C430G500	43	.51	.28	.24	.169
43 D 8232	CD6C470G500	47	.51	.28	.24	.169
43 D 8233	CD6C510G500	51	.57	.32	.27	.190
43 D 8234	CD6C560G500	56	.57	.32	.27	.190
43 D 8235	CD6C620G500	62	.57	.32	.27	.190
43 D 8236	CD6C680G500	68	.60	.34	.30	.209
43 D 8237	CD6C750G500	75	.60	.34	.30	.209
43 D 8238	CD6F820G300*	82	.66	.37	.32	.223
43 D 8239	CD6F910G300*	91	.66	.37	.32	.223
43 D 8240	CD6F101G300*	100	.66	.37	.32	.223
43 D 8241	CD6F111G300*	110	.72	.40	.35	.243
43 D 8242	CD6F121G300*	120	.72	.40	.35	.243
43 D 8243	CD7F131G500	130	.63	.36	.32	.225
43 D 8244	CD7F151G500	150	.63	.36	.32	.225
43 D 8245	CD7F161G500	160	.63	.36	.32	.225
43 D 8246	CD7F181G500	180	.69	.38	.34	.239
43 D 8247	CD7F201G300*	200	.69	.38	.34	.239
43 D 8248	CD7F221G300*	220	.63	.36	.21	.148
43 D 8249	CD7F241G300*	240	.69	.38	.34	.239
43 D 8250	CD7F271G300*	270	.69	.38	.36	.249
43 D 8251	CD7F301G300*	300	.69	.40	.36	.249
43 D 8252	CD7F331G100†	330	1.05	.59	.53	.368
43 D 8253	CD7F361G100†	360	1.08	.60	.55	.38
43 D 8254	CD7F391G100†	390	1.29	.73	.66	.458
43 D 8255	CD7F431G100†	430	1.14	.65	.59	.406
43 D 8256	CD7F471G100†	470	1.17	.83	.75	.416
43 D 8257	CD7F511G100†	510	1.20	.68	.62	.428
43 D 8258	CD7F561G100†	560	1.23	.69	.63	.438
43 D 8259	CD7F621G100†	620	1.29	.72	.66	.455
43 D 8260	CD7F681G100†	680	1.65	.93	.84	.518
43 D 8261	CD7F751G100†	750	1.74	.98	.88	.613
43 D 8262	CD7F821G100†	820	1.80	1.01	.91	.639
43 D 8263	CD7F911G100†	910	1.89	1.06	.96	.669
43 D 8264	CD7F102G100†	1000	2.13	1.19	1.08	.750
43 D 8265	CD7F112G100†	1100	2.31	1.29	1.18	.810
43 D 8266	CD7F122G100†	1200	2.37	1.32	1.20	.831
43 D 8267	CD7F132G100†	1300	2.70	1.50	1.36	.948
43 D 8268	CD7F152G100†	1500	2.82	1.57	1.43	.990
43 D 2729	CD10C050K	5	.18	.13	.12	.092
43 D 2730	CD10C100J	10	.21	.14	.13	.099
43 D 2731	CD10C120J	12	.24	.14	.13	.099
43 D 2732	CD10C150J	15	.24	.14	.13	.099
43 D 2733	CD10C180J	18	.24	.14	.13	.099
43 D 2734	CD10C220J	22	.24	.14	.13	.099
43 D 2735	CD10E240J	24	.24	.14	.13	.099
43 D 2736	CD10E270J	27	.24	.14	.13	.099
43 D 2737	CD10E3C0J	30	.24	.14	.13	.099
43 D 2738	CD10E330J	33	.24	.14	.13	.099
43 D 2739	CD10E390J	39	.24	.14	.13	.099
43 D 2740	CD10E470J	47	.27	.14	.13	.099
43 D 2741	CD10F510J	51	.27	.14	.13	.099
43 D 2742	CD10F560J	56	.27	.14	.13	.099
43 D 2743	CD10F620J	62	.27	.14	.13	.099
43 D 2744	CD10F680J	68	.27	.14	.11	.099
43 D 2745	CD10F820J	82	.27	.14	.11	.099
43 D 2746	CD10F101J	100	.27	.14	.11	.099
43 D 2747	CD10F121J	120	.30	.23	.14	.099
43 D 2748	CD10F151J	150	.33	.27	.16	.112
43 D 2749	CD10F181J	180	.39	.31	.18	.127
43 D 2758	CD10F201J	200	.45	.32	.20	.148
43 D 2759	CD10F221J	220	.45	.32	.20	.148
43 D 2760	CD10F241J	240	.45	.32	.20	.148
43 D 2764	CD10F251J	250	.45	.33	.20	.153
43 D 4651	CD15C050K	5	.15	.12	.098	.074

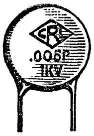
CD15/CM05, CD19/CM06, CD30/CM07, CD42/CM08

Stock No.	Mfr's Type	Mmf	EACH 1-24	25-99	100-499	500-999
43 D 4652	CD15C100K	10	.15	.12	.098	.074
43 D 4653	CD15C120K	12	.15	.12	.098	.074
43 D 4654	CD15C180K	18	.15	.12	.098	.074
43 D 4655	CD15E220J	22	.18	.15	.109	.083
43 D 4656	CD15E240J	24	.18	.15	.109	.083
43 D 4657	CD15E270J	27	.18	.15	.109	.083
43 D 4658	CD15E300J	30	.18	.15	.119	.083
43 D 4659	CD15E330J	33	.18	.15	.109	.083
43 D 4660	CD15E360J	36	.18	.15	.109	.083
43 D 4661	CD15E390J	39	.18	.15	.109	.083
43 D 4662	CD15E470J	47	.18	.15	.109	.083
43 D 4663	CD15E510J	51	.18	.15	.109	.083
43 D 4664	CD15E560J	56	.18	.15	.109	.083
43 D 4665	CD15E620J	62	.18	.15	.109	.083
43 D 4666	CD15E680J	68	.18	.15	.109	.083
43 D 4667	CD15E750J	75	.18	.15	.109	.083
43 D 4668	CD15E820J	82	.18	.15	.109	.083
43 D 4669	CD15F101J	100	.18	.15	.109	.083
43 D 4670	CD15F121J	120	.21	.17	.127	.097
43 D 4671	CD15F151J	150	.21	.17	.127	.097
43 D 4672	CD15F181J	180	.27	.22	.127	.097
43 D 4673	CD15F201J	200	.27	.22	.127	.097
43 D 4674	CD15F221J	220	.27	.22	.129	.098
43 D 4675	CD15F241J	240	.27	.22	.129	.098
43 D 4676	CD15F271J	270	.30	.25	.145	.111
43 D 4677	CD15F301J	300	.30	.25	.151	.115
43 D 4678	CD15F331J	330	.33	.28	.155	.118
43 D 4608	CD15F361J	360	.33	.28	.158	.120
43 D 4679	CD15F391J	390	.36	.30	.158	.120
43 D 4680	CD19F431J	430	.30	.19	.15	.111
43 D 4681	CD19F471J	470	.33	.21	.16	.122
43 D 4682	CD19F511J	510	.33	.21	.16	.122
43 D 4683	CD19F561J	560	.33	.21	.16	.122
43 D 4684	CD19F621J	620	.36	.23	.18	.136
43 D 4685	CD19F681J	680	.34	.23	.18	.136
43 D 4610	CD19F751J	750	.49	.25	.18	.136
43 D 4686	CD19F821J	820	.32	.27	.18	.136
43 D 4609	CD19F911J	910	.42	.27	.21	.157
43 D 4687	CD19F102J	1000	.45	.29	.22	.168
43 D 4611	CD19F112J	1100	.45	.31	.24	.179
43 D 4688	CD19F122J	1200	.48	.33	.24	.185
43 D 4689	CD19F152J	1500	.54	.39	.29	.221
43 D 4690	CD19F182J	1800	.66	.44	.31	.238
43 D 4691	CD19F202J	2000	.72	.48	.33	.252
43 D 4692	CD19F222J	2200	.78	.51	.35	.266
43 D 4693	CD19F242J	2400	.84	.54	.39	.294
43 D 4694	CD19F272J	2700	.90	.62	.41	.315
43 D 4695	CD19F302J	3000	.99	.69	.44	.336
43 D 4696	CD19F332J	3300	1.05	.74	.48	.364
43 D 4697	CD19F392J	3900	1.17	.86	.55	.420
43 D 4698	CD19F432J	4300	1.23	.93	.59	.451
43 D 2771	CD19F472J	4700	1.32	1.03	.63	.480
43 D 8269	CD30F512J	5100	1.14	.81	.49	.375
43 D 8270	CD30F562J	5600	1.17	.88	.54	.407
43 D 8271	CD30F622J	6200	1.23	.95	.58	.441
43 D 8272	CD30F682J	6800	1.38	1.06	.65	.491
43 D 8273	CD30F752J	7500	1.50	1.13	.69	.524
43 D 8274	CD30F822J	8200	1.65	1.24	.75	.574
43 D 8275	CD30F912J	9100	1.77	1.35	.82	.624
43 D 8276	CD30F103J	10,000	1.98	1.49	.91	.689
43 D 8277	CD30F113J	11,000	2.16	1.59	.97	.741
43 D 8278	CD30F123J	12,000	2.31	1.74	1.06	.805
43 D 8279	CD30F133J	13,000	2.46	1.88	1.15	.874
43 D 8280	CD30F153J	15,000	2.79	2.12	1.30	.986
43 D 8281	CD30F163J	16,000	2.97	2.27	1.39	1.054
43 D 8282	CD30F183J	18,000	3.30	2.52	1.54	1.172
43 D 8283	CD30F203J	20,000	3.63	2.81	1.71	1.303
43 D 8284	CD42F223J	22,000	4.14	3.07	1.879	1.429
43 D 8285	CD42F243J	24,000	4.50	3.35	2.048	1.558
43 D 8293	CD42F273J	27,000	5.04	3.70	2.263	1.722
43 D 8294	CD42F303J	30,000	5.58	4.05	2.477	1.884
43 D 8295	CD42F333J	33,000	6.12	4.40	2.692	2.048
43 D 8296	CD42F363J	36,000	6.66	4.82	2.948	2.243
43 D 8297	CD42F393J	39.000	7.20	5.17	3.161	2.405
43 D 8298	CD42F433J	43,000	7.80	5.66	3.463	2.635
43 D 8299	CD42F473J	47,C00	8.40	6.15	3.463	2.635

Equivalent Silver Mica Capacitors Available—See Page 183

Centralab Ceramic Capacitors

SERIES DD DISC CERAMICS



Recommended for use where high capacity is required and control stability is secondary. Operate for long periods under extreme moisture, vibration, and temperature conditions. *Price code. 1000 WVDC except: DD6-103, DD-153 through DD-503, 600 WVDC. Tolerance: ±10% except †GMV; ‡±20%; §—20%, +80%. Av. shpg. wt., 2 oz.

PRICES FOR DD SERIES

*	EACH			Multiples of 1000 Only	
Code	1-99	100-499	500-999	1000-3000	4000-5000
A	.12	.075	.056	48.00	42.00
B	.12	.075	.056	38.00	33.00
C	.12	.075	.056	41.00	35.00
D	.12	.075	.056	46.00	40.00
E	.12	.075	.056	44.00	38.00
F	.19	.12	.09	54.00	47.00
G	.19	.12	.09	62.00	54.00
H	.36	.225	.169	99.00	85.00
J	.36	.225	.169	155.00	145.00

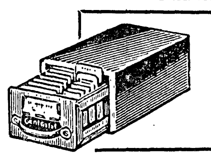
Stock No.	Mfr's Type	Mmf	*	Stock No.	Mfr's Type	Mmf	*
43 D 1407	DD-050	5	A	43 D 1431	DD-471	470	C
43 D 1409	DD-100	10	B	43 D 1432	DD-501	500	C
43 D 1410	DD-150	15	B	43 D 1433	DD-561	560	C
43 D 1411	DD-200	20	B	43 D 1434	DD-681	680	C
43 D 1525	DD-220	22	B	43 D 1435	DD-751	750	C
43 D 1412	DD-250	25	B	43 D 1537	DD-821	820	C
43 D 1527	DD-270	27	B	43 D 1437	DD-102	1000	E
43 D 1528	DD-300	30	B	43 D 1707	DD-102G	1000†	B
43 D 1413	DD-330	33	B	43 D 1438	DD-152	1500	E
43 D 1450	DD-390	39	B	43 D 1403	DD-182	1800	E
43 D 1415	DD-470	47	B	43 D 1439	DD-202	2000†	B
43 D 1416	DD-500	50	B	43 D 1542	DD-222	2200†	B
43 D 1417	DD-560	56	B	43 D 1406	DD-252	2500†	B
43 D 1418	DD-680	68	B	43 D 1452	DD-272	2700†	B
43 D 1451	DD-820	82	B	43 D 1440	DD-302	3000†	B
43 D 1420	DD-101	100	B	43 D 1600	DD-332	3300†	E
43 D 1421	DD-121	120	B	43 D 1441	DD-472	4700‡	D
43 D 1422	DD-151	150	B	43 D 1442	DD-5022	5000‡	D
43 D 1423	DD-181	180	B	43 D 1037	DD-502	5000†	E
43 D 1424	DD-201	200	B	43 D 1605	DD-682	6800†	E
43 D 1425	DD-221	220	B	43 D 1615	DD-103	10,000†	F
43 D 1426	DD-251	250	C	43 D 1106	DD-1032	10,000‡	G
43 D 1427	DD-271	270	C	43 D 1453	DD-6-103	10,000†	F
43 D 1428	DD-301	300	C	43 D 1686	DD-153	15,000§	F
43 D 1429	DD-331	330	C	43 D 1042	DD-203	20,000§	H
43 D 1430	DD-391	390	C	43 D 1689	DD-503	50,000§	J

HIGH-VOLTAGE DISC CERAMICS

Buffer capacitors. Capacitance tolerance: ±20%, except *guaranteed minimum value. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	WVDC	EACH 1-99	100-499	500-999
43 D 1371	DD16-502	5000*	1600	.21	.14	.10
43 D 1375	DD16-103	10,000*	1600	.21	.14	.10
43 D 1634	DD30-330	33	3000	.19	.12	.09
43 D 1614	DD30-101	100	3000	.19	.12	.09
43 D 1621	DD30-501	500	3000	.19	.12	.09
43 D 1622	DD30-102	1000	3000	.24	.15	.12
43 D 1626	DD30-502	5000	3000	.24	.15	.12
43 D 1680	DD60-100	10	6000	.29	.18	.135
43 D 1681	DD60-150	15	6000	.29	.18	.135
43 D 1468	DD60-500	50	6000	.29	.18	.135
43 D 1473	DD60-101	100	6000	.29	.18	.135
43 D 1486	DD60-501	500	6000	.29	.18	.135
43 D 1683	DD60-751	750	6000	.29	.18	.135
43 D 1445	DD60-102	1000	6000	.48	.30	.225
43 D 1448	DD60-202	2000	6000	.48	.30	.225

CERAMIC CAPACITOR KIT

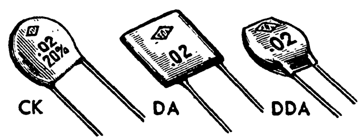


DDK-200 Ceramic Capacitor Kit. Handy assortment contains 200 of the most commonly used Type DD Ceramic Discs in a convenient metal storage tray. All capacitors in clearly labeled reusable plastic packages.

All are 1000 WVDC unless otherwise specified. Five each: 5, 10, 25, 33, 47, 50, 68, 120, 150, 180, 220, 250, 270, 300, 330, 390, 470, 500, 680, 1500, 3000, 4700, 10,000 (600 v.) mmf. Ten each: 100, 200 mmf. Fifteen each: 1000, 5000; 20,000 (600 v.) mmf. Twenty: 10,000 mmf. Cabinet size, 4x6x11". Shpg. wt., 6 lbs.

43 D 8912 .... Each 34.10

LOW-VOLTAGE CAPACITORS



Dependable high-capacity low voltage disc capacitors. Feature double-Durez resin insulation. All are high-vacuum wax impregnated. Specially designed for transistor circuit applications. Type DA: 1/2x1/2x3/16" thick; tolerance, —20% to +100%. Type DDA: 5/8" dia. x 5/32" thick; tolerance —30% to +80%. Type DM: 17/32x7/32x7/64" thick; tolerance *—20% to +50% and †—20% to +80%. Type CK, —20% to +80%; sizes: 502 and 103, 3/8" dia. x5/32" thick; 203, 253 and 303 are 9/16" dia. x 5/32"; 503, 11/16x5/32"; 104 3/4x15/64". Av. shpg. wt., 2 oz.

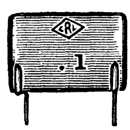
Stock No.	Mfr's Type	Mfd	WVDC	EACH 1-99	100-499	500-999
43 D 1627	DA-203	.02	30	.29	.18	.135
43 D 1628	DA-503	.05	30	.64	.405	.304
43 D 1629	DA-104	.1	30	1.07	.675	.506
43 D 1642	CK-502	.005	50	.17	.105	.070
43 D 1643	CK-103	.01	50	.17	.105	.079
43 D 1644	CK-203	.02	50	.17	.105	.079
43 D 1645	CK-253	.025	50	.17	.105	.079
43 D 1646	CK-303	.03	50	.17	.105	.079
43 D 1647	CK-503	.05	50	.24	.15	.113
43 D 1648	CK-104	.1	50	.48	.30	.225
43 D 1630	DDA-503	.05	75	.24	.15	.113
43 D 1631	DDA-104	.1	75	.48	.30	.225
43 D 1864	DM-101*	.0000	150	.72	.45	.338
43 D 1865	DM-501*	.0005	150	.72	.45	.338
43 D 1636	DM-102*	.001	150	.72	.45	.338
43 D 1637	DM-202*	.002	150	.72	.45	.338
43 D 1638	DM-302†	.003	150	.72	.45	.338
43 D 1639	DM-502†	.005	150	.72	.45	.338
43 D 1640	DM-103†	.01	150	.72	.45	.338

CE AND CF CERAMIC DISC CAPACITORS

Ceramic discs with exceptional stability through an extended temperature range. Type CE: temperature stable "K", operate from —55°C to +85°C with ±7½% capacity variation; Type CF: temperature semi-stable "K", ±22% variation. Phenolic vacuum insulation is impregnated with high-melting-point wax. All are 500 WVDC. Life test: 1000 hours at 1000 volts at +85°C. Leakage resistance: initial, 10,000 megohms minimum; after humidity, over 1000 megohms. Power factor: 2% maximum at 1 KC. Tolerance: ±10%. 1½" minimum lead length. No. 22 copper leads. Capacities range from 150 to 10,000 micromicrofarads. All types are 5/32" thick. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Mmf	Dia. (In.)	EACH 1-99	100-499	500-999
43 D 0873	CE-151	150	.290	.15	.09	.068
43 D 0874	CE-221	220	.290	.15	.09	.068
43 D 0875	CE-331	330	.290	.15	.09	.068
43 D 0876	CE-471	470	.290	.15	.09	.068
43 D 0877	CE-501	500	.290	.15	.09	.068
43 D 0878	CE-561	560	.290	.15	.09	.068
43 D 0879	CE-681	680	.385	.15	.09	.068
43 D 0889	CE-751	750	.385	.15	.09	.068
43 D 0890	CE-801	800	.385	.15	.09	.068
43 D 0891	CE-102	1000	.385	.15	.09	.068
43 D 1454	CF-122	1200	.385	.15	.09	.068
43 D 1455	CF-152	1500	.385	.15	.09	.068
43 D 1458	CF-182	1800	.385	.15	.09	.068
43 D 1459	CF-202	2000	.590	.17	.11	.079
43 D 1460	CF-222	2200	.590	.17	.11	.079
43 D 1461	CF-332	3300	.590	.17	.11	.079
43 D 1463	CF-392	3900	.590	.17	.11	.079
43 D 1464	CF-472	4700	.690	.17	.11	.079
43 D 1465	CF-502	5000	.690	.17	.11	.079
43 D 1467	CF-622	6200	.690	.17	.11	.079
43 D 1471	CF-822	8200	.920	.19	.12	.09
43 D 1474	CF-103	10K	.920	.19	.12	.09

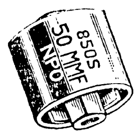
TYPE DF FLAT PLATE HI-KAPS



Rated at 600 WVDC. Have high capacity with ceramic stability and permanence. For bypassing, filtering, audio coupling. DF-503 is guaranteed minimum value; DF-104 is +80, —20% tolerance. #20 tinned leads. DF-503, 1-7/16x1-1/16x7/32". DF-104, 1-7/16x1-1/16x1-9/64". Wt., 2 oz.

Stock No.	Mfr's Type	Mfd	EACH 1-99	100-499	500-999
43 D 1247	DF-503	.05	.60	.38	.28
43 D 1245	DF-104	.1	.83	.53	.394

850 SERIES TRANSMITTING CAPACITORS



850S

Designed for transmitters, induction heaters, electronic welding equipment, X-ray, diathermy, and other high voltage, high frequency circuits. Have extremely low power factor, stable retrace characteristics, and long leakage paths. All ±10% tol., except 858 types— ±20%. Type nos. with N have temp. coeff. of neg. 750 parts/million/°C, types with Z have zero (NPO) coeff., types with no terminal letter are Hi-K, variable. 850S, 858S have 1/8" axial hex studs tapped 6-32; 853, 854, 855 have 1½" axial wire leads; 857 has axial studs tapped 10-32 NF-2, ¼" deep. *Typical RF characteristics @ 30 Mc. 3 oz.

Types 850S, 858S, 13/16" dia. x 5/8" long. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	WV DC	*RF Load, Amps	EACH 1-9	10-24	25-99	100-249
43 D 1100	850S-25Z	25	7500	7	2.70	2.43	2.14	1.92
43 D 1101	850S-50Z	50	7500	10	2.70	2.43	2.14	1.92
43 D 1104	850S-100N	100	5000	9.8	2.70	2.43	2.14	1.92
43 D 1107	858S-500	500	5000	......	2.70	2.43	2.14	1.92
43 D 1108	858S-1000	1000	5000	......	2.70	2.43	2.14	1.92

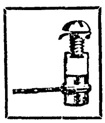
Types 853, 854, 855. Type 853, ½" dia., 7/16" long; 854, 3/8" dia., 3/8" long; 855, ¼" dia., 11/32" long. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	WV DC	*RF Load, Amps	1-9	10-24	25-99	100-249
43 D 1713	855-5Z	5	5000	1.8	1.80	1.62	1.43	1.28
43 D 1715	854-10Z	10	5000	1.8	1.80	1.62	1.43	1.28
43 D 1719	853-20Z	20	5000	2.8	1.80	1.62	1.43	1.28
43 D 1721	854-20N	20	5000	3.2	1.80	1.62	1.43	1.28
43 D 1723	853-40N	40	5000	5.6	1.80	1.62	1.43	1.28

Type 857. 19/32" dia., 1⅞" long. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	WV DC	*RF Load, Amps	1-9	10-24	25-99	100-249
43 D 1725	857-25Z	25	15,000	12	8.40	7.56	6.65	5.99
43 D 1726	857-50Z	50	15,000	12	8.40	7.56	6.65	5.99
43 D 1727	857-100N	100	15,000	14.4	7.20	6.48	5.70	5.13
43 D 1728	857-200N	200	7500	18.2	7.20	6.48	5.70	5.13

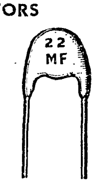
SERIES 829 TRIMMERS



Small, lightweight ceramic trimmers. Rugged steatite bodies with fired silver stator plates. Initial resistance: 10,000 megohms, minimum; resistance after humidity: 1000 megs. Rated at 500 WVDC; 1000 VDC test. Power factor: less than 0.25% at 1 mc. Supplied with locknut for mounting against metal panel or chassis. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	Length	EACH 1-99	100-499	500-999
43 D 1400	829-3	0.5-3	½"	.24	.15	.113
43 D 1402	829-6	1.0-6	5/8"	.24	.15	.113
43 D 1404	829-10	1.5-10	¾"	.24	.15	.113

UK ULTRA-KAP MINIATURE DISC CAPACITORS



Miniature ceramic disc capacitors for transistor circuitry. Designed for low-voltage applications requiring high capacities and low power factors. Insulated with double coating of "Durez" and impregnated with high-vacuum wax. Tolerance: 3 WVDC types, guaranteed minimum value; 10 and 20 WVDC, +80—20%. 5/32" thick; ¼ to ¾" diameter. All types listed have No. 22 leads. Av. shpg. wt., 1 oz.

3 WVDC

Stock No.	Mfr's Type	Mfd	EACH 1-99	100-499	500-999
43 D 1701	UK-104	.1	.33	.21	.158
43 D 1293	UK-224	.22	.24	.15	.113
43 D 1294	UK-474	.47	.24	.15	.113
43 D 1295	UK-105	1.0	.29	.18	.135
43 D 1296	UK-225	2.2	.34	.21	.158

10 WVDC

Stock No.	Mfr's Type	Mfd	1-99	100-499	500-999
43 D 1702	UK-10-503	.05	.14	.09	.068
43 D 1703	UK-10-104	.1	.14	.09	.068
43 D 1704	UK-10-204	.2	.24	.15	.113
43 D 1705	UK-10-474	.47	.33	.21	.158

20 WVDC (13/32 to 27/32" dia.)

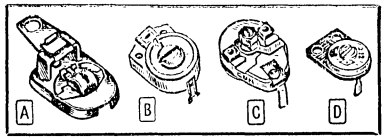
Stock No.	Mfr's Type	Mfd	1-99	100-499	500-999
43 D 1274	UK-20-503	.05	.14	.09	.068
43 D 1279	UK-20-104	.1	.16	.11	.079
43 D 1290	UK-20-204	.2	.31	.20	.146

TYPE TA-12-B 4-STAGE PACKAGED AMPLIFIER

An ultra-miniature, 4-stage unit with 78 db gain (minimum) at 1 kc. Noise, 30 db below 25 μv input at 1 kc. Frequency response, 2-5 db down at 3 kc; output, up to ½ mw. Uses 1.34 v. mercury battery. Thoroughly sealed to prevent mechanical and atmospheric damage. 17/32" diameter. Battery separately. Shpg. wt., 4 oz.

43 D 1298S .... Each 45.00

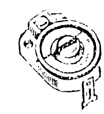
CERAMIC DIELECTRIC TRIMMERS



Feature ceramic dielectric for high insulating strength. Full capacity-range with 180° rotation. Designed to compensate for variations in tube capacities. Rated at 500 WVDC. Power factor: less than 0.2% at 1 mc. Types 820, 822 and 823 have steatite base; 827, phenolic base. Letter N in Type No. indicates negative temperature coefficient; letter Z in Type No. indicates zero temperature coefficient. Mtg. holes of Types 820 and 822 take No. 4 machine screws; Type 823 is tapped for No. 4-40 machine screws; Type 827 has 5/16" mtg. centers. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Mmf	Base Size	EACH 1-9	10-24	25-99	100-249
43 D 1381	820-D	A	1-3.5	5/8x27/32"	1.14	.95	.90	.76
43 D 1382	820-A	A	2.5-6		1.14	.95	.90	.76
43 D 1383	820-B	A	5-20		1.14	.95	.90	.76
43 D 1384	820-C	A	7-35		1.14	.95	.90	.76
43 D 1651	822-EN	B	4-30	41/64x27/32"	1.14	.95	.90	.76
43 D 1125	822-CN	B	4.5-25		1.14	.95	.90	.76
43 D 1124	822-BN	B	7-45		1.14	.95	.90	.76
43 D 1123	822-AN	B	8-50		1.14	.95	.90	.76
43 D 1653	822-EZ	B	1.5-7	41/64x27/32"	1.14	.95	.90	.76
43 D 1128	822-BZ	B	2.5-13		1.14	.95	.90	.76
43 D 1654	822-FZ	B	3-12		1.14	.95	.90	.76
43 D 1127	822-AZ	B	4.5-25		1.14	.95	.90	.76
43 D 1512	823-DN	C	8-50	15/16x17/32"	3.60	3.00	2.85	2.40
43 D 1511	823-BN	C	10-100		3.60	3.00	2.85	2.40
43 D 1510	823-AN	C	20-125		3.60	3.00	2.85	2.40
43 D 1515	823-DZ	C	6-25		3.60	3.00	2.85	2.40
43 D 1513	823-AZ	C	12-62		3.60	3.00	2.85	2.40
43 D 1516	827-A	D	2.5-7	17/32x¾"	.90	.75	.71	.60
43 D 1517	827-B	D	3.5-12		.90	.75	.71	.60
43 D 1518	827-C	D	6-30		.90	.75	.71	.60
43 D 1519	827-D	D	7-35		.90	.75	.71	.60

MIL-C-81A TRIMMERS

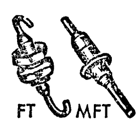


Ceramic trimmers meet MIL-C-81A specs and are marked with MIL No. Pure silver stator plate fired on top of low-loss steatite base. Rated at 500 WVDC; 1500 VDC test. Power factor: less than 0.2% at 1 mc. Body size, 27/32x41/64". *Temperature characteristic. Av. shpg. wt., 2 oz.

Stock No.	MIL No.	CRL No.	Mmf	*Temp. Char.	Erie No. 503-041-
43 D 2393	CV11A070	825-EZ	1.5-7.0	NPO	C0P0 10R
43 D 2394	CV11A120	825-FZ	3.0-12.0	NPO	C0P0 17R
43 D 2395	CV11A250	825-AZ	4.5-25.0	NPO	C0P0 37R
43 D 2324	CV11B130	825-AN	3.0-13.0	N300	B2P0 18R
43 D 2325	CV11B200	825-FN	5.0-20.0	N300	B2P0 28R
43 D 2326	CV11C300	825-CN	4.0-30.0	N500	D2P0 24R
43 D 2327	CV11C450	825-GN	7.0-45.0	N500	D2P0 33R
43 D 2396	CV11D060	825-DN	2.0-6.0	N650	....
43 D 2397	CV11D300	825-EN	4.0-30.0	N650	E2P0 24R
43 D 2398	CV11D450	825-BN	7.0-45.0	N650	E2P0 33R

1-9 ....Each 1.17 10-24 ....Each .98
25-99..............Each .93 100-249..............Each .78

FEED-THRU CERAMIC HI-KAPS



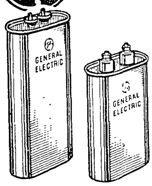
Type FT. For high-frequency circuits where feed-thru plus capacity ground is required. Double-flatted bushing, .281" long with 12-28 thread bushing and nut; .050" dia. tinned copper leads. Lgth, 15/32". Av. shpg. wt., 3 oz.

Type MFT. Miniature version of FT, above. ¼" max.-dia. flange eyelet for insertion in .160" hole. Solder to chassis; #16 leads. Max. length, 1⅜". 500 WVDC; 1000 VDC test. Tol.: *±20%; †—20 to +50%; §±10%; ‡guaranteed min. value. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mmf	EACH 1-99	100-499	500-999
43 D 1390	FT-500	*500	.60	.38	.28
43 D 1391	FT-1000	*1000	.60	.38	.28
43 D 1392	FT-1500	†1500	.60	.38	.28
43 D 1393	FT-1800	†1800	.60	.38	.28
43 D 1394	FT-2300	†2300	.60	.38	.28
43 D 1488	MFT-50	§50	.24	.15	.113
43 D 1489	MFT-100	§100	.24	.15	.113
43 D 1490	MFT-500	*500	.24	.15	.113
43 D 1491	MFT-1000	‡1000	.24	.15	.113

General Electric Capacitors

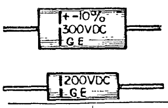
DC DRAWN-OVAL CAPACITORS



High-quality paper-Pyranol capacitors for filtering, blocking and bypass-type DC voltage applications. Designed to replace Types CP70 and P70 rectangular capacitors—up to 36% smaller and 30% lighter than comparable rectangular case styles. Meet MIL-C-25 specs. Temperature range, —55°C to +85°C. 600 to 2000-WVDC types have cup bushings with eyelet terminals; 3000-WVDC types, porcelain bushings with 12-24 threads. Tolerance, ±10%.

Stock No.	Type 23F	Mfd	Size Inches	EACH 1-9	10-24	25-49	50-99	100-499	500-999
600 WVDC Shpg. wts., 1/2 to 4 lbs.									
43 D 0082	1211	2	2 5/32x1 5/16x2 1/16"	2.73	1.55	1.37	1.18	1.05	.98
43 D 0083	1213	4	2 5/32x1 5/16x2 9/16"	3.90	2.21	1.95	1.69	1.50	1.40
43 D 0084	1214	5	2 5/32x1 5/16x3 1/16"	4.44	2.52	2.22	1.92	1.70	1.59
43 D 0085	1215	6	2 5/32x1 5/16x3 13/16"	5.04	2.86	2.52	2.18	1.93	1.81
43 D 0086	1217	10	2 29/32x1 29/32x3 1/2"	6.63	3.76	3.32	2.87	2.54	2.38
43 D 0087	1219	15	2 29/32x1 29/32x4 1/2"	8.79	4.98	4.40	3.81	3.37	3.15
43 D 0088	1220	20	2 29/32 2 1 29/32x5 3/4"	10.95	6.21	5.48	4.75	4.20	3.92
43 D 0089	1221	25	2 29/32x1 29/32x7 1/4"	13.83	7.84	6.92	5.99	5.30	4.96
43 D 0090	1222	30	3 21/32x1 31/32x6 1/4"	16.05	9.10	8.03	6.96	6.15	5.75
1000 WVDC Shpg. wts., 1/2 to 5 lbs.									
43 D 0091	1224	1	2 5/32x1 5/16x1 11/16"	2.79	1.58	1.40	1.21	1.07	1.00
43 D 0092	1225	2	2 5/32x1 5/16x2 21/64"	2.91	1.65	1.46	1.26	1.12	1.04
43 D 0093	1227	4	2 5/32x1 5/16x3 53/64"	4.14	2.35	2.07	1.79	1.59	1.48
43 D 0094	1228	5	2 5/32x1 5/16x4 11/16"	4.65	2.64	2.33	2.02	1.78	1.67
43 D 0095	1229	6	2 29/32x1 29/32x3 1/2"	5.25	2.98	2.63	2.28	2.01	1.88
43 D 0096	1231	10	2 29/32x1 29/32x5 1/4"	7.56	4.28	3.78	3.28	2.90	2.71
43 D 0097	1233	15	2 29/32x1 29/32x7 1/4"	10.50	5.95	5.25	4.55	4.03	3.76
43 D 0098	1234	20	3 2/3x1 31/32x7 1/4"	13.41	7.60	6.71	5.81	5.14	4.81
43 D 0099	1235	25	3 2/3x1 31/32x9 1/4"	16.32	9.25	8.16	7.07	6.26	5.85
1500 WVDC Shpg. wts., 1/2 to 4 lbs.									
43 D 0159	1236	1	2 5/32x1 5/16x2 1/16"	2.61	1.48	1.31	1.13	1.00	.94
43 D 0160	1237	2	2 5/32x1 5/16x3 7/16"	3.60	2.04	1.80	1.56	1.38	1.29
43 D 0161	1239	4	2 29/32x1 29/32x3 1/2"	5.49	3.11	2.75	2.38	2.10	1.97
43 D 0162	1240	5	2 29/32x1 29/32x4 1/4"	6.42	3.64	3.21	2.78	2.46	2.30
43 D 0163	1243	10	3 2/3x1 31/32x5 3/4"	11.16	6.32	5.58	4.84	4.28	4.00
2000 WVDC Shpg. wts., 1/2 to 5 lbs.									
43 D 0164	1245	1	2 5/32x1 5/16x2 13/16"	3.60	2.04	1.80	1.56	1.38	1.29
43 D 0165	1246	2	2 5/32x1 5/16x4 43/64"	4.80	2.72	2.40	2.08	1.84	1.72
43 D 0166	1248	4	2 29/32x1 29/32x4 1/4"	7.14	4.05	3.57	3.09	2.74	2.56
43 D 0167	1249	5	2 29/32x1 29/32x5 1/4"	8.31	4.71	4.16	3.60	3.19	2.98
43 D 0168	1252	10	3 2/3x1 31/32x8"	14.19	8.04	7.10	6.15	5.44	5.08
3000 WVDC Shpg. wts., 1/2 to 5 lbs.									
43 D 0169	1261	.5	2 29/32x1 29/32x2 3/8"	8.25	4.68	4.13	3.58	3.16	2.96
43 D 0170	1262	1	2 29/32x1 29/32x3 1/8"	8.70	4.93	4.35	3.77	3.34	3.12
43 D 0171	1263	2	2 29/32 2 1 29/32x4 3/4"	11.40	6.46	5.70	4.94	4.37	4.09
43 D 0172	1265	4	3 2/3x1 31/32x6 1/4"	16.50	9.35	8.25	7.15	6.33	5.91
43 D 0173	1266	5	3 2/3x1 31/32x7 1/4"	19.05	10.80	9.53	8.26	7.30	6.83

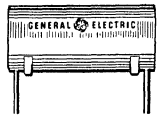
METALIZED POLYCARBONATE CAPACITORS



Excellent for low temperature coefficient applications, and where small size is required. Made of metalized polycarbonate film encased in tape with plastic resin end pots. Temperature range, —55°C to +85°C. Tolerance, ±10%. Wt., 2 oz.

Stock No.	Type 74F	Mfd	WVDC	Size	EACH 1-9	10-99	100-999
43 D 0174	01BA103	.010	200	11/64x15/32"	1.71	.81	.647
43 D 0175	01BA223	.022	200	15/64x15/32"	1.59	.76	.600
43 D 0176	01BA333	.033	200	17/64x15/32"	1.50	.72	.570
43 D 0177	01BA473	.047	200	5/16x15/32"	1.47	.70	.554
43 D 0178	01BA683	.068	200	17/64x21/32"	1.47	.70	.554
43 D 0179	01BA104	.10	200	5/16x21/32"	1.47	.70	.554
43 D 0180	01BA224	.22	200	23/64x25/32"	1.59	.76	.600
43 D 0181	01BA334	.33	200	7/16x25/32"	1.71	.81	.647
43 D 0182	01BA474	.47	200	25/64x1 1/32"	1.91	.91	.724
43 D 0183	01BA684	.68	200	15/32x1 1/32"	2.24	1.06	.847
43 D 0184	01BA105	1.0	200	37/64x1 1/32"	2.73	1.29	1.03
43 D 0185	01BA205	2 0	200	39/64x1 17/32"	3.81	1.80	1.44
43 D 0186	01BA405	4.0	200	53/64x1 17/32"	5.47	2.59	2.07
43 D 0187	01BA505	5.0	200	53/64x1 25/32"	6.18	2.92	2.34
43 D 0189	01DA104	.10	400	23/64x1 1/32"	2.12	1.00	.800
43 D 0190	01DA154	.15	400	7/16x1 1/32"	2.24	1.06	.847
43 D 0191	01DA224	.22	400	27/64x1 17/32"	2.52	1.19	.955
43 D 0192	01DA334	.33	400	31/64x1 17/32"	2.93	1.39	1.11
43 D 0193	01DA474	.47	400	19/32x1 17/32"	3.42	1.62	1.29
43 D 0194	01DA105	1.0	400	53/64x1 17/32"	4.85	2.29	1.83
43 D 0195	01DA205	2.0	400	1 1/32x1 25/32"	7.21	3.41	2.73
43 D 0196	01DA405	4.0	400	1 1/4x2 9/32"	10.17	4.81	3.85
43 D 0197	01DA505	5.0	400	1 9/64x2 17/32"	11.14	5.27	4.21

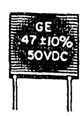
"BLACK HAWK" MYLAR DIELECTRIC CAPACITORS



Designed for printed circuit board applications in test and measurement, control, communications and consumer products. Has rugged molded epoxy case which resists soldering-iron damage, welded leads and extended foil construction. Temperature range, —55°C to +125°C, with proper derating above 85°C. Tolerance, ±10%. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	WV DC	Size	EACH 1-9	10-99	100-999
43 D 0854	75F1R5A103	.01	50	15/64x15/32x1/2"	.22	.11	.081
43 D 0855	75F1R5A153	.015	50	15/64x15/32x1/2"	.22	.11	.081
43 D 0856	75F1R5A223	.022	50	15/64x15/32x1/2"	.22	.11	.081
43 D 0857	75F1R5A333	.033	50	15/64x15/32x1/2"	.23	.11	.088
43 D 0858	75F1R5A473	.047	50	15/64x15/32x1/2"	.24	.11	.088
43 D 0859	75F2R5A683	.068	50	11/64x13/32x51/64"	.26	.12	.097
43 D 0861	75F2R5A104	.10	50	11/64x13/32x51/64"	.29	.14	.109
43 D 0863	75F3R5A154	.15	50	1/4x15/32x51/64"	.39	.18	.144
43 D 0864	75F3R5A224	.22	50	1/4x15/32x51/64"	.44	.21	.164
43 D 0870	75F4R5A334	.33	50	19/64x17/32x51/64"	.58	.28	.219
43 D 0871	75F6R5A474	.47	50	21/64x9/16x1 1/8"	.68	.32	.256
43 D 0872	75F6R5A684	.68	50	21/64x9/16x1 1/8"	.94	.45	.354
43 D 0880	75F7R5A105	1.00	50	31/64x23/32x1 1/8"	1.30	.62	.493
43 D 0881	75F1R2A103	.01	200	15/64x15/32x1/2"	.22	.11	.083
43 D 0882	75F1R2A153	.015	200	15/64x15/32x1/2"	.23	.11	.087
43 D 0883	75F1R2A223	.022	200	15/64x15/32x1/2"	.24	.11	.088
43 D 0884	75F2R2A333	.033	200	11/64x13/32x51/64"	.25	.12	.091
43 D 0885	75F2R2A473	.047	200	11/64x13/32x51/64"	.26	.12	.095
43 D 0886	75F3R2A683	.068	200	1/4x15/32x51/64"	.27	.13	.102
43 D 0887	75F3R2A104	.10	200	1/4x15/32x51/64"	.29	.14	.109
43 D 0888	75F4R2A154	.15	200	19/64x17/32x51/64"	.39	.18	.144
43 D 0894	75F6R2A224	.22	200	21/64x9/16x1 1/8"	.44	.21	.164
43 D 0908	75F6R2A334	.33	200	21/64x9/16x1 1/8"	.58	.28	.219
43 D 0927	75F7R2A474	.47	200	31/64x47/64x1 1/8"	.68	.32	.256
43 D 0928	75F7R2A684	.68	200	31/64x47/64x1 1/8"	.88	.40	.314
43 D 0929	75F8R2A105	1.0	200	45/64x31/32x1 1/8"	1.17	.56	.444
43 D 0930	75F1R4A472	.0047	400	15/64x15/32x1/2"	.23	.11	.087
43 D 0931	75F1R4A682	.0068	400	15/64x15/32x1/2"	.24	.11	.088
43 D 0937	75F2R4A103	.010	400	11/64x13/32x51/64"	.25	.12	.091
43 D 0939	75F2R4A153	.015	400	11/64x13/32x51/64"	.26	.12	.095
43 D 1062	75F3R4A223	.022	400	1/4x15/32x51/64"	.27	.13	.102
43 D 1063	75F3R4A333	.033	400	19/64x17/32x51/64"	.32	.15	.119
43 D 1065	75F4R4A473	.047	400	19/64x17/32x51/64"	.39	.18	.144
43 D 1066	75F6R4A683	.068	400	21/64x9/16x1 1/8"	.44	.21	.165
43 D 1067	75F6R4A104	.10	400	21/64x9/16x1 1/8"	.60	.28	.224
43 D 1068	75F7R4A154	.15	400	31/64x47/64x1 1/8"	.70	.33	.262
43 D 1069	75F7R4A224	.22	400	31/64x47/64x1 1/8"	.84	.40	.317
43 D 1070	75F1R6A102	.0010	600	15/64x15/32x1/2"	.22	.11	.081
43 D 1071	75F1R6A152	.0015	600	15/64x15/32x1/2"	.22	.11	.083
43 D 1072	75F1R6A222	.0022	600	15/64x15/32x1/2"	.23	.11	.087
43 D 1073	75F1R6A332	.0033	600	15/64x15/32x1/2"	.24	.11	.088
43 D 1074	75F2R6A472	.0047	600	11/64x13/32x51/64"	.25	.12	.091
43 D 1075	75F2R6A682	.0068	600	11/64x13/32x51/64"	.26	.12	.095
43 D 1078	75F3R6A103	.010	600	1/4x15/32x51/64"	.27	.13	.102
43 D 1103	75F4R6A223	.022	600	19/64x17/32x51/64"	.39	.18	.144
43 D 1131	75F6R6A333	.033	600	21/64x9/16x1 1/8"	.44	.21	.165
43 D 1134	75F6R6A473	.047	600	21/64x9/16x1 1/8"	.60	.29	.224
43 D 1149	75F7R6A683	.068	600	31/64x17/32x1 1/8"	.70	.33	.262
43 D 1159	75F7R6A104	.10	600	31/64x17/32x1 1/8"	.84	.40	.317

MICRO-FLAT CAPACITORS



Mylar dielectric type in premolded case. Offers extreme volumetric efficiency, high reliability, light weight, mechanical strength and excellent resistance to humidity, vibration and shock. Temperature range, —55C° to +85°C. Tolerance, ±10%. Av. shpg. wt., 2 oz.

43 D 1162	65F10AA102	.001	50	3/8x17/64x3/32"	1.09	.49	.363
43 D 1173	65F10AA152	.0015	50	3/8x17/64x3/32"	1.12	.50	.372
43 D 1175	65F10AA222	.0022	50	3/8x17/64x3/32"	1.14	.51	.381
43 D 1176	65F10AA332	.0033	50	3/8x17/64x3/32"	1.17	.52	.390
43 D 1180	65F10AA472	.0047	50	3/8x17/64x3/32"	1.20	.54	.399
43 D 1193	65F10AA682	.0068	50	3/8x17/64x3/32"	1.22	.55	.408
43 D 1194	65F10AA103	.010	50	3/8x17/64x3/32"	1.25	.56	.417
43 D 1195	65F11AA153	.015	50	3/8x23/64x1/8"	1.28	.57	.426
43 D 1196	65F11AA223	.022	50	3/8x23/64x1/8"	1.30	.58	.435
43 D 1197	65F11AA333	.033	50	3/8x23/64x1/8"	1.34	.60	.446
43 D 1198	65F12AA473	.047	50	15/32x3/8x11/64"	1.36	.61	.453
43 D 1199	65F12AA683	.068	50	15/32x3/8x11/64"	1.41	.63	.471
43 D 1211	65F13AA104	.10	50	15/32x15/32x11/64"	1.47	.66	.489
43 D 1218	65F15AA154	.15	50	37/64x39/64x3/16"	1.63	.73	.545
43 D 1224	65F15AA224	.22	50	37/64x39/64x3/16"	1.63	.73	.545
43 D 1227	65F16AA334	.33	50	11/16x43/64x3/16"	1.80	.80	.599
43 D 1230	65F17AA474	.47	50	7/8x45/64x3/16"	2.01	.90	.670
43 D 1234	65F18AA684	.68	50	7/8x23/32x1/4"	2.34	1.04	.780
43 D 1242	65F19AA105	1.0	50	63/64x57/64x1/4"	2.94	1.31	.979
43 D 1243	65F20AA155	1.5	50	1 25/32x7/8x19/64"	4.08	1.81	1.36

Specify Manufacturer's Type No. and Capacitance on Capacitor Orders

General Electric Capacitors

MINIATURE ALUMALYTIC® CAPACITORS

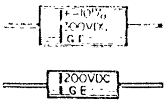
Aluminum capacitors offer excellent stability, low equivalent series resistance and low leakage current. All welded construction minimizes contact resistance, eliminates intermittent contact. Temperature range, 0°C to +85°C. Capacitance tolerance, −10% to +75%. Polyester insulating sleeve. Sizes shown are for bare can. Average shpg. wt., 2 oz. **Equivalent Type available**—see page 168.

Size Chart

*	Dia. x L.	*	Dia. x L.
A	1/4x1/2"	E	3/8x13/16"
B	1/4x11/16"	F	3/8x15/16"
C	5/16x11/16"	G	3/8x1 1/4"
D	3/8x11/16"	H	3/8x1 1/2"

Stock No.	Type 76F-	Mfd	WV DC	*	EACH 1-24	25-49	50-99	100-249	250-499
43 D 1888	02KC1R0	1.0	25	A	.88	.60	.47	.364	.312
43 D 1959	02LC1RO	1.0	50	A	.92	.62	.49	.378	.324
43 D 1889	02KC2R2	2.2	25	A	.90	.61	.48	.371	.318
43 D 1960	02LC2R2	2.2	50	A	.92	.63	.49	.381	.326
43 D 1971	02NE2R2	2.2	150	C	.99	.67	.53	.409	.351
43 D 1961	02LC3R3	3.3	50	A	.93	.63	.49	.384	.329
43 D 1892	02KC4R7	4.7	25	A	.91	.62	.48	.375	.322
43 D 1962	02LD4R7	4.7	50	B	.94	.63	.50	.386	.331
43 D 1972	02NL4R7	4.7	150	F	1.01	.69	.54	.417	.358
43 D 1893	02KD6R8	6.8	25	B	.91	.62	.48	.377	.323
43 D 1963	02LE6R8	6.8	50	C	.95	.64	.50	.389	.334
43 D 1973	02NM6R8	6.8	150	G	1.02	.69	.54	.419	.359
43 D 1877	02EC100	10	12	A	.85	.58	.45	.35	.30
43 D 1881	02FC100	10	15	A	.88	.60	.47	.364	.312
43 D 1897	02KD100	10	25	B	.92	.62	.49	.378	.324
43 D 1964	02LE100	10	50	C	.95	.64	.50	.392	.336
43 D 1974	02NM100	10	150	G	1.02	.69	.54	.42	.36
43 D 1898	02KE150	15	25	C	.95	.64	.50	.392	.336
43 D 1967	02LF150	15	50	D	.99	.67	.52	.406	.348
43 D 1883	02FD220	22	15	B	.95	.64	.50	.392	.336
43 D 1899	02KE220	22	25	C	.99	.67	.52	.406	.348
43 D 1968	02LK220	22	50	E	1.02	.69	.54	.42	.36
43 D 1955	02KF330	33	25	D	1.02	.69	.54	.419	.359
43 D 1969	02LL330	33	50	F	1.05	.71	.56	.433	.371
43 D 1884	02FF470	47	15	D	.99	.67	.53	.409	.351
43 D 1956	02KK470	47	25	E	1.03	.69	.54	.423	.363
43 D 1970	02LM470	47	50	G	1.07	.72	.57	.44	.377
43 D 1957	02KL680	68	25	F	1.06	.72	.56	.437	.375
43 D 1876	02CF101	100	6	D	.96	.65	.51	.395	.339
43 D 1885	02FL101	100	15	F	1.05	.71	.56	.434	.372
43 D 1958	02KM101	100	25	G	1.09	.74	.58	.448	.384
43 D 1886	02FM151	150	15	G	1.09	.74	.58	.448	.384
43 D 1879	02EM221	220	12	G	1.09	.74	.58	.448	.384
43 D 1887	02FN221	220	15	H	1.12	.76	.59	.462	.396
43 D 1880	02EN271	270	12	H	1.09	.74	.58	.451	.387

LECTROFILM-B TUBULARS

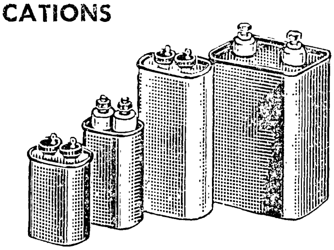


Highly reliable capacitors, constructed from high-grade Mylar film and aluminum foil with double epoxy end pot for maximum humidity resistance, excellent capacitance stability, wide temperature range and long life. For use in business machines, communications equipment, power supplies and other applications requiring light weight and small size. Temperature range, −55°C to +125°C with proper derating above 85°C. Tolerance, ±10%. Av. wt., 2 oz.

Stock No.	Type 64F-	Mfd	WV DC	Diameter X Length	EACH 1-9	10-99	100-999
43 D 1649	10AA102	.001	100	1 1/64x2 5/64"	.44	.18	.144
43 D 1656	10AA222	.0022	100	1 1/64x2 5/64"	.44	.18	.144
43 D 1657	10AA472	.0047	100	1 1/64x2 5/64"	.44	.18	.144
43 D 1658	10AA103	.01	100	1 1/64x2 5/64"	.44	.18	.144
43 D 1659	15AA223	.022	100	5/32x1 1/16"	.44	.18	.144
43 D 1660	19AA473	.047	100	7/32x1 1/16"	.48	.19	.158
43 D 1661	24AA104	.1	100	9/32x1 3/16"	.70	.28	.231
43 D 1662	36AA224	.22	100	2 1/64x1 13/64"	.81	.33	.268
43 D 1663	40AA474	.47	100	3 1/64x1 13/64"	1.06	.43	.355
43 D 1664	51AA105	1.0	100	3 5/64x1 17/32"	1.34	.54	.445
43 D 1665	55AA155	1.5	100	1 1/16x1 17/32"	1.77	.71	.589
43 D 1666	67AA205	2.0	100	3/4x1 7/8"	2.02	.81	.670
43 D 1667	10BA102	.001	200	1 1/64x2 5/64"	.44	.18	.144
43 D 1668	10BA222	.0022	200	1 1/64x2 5/64"	.44	.18	.144
43 D 1669	10BA472	.0047	200	1 1/64x2 5/64"	.44	.18	.144
43 D 1670	15BA103	.010	200	5/32x1 1/16"	.45	.18	.149
43 D 1671	19BA223	.022	200	7/32x1 1/16"	.48	.19	.158
43 D 1678	23BA473	.047	200	1/4x1 3/16"	.52	.21	.171
43 D 1685	29BA104	.1	200	2 1/64x1 1/32"	.79	.32	.261
43 D 1690	38BA224	.22	200	2 5/64x1 3/16"	.88	.36	.292
43 D 1700	47BA474	.47	200	3 3/64x1 17/32"	1.34	.54	.445
43 D 1729	66BA105	1.0	200	1 1/16x1 27/32"	1.77	.71	.589
43 D 1730	68BA155	1.5	200	1 3/16x1 27/32"	2.02	.81	.670
43 D 1731	22DA103	.01	400	1 5/64x1 3/16"	.49	.20	.164
43 D 1732	24DA223	.022	400	9/32x1 3/16"	.70	.28	.231
43 D 1733	32DA473	.047	400	2 3/64x1 1/32"	.79	.32	.261
43 D 1734	40DA104	.10	400	3 1/64x1 3/16"	1.06	.43	.355
43 D 1740	52DA224	.22	400	1 9/32x1 17/32"	1.56	.63	.517
43 D 1741	67DA474	.47	400	3/4x1 7/8"	2.02	.81	.670
43 D 1745	88DA105	1.0	400	1 5/32x2 19/32"	3.20	1.28	1.06
43 D 1755	23FA103	.01	600	1/4x1 3/16"	.52	.21	.171
43 D 1760	26FA223	.022	600	2 3/64x1 3/16"	.73	.29	.240
43 D 1761	38FA473	.047	600	2 5/64x1 3/16"	.86	.35	.286
43 D 1764	49FA104	.10	600	1/2x1 17/32"	1.24	.50	.414
43 D 1766	65FA224	.22	600	1 3/16x1 1/8"	1.77	.71	.589
43 D 1775	84FA474	.47	600	1 5/16x2 3/32"	2.45	.98	.812

CAPACITORS FOR SCR COMMUTATION APPLICATIONS

Oil-filled capacitors, primarily designed for breadboard prototype work in silicon controlled rectifier commutation and other similar square-wave voltage applications. Special construction gives low inductance and minimum equivalent series resistance; internal connections carry high currents frequently encountered. Paint finish on terne-plate steel cases increases emissivity of case surface and holds dielectric temperature rise to minimum. Oil dielectric maintains nominal (25°C) capacity within ±2.5% from −55°C to +80°C. Table below is based on 50 microseconds current pulse width. In no case should maximum voltage, current, ambient and case temperatures be exceeded. All are oil-impregnated paper units, except *metalized paper and †polycarbonate. All have oval case style, except § rectangular. ‡Max. rms in volt-amperes at max. ambient and case temp. Av. wt., 5 lbs.



Stock No.	Type 28F-	Mfd	Rms Volts AC Max.	Volts DC Max.	Size Inches (WxDxH)	Max. Rms (Amps) Ambient Temp. 80°C / Case Temp. 87°C	70°C / 83°C	60°C / 80°C	50°C / 77°C	EACH 1-9	10-99	100-999
43 D 1778	951	3	165	200	2 5/32x1 5/16x2 5/16"	7.0	10.0	12.3	14.2	5.37	2.17	1.81
43 D 1781	952	5	165	200	2 5/32x1 5/16x3 1/16"	9.8	14.2	17.4	19.9	5.89	2.38	1.98
43 D 1782	953§	10	165	200	3 3/4x1 1/4x4 1/4"	22.0	31.6	39.5	42.9	15.43	6.24	5.20
43 D 1783	954§	20	165	200	3 3/4x2 1/4x4 1/2"	38.0	43.0	43.1	43.4	24.38	9.82	8.18
43 D 1787	955	2	200	250	2 5/32x1 5/16x2 5/16"	5.7	7.9	9.8	11.7	4.96	2.01	1.68
43 D 1791	956	2	330	600	2 5/32x1 5/16x2 13/16"	6.3	8.8	11.0	12.6	5.70	2.30	1.91
43 D 1796	957	3	330	600	2 5/32x1 5/16x3 13/16"	8.5	12.3	14.8	17.4	6.89	2.78	2.32
43 D 1802	958§	5	330	600	3 1/4x1 1/4x4 3/4"	15.8	22.1	28.4	31.6	13.94	5.79	4.87
43 D 1806	959§	10	330	600	3 3/4x2 1/4x4 1/2"	25.3	37.9	42.9	43.0	23.57	9.49	7.91
43 D 1813	960§	20	330	600	3 3/4x3 3/16x5 1/2"	43.0	43.0	43.0	43.0	32.19	12.94	10.77
43 D 1815	961	1	400	800	2 5/32x1 5/16x2 5/16"	4.1	5.7	6.9	8.2	4.89	1.98	1.65
43 D 1850	5033	.5	660	1500	2 5/32x1 5/16x2 1/16"	3.0	4.3	5.6	6.7	5.59	2.23	1.86
43 D 1816	962	1	700	2000	2 5/32x1 5/16x4 3/8"	5.3	7.2	9.1	10.7	5.66	2.29	1.91
43 D 1817	963§	2	700	2000	3 3/4x1 1/4x4 3/4"	10.7	15.2	18.3	21.2	17.76	7.17	5.98
43 D 1818	964§	3	700	2000	3 3/4x2 1/4x4 1/2"	14.5	20.5	25.3	28.4	24.67	10.08	8.44
43 D 1820	965§	5	700	2000	3 3/4x3 3/16x5 1/8"	22.1	30.6	36.3	42.6	28.30	11.39	9.48
43 D 1824	966§	10	700	2000	4 9/16x3 3/4x6"	36.3	43.0	43.0	43.0	38.33	15.40	12.82
43 D 1829	1101*	25	115	200	2 11/16x1 9/16x2 1/8"	33‡	125‡	230‡	350‡	19.43	7.77	6.46
43 D 1831	1102*	50	115	200	2 11/16x1 9/16x2 7/8"	42‡	160‡	290‡	430‡	26.83	10.73	8.92
43 D 1832	1103*	100	115	200	3 21/32x1 31/32x3 1/8"	65‡	245‡	440‡	670‡	33.59	13.61	11.36
43 D 1833	1104*	125	115	200	3 21/32x1 31/32x3 7/8"	76‡	285‡	520‡	782‡	37.29	15.09	12.59
43 D 1837	1202†	20	330	600	3 21/32x1 31/32x6"	43.0	43.0	43.0	43.0	52.98	21.19	17.61
43 D 1848	1203†§	10	700	2000	4 9/16x3 3/4x5 1/8"	43.0	43.0	43.0	43.0	92.50	37.00	30.75

Vitramon and Plastic Capacitors

VITRAMON CAPACITORS

MILITARY TYPE CY PORCELAIN CAPACITORS

Unaffected by humidity, maintain insulation resistance after immersion. Meet shock requirements of MIL-STD-202. Exceed vibration requirements of MIL-C-11272B; meet requirements of 2000-cps vibration at 20g acceleration. For centrifugal accelerations over 40,000g. 500 WVDC, except *300. Tolerance, ±5%, except †0.25 mmf. (1% or 2% tolerance available on Special Order.) No drift, over 10,000 hours at 80°C at 500 VDC. 1 oz.

CAPACITANCE RANGE—SPECIFY MMF DESIRED

0.5	4.7	12	33	82	220	560	1500	3900
1.0	5.1	13	36	91	240	620	1600	4300
1.5	5.6	15	39	100	270	680	1800	4700
2.2	6.2	16	43	110	300	750	2000	5100
2.7	6.8	18	47	120	330	820	2200	5600
3.0	7.5	20	51	130	360	910	2400	6200
3.3	8.2	22	56	150	390	1000	2700	6800
3.6	9.1	24	62	160	430	1100	3000	
3.9	10	27	68	180	470	1200	3300	
4.3	11	30	75	200	510	1300	3600	

Stock No.	Mfr's Type	Mmf (Specify Value)	EACH 1-49	50-99	100-249	250-499	500-999
43 D 2046 C	CY13C	0.5 to 5.1†	1.60	1.52	1.29	1.21	1.02
43 D 2066 C	CY13C	5.6 to 10	1.05	1.00	.85	.80	.68
43 D 2067 C	CY13C	11 to 43	.67	.64	.55	.52	.44
43 D 2068 C	CY13C	47 to 91	.75	.72	.61	.58	.49
43 D 2069 C	CY13C	100 to 200	1.05	1.00	.85	.80	.68
43 D 2071 C	CY17C	220 to 430	1.05	1.00	.85	.80	.68
43 D 2072 C	CY17C	470	1.35	1.29	1.09	1.03	.86
43 D 2075 C	CY22C	510 to 910	1.95	1.86	1.57	1.48	1.24
43 D 2076 C	CY22C	1000	2.21	2.10	1.78	1.67	1.40
43 D 2078 C	CY32C	1100 to 2000	2.65	2.52	2.13	2.00	1.68
43 D 2079 C	CY32C	2200 to 3000	4.95	3.85	3.25	3.05	2.55
43 D 2080 C	CY32C	3300	5.45	5.18	4.37	4.10	3.43
43 D 2081 C	CY32C	3600 to 4300*	5.45	5.18	4.37	4.10	3.43
43 D 2082 C	CY32C	4700 to 6800*	7.75	7.37	6.21	5.83	4.86

MILITARY-TYPE CK05, CK06 CERAMIC CAPACITORS

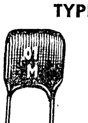
CAPACITANCE—SPECIFY MMF DESIRED

*10	27	*68	180	*470	1200	*3300	8200
12	33	82	*220	560	*1500	3900	*10,000
*15	39	*100	270	*680	1800	*4700	
18	47	120	*330	820	*2200	5600	
*22	56	*150	390	*1000	2700	*6800	

Meet MIL-C-11015/18/19 and MIL-STD-202 temperature, immersion specs. Precision-molded cases are flame-resistant. Standard 0.2" lead spacing. Handle 200 WVDC without derating; surge voltage up to 400% of rated voltage. Range, —55°C to +150°C. Up to 1000 mmf, .2x.2x.1"; over 1000 mmf. .3x.3x.1". ±10% tolerance, except *±20%. Av. shpg. wt., 1/2 oz.

Stock No.	Mfr's Type	Mmf	1-49	50-99	100-249	250-499	500-999
43 D 2083 C	CK05	10 to 1000	.72	.71	.59	.57	.45
43 D 2085 C	CK06	1200 to 4700	.95	.92	.78	.75	.62
43 D 2086 C	CK06	5600 to 10,000	2.00	1.90	1.60	1.50	1.27
43 D 2087 C	CK05*	10 to 1000	.61	.60	.50	.48	.38
43 D 2089 C	CK06*	1200 to 4700	.81	.78	.66	.64	.53
43 D 2090 C	CK06*	5600 to 10,000	1.70	1.62	1.36	1.28	1.08

TYPE VK23 AND VK33 CERAMIC CAPACITORS



- Meet Military BW and CW Voltage-Temperature Specs
- Capacitance Varies Less Than +5, —8% from 0 to +85°C
- Available in ±10% and ±20% Capacity Tolerances

Famous "Vitramon" quality at low cost. Suitable for military, commercial and industrial applications. Recommended for computers, communications systems and instruments where capacitor is not directly exposed to hostile environments. Phenolic dipped. Rated 200 WVDC. Operating temperature —55°C to +125°C. Conforms to specification MIL-C-11015 environmental tests. Select the value desired from CK05 and CK06 table above, and be sure to specify when ordering. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Mmf (Specify Value)	Tol.	EACH 1-49	50-99	100-249	250-499	500-999
43 D 1982 C	VK23	10 to 1000	10%	.46	.44	.37	.35	.29
43 D 1983 C	VK23	10 to 1000	20%	.40	.38	.32	.30	.25
43 D 1984 C	VK33	1200 to 4700	10%	.50	.48	.40	.38	.31
43 D 1985 C	VK33	1200 to 4700	20%	.44	.42	.35	.33	.28
43 D 1986 C	VK33	5600 to 10,000	10%	.92	.87	.74	.69	.58
43 D 1987 C	VK33	5600 to 10,000	20%	.80	.76	.64	.60	.50

PLASTIC CAPACITORS, INC.

PLASTIC DIELECTRIC, GLASS-ENCASED CAPACITORS

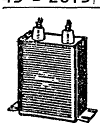
Extremely long life even under high temperature. Operate 10,000 hours at 85°C at rated voltage. Range: —55°C to +85°C; derate 60% at 150°C. Units meet or exceed MIL-C-25A specs, except high-altitude flashover. Tolerance: ±10%. Mounting terminals: 8-32x3/8" for capacitors 3/4" dia. or larger; smaller units have No. 18 tinned-copper axial pigtails.

Stock No.	Mfr's Type	Mfd	Size (Dia. x L.)	EACH 1-9	10-24	25-49	50-99	100-249
TYPE OF-20 2000 WVDC. Av. shpg. wt., 4 oz.								
43 D 6901	103	.01	1 9/32x1 9/16"	2.10	2.10	1.93	1.73	1.51
43 D 6902	203	.02	1 9/32x1 9/16"	2.10	2.10	1.93	1.73	1.51
43 D 6903	503	.05	3/4x1 3/4"	2.28	2.28	2.09	1.87	1.64
43 D 6904	104	.1	3/4x2 1/4"	2.33	2.33	2.14	1.91	1.67
43 D 6905	254	.25	29/32x2 3/4"	2.69	2.69	2.58	2.30	2.02
43 D 2800	504	.5	1 3/8x2"	3.22	3.22	3.08	2.75	2.42
TYPE OF-30 3000 WVDC. Av. shpg. wt., 6 oz.								
43 D 6909	103	.01	1 9/32x1 9/16"	2.46	2.46	2.30	2.13	1.62
43 D 6910	203	.02	3/4x1 3/4"	2.64	2.64	2.46	2.28	1.73
43 D 2801	503	.05	3/4x2 1/4"	2.70	2.70	2.51	2.33	1.77
43 D 6911	104	.1	1 1/8x1 3/4"	3.19	3.19	2.97	2.75	2.09
43 D 2802	254	.25	1 3/8x2"	3.75	3.75	3.48	3.21	2.55
43 D 2803	504	.5	1 5/8x2 3/4"	4.70	4.70	4.37	4.03	3.02
TYPE OF-50 5000 WVDC. Av. shpg. wt., 8 oz.								
43 D 6912	102	.001	1 9/32x1 9/16"	3.25	3.25	2.88	2.70	2.33
43 D 2807	502	.005	1 9/32x1 5/8"	3.30	3.30	2.91	2.72	2.35
43 D 6913	103	.01	3/4x1 3/4"	3.54	3.54	3.14	2.93	2.53
43 D 6914	203	.02	3/4x2 1/4"	3.61	3.61	3.20	2.99	2.58
43 D 6915	503	.05	29/32x2 1/4"	4.17	4.17	3.70	3.45	2.98
43 D 6916	104	.1	1 3/8x2 1/4"	4.84	4.84	4.53	4.22	3.62
43 D 2808	254	.25	1 5/8x3"	5.72	5.72	5.35	4.97	4.20
43 D 2809	504	.5	1 5/8x6"	7.73	7.73	7.22	6.71	5.68

TYPE OF-80 8000 WVDC. Av. shpg. wt., 1 lb., *3 lbs.

Stock No.	Mfr's Type	Mfd	Size (Dia. x L.)	EACH 1-9	10-24	25-49	50-99	100-249
43 D 6917	102	.001	1 9/32x1 9/16"	3.80	3.32	2.95	2.75	2.38
43 D 6918	502	.005	3/4x1 3/4"	4.12	3.61	3.20	2.99	2.57
43 D 2810	103	.01	3/4x2 1/4"	4.20	3.68	3.25	3.05	2.62
43 D 6919	203	.02	29/32x2 3/4"	5.00	4.38	3.88	3.62	3.12
43 D 6920	503	.05	1 3/8x2 3/4"	6.48	5.67	5.00	4.69	4.05
43 D 6921	104	.1	1 5/8x3 5/8"	7.76	6.63	6.22	5.58	4.77
TYPE OF-100 10000 WVDC. Av. shpg. wt., 1 1/2 lbs.								
43 D 6923	202	.002	3/4x1 9/32"	4.44	3.89	3.45	3.22	2.77
43 D 6925	103	.01	29/32x2 1/4"	5.28	4.62	4.09	3.83	3.30
43 D 6926	203	.02	1 1/8x2 3/4"	5.76	5.05	4.40	4.17	3.60
43 D 6927	503	.05	1 5/8x2 3/4"	8.16	7.13	6.32	5.92	5.10
43 D 2811	104	.1	1 5/8x5"	13.32	11.52	10.07	9.72	8.28
TYPE OF-200 20000 WVDC. Av. shpg. wt., 3 lbs.								
43 D 6930	102	.001	3/4x3 1/2"	8.63	7.85	7.09	6.47	5.47
43 D 6931	202	.002	13/16x3 1/2"	9.18	8.37	7.54	6.89	5.83
43 D 6932	502	.005	1 1/8x3 1/2"	11.16	10.14	9.15	8.37	7.17
43 D 2812	103	.01	1 1/8x4 1/2"	11.20	10.20	9.20	8.40	7.20
TYPE OF-300 30000 WVDC. Av. shpg. wt., 4 lbs.								
43 D 2813	502	.005	1 3/8x5"	15.85	14.30	13.05	12.12	10.27
43 D 2814	103	.01	1 5/8x6 1/2"	20.70	18.68	17.05	15.84	13.40
43 D 2815	203	.02	1 5/8x9"	22.54	21.08	18.70	17.25	14.85

HIGH-VOLTAGE FILTER CAPACITORS



Smaller than comparable CP-70 style. Range: —50°C to +60°C for 10,000 hours. MIL-C-25A dielectric resistance. Tolerance: —10%. +20%. With footed brackets; nuts and solder lugs on terminals.

TYPE EP30—3000 WVDC. Shpg. wt., 4 lbs., *7 lbs.

Stock No.	Mfr's Type	Mfd	Size	EACH 1-4	5-9	10-24	25-49	50-99
43 D 2827	504	.5	2 1/2x1 3/16x2 1/2"	5.45	5.45	3.90	3.52	3.25
43 D 2828	105	1.0	2 1/2x1 3/16x3 3/4"	6.33	6.33	4.52	4.07	3.77
43 D 2829	205*	2.0	3 3/4x1 1/4x4 1/2"	8.60	8.60	6.11	5.50	5.11
43 D 2830	405*	4.0	3 3/4x2 1/4x4 3/4"	13.00	13.00	9.37	8.40	7.80
43 D 2831	805*	8.0	4 9/16x3 3/4x4 3/4"	23.30	23.30	16.70	15.00	13.70
TYPE EP50—5000 WVDC. Shpg. wt., 4 lbs., *7 lbs.								
43 D 2834	504	.50	2 1/2x1 3/16x4"	6.43	6.43	4.60	4.13	3.83
43 D 2835	105*	1.0	3 3/4x1 3/4x3 3/4"	9.90	9.90	7.10	6.35	5.88
43 D 2836	205*	2.0	3 3/4x2 1/4x4 3/4"	14.65	14.65	10.42	9.40	8.70
43 D 2837	405*	4.0	4 9/16x3 3/4x4 3/4"	24.30	24.30	17.35	15.60	14.40
TYPE EP100—10000 WVDC. Shpg. wt., *10 lbs.								
43 D 2845	105	1.0	4 9/16x3 3/4x5 1/2"	28.00	28.00	20.00	17.98	16.63
43 D 2846	205	2.0	4 9/16x3 3/4x10"	49.50	49.50	35.40	31.80	29.40

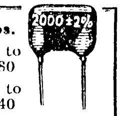
Arco-Elmenco Mica Capacitors

DM DIPPED "DUR-MICA" SILVERED MICA CAPACITORS

SIZE CHART (INCHES)

Dual-Marked With MIL and Commercial Type Nos.

DM-10	.360x.330x.190 to .390x.380x.220	**DM-19/ CMO6**	.650x.520x.220 to .680x.550x.280
DM-15/ CMO5	.450x.360x.170 to .490x.420x.240	**DM-30/ CMO7**	.780x.870x.300 to .800x.890x.340

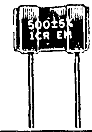


Special extra-tough epoxy coating resists extreme humidity and moisture. All are rated 500 WVDC, except †300 WVDC and §100 WVDC. Operate in temperatures from —55°C to +150°C without derating. Compact size of these capacitors makes them very suitable for delay lines, computers, test equipment, missiles, etc. Capacitance drift ±(.05%, +.1 mmf) (Char. F). Meet or exceed MIL-C-5C and RETMA specifications for mica capacitors. Tolerance, ±5%, except *±5 mmf. See Size Chart above for approximate dimensions. Av. shpg. wt., 2 oz. **Units are dual-marked in both MIL and Commercial Type Nos. (except DM-10).**

Equivalent Types Available, See Page 177

Stock No.	Mfr's Type	Mmf	EACH 1-24	25-99	100-499	500-999	1000-4999
43 D 2352	DM-10-030K*	3	.18	.17	.11	.09	.081
43 D 2353	DM-10-050K*	5	.18	.17	.11	.09	.081
43 D 2354	DM-10-100J	10	.27	.24	.16	.135	.121
43 D 2356	DM-10-150J	15	.27	.24	.16	.135	.121
43 D 2358	DM-10-200J	20	.23	.21	.14	.115	.104
43 D 2359	DM-10-220J	22	.23	.21	.14	.115	.104
43 D 2361	DM-10-270J	27	.23	.21	.14	.115	.104
43 D 2363	DM-10-330J	33	.23	.21	.14	.115	.104
43 D 2367	DM-10-470J	47	.26	.24	.16	.125	.117
43 D 2368	DM-10-500J	50	.26	.24	.16	.125	.117
43 D 2372	DM-10-680J	68	.26	.24	.16	.125	.117
43 D 2373	DM-10-750J	75	.26	.24	.16	.125	.117
43 D 2376	DM-10-101J	100	.26	.24	.16	.125	.117
43 D 2378	DM-10-121J	120	.30	.27	.18	.15	.135
43 D 2380	DM-10-151J	150	.33	.30	.20	.165	.149
43 D 2383	DM-10-201J	200	.40	.36	.24	.20	.180
43 D 2384	DM-10-221J	220	.43	.39	.25	.215	.194
43 D 2386	DM-10-251J	250	.46	.42	.28	.23	.207
43 D 2388	DM-10-301J	300†	.50	.45	.30	.25	.224
43 D 0716	DM-15-010M*	1	.17	.15	.10	.084	.075
43 D 0717	DM-15-020M*	2	.17	.15	.10	.084	.075
43 D 0718	DM-15-030M*	3	.17	.15	.10	.084	.075
43 D 0719	DM-15-050K*	5	.17	.15	.10	.084	.075
43 D 0720	DM-15-100J	10	.17	.15	.10	.084	.075
43 D 0721	DM-15-120J	12	.17	.15	.10	.084	.075
43 D 0722	DM-15-150J	15	.17	.15	.10	.084	.075
43 D 0724	DM-15-200J	20	.17	.15	.10	.084	.075
43 D 0725	DM-15-220J	22	.17	.15	.10	.084	.075
43 D 0727	DM-15-270J	27	.17	.15	.10	.084	.075
43 D 0728	DM-15-300J	30	.17	.15	.10	.084	.075
43 D 0729	DM-15-330J	33	.17	.15	.10	.084	.075
43 D 0731	DM-15-390J	39	.17	.15	.10	.084	.075
43 D 0733	DM-15-470J	47	.17	.15	.10	.084	.075
43 D 0734	DM-15-500J	50	.17	.15	.10	.084	.075
43 D 0738	DM-15-680J	68	.17	.15	.10	.084	.075
43 D 0739	DM-15-750J	75	.17	.15	.10	.084	.075
43 D 0740	DM-15-820J	82	.17	.15	.10	.084	.075
43 D 0742	DM-15-101J	100	.17	.15	.10	.084	.075
43 D 0744	DM-15-121J	120	.20	.18	.12	.10	.09
43 D 0746	DM-15-151J	150	.20	.18	.12	.10	.09
43 D 0748	DM-15-181J	180	.23	.21	.14	.115	.104
43 D 0749	DM-15-201J	200	.23	.21	.14	.115	.104
43 D 0750	DM-15-221J	220	.26	.24	.16	.13	.117
43 D 0752	DM-15-251J	250	.26	.24	.16	.13	.117
43 D 0753	DM-15-271J	270	.30	.27	.18	.15	.135
43 D 0754	DM-15-301J	300	.30	.27	.18	.15	.135
43 D 0755	DM-15-331J	330	.33	.30	.20	.165	.149
43 D 0756	DM-15-361J	360	.33	.30	.20	.165	.149
43 D 0757	DM-15-391J	390	.37	.33	.22	.183	.164
43 D 0759	DM-15-471J	470	.40	.36	.24	.20	.180
43 D 0760	DM-15-501J	500	.40	.36	.24	.20	.180
43 D 0761	DM-15-511J	510	.40	.36	.24	.20	.180
43 D 0762	DM-15-561J	560†	.43	.39	.26	.215	.194
43 D 0764	DM-15-681J	680†	.50	.45	.30	.25	.225
43 D 0765	DM-15-751J	750†	.53	.48	.31	.265	.239
43 D 0766	DM-15-821J	820†	.56	.51	.34	.28	.252
43 D 0768	DM-15-102J	1000§	.66	.60	.40	.33	.297
43 D 0770	DM-19-102J	1000	.46	.42	.28	.23	.207
43 D 0772	DM-19-122J	1200	.50	.45	.30	.25	.225
43 D 0774	DM-19-152J	1500	.57	.51	.35	.285	.257
43 D 0777	DM-19-202J	2000	.73	.66	.43	.363	.325
43 D 0780	DM-19-252J	2500	.89	.81	.54	.445	.400
43 D 2404	DM-30-502J	5000	1.16	1.04	.69	.58	.522
43 D 2407	DM-30-622J	6200	1.25	1.13	.75	.625	.562
43 D 0822	DM-30-103J	10,000	1.98	1.79	1.19	.99	.891

SCDM THIN-COAT DIPPED MICAS



Ideal where space is at a premium. Single resin coat instead of series of dips. Meet MIL-C-5 except for case insulation (3.5.3) and moisture resistance (3.14). Operate well where not exposed to extensive periods of high humidity. 500 WVDC except *300 WVDC and †100 WVDC. Tol., ±5%. Av. shpg. wt., 2 oz.

Stock No.	Type SCDM-	Mmf	Size (LxWxT) (Inches)	EACH 1-24	25-99	100-499	500-999	1000-4999
43 D 0625	10-030M	3	.310x.230x.120	.18	.17	.11	.09	.081
43 D 0626	10-050K	5	.310x.230x.120	.18	.17	.11	.09	.081
43 D 0627	10-100J	10	.310x.230x.120	.18	.18	.11	.09	.081
43 D 0628	10-150J	15	.310x.230x.120	.27	.24	.16	.135	.121
43 D 0629	10-200J	20	.310x.230x.120	.23	.21	.14	.115	.104
43 D 0630	10-220J	22	.310x.230x.120	.23	.21	.14	.115	.104
43 D 0631	10-270J	27	.310x.230x.120	.23	.21	.14	.115	.104
43 D 0632	10-330J	33	.310x.230x.120	.23	.21	.14	.115	.104
43 D 0633	10-390J	39	.310x.230x.120	.23	.21	.14	.115	.104
43 D 0634	10-470J	47	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0635	10-500J	50	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0636	10-560J	56	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0637	10-680J	68	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0671	10-750J	75	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0672	10-820J	82	.310x.230x.120	.26	.24	.16	.13	.117
43 D 0673	10-101J	100	.320x.230x.130	.26	.24	.16	.13	.117
43 D 0674	10-121J	120	.320x.230x.130	.30	.27	.18	.15	.135
43 D 0675	10-151J	150	.320x.230x.130	.33	.30	.20	.165	.149
43 D 0676	10-181J	180	.330x.240x.150	.40	.36	.24	.20	.180
43 D 0677	10-201J	200	.330x.240x.150	.40	.36	.24	.20	.180
43 D 0678	10-221J	220	.330x.240x.150	.43	.39	.26	.215	.194
43 D 0679	10-251J	250	.340x.250x.160	.46	.42	.28	.23	.207
43 D 0680	10-271J	270	.340x.250x.160	.46	.42	.28	.23	.207
43 D 0681	10-301J	300*	.340x.250x.160	.50	.45	.30	.25	.225
43 D 0682	10-331J	330	.340x.250x.160	.50	.45	.30	.25	.225
43 D 0683	10-361J	360	.340x.250x.160	.53	.48	.32	.265	.239
43 D 0689	10-391J	390†	.340x.250x.160	.56	.51	.34	.28	.252
43 D 0692	15-471J	470	.450x.310x.190	.40	.36	.24	.20	.180
43 D 0693	15-501J	500	.450x.310x.190	.40	.36	.24	.20	.180
43 D 0699	15-511J	510	.450x.310x.190	.40	.36	.24	.20	.180
43 D 0700	15-561J	560*	.450x.310x.160	.43	.39	.26	.215	.194
43 D 0701	15-681J	680*	.450x.310x.160	.50	.45	.30	.25	.225
43 D 0705	15-751J	750*	.450x.310x.170	.53	.48	.32	.265	.239
43 D 0706	15-821J	820*	.450x.310x.170	.56	.51	.34	.28	.252
43 D 0707	15-102J	1000†	.450x.320x.170	.66	.60	.40	.33	.297

CM MOLDED SILVERED MICAS

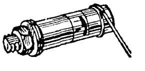
Meet MIL-C-5, EIA RS-153. Phenolic cases. 500 WVDC, except *300. Tol , ±5%. Middle letter in Type No. is temp. coeff. C: ±200 parts/million/°C. D: ±10 parts. E: —20, +100 parts. Shpg. wt., 2 oz.

Stock No.	Mfr's T7pe	Mmf	EACH 1-24	25-99	100-499	500-999	1000-4999
43 D 0427	CM-15-C-050J	5	.18	.17	.11	.09	.081
43 D 0428	CM-15-C-100J	10	.18	.17	.11	.09	.081
43 D 0436	CM-15-C-150J	15	.18	.17	.11	.09	.081
43 D 0438	CM-15-C-200J	20	.18	.17	.11	.09	.081
43 D 0469	CM-15-E-330J	33	.18	.17	.11	.09	.081
43 D 0473	CM-15-E-470J	47	.18	.17	.11	.09	.081
43 D 0474	CM-15-E-500J	50	.18	.17	.11	.09	.081
43 D 0480	CM-15-E-680J	68	.18	.17	.11	.09	.081
43 D 0479	CM-15-E-820J	82	.18	.17	.11	.09	.081
43 D 0497	CM-15-E-101J	100	.18	.17	.11	.09	.081
43 D 0499	CM-15-E-121J	120	.21	.19	.13	.105	.095
43 D 0515	CM-15-E-151J	150	.21	.19	.13	.105	.095
43 D 0518	CM-15-E-201J	200	.24	.22	.15	.12	.108
43 D 0519	CM-15-E-221J	220	.27	.25	.17	.135	.122
43 D 0543	CM-15-E-251J	250	.27	.25	.17	.135	.122
43 D 0544	CM-15-E-271J	270	.30	.27	.18	.15	.135
43 D 0545	CM-15-E-301J	300	.30	.27	.18	.15	.135
43 D 0546	CM-15-E-331J	330	.33	.30	.20	.165	.149
43 D 0548	CM-15-E-391J	390	.39	.36	.26	.195	.176
43 D 0554	CM-15-E-471J	470	.42	.38	.26	.21	.189
43 D 0555	CM-15-E-501J	500	.42	.38	.25	.21	.189
43 D 0566	CM-20-D-681J	680	.36	.33	.22	.18	.112
43 D 0568	CM-20-D-821J	820	.39	.35	.23	.195	.176
43 D 0583	CM-20-E-102J	1000	.42	.38	.26	.21	.189
43 D 0587	CM-20-E-152J	1500	.51	.46	.31	.255	.230
43 D 0594	CM-20-E-202J	2000	.66	.60	.40	.33	.297
43 D 0622	CM-20-E-252J	2500	.78	.71	.47	.39	.351
43 D 0619	CM-20-E-332J	3300	.96	.85	.58	.48	.432
43 D 0621	CM-20-E-392J*	3900	1.08	.98	.65	.54	.486
43 D 0623	CM-20-E-472J*	4700	1.20	1.08	.72	.60	.54
43 D 0624	CM-20-E-502J*	5000	1.26	1.14	.76	.63	.567
43 D 0639	CM-30-E-562J	5600	1.26	1.14	.76	.63	.567
43 D 0641	CM-35-E-682J*	6800	1.32	1.19	.79	.66	.594
43 D 0645	CM-35-E-103J*	10,000	1.86	1.68	1.12	.93	.837
43 D 0686	VCM-35-E-103J	10,000	2.04	1.84	1.23	1.02	.918

JFD Tubular Trimmer Piston Capacitors

Precision-bore solid dielectric, with anti-corrosion metalizing. Meet MIL-C-14409B. Glass types usable from —55° to +125°C (Q 500 min. @ 20 mc); quartz, —55° to +150°C (Q 1500 min. @ 20 mc). Five dielectric materials and matched metalizing for homogeneous bond of metalizing to dielectric. Low T.C., low loss and inductance. High shock and vibration resistance. Green Glass "N" prefix units with higher Q increase delta C's 50% over other similar-size units, and include Hi-Life "Y" mechanism. Low-cost "Y" suffix units combine Hi-Life mechanism with standard glass dielectric; interchangeable with corresponding std. units.

NVC/VC GLASS AND NMQ QUARTZ MINIATURE TRIMMERS



Telescoping assembly for 50% savings in length. Positive stops at both ends. NVC and VC glass dielectric, 1/4" dia. NMQ quartz dielectric, 5/16" dia. Y Series interchangeable with standard VC, and NMQ with standard MQ with added features of longer life and lower cost. Use production tool 7104-5, opposite page. Av. 1 oz.

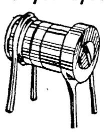
PANEL MOUNT TYPES

Stock No.	Mfr's Type	Cap., Mmf Min.-Max.	Lgth., In.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 6125	NVC20G	0.8-11.0	35/64	4.20	3.80	3.40	3.00	2.70
43 D 6126	NVC21G	0.8- 5.5	19/64	3.80	3.40	3.05	2.65	2.40
43 D 6127	NVC22G	0.8-16.0	3/4	4.80	4.30	3.85	3.35	3.05
43 D 6128	NVC23G	0.8-23.0	63/64	5.40	4.85	4.35	3.80	3.45
43 D 6129	NVC24G	1.0-38.0	1 19/32	6.00	5.40	4.85	4.25	3.80
43 D 6425	VC20GY	0.8- 8.5	35/64	3.40	3.05	2.70	2.25	2.15
43 D 6424	VC21GY	0.8- 4.5	19/64	3.20	2.95	2.50	2.10	2.00
43 D 6426	VC22GY	0.8-12.0	3/4	3.75	3.40	2.95	2.45	2.35
43 D 6427	VC23GY	0.8-18.0	63/64	4.35	3.95	3.40	2.85	2.70
43 D 6428	VC24GY	1.0-30.0	1 19/32	4.55	4.15	3.60	3.05	2.90
43 D 6134	NMQ101	0.6- 1.8	19/64	5.00	4.50	4.05	3.55	3.25
43 D 6135	NMQ103	0.6- 5.5	35/64	5.60	5.05	4.55	4.00	3.65
43 D 6136	NMQ106	0.6- 9.5	63/64	7.40	6.65	6.00	5.25	4.75
43 D 6137	NMQ109	0.8-16.0	1 19/32	9.20	8.30	7.45	6.55	5.85

PRINTED CIRCUIT TYPES—*Lug, †Wire Mtg.

Stock No.	Mfr's Type	Cap., Mmf Min.-Max.	Lgth., In.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 6138	†NVC9GW	0.8-11.0	9/16	3.80	3.40	3.05	2.65	2.40
43 D 6139	†NVC10GW	0.8- 5.5	5/16	3.40	3.05	2.75	2.40	2.15
43 D 6145	†NVC31GW	0.8-16.0	49/64	4.40	3.95	3.55	3.10	2.80
43 D 6146	†NVC32GW	0.8-23.0	1	5.00	4.50	4.05	3.55	3.25
43 D 6147	†NVC43GW	1.0-38.0	1 39/64	5.60	5.05	4.55	4.00	3.65
43 D 6433	†VC9GWY	0.8- 8.5	9/16	3.00	2.75	2.40	2.00	1.90
43 D 6430	†VC10GWY	0.8- 4.5	5/16	2.80	2.60	2.20	1.85	1.75
43 D 6436	†VC31GWY	0.8-12.0	49/64	3.35	3.05	2.65	2.20	2.10
43 D 6439	†VC32GWY	0.8-18.0	1	3.95	3.60	3.10	2.60	2.45
43 D 6441	†VC43GWY	1.0-30.0	1 39/64	4.15	3.80	3.30	2.80	2.65
43 D 6148	*NVC9G	0.8-11.0	9/16	3.80	3.40	3.05	2.65	2.40
43 D 6149	*NVC10G	0.8- 5.5	5/16	3.40	3.05	2.75	2.40	2.15
43 D 6154	*NVC31G	0.8-16.0	49/64	4.40	3.95	3.55	3.10	2.80
43 D 6155	*NVC32G	0.8-23.0	1	5.00	4.50	4.05	3.55	3.25
43 D 6156	*NVC43G	1.0-38.0	1 39/64	5.60	5.05	4.55	4.00	3.65
43 D 6431	*VC9GY	0.8- 8.5	9/16	3.00	2.75	2.40	2.00	1.90
43 D 6429	*VC10GY	0.8- 4.5	5/16	2.80	2.60	2.20	1.85	1.75
43 D 6435	*VC31GY	0.8-12.0	49/64	3.35	3.05	2.65	2.20	2.10
43 D 6438	*VC32GY	0.8-18.0	1	3.95	3.60	3.10	2.60	2.45
43 D 6440	*VC43GY	1.0-30.0	1 39/64	4.15	3.80	3.30	2.80	2.65
43 D 6157	*NMQ111	0.6- 1.8	5/16	4.60	4.15	3.75	3.30	2.95
43 D 6158	*NMQ113	0.6- 5.5	9/16	5.20	4.70	4.20	3.70	3.35
43 D 6159	*NMQ116	0.6- 9.5	1	7.00	6.30	5.65	4.95	4.45
43 D 6184	*NMQ119	0.8-16.0	1 5/8	8.80	7.90	7.10	6.20	5.60
43 D 6185	†NMQ121	0.6- 1.8	5/16	4.60	4.15	3.75	3.30	2.95
43 D 6190	†NMQ123	0.6- 5.5	9/16	5.20	4.70	4.20	3.70	3.35
43 D 6191	†NMQ126	0.6- 9.5	1	7.00	6.30	5.65	4.95	4.45
43 D 6192	†NMQ129	0.8-16.0	1 39/64	8.80	7.90	7.10	6.20	5.60

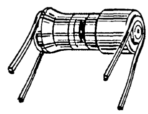
SCY/NSC/NQ S SEALCAP MINIATURE PANEL-MOUNT SERIES



Sealed against moisture, atmospheric effects, corona and voltage breakdown. SCY (glass), NQS (quartz), NSC (High-K, High-Q Green Glass) miniature panel mount. Hi-Life adjustment mechanism has 500-cycle adjustment life, exceeding MIL-C-14409B by 600%. "Y" series SC interchangeable with standard SC series and NQS with QS. NSC has 50% greater delta C than SC, and superior Q. NQS has longer-adjustment-life mechanism and TC 25 ±25. Use production tool 7104-5, opposite page. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Cap., Mmf Min.-Max.	Lgth., In.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 6193	NSC131	0.8- 5.5	23/64	4.60	4.15	3.75	3.30	2.95
43 D 6194	NSC133	0.8-11.0	19/32	5.00	4.50	4.05	3.55	3.25
43 D 6195	NSC134	0.7-16.0	13/16	5.60	5.05	4 55	4.00	3.65
43 D 6196	NSC136	0.8-23.0	1 1/16	6.20	5.60	5.05	4.45	4.05
43 D 6197	NSC139	1.0-38.0	1 21/32	6.80	6.10	5.50	4.80	4.35
43 D 6460	SC131Y	0.8- 4.5	23/64	3.80	3.40	3.05	2.65	2.40
43 D 6461	SC133Y	0.8- 8.5	19/32	4.00	3.60	3.25	2.85	2.55
43 D 6462	SC134Y	0.8-12.0	13/16	4.40	3.95	3.55	3.10	2.80
43 D 6463	SC136Y	0.8-18.0	1 1/16	5.00	4.50	4.05	3.55	3.25
43 D 6464	SC139Y	1.0-30.0	1 21/32	5.20	4.70	4.20	3.70	3.35
43 D 6198	NQS171	0.6- 1.8	23/64	7.00	6.30	5.65	4.95	4.45
43 D 6199	NQS173	0.6- 5.5	19/32	7.60	6.80	6.10	5.30	4.80
43 D 6200	NQS176	0.6- 9.5	1 1/16	9.40	8.45	7.65	6.70	6.10
43 D 6202	NQS179	0.8-16.0	1 21/32	11.20	10.10	9.10	8.00	7.30

MAX-C EXTENDED-RANGE SERIES



Max-C embedded electrode technique gives three times more capacity than standard metalizing in standard glass. All units sealed. "Y" Series MC is interchangeable with standard MC Series, offers longer adjustment life and lower cost. "N" series has approximately 50% greater delta C and Hi-Life mechanism. Use production tool 7104-5. Av., 1 oz.

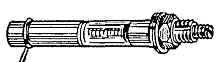
PANEL MOUNT TYPES

Stock No.	Mfr's Type	Cap., Mmf. Min.-Max.	Lgth., In.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 6203	NMC601	1.0-16.0	15/32	10.20	9.20	8.30	7.30	6.60
43 D 6204	NMC603	1.0-36.0	45/64	10.50	9.45	8.50	7.45	6.75
43 D 6206	NMC604	1.0-52.0	59/64	10.80	9.70	8.70	7.60	6.90
43 D 6207	NMC606	1.0-75.0	1 11/64	11.40	10.25	9.25	8.10	7.40
43 D 6208	NMC609	1.0-120.0	1 49/64	12.60	11.35	10.20	8.95	8.10
43 D 6465	MC601Y	1.0-14.0	15/32	6.20	5.60	5.05	4.45	4.05
43 D 6466	MC603Y	1.0-28.0	45/64	6.50	5.85	5.25	4.60	4.20
43 D 6467	MC604Y	1.0-42.0	59/64	6.80	6.10	5.50	4.80	4.35
43 D 6468	MC606Y	1.0-60.0	1 11/64	7.40	6.65	6.00	5.25	4.75
43 D 6469	MC609Y	1.0-90.0	1 49/64	8.60	7.75	7.00	6.15	5.50

PRINTED CIRCUIT BOARD TYPES

Stock No.	Mfr's Type	Cap., Mmf. Min.-Max.	Lgth., In.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 6209	NMC621	1.0-16.0	.750	10.20	9.20	8.30	7.30	6.60
43 D 6210	NMC623	1.0-36.0	.990	10.50	9.45	8.50	7.45	6.75
43 D 6211	NMC624	1.0-52.0	1.205	10.80	9.70	8.70	7.60	6.90
43 D 6213	NMC626	1.0-75.0	1.450	11.40	10.25	9.25	8.10	7.40
43 D 6215	NMC629	1.0-120.0	2.050	12.60	11.35	10.20	8.95	8.10
43 D 6470	MC621Y	1.0-14.0	.750	6.20	5.60	5.05	4.45	4.05
43 D 6471	MC623Y	1.0-28.0	.990	6.50	5.85	5.25	4.60	4.20
43 D 6472	MC624Y	1.0-42.0	1.205	6.80	6.10	5.50	4.80	4.35
43 D 6473	MC626Y	1.0-60.0	1.450	7.40	6.65	6.00	5.25	4.75
43 D 6474	MC629Y	1.0-90.0	2.050	8.60	7.75	7.00	6.15	5.50

STANDARD PANEL-MOUNT SERIES

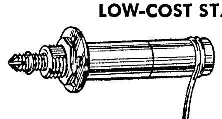


With Long-Life Adjustment Mechanism

Available in glass, quartz and new Green Glass with improved long-life adjustment mechanism. VC99 is designed for unusually high-voltage and power RF use: has closed end to prevent arcing at high altitudes. Rated 5000 WVDC. Use production tool 7104-1 on opposite page. *Glass, †Quartz, ‡Green Glass. All are 1/4" dia. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Cap., Mmf. Min.-Max.	EACH 1-24	25-49	50-99	100-199	200-299	300-499
43 D 6453	*VC25G	0.5-3.0	1.74	1.55	1.35	1.14	1.14	1.09
43 D 6447	*VC1GC	0.7-9.0	1.66	1.50	1.34	1.12	1.12	1.07
43 D 6448	*VC26G	0 7-9.0	1.74	1.55	1.35	1.14	1.14	1.09
43 D 6450	*VC27G	0.8-18.0	1.80	1.60	1.42	1.20	1.20	1.12
43 D 6449	*VC4G	0.8-18.0	1.70	1.53	1.35	1.13	1.13	1.08
43 D 6451	*VC28G	0.8-30.0	2.00	1.80	1.55	1.30	1.30	1.22
43 D 6216	‡NVC25G	0.5-4.5	2.50	2.25	2.00	1.75	1.75	1.60
43 D 6217	‡NVC26G	0.8-13.0	2.60	2.35	2.10	1.85	1.85	1.65
43 D 6218	‡NVC27G	1.0-24.0	3.00	2.70	2.40	2.10	2.10	1.85
43 D 6219	‡NVC28G	1.0-40.0	3.40	3.05	2.75	2.40	2.40	2.15
43 D 6005	†VC2	0.7-4.5	4.35	3.91	3.91	3.62	3.26	.....
43 D 6000	†VC5	0.6-6.0	5.25	4.72	4.72	4.37	3.94	.....
43 D 6001	†VC11	0.8-10.0	6.00	5.40	5.40	5.00	4.50	.....
43 D 6007	†VC12	0.9-21.0	7.95	7.15	7.15	6.62	5.96	.....
43 D 6220	†VC99	0.8-10.0	8.55	7.69	7.69	7.12	6.41	.....

LOW-COST STANDARD PANEL MOUNTS



Glass and ceramic dielectric direct-traverse trimmers. For commercial and industrial applications not requiring MIL specs. Positive spring-loaded torque mechanism. No split bushings to cause erratic tuning, noise or short adjustment life. Std. panel mount construction. Dia. 17/64" except †1/4". Glass, except *ceramic dielectric. Use Production Tool #7104-1, opposite page. Av. shpg. wt., 1 oz.

PANEL MOUNTING TYPES

Stock No.	Mfr's Type VC-	Mmf Range	WV DC	Body Length Inches	EACH 1-24	25-99	100-199	200-299
43 D 6442	54G	0.8—13.0	2500	1 3/16	1.65	1.48	1.37	1.24
43 D 6443	55C*	5.0—50.0	1250	1	1.95	1.75	1.62	1.46
43 D 6444	57G†	1.0—12.0	750	1	.99	.89	.83	.74

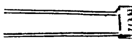
PRINTED CIRCUIT BOARD TYPES

Stock No.	Mfr's Type VC-	Mmf Range	WV DC	Body Length Inches	EACH 1-24	25-99	100-199	200-299
43 D 6445	56C*	5.0—50.0	1250	1 13/64	1.95	1.75	1.62	1.46
43 D 6446	58G†	1.0—12.0	750	1 13/64	.99	.89	.83	.74

JFD Trimmer and Fixed Uniceram Capacitors

NEW HIGH-K UNICERAM CAPACITORS (±10% TOLERANCE)

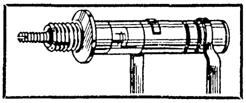
Offer greatly increased capacitance per unit volume (up to 1 mfd)². Ceramic multi-layer unit construction and glass encapsulated package. Meet or exceed MIL-C-11015C. Rated 50 WVDC. TC of +5%, −15% from −30° C to +125° C. Dissipation factor at 25° C, 1 kc; 3% max. Test VDC, 300% rated. Insulation resistance 10^5 megohms or 100 ohm-farads, whichever is less. Av. shpg. wt., 1 oz.



ACTUAL SIZE

Stock No.	Type UY-	Mfd.	EACH 1-49	50-99	100-249	250-499	500-999
43 D 0147	12102K	.001	2.25	2.03	1.76	1.50	1.13
43 D 0363	12222K	.0022	2.31	2.06	1.80	1.54	1.14
43 D 0364	12472K	.0047	2.31	2.06	1.80	1.54	1.14
43 D 0149	12103K	.01	2.40	2.16	1.86	1.59	1.20
43 D 0365	14223K	.022	3.19	2.87	2.49	2.14	1.59
43 D 0369	14473K	.047	3.46	3.21	2.78	2.38	1.78
43 D 0151	14104K	.1	4.22	3.81	3.30	2.81	2.12
43 D 0370	15224K	.22	6.56	5.91	5.12	4.39	3.28
43 D 0371	15474K	.47	10.78	9.71	8.42	7.20	5.40

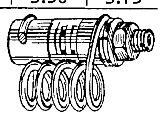
HIGH-RELIABILITY LC TUNERS



Combine a precision variable-piston capacitor with a coaxial metallized inductor on the same low-loss dielectric glass form. Three connections: common, inductor, and adjustable piston of trimmer (through bushing) for either series or parallel resonance. Panel-mount type with mounting stud for piston connection. Q greater than 135. Panel mounts, ¼x⁴¹⁄₆₄" to 1⁵⁄₆₄" long, ¼" bushing. *Self-resonating frequency range in megacycles. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mc*	EACH 1-24	25-99	100-199	200-299
43 D 6214	LC-303	400-725	4.65	4.18	3.87	3.49
43 D 6346	LC-304	275-550	4.80	4.32	4.00	3.60
43 D 6349	LC-306	200-500	4.95	4.45	4.12	3.71
43 D 6393	LC-309	125-375	5.40	4.86	4.50	4.05
43 D 6398	LC-333	400-725	3.60	3.24	3.00	2.70
43 D 6399	LC-334	275-550	3.75	3.37	3.12	2.81
43 D 6401	LC-336	200-500	4.05	3.64	3.37	3.04
43 D 6402	LC-339	125-375	4.20	3.78	3.50	3.15

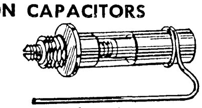
MINIATURE TANK CIRCUITS



Precision-wound air core coil across a miniature trimmer piston capacitor. Cost is little more than cost of trimmer alone with only one unit to mount instead of two. Nominal Q of 230. Trimmer varies from 0.8 to 8.5 mmf. ⁹⁄₁₆x½x¼" with 10-32x¼" bushing. *Self-resonant freq. range. 2 oz.

Stock No.	Mfr's Type	Range* Mc	EACH 1-24	25-99	100-199	200-299
43 D 6115	LC371	450-1000	4.05	3.64	3.37	3.04
43 D 6116	LC372	280-765	4.05	3.64	3.37	3.04
43 D 6117	LC373	225-580	4.05	3.64	3.37	3.04
43 D 6118	LC374	190-485	4.05	3.64	3.37	3.04
43 D 6119	LC375	170-415	4.05	3.64	3.37	3.04

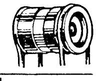
PC35H SERIES TRIMMER PISTON CAPACITORS



Highly popular piston-trimmer capacitors. Performance-proven in thousands of applications on land, sea, in the air, and in space. All are panel mounting type; have ¼-32 mounting bushing. Rated at 500 WVDC. Units meet or exceed performance and environmental requirements of MIL-C-14409B. All have single, 1½" long. No. 22 wire lead. Tunes with any fine tip screwdriver. 2 oz.

Stock No.	MIL Type No.	Min. Mmf	Max. Mmf	Body Size Dia. x L.	EACH 1-24	25-99	100-199	200-299
43 D 7008	PC35H030	0.5	3	⅜x¾"	3.75	3.37	3.12	2.81
43 D 7009	PC35H080	1	8	⅜x⅞"	4.20	3.78	3.50	3.15
43 D 7010	PC35H160	1	16	⅜x1⁹⁄₃₂"	4.65	4.18	3.87	3.49
43 D 7011	PC35H300	1	30	⅜x1⅞"	4.95	4.45	4.12	3.71

VC900 SUBMINIATURE PISTON TRIMMERS



Extremely small size with very wide Delta C. "Hi-Life" telescopic mechanism. Temp. Coeff., ±50 ppm/°C. *Panel mount; others printed circuit mt. 500 WVDC.

Stock No.	Mfr's Type	Min. Mmf	Max. Mmf	Body Lgth.	EACH 1-24	25-99	100-199	200-299	300-499
43 D 6778	VC950	1.0	10.0	1⁷⁄₆₄"*	3.30	2.85	2.60	2.35	2.10
43 D 6779	VC951	1.2	16.0	⁵⁄₁₆"*	4.10	3.54	3.30	3.00	2.85
43 D 6781	VC960	1.0	10.0	1⁷⁄₆₄"*	3.30	2.85	2.60	2.35	2.10
43 D 6783	VC961	1.2	16.0	⁵⁄₁₆"	4.10	3.54	3.30	3.00	2.85

TUNING TOOLS

Stk. No.	Type	Description	Oz.	EACH
43 D 6481	7104-1	.115" aperture, internal .019" screw blade	6	2.50
43 D 6454	5284	.015" screwdriver and .050" hex wrench	5	.85

NEW HIGH-Q UNICERAM CAPACITORS (±5% TOLERANCE)

ACTUAL SIZE

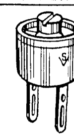
Microminiature multi-layer ceramic dielectric capacitors. Up to 10 times more capacitance-to-unit-volume-ratio than competitive units, up to .206 mfd/in.³. Meet or exceed MIL-C-11272B. Encapsulated in glass with bonded solid silver ribbon leads for low inductance (or round, wire leads on Special Order). Drift-free, low TC of 95 ±20 PPM stability and reliability plus high Q. Low dissipation factor, .0002. No derating, −55°C to +125°C. 300 WVDC, *except 200 WVDC. Max. Size: UY01, ⁹⁄₆₄" sq.; UY02 ¹¹⁄₆₄" sq.; UY03, ⁷⁄₃₂" sq.; UY05, ⁷⁄₁₆" sq. and ³⁄₃₂" thick. UY04, ⁹⁄₃₂" sq. x ⅛" thick. Av. wt., 1 oz.

CAPACITANCE RANGE—SPECIFY MMF AND TOLERANCE

1.0	3.9	7.5	15	30	56	110	220	430	820	1600
1.5	4.3	8.2	16	33	62	120	240	470	910	1800
2.2	4.7	9.1	18	36	68	130	270	510	1000	2000
2.7	5.1	10	20	39	75	150	300	560	1100	2200
3.0	5.6	11	22	43	82	160	330	620	1200	2400
3.3	6.2	12	24	47	91	180	360	680	1300	2700
3.6	6.8	13	27	51	100	200	390	750	1500	3000

Stock No.	Mfr's Type	Mmf Range, Specify	EACH 1-49	50-99	100-249	250-499	500-999
43 D 0100 C	UY01	1 to 4.7	1.98	1.78	1.54	1.31	.99
43 D 0101 C	UY01	5.1 to 24	2.00	1.80	1.56	1.34	1.00
43 D 0102 C	UY01	27 to 62	2.10	1.89	1.64	1.40	1.05
43 D 0112 C	UY02	5.1 to 12	1.91	1.71	1.49	1.28	.95
43 D 0113 C	UY02	13 to 39	1.98	1.78	1.54	1.31	.99
43 D 0114 C	UY02	43 to 82	2.00	1.80	1.56	1.34	1.00
43 D 0115 C	UY02	91 to 130	2.06	1.86	1.61	1.38	1.04
43 D 0157 C	UY03	150 to 200	2.13	1.91	1.66	1.43	1.06
43 D 0118 C	UY03	220 to 300	2.25	2.03	1.75	1.50	1.13
43 D 0103 C	UY03	330 to 470	2.48	2.23	1.93	1.65	1.24
43 D 0107 C	UY04	510 to 680	2.81	2.51	2.20	1.88	1.41
43 D 0108 C	UY04	750 to 1000*	3.13	2.81	2.44	2.09	1.56
43 D 0111 C	UY05	1100 to 1500	4.06	3.66	3.18	2.71	2.04
43 D 0119 C	UY05	1600 to 2000	4.38	3.94	3.41	2.93	2.19
43 D 0105 C	UY05	2200 to 3000	5.16	4.64	4.03	3.45	2.58

NEW STANDARD VARIABLE DISC TRIMMERS

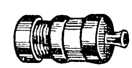


Low cost, miniature ceramic trimmer capacitors have piston-type tuning, come in 4 temperature coefficients and 4 mounting types. Type PS has short crimped printed circuit leads; Type A has axial leads; Type P has standard printed circuit leads; Type PR has right angle printed circuit leads. Size, .375" dia.x.275" deep.

Range Mmf	Type DV01-	Temp. Coeff.	TYPE PS Stock No.	TYPE A Stock No.	TYPE P Stock No.	TYPE PR Stock No.
2.0-8.0	8A	NP0	43 D 3389	43 D 3414	43 D 3450	43 D 3464
2.5-11.0	11B	N300	43 D 3390	43 D 3430	43 D 3451	43 D 3468
3.0-10.0	10C	N500	43 D 3393	43 D 3434	43 D 3452	43 D 3469
3.0-15.0	15D	N650	43 D 3394	43 D 3435	43 D 3453	43 D 3470
5.5-18.0	18A	NP0	43 D 3396	43 D 3439	43 D 3454	43 D 3471
7.0-25.0	25B	N300	43 D 3398	43 D 3441	43 D 3460	43 D 3472
8.0-25.0	25C	N500	43 D 3399	43 D 3442	43 D 3461	43 D 3473
9.0-35.0	35D	N650	43 D 3410	43 D 3443	43 D 3463	43 D 3474

1-24. Each 1.65 25-49. Each 1.50 50-99 Each 1.25 100-199. Each 1.10 200-299. . . . Each .65 300-499. . . . Each .60 500-999. . . . Each .52

NEW VAM AIR VARIABLE CAPACITORS

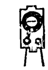


Actual Size

Tiny, high-Q capacitors have low loss at high frequencies; ideal for microwave. Turret cap will not shift. Cap. range, 0.8-10.0 mmf. VAM-010 is panel mtg., VAM010W is printed circuit type.

Stock No.	Mfr's Type	Overall Lgth.	EACH 1-24	25-49	50-99	100-299	300-499
43 D 3475	VAM010	⁹⁄₁₆"	3.95	3.60	3.10	2.60	2.45
43 D 3476	VAM010W	¹⁵⁄₃₂"	3.95	3.60	3.10	2.60	2.45

NEW MODUTRIM CERAMIC VARIABLE CAPACITORS

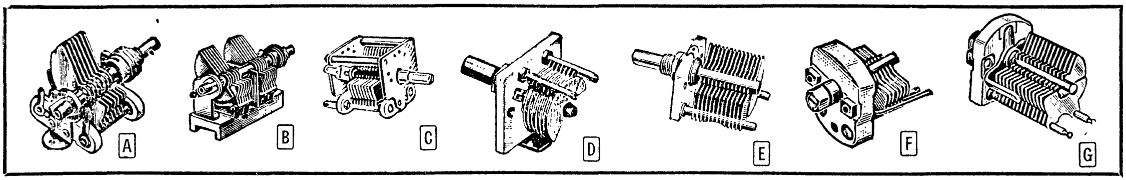


Subminiature variable capacitors for micro-module and hybrid circuits. Choice of 9 wide Delta C ranges. Size: MT300 series, .208x.410x.120"; MT400, .208x.281x.120". 50 WVDC except *500 v. Specify Series MT300 or MT400.

Stock No.	Mfr's Type	Capac. Range, Mmf	EACH 1-24	25-99	100-199	200-299	300-499
43 D 3489	MT300, 400	4.0-15.0	6.00	5.40	5.00	4.50	4.00
43 D 3490	MT306, 406	1.1- 5.0	6.00	5.40	5.00	4.50	4.00
43 D 3492	MT309, 409	1.6- 9.0	6.00	5.40	5.00	4.50	4.00
43 D 3493	MT312, 412	3.0-12.0	6.00	5.40	5.00	4.50	4.00
43 D 3494	MT320, 420	3.5-20.0	6.00	5.40	5.00	4.50	4.00
43 D 3498	MT330, 430	5.0-30.0	6.00	5.40	5.00	4.50	4.00
43 D 3499	MT340, 440	6.5-40.0	6.00	5.40	5.00	4.50	4.00
43 D 3505	MT350, 450	8.5-50.0	6.00	5.40	5.00	4.50	4.00
43 D 3506	MT360, 460	12.0-60.0	6.00	5.40	5.00	4.50	4.00

Specify Mfr's Type and Capacitance on Capacitor Orders

Variable Tuning Capacitors



HAMMARLUND VARIABLE CAPACITORS

TYPE MC

[A] Feature siliconized steatite base, nickel-plated brass plates, silver-plated contacts. For panel or chassis mounting. *Straight-line capacity characteristic indicated by S suffix; others have mid-line capacity characteristic for nearly linear frequency divisions. Air gap: M and S types, .0245″. Tested at 1000 v. (60 cycle rms). Capacity increases with clockwise rotation. Space required: S type, 1¹¹⁄₁₆″ sq. M type, 2¼″ sq. Depth of longest cut: S, 2⅛″; M, 3¼″. ¼″ shaft, with ⅜-32 bushing. 10 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3666	*MC-20-S	20	5.5	2.40
43 D 3667	*MC-35-S	35	6.0	2.45
43 D 3663	MC-50-M	50	6.3	2.55
43 D 3668	*MC-50-S	50	6.5	2.60
43 D 3664	MC-75-M	80	7.3	2.75
43 D 3670	*MC-75-S	80	8.0	2.85
43 D 3673	MC-100-M	100	7.7	2.90
43 D 3672	*MC-100-S	100	8.3	2.95
43 D 3674	MC-140-M	140	9.0	3.00
43 D 3675	*MC-140-S	140	10.0	3.15
43 D 3676	MC-200-M	200	10.3	3.40
43 D 3677	MC-250-M	250	12.0	3.70
43 D 3678	MC-325-M	320	13.5	4.20

TYPE MCD DUALS

[B] Split-stator, panel-mounting types with features of MC Types above. Types with suffix M tested at 1000 v. (60 cycle rms); suffix X, 1750 v. *Straight line capacity characteristic. †Midline capacity characteristic for nearly linear frequency division. ‡Wide-spaced for high voltages. Have shield between stators. Nickel-plated brass plates. Silver-plated contacts. Air gap; suffix M. .0245″; suffix X, .0715″. Panel space: M and MX—2¼″ square; SX—1¹¹⁄₁₆″ square. Require 3¹¹⁄₃₂″ behind panel. ¼″ shaft, ½″ long. ⅜″-32 bushing. 11 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3687	†MCD-50-M	50	5.5	7.25
43 D 3690	†MCD-100-M	100	6.3	7.85
43 D 3671	*MCD-100-S	100	7.0	7.50
43 D 3695	†MCD-140-M	140	7.8	8.35
43 D 3665	†‡MCD-35-MX	31	6.0	7.85
43 D 3669	*‡MCD-35-SX	31	6.8	7.50

TYPE RMC

[C] MC-type tuning capacitors with very rigid construction. Have heavy-gauge aluminum end panels secured by 3 aluminum tie rods. Brass sleeve front-bearing and single ball thrust rear-bearing. Rotor contact is forked silver-plated phosphor-bronze spring, wiping against wide disc on rotor. Tapped holes in front panel and mtg. feet. Brackets for inverted mtg. Straight line capacity. Air gap, .0245″. Tested at 1000 v. (60 cycle rms). Space: 1¹¹⁄₁₆″ sq. ¼″ shaft, with ⅜″-32 bushing. Av. wt., 11 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3680	RMC-50-S	50	7.3	4.95
43 D 3681	RMC-100-S	105	9.5	5.25
43 D 3683	RMC-140-S	143.5	11.0	5.95
43 D 3685	RMC-325-S	327	17.5	6.85

TYPE HF

[D] Single-section tuning capacitors ideally suited to high frequency applications. *Double-spaced plates, 1400 v. (60 cycle rms) test; others 600 v. HF. Size, 1⁹⁄₃₂x 1⁵⁄₁₆″ up to 1½″ behind panel. Air gap: .015″, except suffix X Types, .045″. 6 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3590	HF-15	17.5	2.8	1.30
43 D 3501	HF-35	36	3.2	1.40
43 D 3592	HF-50	52	3.7	1.60
43 D 3593	HF-100	102	5.3	1.80
43 D 3594	HF-140	142	6.3	1.95
43 D 3595	*HF-15-X	15	3.6	1.30
43 D 3596	*HF-30-X	30	5.2	1.70

TYPE MAC

(Not illus.) These extremely small variable capacitors provide low minimum capacity essential for use as VHF trimmers. Steatite base; only ¾x⅝″. S-driver adjust. Thread. bushing. Up to 1³⁄₁₆″ behind panel. 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3659	MAC-5	5.4	1.3	.90
43 D 3660	MAC-10	9.6	1.5	.95
43 D 3661	MAC-15	15.8	1.9	1.00
43 D 3662	MAC-20	21.5	2.2	1.10
43 D 3689	MAC-30	32	2.5	1.20

TYPE HFA

[E] Sturdy, capacitors, similar to HF, but larger plates and wider air gaps. For general-purpose and transmitting applications. Single-hole panel mounting. Also bracket for base mounting. End letter A in type no. denotes .02″ air gap. B—.03″, E—.07″; 800, 1200 and 1750 test volts respectively. 1¹⁹⁄₆₄x1⁷⁄₃₂″. Up to 1¾″ behind panel. *Front and rear supporting panels. 8 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3643	HFA-15B	16	2.8	2.20
43 D 3644	HFA-25B	25	3.0	2.30
43 D 3645	HFA-50B	50	4.3	2.50
43 D 3646	*HFA-100B	100	7.5	3.90
43 D 3597	HFA-100A	102	4.5	2.75
43 D 3598	HFA-140A	145	6.0	2.95
43 D 3688	HFA-200A	200	8.0	3.70

TYPE APC

[F] Compact high-quality variables. Screw-driver or hex-wrench adjustment. 1⁷⁄₃₂x 1⁵⁄₁₆″. Up to 1¾″ behind panel. wt., 4 oz.

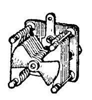
Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3654	APC-25	25	3.0	1.20
43 D 3655	APC-50	50	3.9	1.35
43 D 3656	APC-75	75	4.6	1.45
43 D 3657	APC-100	100	5.5	1.60
43 D 3658	APC-140	140	6.7	1.80

TYPE MAPC

[G] Midget padding, trimming and general-purpose capacitors. Similar to APC. Air gap, .0135″. Rotors and stators are nickel-plated brass. Nickel-plated beryllium copper wiper contact. Tapped (4-40 thread) brass studs in steatite base permit mounting without grounding rotor. Tested at 600 volts rms, 60 cps. Overall size: ²⁵⁄₃₂″ wide, ¹⁵⁄₁₆″ high; up to 1½″ behind panel. All have slotted shafts for screwdriver as well as hex-wrench adjustment. Wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	EACH
43 D 3584	MAPC-15	15	2.3	1.00
43 D 3585	MAPC-25	25	2.6	1.05
43 D 3586	MAPC-35	35	2.9	1.10
43 D 3587	MAPC-50	50	3.2	1.15
43 D 3588	MAPC-75	75	3.9	1.20
43 D 3589	MAPC-100	100	4.5	1.30

HAMMARLUND TYPE BFC BUTTERFLY VARIABLE CAPACITORS



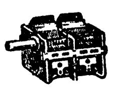
- Straight Line Capacity Type
- Low Min. Capacity/Inductance
- 90° Min. to Max. Capacity

Spacing .03″. Tested at 1200 v. rms., 60 cycles between rotor and each stator. Tapped (6-32 thread) studs in steatite base permit mounting without grounding rotor. Silver contact. 1⅜x1⅜″. *Mmf. 6 oz.

Stock No.	Type	*Max.	*Min.	EACH
43 D 2601	BFC-12	14.5	3.4	2.25
43 D 2602	BFC-25	27.3	4.8	2.65
43 D 2603	BFC-38	40.1	6.2	2.95

RADIO CONDENSER CO. VARIABLE CAPACITORS

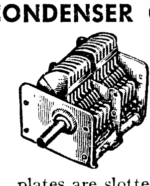
2-GANG CAPACITORS



Ruggedly constructed tuning gangs with many extra-quality features. For use in superhets without an RF stage, or in 2-stage TRF receivers. Each section has 29 plates. Range of 15.5 mmf to 467.8 mmf, each section. Counter-clockwise rotation increases capacity, clockwise rotation decreases capacity. With trimmers for each section. End plates are slotted—permits easy tracking adjustments. Spring brass wipers. Require series padder for application in oscillator circuits. Have ⅜″ diameter shafts. *See coil and I.F. transformer section for coils.* Size: 1⅝″ high, 1¹³⁄₁₆″ wide, 2¹³⁄₁₆″ deep. Shpg. wt., 8 oz.

43 D 3528. 1-49 . . . . Each 1.54
50-99 . . . . . Each 1.44 100-249 . . . Each 1.30
250-499 . . . Each .99 500-999 . . . Each .82

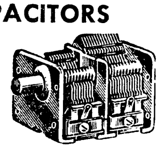
2- AND 3-GANG CAPACITORS



Compact TRF variable capacitors. Choice of two or three identical sections on one shaft. Have trimmers on side of frame. Outer rotor plates are slotted for tracking adjustment. Tapped holes in frame provide secure mounting. Range: 12 to 367 mmf each section. Shaft diameter, ⅜″. Size of 2-gang: 2³⁄₁₆x1¹³⁄₁₆x1⅝″. Size of 3-gang: 3³⁄₁₆x 1¹³⁄₁₆x1⅝″. Av. shpg. wt., 6 oz.

43 D 3521. 2-Gang. 1-49 . . . . Each 1.55
50-99 . . . . Each 1.44 100-249 . . . Each 1.31
250-499 . . . Each 1.00 500-999 . . . Each .82
43 D 3522. 3-Gang. 1-49 . . . . Each 2.31
50-99 . . . . . Each 2.15 100-249 . . . Each 1.95
250-499 . . . Each 1.49 500-999 . . . Each 1.23

2-SECTION SUPERHET



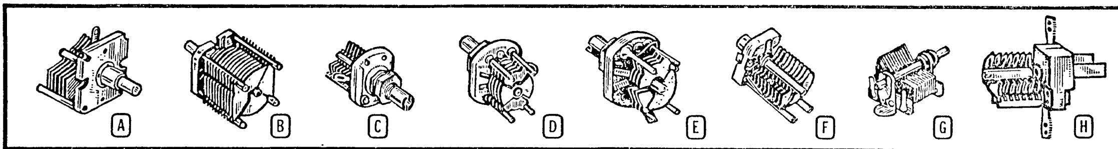
19-plate oscillator section with 172.6 max.—10.6 min. mmf; has one 2-17 mmf trimmer. 27-plate RF section with 434 max.—14.5 min. mmf; has one 2-17 mmf trimmer. 455-kc frequency-difference in combination with oscillator coil below. Capacity increases with ccw rotation. 1⅝x 1¹³⁄₁₆x2³⁄₁₆″. Shaft, ¼″ dia.; ¾″ long. 8 oz.

43 D 3529. 1-49 . . . . Each 1.52
50-99 . . . . . Each 1.42 100-249 . . . Each 1.28
250-499 . . . Each .98 500-999 . . . Each .81

Oscillator Coil. 455-kc with above. 4 oz.
43 D 3504. 1-49 . . . . Each .35
50-99 . . . . . Each .33 100-249 . . . . Each .29
250-499 . . . Each .25 500-999 . . . . Each .21

Variable Capacitors and Trimmers

E. F. JOHNSON CAPACITORS



TYPE L VARIABLES

Resist shock, vibration. Split-sleeve tension bearing, silver-plated copper alloy contact for better torque, smooth action. Nickel plates spaced .030". Peak voltage, 1500. Panel space, 1⅜" square behind. 8 oz.

[A] SINGLE END PLATE

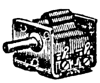
Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3777	167-1	11-2.8	1.85	1.72	1.58
43 D 3778	167-2	27-3.5	2.00	1.79	1.64
43 D 3779	167-3	51-4.6	2.20	2.00	1.83
43 D 3789	167-4	75-5.7	2.40	2.20	2.02

[B] BUTTERFLY

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3781	167-21	10.5-2.8	2.25	2.07	1.90
43 D 3782	167-22	26-4.3	2.65	2.42	2.21
43 D 3783	167-23	51-6.8	3.25	2.96	2.72

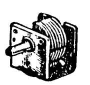
RADIO CONDENSER CO.

MIDGET SUPERHET AND TRF TYPES



Midget Superhet. RF—14.5-368 mmf, 27 plates; oscillator—11.6 to 136.6 mmf, 15 plates. Counter-clockwise increase. For 455-kc IF. Trimmers. 1^{11}⁄$_{16}$x1½x1^{5}⁄$_{16}$". ¼" dia. shaft. 6 oz.

43 D 3523. 1-49. . . . . Each **1.41**
50-99. . Each **1.32** 100-249. . . Each **1.19**
250-499. . Each **.91** 500-999. . Each **.75**



Midget TRF. 33-plate single-gang capacitor. Mmf, 15-409. Increases its capacity with clockwise rotation. 1^{13}⁄$_{16}$x1⅜x1^{5}⁄$_{16}$" high. ¼"-dia. shaft. ¾" long. Wt., 5 oz.

43 D 3524. 1-49. . . . . Each **1.02**
50-99. . . Each **.95** 100-249. . . Each **.86**
250-499. Each **.66** 500-999. . . Each **.55**

TYPE M MINIATURE VARIABLES

Small types for compact equipment. Bridge-type stator terminal provides extremely low inductance path to both stator supports. Soldered plate, oversize bearing ensures rigidity. Peak voltage 1250 v., except *850 v. Panel space ¾x⅝", up to 1¼ behind. ^{3}⁄$_{16}$" dia. slotted shaft with ¼"-32 mtg. bushing. Av. shpg. wt., 3 oz.

[C] SINGLE SECTION

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3758	160-102	5.0-1.5	.90	.83	.76
43 D 3759	160-104	8.7-1.8	.95	.88	.80
43 D 3760	160-107	14.2-2.3	1.00	.92	.85
43 D 3761	160-110	19.6-2.7	1.10	1.00	.92
43 D 3766	160-130	32.0-3*	1.20	1.11	1.02

[D] BUTTERFLY

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3784	160-203	3.1-1.5	1.20	1.11	1.02
43 D 3763	160-203	5.1-1.5	1.30	1.20	1.10
43 D 3764	160-208	8.0-2.2	1.45	1.33	1.22
43 D 3765	160-211	10.8-2.7	1.60	1.47	1.35

[E] DIFFERENTIAL

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3767	160-303	5.0-1.5	1.25	1.16	1.06
43 D 3768	160-305	8.7-1.8	1.45	1.34	1.23
43 D 3785	160-308	14.2-2.3	1.65	1.52	1.39
43 D 3770	160-311	19.6-2.7	1.85	1.72	1.58

[F] TYPE S VARIABLES

Compact and rugged. 850 v. peak rating. Slotted hex-nut shaft. Panel space, ^{29}⁄$_{32}$x^{25}⁄$_{32}$", up to 1^{1}⁄$_{16}$ behind. Two 4-40 mtg. holes. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3771	148-1	15-2.3	1.00	.93	.85
43 D 3772	148-2	25-2.6	1.05	.97	.89
43 D 3773	148-3	35-2.9	1.10	1.00	.92
43 D 3774	148-4	50-3.2	1.15	1.03	.95
43 D 3786	148-5	75-3.9	1.20	1.10	1.01
43 D 3776	148-6	100-4.5	1.30	1.20	1.10

[G] TYPE R VARIABLES

Extra-heavy rugged construction. Panel or base mtg. Panel space 1^{11}⁄$_{16}$x1⅝", up to 2⅛" behind. 1200 v. peak. Av. wt., 8 oz.

Stock No.	Mfr's Type	Mmf Max-Min	EACH 1-9	10-49	50-99
43 D 3789	149-1	20- 5	2.50	2.28	2.08
43 D 3790	149-2	35- 6	2.60	2.41	2.21
43 D 3754	149-3	50- 6.5	2.70	2.48	2.28
43 D 3791	149-4	80- 8	2.85	2.62	2.40
43 D 3756	149-5	102- 8.5	3.00	2.76	2.53
43 D 3757	149-6	140-13.5	3.30	3.04	2.78

[H] TYPE U SUBMINIATURE VARIABLES

Tiny capacitors that require only ^{7}⁄$_{16}$" sq. panel space, and up to ¾" behind. Have high Q, low temperature coefficient, and high torque-to-mass ratio. Solid-brass rotors and stators. All metal parts silver-plated. Steatite ceramic. ^{5}⁄$_{16}$" P.C. terms. 4 oz.

SINGLE-SECTION

43 D 3697	189-1	3.5-1.2	.60	.55	.51
43 D 3698	189-2	5.4-1.3	.63	.57	.53
43 D 3699	189-3	7.3-1.4	.65	.59	.55
43 D 3700	189-4	9.1-1.5	.68	.62	.57
43 D 3701	189-5	11 -1.7	.70	.65	.60
43 D 3702	189-6	13 -1.8	.72	.66	.61
43 D 3750	189-7	15 -2.0	.74	.68	.63
43 D 3753	189-8	17 -2.2	.76	.70	.64

BUTTERFLY

43 D 3875	189-251	4.5-1.7	.86	.80	.73
43 D 3876	189-252	6.5-1.8	.88	.81	.74
43 D 3877	189-253	8.5-1.9	.90	.83	.76

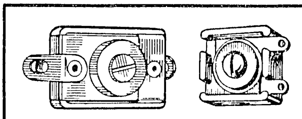
DIFFERENTIAL

43 D 3878	189-351	3.5-1.2	.78	.72	.66
43 D 3879	189-352	5.4-1.3	.80	.75	.68
43 D 3880	189-353	7.3-1.5	.82	.76	.70
43 D 3881	189-354	9.1-1.6	.84	.77	.71
43 D 3882	189-355	11.0-1.7	.86	.80	.73
43 D 3883	189-356	13.0-1.9	.88	.82	.75

ELMENCO TRIMMERS AND PADDERS

High-quality capacitors feature low-loss ceramic base, clear India mica. Specially treated to assure resistance to humidity, permanence of capacity settings. Adjusting plates permit bending solder lugs without affecting capacity settings. Trimmers rated 350 VDC test, 175 WVDC. Padders, 500 VDC test, 250 WVDC. Three turns for open to tight setting. Av. shpg. wt., trimmers 2 oz.; padders 3 oz.

- Low-loss Ceramic Base
- Extra-rigid Construction
- Specially Treated to Resist Effects of Humidity



TRIMMER PADDER

TYPE 46 STANDARD TRIMMERS, ¾x⅝"

Stock No.	Mfr's Type	Mmf Min-Max	EACH 1-49	50-99	100-499	500-999
43 D 3518	460	1.5-15	.20	.18	.16	.12
43 D 3511	461	2.7-30	.20	.18	.16	.12
43 D 3512	462	5-80	.23	.21	.18	.14
43 D 3513	463	9-180	.24	.22	.19	.15
43 D 3514	464	25-280	.27	.25	.22	.17
43 D 3515	465	50-380	.29	.26	.23	.18
43 D 3516	466	80-480	.32	.29	.26	.20
43 D 3517	467	110-580	.36	.33	.29	.22
43 D 3519	468	140-680	.39	.35	.31	.23
43 D 3520	469	170-780	.42	.38	.34	.26

TYPE 42 MIDGET TRIMMERS, ⅜x¾"

Stock No.	Mfr's Type	Mmf Min-Max	EACH 1-49	50-99	100-499	500-999
43 D 7077	420	1-12	.20	.18	.16	.12
43 D 7078	421	2-25	.20	.18	.16	.12
43 D 7079	422	4-40	.23	.21	.18	.14
43 D 7080	423	7-100	.24	.22	.19	.15
43 D 7081	424	16-150	.27	.25	.22	.17
43 D 7082	425	24-200	.29	.26	.23	.18
43 D 7083	426	37-250	.32	.29	.26	.20
43 D 7084	427	55-300	.36	.33	.29	.22
43 D 7085	428	70-350	.39	.35	.31	.23
43 D 7086	429	90-400	.42	.38	.34	.26

TYPE 40 MIDGET TRIMMERS ⅜x^{9}⁄$_{16}$"

Stock No.	Mfr's Type	Mmf Min-Max	EACH 1-49	50-99	100-499	500-999
43 D 7087	400	.9-7	.20	.18	.16	.12
43 D 7088	402	1.5-20	.23	.21	.18	.14
43 D 7089	403	4-40	.24	.22	.19	.15
43 D 7090	404	8-60	.27	.25	.22	.17

TYPE 30 PADDERS, ⅞x1^{5}⁄$_{16}$"

Stock No.	Mfr's Type	Mmf Min-Max	EACH 1-49	50-99	100-499	500-999
43 D 7093	302	15-130	.43	.39	.35	.26
43 D 7094	303	65-340	.46	.42	.38	.28
43 D 7095	304	115-550	.49	.44	.39	.29
43 D 7096	305	190-760	.54	.48	.43	.32
43 D 7097	306	275-970	.60	.54	.48	.35
43 D 7098	307	350-1180	.65	.58	.52	.39
43 D 7099	308	450-1390	.68	.62	.55	.41
43 D 7100	309	550-1600	.74	.67	.59	.44
43 D 7101	310	650-1890	.79	.72	.64	.47
43 D 7102	311	780-2110	.84	.76	.67	.51
43 D 7103	312	880-2330	.89	.80	.72	.54
43 D 7104	313	1150-2605	.95	.86	.76	.57
43 D 7106	315	1400-3055	1.06	.96	.85	.64

QUICK INDEX TO ALLIED'S WIDE SELECTION OF SWITCHES

√ ROTARY √ TOGGLE √ SNAP ACTION √ PUSHBUTTON √ MILITARY √ MINIATURE

MANUFACTURER	PAGE	OEM TO
ACRO—Snap-Action Switches	198, 199	499
ALCO SWITCH—Miniature Switches	200	999
ARROW-HART & HEGEMAN Switches	188, 189	4999
CENTRALAB—Rotary Switches		
JV-9000 Heavy Duty	197	99
PA-1000 Miniature Phenolic	196	249
PA-2000 Miniature Ceramic	196	249
PA-3000 18-Position Phenolic	196	249
PA-4000 24-Position Phenolic	196	249
PA-6000 Military Type Ceramic	197	249
PS-100 Subminiature Ceramic	196	249
1400-1431 Standard Phenolic	198	249
1450, 1451, 1488, 1489 General Purpose	198	249
1452-1459; 1466-1467 Lever-Action	197	249
1460-1464; 1472 Small General Purpose	197	249
2500 Standard Ceramic	198	249
CONTINENTAL-WIRT—Slide Switches	194	999
CURTIS—Elapsed Time Meters	205	49
CUTLER-HAMMER		
AC-DC Toggle Switches	190	999
AC Toggle Switches	192	999
MIL-S-3950A Toggle Switches	193	249
MIL-S-8834 Toggle Switches	193	249
JAN-S-23 Toggle Switches	193	249
MIL-S-6807 Rotary Switches	193	249
Pushbutton, Rocker and Misc. Switches	190-193	999

MANUFACTURER	PAGE	OEM
EAGLE—Switches	188	999
FOOT SWITCHES	213	99
GENERAL ELECTRIC		
Elapsed Time Meters	207	99
Reed Switches	207	249
GEORGE RISK INDUSTRIES—PB Switches	205	299
GORDOS—Reed Switches	204	999
GRAYHILL—Miniature Switches	201	ANY
HAYDON—Timers	206	249
INDUSTRIAL TIMER CORP.		
Interval Time Delay Timers	208, 209	499
Recycling Timers (Single and Multi-cam)	209	499
Elapsed-Time Meters—Series C	208	499
Signaling Timers—Series S	209	499
Stop Clock—Series SC-100	208	499
Time Delay Timer	208, 210	499
Dual-Trol Timer	208	99
INTERMATIC Time Switches	211	11
KNIGHT—Timer	207	ANY
MALLORY—Switches	194	499
MARK-TIME—Time Switches	212	99
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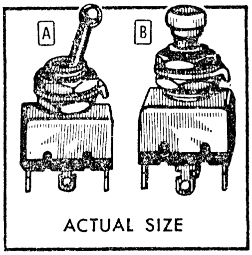
PARAGON—Time Switches	212	59
SHALLCROSS—Precision Rotary Switches	195	49
SWITCHCRAFT Lever, Pushbutton Switches	202-204	249

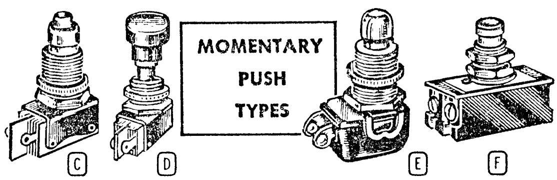
ARROW-HART & HEGEMAN SWITCHES



SUBMINIATURE SWITCHES

Gold-plated coin silver contacts; gold-plated brass terminals; diallyl phthalate plastic bases. Toggle types (Fig. A) 5A res. @ 29 VDC/ 115 VAC; meet MIL-S-3950. MS-75028, SPDT; MS-75029, DPDT. Momentary pushbutton types (Fig. B), 2A res. @ 29 VDC/1A @ 115 VAC. †7A @ 125 VAC, 5A @ 250 VAC or 29 VDC. Snap action. *Momentary. Pushbutton types with white nylon caps. 1 oz.

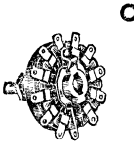
Stock No.	Mfr's Type	Gov't MS No.	Action	EACH 1-9	10-99	100-499	500-999
56 D 4167	TC-3M	75028-21	On-Off-On	3.20	2.56	2.40	2.24
56 D 4168	TS-3M	75028-23	On-None-On	3.20	2.56	2.40	2.24
56 D 4169	TM-3M	75028-26	On*-None-On	3.40	2.72	2.55	2.38
56 D 4170	TG-3M	75028-27	On*-Off-On*	3.40	2.72	2.55	2.38
56 D 4171	TE-3M	75028-31	On*-Off-On	3.40	2.72	2.55	2.38
56 D 4172	TC-6M	75029-21	On-Off-On	4.10	3.28	3.08	2.87
56 D 4173	TS-6M	75029-23	On-None-On	4.10	3.28	3.08	2.87
56 D 4174	TM-6M	75029-26	On*-None-On	5.20	4.16	3.90	3.64
56 D 4175	TG-6M	75029-27	On*-Off-On*	5.20	4.16	3.90	3.64
56 D 4176	TE-6M	75029-31	On*-Off-On	5.20	4.16	3.90	3.64
56 D 4149	PM-3	....	SPDT	2.86	2.29	2.15	2.00
56 D 4150	PM-6	....	DPDT	3.51	2.81	2.63	2.46
56 D 4177	PM-7	....	3PST-NO	3.31	2.65	2.48	2.32
56 D 4178	PM 8	....	3PST-NC	4.65	3.72	3.49	3.26
56 D 4179	PMQ-3	....	†SPDT	3.25	2.60	2.44	2.28



AC only except 80630 and 3594 are AC-DC. ‡Midget size, molded phenolic; §canopy size, phenolic sections. 3 amp @ 125 v. AC, 1-10 hp @ 125v. except *6 amp @ 250 v., 12 amp @ 125 v., 1 HP; †1 amp. @ 125 v, #1A @ 250 v, 3A @ 125 v., AC-DC. 15/32″ dia. shanks. U.L. Listed. 4 oz. ††Button: B, black; R, red, N, nickel.

Stock No.	Mfr's Type	Fig.	Action	††	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4159	§3391-GL	D†	SPST-NO	B	.88	.82	.68	.61	.544
56 D 3830	§3391-GL	D†	SPST-NO	R	.88	.82	.68	.61	.544
56 D 4181	§3391-GJ	D†	SPST-NC	R	.88	.82	.68	.61	.544
56 D 4182	§3391-GJ	D†	SPST-NC	B	.88	.82	.68	.61	.544
56 D 4119	§3392	C†	SP2-NC	N	.87	.80	.67	.60	.536
56 D 4124	§3392-AE	D†	SP2-NC	B	1.08	1.00	.83	.75	.664
56 D 4129	§3392-AE	D†	SP2-NC	R	1.08	1.00	.83	.75	.664
56 D 4183	#3594-Q	D	DPST-NO	R	1.90	1.75	1.46	1.31	1.168
56 D 4184	#3594-Q	D	DPST-NO	B	1.90	1.75	1.46	1.31	1.168
56 D 4185	#3594-PA	D	DPST-NC	R	1.90	1.75	1.46	1.31	1.168
56 D 4186	#3594-PA	D	DPST-NC	B	1.90	1.75	1.46	1.31	1.168
56 D 4187	#3599-GF	D	DPDT-NC	R	2.19	2.02	1.69	1.52	1.348
56 D 4188	#3599-GF	D	DPDT-NC	B	2.19	2.02	1.69	1.52	1.348
56 D 3842	‡80511	E	SPST-NC	N	.47	.43	.36	.32	.288
56 D 3843	‡80511-E	E	SPST-NO	N	.47	.43	.36	.32	.288
56 D 3845	‡80541-R	E	SPST-NC	R	.88	.82	.68	.61	.544
56 D 3846	‡80541-E	E	SPST-NO	R	.88	.82	.68	.61	.544
56 D 3847	‡80541-ER	E	SPST-NO	R	.88	.82	.68	.61	.544
56 D 4152	*80630	F	DPST-NO	N	1.87	1.72	1.44	1.29	1.148

OHMITE POWER TAP SWITCHES



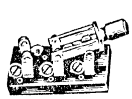
Ceramic insulated, rotary types. Non-shorting, single pole, single deck. 30° indexing. Model 111 rated 15 amperes @ 125 VAC; diameter, 1¾″. 212 rated 20 amp @ 150 VAC; dia., 2¼″. 312 rated 30 amp @ 300 VAC, 150 v. between taps; dia., 35/16″. Require 1⅛ to 2¼″ behind panel. Have ¼″ flatted shafts. U.L. Listed. Shpg. wt., 10 oz.

MODEL 111 Stock No.	Taps	1-4, EA.	5-9, EA.	MODEL 212 Stock No.	Taps	1-4, EA.	5-9, EA.
56 D 4227	3	3.82	3.25	56 D 4238	3	7.42	6.30
56 D 4228	4	3.94	3.35	56 D 4239	4	7.60	6.45
56 D 4229	5	4.06	3.45	56 D 4240	5	7.78	6.60
56 D 4230	6	4.18	3.55	56 D 4241	6	7.96	6.75
56 D 4231	7	4.30	3.65	56 D 4242	7	8.14	6.90
56 D 4232	8	4.42	3.75	56 D 4243	8	8.32	7.05
56 D 4233	9	4.54	3.85	56 D 4244	9	8.50	7.20
56 D 4234	10	4.66	3.95	56 D 4245	10	8.68	7.35
56 D 4235	11	4.78	4.05	56 D 4247	12	9.04	7.65

MODEL 312

56 D 4279	3	10.00	8.50	56 D 4273	9	11.08	9.40
56 D 4278	4	10.18	8.65	56 D 4272	10	11.26	9.55
56 D 4277	5	10.36	8.80	56 D 4271	11	11.44	9.70
56 D 4276	6	10.54	8.95	56 D 4270	12	11.62	9.85

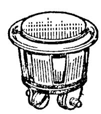
EAGLE HEAVY-DUTY KNIFE SWITCHES



Designed for heavy-duty use. Ideal for limited space applications. Rated 25 amps at 125 v. AC. With durable bakelite base, except 56 D 4889, porcelain base. Av. shpg. wt., 2 oz.

Stock No.	Type No.	Action	Size	EACH 1-9	10-99	100-199	200-499
56 D 4884	612	SPST	1⅝x1″	.24	.22	.19	.16
56 D 4886	613	SPDT	2⅝x1″	.28	.26	.23	.19
56 D 4887	614	DPST	1¾x1½″	.49	.37	.34	.29
56 D 4888	615	DPDT	2⅝x1⅝″	.46	.43	.39	.33
56 D 4889	617	SPST	31/16x1⅛″	.30	.28	.25	.21

EAGLE FLUSH-MOUNT PUSHBUTTON SWITCH



For bells, buzzers, etc. Has pearl button; screw terminals. Mounts in ⅝″ diameter hole. Shpg. wt., 1 oz.

56 D 4890. Type 188. 1-9 .... Each .45
10-99............ Each .41 100-199........ Each .37
200-499.................................. Each .31

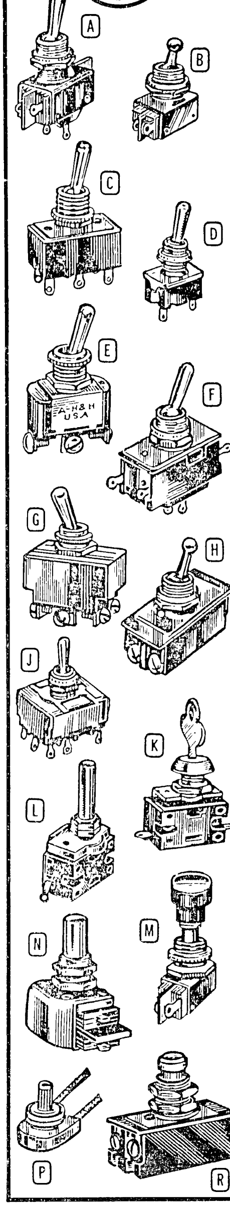
Toggle and Pushbutton Switches

Small laminated canopy, intermediate molded, heavy-duty power, and midget switches. AC-only types boast high-capacity in small unit. All have 15/32" shank, except ‡13/32". Shank dia. 15/32" except §3/4". **Fine silver buttons. Solder terminals except # screw. With 2 mtg. nuts. U.L. Listed. 4 oz.

Stock No.	Mfr's Type	Fig.	Amperes 125V	Amperes 250V	AC Only	HP	Wiping Action	Silver-Plated Contacts	Silver-Plated Terms.	EACH 1-24	25-49	50-99	100-499	500-999
SPST (2-POSITION—ON-OFF) *Momentary														
56 D 3542	20994LH	A		3			No	No	No	.62	.58	.48	.43	.384
56 D 4100	‡20994BF	B		3			No	No	No	.62	.58	.48	.43	.384
56 D 4138	20994CS	B		3			No	No	No	.62	.58	.48	.43	.384
56 D 3869	81015AW	C	6	3			Yes	Yes	No	.83	.76	.64	.57	.508
56 D 3505	*81045FB	C	6	3			Yes	Yes	No	1.20	1.10	.92	.83	.736
56 D 3862	83050	D	3	1			Yes	Yes	Yes	.83	.76	.64	.57	.508
56 D 3832	83001	E	6	3	Yes	⅙	No	Yes	No	.54	.50	.42	.37	.332
56 D 3854	#82600	E	15	10	Yes	¾	No	Yes**	No	.72	.66	.55	.50	.440
56 D 3837	82601	E	15	10	Yes	¾	No	Yes**	No	.62	.58	.48	.43	.384
SPDT (2-POSITION—ON-ON) *Momentary														
56 D 3543	21350EH	A	3	1			No	No	No	.79	.73	.61	.55	.488
56 D 3538	21350BF	B	3	1			No	No	No	.79	.73	.61	.55	.488
56 D 3501	81021AV	C	6	1			Yes	Yes	No	.99	.91	.76	.68	.608
56 D 3507	*81051G	C	6	1			Yes	Yes	No	.99	.91	.76	.68	.608
56 D 3864	83052	D	3	1			Yes	Yes	Yes	.99	.91	.76	.68	.608
56 D 3834	83007	E	6	3	Yes	⅙	No	Yes	No	.59	.54	.45	.41	.360
56 D 3855	#82604	E	15	10	Yes	¾	No	Yes**	No	.85	.79	.66	.59	.524
56 D 3839	82605	E	15	10	Yes	¾	No	Yes**	No	.72	.66	.55	.55	.440
SPDT (3-POSITION—ON-OFF-ON)														
56 D 3509	82022HD	F	6	3			Yes	Yes	No	1.51	1.40	1.17	1.05	.932
56 D 3833	83004	E	6	3	Yes	⅙	No	Yes	No	.59	.54	.45	.41	.360
56 D 3856	82602	E	15	10	Yes	¾	No	Yes**	No	.85	.79	.66	.59	.524
56 D 3838	82603	E	15	10	Yes	¾	No	Yes**	No	.72	.66	.55	.50	.440
SP3T (3-POSITION—ON-ON-ON)														
56 D 3870	#82997	G	15	10	Yes		No	Yes	No	1.39	1.28	1.07	.96	.856
DPST (2-POSITION—ON-OFF) *Momentary N.C.														
56 D 3544	20902CX	A	3	1			No	No	No	1.14	1.05	.88	.79	.700
56 D 4133	20902N	B	3	1			No	No	No	1.14	1.05	.88	.79	.700
56 D 3868	81024GB	C	6	3			Yes	Yes	No	1.22	1.13	.94	.85	.752
56 D 3506	*81054H	C	6	3			Yes	Yes	No	1.72	1.58	1.32	1.19	1.056
56 D 3865	83053	D	3	1			Yes	Yes	Yes	1.22	1.23	.94	.85	.752
56 D 3541	#80600B	H	16	8		1	Yes	Yes	Yes	1.26	1.16	.97	.87	.776
56 D 3871	#80602C	H	20	10		1½	Yes	Yes	Yes	2.19	2.02	1.69	1.52	1.348
56 D 3849	#80421	H		20		1½	Yes	Yes	Yes	2.94	2.72	2.27	2.04	1.812
56 D 3835	83025	G	6	3	Yes	⅙	No	Yes	No	.79	.73	.61	.55	.488
56 D 3872	#82606	G	15	10	Yes	¾	No	Yes**	No	1.15	1.06	.88	.79	.704
56 D 3840	82607	G	15	10	Yes	¾	No	Yes**	No	.97	.89	.75	.67	.596
DPDT (2-POSITION—ON-ON) *Momentary														
56 D 3545	20905FR	A	3	1			No	No	No	1.31	1.21	1.01	.90	.804
56 D 3537	20905BX	B	3	1			No	No	No	1.31	1.21	1.01	.90	.804
56 D 3867	81027CE	C	6	3			Yes	Yes	No	1.40	1.30	1.08	.97	.864
56 D 3508	*81057N	C	6	3			Yes	Yes	No	1.88	1.73	1.45	1.30	1.156
56 D 3866	83054	D	3	1			Yes	Yes	Yes	1.40	1.30	1.08	.97	.864
56 D 3520	83031	G	6	3	Yes	⅙	No	Yes	No	.88	.81	.68	.61	.540
56 D 3873	#82610	G	15	10	Yes	¾	No	Yes**	No	1.41	1.30	1.09	.98	.868
56 D 3531	82611	G	15	10	Yes	¾	No	Yes**	No	1.15	1.06	.88	.79	.704
DPDT (3-POSITION—ON-OFF-ON)														
56 D 4103	82024HD	F	6	3			Yes	Yes	No	1.88	1.73	1.45	1.30	1.156
56 D 3836	83028	G	6	3	Yes	⅙	No	Yes	No	.88	.81	.68	.61	.540
56 D 3874	#82608	G	15	10	Yes	¾	No	Yes**	No	1.41	1.30	1.09	.98	.868
56 D 3841	82609	G	15	10	Yes	¾	No	Yes**	No	1.14	1.06	.88	.79	.704
DPDT (3-POSITION—ON-POSITIVE OFF-ON) Cannot move through center position without stopping.														
56 D 4107	#80638D§‡		10	5		¾	Yes	Yes	No	4.42	4.08	3.40	3.06	2.72

3 AND 4-POLE—AC ONLY (Fig. J except 82612, Not illus.)

Stock No.	Mfr's Type	Action	Amps.	HP	EACH 1-24	25-49	50-99	100-499	500-999
56 D 3875	82612	3PST (On-Off)	10 @ 250v., 15 @ 125v.	1 @ 1-3ph, 125v.	2.24	2.12	1.77	1.59	1.416
56 D 3858	82615	3PDT (On-Off-On)	10 @ 250v., 15 @ 125v.	1 @ 1-3ph, 125v.	2.44	2.25	1.88	1.69	1.500
56 D 3860	82617	3PDT (On-None-On)	10 @ 250v., 15 @ 125v.	1 @ 1-3ph, 125v.	2.44	2.25	1.88	1.69	1.500
56 D 3859	**82634	4PDT (On-Off-On)	10 @ 250v.	½ @ 115-230v.	3.65	3.37	2.81	2.52	2.244
56 D 3861	**82636	4PDT (On-None-On)	10 @ 250v.	½ @ 115-230v.	3.65	3.37	2.81	2.52	2.244



M PUSHBUTTON DOUBLE-ACTION SPST SWITCHES

Require two pushes to operate. 3A @ 250 v., 6A @ 125 v. AC-DC. *8A @ 250 v, 16A @ 125 v. 3 oz.

Stock No.	Mfr's Type	Button Color	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4160	86710	Nickel	1.12	1.04	.87	.78	.692
56 D 4161	86710-CR	Red	1.33	1.23	1.03	.92	.82
56 D 4162	86710-C	Black	1.33	1.23	1.03	.92	.82
56 D 4163	*80863	Nickel	1.77	1.63	1.36	1.22	1.088

K SPST LOCK SWITCHES

81715-L. Fits panels to 9/32". Sleeve dia., 15/32". Switch must be open to remove key. 1¾x27/32x29/32". 81715-LE. Same, but key removable in open or closed position. Keys listed below right. 4 oz.

Stock No.	Mfr's Type	Amperes 125V	Amperes 250V	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4156	81715-L	6	3	1.94	1.79	1.49	1.34	1.192
56 D 4158	81715-LE	6	3	1.94	1.79	1.49	1.34	1.192

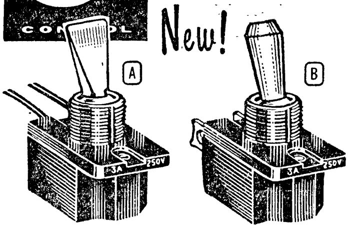
ROTARY POWER SWITCHES

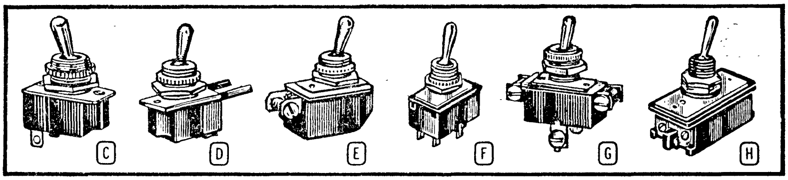
Ideal for instrument, control panel and appliance uses. Rated: †1 amp @ 250 v.—3 amp @ 125 v.; §3 amp @ 250 v.; #3 amp @ 250 v.—6 amp @ 125 v. Have shanks 11/32" dia., ⅜" long, except *⅜" dia., 5/16" long with 6" leads—all others have solder lugs. U.L. listed. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Action	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4165	*41047	P	†SPST	.42	.39	.33	.29	.26
56 D 3850	1561-B	N	§SPST	.77	.71	.60	.54	.476
56 D 3852	1575	N	†DPDT	1.47	1.36	1.13	1.02	.904
56 D 4141	81715	L	#SPST	1.52	1.40	1.17	1.05	.936
56 D 4144	81727	L	#DPDT	2.22	2.05	1.71	1.53	1.364

KEYS FOR LOCK SWITCHES
56 D 4128. For 81715-L. 1-24........ Each .18 25-49.. Each .17 50-99...... Each .14 100-499 ...... Each .13 500-999 Each .112
56 D 3876. For 81715-LE. 1-24....... Each .18 25-49.. Each .17 50-99.... Each .14 100-499.... Each .13 500-999.... Each .112

Cutler-Hammer AC-DC Toggle Switches





NEW "DESIGNER LINE" SWITCHES

Brilliant new concept in switches designed to add "class" to any equipment. Two handle styles are available in red, white, yellow, black and green. Have high arc-resistant and "tease resistant" quick-make, quick-break contact mechanism in phenolic case. 15/32" diameter, 11/32" long stem. All have solder lug terminals. U.L. and C.S.A. Listed. Av. shpg. wt., 2 oz.

SPST (3 AMPS AT 250 VOLTS, 6 AMPS AT 125 VOLTS)

Stock No.	Mfr's Type	Fig.	Lever Color	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5725	8381K21C	A	White	.79	.73	.61	.55	.488
56 D 5726	8381K21D	B	White	.79	.73	.61	.55	.488
56 D 5727	8381K22C	A	Red	.79	.73	.61	.55	.488
56 D 5728	8381K22D	B	Red	.79	.73	.71	.55	.488
56 D 5729	8381K25C	A	Yellow	.79	.73	.61	.55	.488
56 D 5730	8381K25D	B	Yellow	.79	.73	.61	.55	.488
56 D 5731	8381K27C	A	Black	.79	.73	.61	.55	.488
56 D 5732	8381K27D	B	Black	.79	.73	.61	.55	.488
56 D 5733	8381K24C	A	Green	.79	.73	.61	.55	.488
56 D 5734	8381K24D	B	Green	.79	.73	.61	.55	.488

SPDT (1 AMP AT 250 VOLTS, 3 AMPS AT 125 VOLTS)

Stock No.	Mfr's Type	Fig.	Lever Color	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5735	8282K21C	A	White	.87	.80	.67	.60	.532
56 D 5736	8282K21D	B	White	.87	.80	.67	.60	.532
56 D 5737	8282K22C	A	Red	.87	.80	.67	.60	.532
56 D 5738	8282K22D	B	Red	.87	.80	.67	.60	.532
56 D 5739	8282K25C	A	Yellow	.87	.80	.67	.60	.532
56 D 5740	8282K25D	B	Yellow	.87	.80	.67	.60	.532
56 D 5741	8282K27C	A	Black	.87	.80	.67	.60	.532
56 D 5742	8282K27D	B	Black	.87	.80	.67	.60	.532
56 D 5743	8282K24C	A	Green	.87	.80	.67	.60	.532
56 D 5744	8282K24D	B	Green	.87	.80	.67	.60	.532

DPST (3 AMPS AT 250 VOLTS, 6 AMPS AT 125 VOLTS)

Stock No.	Mfr's Type	Fig.	Lever Color	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5745	8370K21C	A	White	1.26	1.16	.97	.87	.776
56 D 5746	8370K21D	B	White	1.26	1.16	.97	.87	.776
56 D 5747	8370K22C	A	Red	1.26	1.16	.97	.87	.776
56 D 5748	8370K22D	B	Red	1.26	1.16	.97	.87	.776
56 D 5749	8370K25C	A	Yellow	1.26	1.16	.97	.87	.776
56 D 5750	8370K25D	B	Yellow	1.26	1.16	.97	.87	.776
56 D 5751	8370K27C	A	Black	1.26	1.16	.97	.87	.776
56 D 5752	8370K27D	B	Black	1.26	1.16	.97	.87	.776
56 D 5753	8370K24C	A	Green	1.26	1.16	.97	.87	.776
56 D 5754	8370K24D	B	Green	1.26	1.16	.97	.87	.776

DPDT (3 AMPS AT 250 VOLTS, 6 AMPS AT 125 VOLTS)

Stock No.	Mfr's Type	Fig.	Lever Color	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5755	8373K21C	A	White	1.43	1.32	1.10	.99	.88
56 D 5756	8373K21D	B	White	1.43	1.32	1.10	.99	.88
56 D 5757	8373K22C	A	Red	1.43	1.32	1.10	.99	.88
56 D 5758	8373K22D	B	Red	1.43	1.32	1.10	.99	.88
56 D 5759	8373K25C	A	Yellow	1.43	1.32	1.10	.99	.88
56 D 5760	8373K25D	B	Yellow	1.43	1.32	1.10	.99	.88
56 D 5761	8373K27C	A	Black	1.43	1.32	1.10	.99	.88
56 D 5762	8373K27D	B	Black	1.43	1.32	1.10	.99	.88
56 D 5763	8373K24C	A	Green	1.43	1.32	1.10	.99	.88
56 D 5764	8373K24D	B	Green	1.43	1.32	1.10	.99	.88

H HEAVY-DUTY TYPES

Similar to standard-duty types but with heavier parts, larger clearances and higher ratings. Handle larger motors or heavier loads; also provide longer life on lighter loads. Quick-make quick-break contact mechanism eliminates pitting caused by arcing on stalled-rotor currents. Long life and high arc-rupturing-capacity. All have bakelite bodies, convenient screw terminals and a 15/32" threaded stem. Rated 15A @ 125V, 10A @ 250V except *1½ hp @ 125V, 20A @ 250V. U.L. Listed †20A @ 125V, 10A @ 250 V. 2 oz.

Stock No.	Mfr's Type	Action	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4718	†7360K7	DPST	11/32"	2.03	1.87	1.56	1.40	1.25
56 D 4516	†7360K8	DPST	15/32"	2.03	1.87	1.56	1.40	1.25
56 D 4714	†7361K5	SPST	15/32"	2.03	1.87	1.56	1.40	1.25
56 D 5719	*7402K3	DPST	11/32"	2.72	2.51	2.10	1.89	1.68
56 D 4517	*7402K4	DPST	15/32"	2.72	2.51	2.10	1.89	1.68
56 D 5670	8690K1	DPDT	11/32"	4.34	3.92	3.26	2.94	2.51
56 D 4715	8690K2	DPDT	15/32"	4.34	3.92	3.26	2.94	2.51

LIGHT-DUTY TYPES

High-performance switch for small tools, appliances, etc. Have arc-resistant and "tease resistant" quick-make, quick-break contact mechanism in phenolic case. 15/32" dia. stem. *6" wire leads. †Screw terminals (others, solder lug). ‡SP-3 circuit. U.L. and C.S.A. Listed. Av. shpg. wt., 2 oz.

SPST (6A AT 125V, 3A AT 250V, except § 3A AT 250V)

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4527	§8280K14	C	¼"	.58	.53	.45	.40	.356
56 D 4749	§8280K15	C	11/32"	.58	.53	.45	.40	.356
56 D 4500	§8280K16	C	15/32"	.58	.53	.45	.40	.356
56 D 4783	§*8290K15	D	11/32"	.70	.65	.54	.49	.432
56 D 4784	§*8290K16	D	15/32"	.70	.65	.54	.49	.432
56 D 4785	§†8295K7	E	11/32"	.70	.65	.54	.49	.432
56 D 4786	§†8295K8	E	15/32"	.70	.65	.54	.49	.432
56 D 4787	8381K7	E	11/32"	.63	.61	.51	.46	.408
56 D 4508	8381K8	E	15/32"	.63	.61	.51	.46	.408
56 D 4788	*8391K7	D	11/32"	.79	.73	.61	.55	.484
56 D 4789	*8391K8	D	15/32"	.79	.73	.61	.55	.484
56 D 4790	†8396K7	E	11/32"	.79	.73	.61	.55	.484
56 D 4791	†8396K8	E	15/32"	.79	.73	.61	.55	.484

SPST (3A AT 125V, 1A AT 250V)

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4528	8282K12	F	¼"	.74	.68	.57	.51	.452
56 D 4939	8282K13	F	11/32"	.74	.68	.57	.51	.452
56 D 4501	8282K14	F	15/32"	.74	.68	.57	.51	.452
56 D 5940	‡8284K14	F	15/32"	.77	.71	.60	.54	.476

DPST (6A AT 125V, 3A AT 250V, except § 3A AT 250V)

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4529	§8360K6	F	¼"	1.05	.97	.81	.73	.648
56 D 4502	§8360K7	F	15/32"	1.05	.97	.81	.73	.648
56 D 5941	§8360K8	F	11/32"	1.05	.97	.81	.73	.648
56 D 4792	8370K7	F	15/32"	1.13	1.04	.87	.78	.696
56 D 5944	8370K8	F	11/32"	1.13	1.04	.87	.78	.696
56 D 4793	‡8372K7	F	15/32"	1.13	1.04	.87	.78	.696

DPDT (6A AT 125V, 3A AT 250V, except § 3A AT 250V)

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4530	§8363K6	F	¼"	1.21	1.12	.93	.84	.744
56 D 4503	§8363K7	F	15/32"	1.21	1.12	.93	.84	.744
56 D 5942	§8363K8	F	11/32"	1.21	1.12	.93	.84	.744
56 D 5943	§†8365K7	G	15/32"	1.59	1.47	1.23	1.10	.98
56 D 4632	8373K7	F	15/32"	1.30	1.20	1.00	.90	.80
56 D 4794	8373K8	F	11/32"	1.30	1.20	1.00	.90	.80
56 D 4795	†8375K7	G	15/32"	1.67	1.54	1.29	1.16	1.03

LIGHT-DUTY TYPES—PLASTIC

Rugged, all-plastic construction. For use under wet conditions, or outdoors. *SPST; †SPDT; §DPST; ‡DPDT. Fast operating switches have solder lug terminals and 11/32" stem length. U.L. and C.S.A. Listed. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Amperes 125V	250V	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5663	8280K20	*C	.....	3	.58	.53	.45	.40	.356
56 D 5664	8281K16	*C	6	3	.66	.61	.51	.46	.408
56 D 5665	8282K18	†F	3	1	.74	.68	.57	.51	.452
56 D 5654	8370K12	§F	6	3	1.13	1.04	.87	.78	.696
56 D 5668	8373K12	‡F	6	3	1.30	1.20	1.00	.90	.80

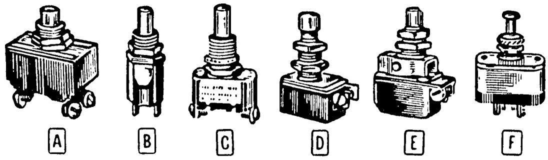
H STANDARD-DUTY TYPES

Standard-duty switches. All employ the Cutler-Hammer "snuffer type" quick-make, quick-break contact mechanism which eliminates pitting caused by arcing on stalled-rotor currents. Exceptionally long life and high arc-rupturing-capacity are combined in the design. The switches are designed primarily for service on small motors and similar equipment. All have bakelite cases and screw terminals. 15/32" threaded stem. Rated 16A at 125V, 8A at 250V, except * 5A at 250V. U.L. Listed. Av. wt., 2 oz.

Stock No.	Mfr's Type	Action	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5546	7320K2	DPST	11/32"	1.17	1.08	.90	.81	.72
56 D 4545	7320K3	DPST	15/32"	1.17	1.08	.90	.81	.72
56 D 4408	7321K2	SPST	11/32"	1.17	1.08	.90	.81	.72
56 D 4520	7321K3	SPST	15/32"	1.17	1.08	.90	.81	.72
56 D 4717	*8680K1	DPDT	11/32"	3.50	3.23	2.70	2.43	2.16
56 D 5669	*8680K2	DPDT	15/32"	3.50	3.23	2.70	2.43	2.16

Cutler-Hammer Special-Purpose Switches

PUSHBUTTON SWITCHES



Automatically turn lights on and off in refrigerators, telephone booths, closets, vaults, machines. *Red button; §¼" metal button; others black. SPST, except **SPDT; #DPDT; ##DPST. Norm. open, except ‡norm. closed. Screw terminals; †solder lugs. U.L., C.S.A. Approved. Av. shpg. wt., 3 oz.

MOMENTARY (AC) .75A @ 125V, .25A @ 250V

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5987	8411K12	B	15/32"	.44	.41	.34	.29	.272
56 D 4548	8411K11†	B	15/32"	.40	.37	.31	.27	.244
56 D 4631	8411K13*†	B	¼"	.40	.37	.31	.27	.244
56 D 5988	8411K7‡	B	15/32"	.33	.31	.26	.23	.204
56 D 4547	8411K8†‡	B	15/32"	.29	.26	.22	.20	.176

MOMENTARY (AC) 3A @ 125V, 1A @ 250V

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4549	8440K2†	B	15/32"	.81	.74	.62	.56	.496
56 D 4541	8440K3	B	15/32"	.93	.86	.72	.64	.572

MOMENTARY (AC-DC, ††AC) 6A @ 125V, 3A @ 250V

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 3828	8442K4§	C	11/32"	.89	.82	.69	.62	.548
56 D 4515	7190K1†	E	½"	1.07	.98	.82	.74	.656
56 D 4691	7196K1	E	½"	1.18	1.09	.91	.82	.728
56 D 4518	7199K2†#††	E	½"	1.92	1.78	1.43	1.33	1.18

MOMENTARY (AC) 15A @ 125V, 10A @ 250V

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5989	8444K3	C	11/16"	.96	.88	.74	.66	.588
56 D 3829	8444K4§	C	11/32"	.96	.88	.74	.66	.588
56 D 4513	8446K2**	C	11/16"	1.08	1.00	.84	.75	.668
56 D 5538	8448K2##	A	11/32"	1.37	1.27	1.06	.96	.844

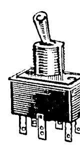
PUSH-PULL (AC-DC) 5A @ 125V, 1A @ 250V

Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5983	7106-K2	F	5/16"	1.14	1.06	.88	.79	.704
56 D 5984	7116-K2	F	1"	1.30	1.20	1.00	.90	.80
56 D 5985	7118-K2	F	9/16"	1.14	1.06	.88	.79	.704

PUSH-PUSH (AC-DC) 6A @ 125V, 3A @ 250V

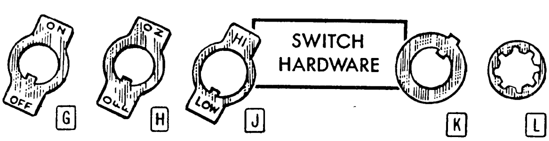
Stock No.	Mfr's Type	Fig.	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4519	7208-K4	D	11/16"	.91	.84	.70	.63	.560

DRY-CIRCUIT AC-DC TOGGLE SWITCHES



Designed for applications in solid-state electronics and semiconductor circuitry. Low contact-resistance is maintained by the use of *silver and †gold contacts. These low-resistance contacts plus high contact-pressure and mechanical wiping action contribute to a longer and more dependable lifetime. Rated 5A at 125V, 3A at 250V. Stem, 15/32"; solder lug terminals. Size, 15/64x15/16x11/16". 2 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5713	8376K1*	DPST	1.38	1.27	1.06	.96	.844
56 D 5714	8376K2*	DPDT	1.57	1.45	1.21	1.08	.964
56 D 5715	8377K1†	DPST	1.85	1.71	1.43	1.28	1.14
56 D 5716	8377K2†	DPDT	2.05	1.89	1.58	1.42	1.26



Switch plates. ½" hole dia. Shpg. wt., per 100, 8 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5671	827-228F3	G	.033	.03	.025	.225	.02
56 D 5672	827-228F13	H	.033	.03	.025	.225	.02
56 D 4589	827-228F16	J	.033	.03	.025	.225	.02

K 56 D 5703. Type 29-761-3 Locking Rings. Pkg. of 100, 8 oz.
1-4 pkgs....... Per Pkg. 1.50 5-10 pkgs.......... Per Pkg. 1.20

L 56 D 5708. Type 16-886 Lockwashers. Pkg. of 100, 8 oz.
1-4 pkgs..... Per Pkg. 1.00 5-10 pkgs............ Per Pkg. .80

NEW MINIATURE COMMERCIAL TOGGLES

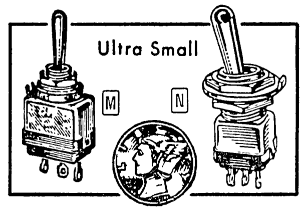
No Riveted Joints . . Large .07" Terminal Holes

Exceed commercial miniature switch specifications for single or double pole, double throw types. Have massive current carrying parts for up to 50% longer life. Rated 5 amps at 125 VAC and 28 VDC. Size: SPST and SPDT, 13/16x¼x½"; DPST and DPDT, 13/16x15/32x½". Stem length, ¼". *With off; †without off. Av., 2 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5767	7055K20	SPST	3.72	3.45	3.19	2.66	2.13
56 D 5768	7050K20	SPDT*	3.96	3.68	3.39	2.83	2.26
56 D 5769	7053K20	SPDT†	3.96	3.68	3.39	2.83	2.26
56 D 5770	7065K20	DPST	4.61	4.28	3.95	3.29	2.63
56 D 5771	7060K20	DPDT*	5.06	4.70	4.34	3.62	2.89
56 D 5772	7063K20	DPDT†	5.06	4.70	4.34	3.62	2.89

POSITIVE-ACTION MINIATURE MILITARY TOGGLE SWITCHES

- For Power or Dry-Circuits
- Gold-Plated Wiping Contacts



Improved design concept—toggle is linked directly to movable contact member, assuring positive make-and-break action. Meet MIL-S-8834 specs. Miniature size, but feature standard 15/32" bushings and standard bat-handle levers. 4A @ 28 v. DC, 1A @ 50 v. DC, 3A @ 115 v. AC. Min. 30 μa @ 5 mv. Solder lug terminals. Refer to Lever Travel Chart at bottom of page for explanation of code numbers in table. Av. wt., 2 oz.

M SMALL LEVER—9/16x¾x11/32-35/64"

Stock No.	Mfr's Type	MS 24655* 24656†	Action	Code	EACH 1-24	25-49	50-99	100-249
56 D 5528	8866K1	*211	SPDT	I	5.04	4.65	3.86	3.10
56 D 5624	8866K2	*271	SPDT	III	5.69	5.25	4.38	3.50
56 D 5625	8866K3	*311	SPDT	II	5.69	5.25	4.38	3.50
56 D 5529	8866K4	*231	SPDT	VI	5.04	4.65	3.86	3.10
56 D 5530	8866K5	*241	SPST	IV	5.69	5.25	4.38	3.50
56 D 5531	8866K6	*281	SPST	VII	5.69	5.25	4.38	3.50
56 D 5532	8866K7	*221	SPST	VIII	5.04	4.65	3.86	3.10
56 D 5623	8866K8	......	SPDT	V	5.69	5.25	4.38	3.50
56 D 5533	8867K1	†211	DPDT	I	6.31	5.82	4.85	3.88
56 D 5621	8867K2	†271	DPDT	III	7.35	6.78	5.65	4.52
56 D 5622	8867K3	†311	DPDT	II	7.35	6.78	5.65	4.52
56 D 5534	8867K4	†231	DPDT	VI	6.31	5.82	4.85	3.88
56 D 5535	8867K5	†241	DPST	IV	7.35	6.78	5.65	4.52
56 D 5536	8867K6	†281	DPST	VII	7.35	6.78	5.65	4.52
56 D 5537	8867K7	†221	DPST	VIII	6.31	5.82	4.85	3.88
56 D 5620	8867K8	......	DPDT	V	7.35	6.78	5.65	4.52

N LARGE LEVER—9/16x45/64x11/32-35/64"

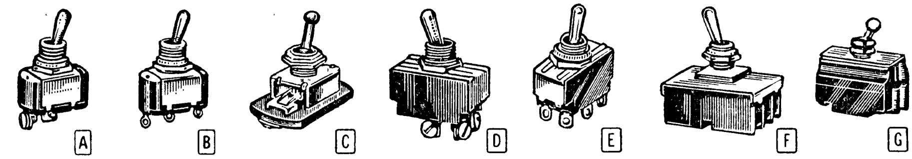
Stock No.	Mfr's Type	Action	Code	EACH 1-24	25-49	50-99	100-249
56 D 5683	8868K1	SPDT	I	5.14	4.74	3.95	3.16
56 D 5684	8868K2	SPDT	III	5.79	5.34	4.45	3.56
56 D 5685	8868K3	SPDT	II	5.79	5.34	4.45	3.56
56 D 5686	8868K4	SPDT	VI	5.14	4.74	3.95	3.16
56 D 5687	8868K5	SPST	IV	5.79	5.34	4.45	3.56
56 D 5688	8868K6	SPST	VII	5.79	5.34	4.45	3.56
56 D 5689	8868K7	SPDT	VIII	5.14	4.74	3.95	3.16
56 D 5690	8868K8	SPDT	V	5.79	5.34	4.45	3.56
56 D 5691	8869K1	DPDT	I	6.40	5.91	4.93	3.94
56 D 5692	8869K2	DPDT	III	7.44	6.87	5.73	4.58
56 D 5693	8869K3	DPDT	II	7.44	6.87	5.73	4.58
56 D 5694	8869K4	DPDT	VI	6.40	5.91	4.93	3.94
56 D 5695	8869K5	DPST	IV	7.44	6.87	5.73	4.58
56 D 5696	8869K6	DPST	VII	7.44	6.87	5.73	4.58
56 D 5697	8869K7	DPST	VIII	6.40	5.91	4.93	3.94
56 D 5698	8869K8	DPDT	V	7.44	6.87	5.73	4.58

LEVER TRAVEL CHART

Explanation of Code Numbers. *Indicates momentary contact.

Code No.	Lever Travel Up	Center	Down	Code No.	Lever Travel Up	Center	Down
I	On	Off	On	V	None	On	On*
II	On	Off	On*	VI	On	None	On
III	On*	Off	On*	VII	None	Off	On*
IV	On	Off	None	VIII	On	None	Off

Cutler-Hammer AC Toggle Switches



LIGHT-DUTY TYPES

For use in appliances, open-type heater units, radios, many other applications. Employ snap-action "positive kickoff" mechanism. Utilizing AC power to operate motors provides many advantages and economies not found in Universal or DC type devices. Reduction in arcing on AC power eliminates the need for quick-make and quick-break mechanisms—permits a simpler contact structure. Favorable characteristics of AC power are utilized throughout the Cutler-Hammer line of slow-make, slow-break switches to provide ratings unusually high for switches so compact in size. Mechanical life is considerably longer than in corresponding devices designed for DC service. Switches are rated 6 amps at 125V, 3 amps at 250V; except *7140K6 (Fig. C) which is rated 3 amps at 125V. Terminals are solder lug, screw type, or Faston "quick connect". U.L. and C.S.A. Approved. **See Lever-Travel Chart at bottom of right hand column for explanation of code numbers.** Av. shpg. wt., 2 oz.

[A] SPST

Stock No.	Mfr's Type	Terminals	Code	Stem Length	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4640	7580K4	Screw	I	15/32"	.58	.53	.44	.401	.356
56 D 5605	7580K5	Screw	I	11/32"	.58	.53	.44	.401	.356
56 D 4641	7580K6	Solder	I	15/32"	.50	.46	.38	.347	.308
56 D 5604	7580K7	Solder	I	11/32"	.50	.46	.38	.347	.308
56 D 4556	7580K8	Faston	I	15/32"	.50	.46	.38	.347	.308

[B] SPDT

Stock No.	Mfr's Type	Terminals	Code	Stem Length	1-24	25-49	50-99	100-499	500-999
56 D 4522	7140K6*	Screw	III	11/32"	.58	.53	.44	.401	.356
56 D 4642	7581K4	Screw	III	15/32"	.66	.61	.51	.459	.408
56 D 5603	7581K5	Screw	III	11/32"	.66	.61	.51	.459	.408
56 D 4643	7581K6	Solder	III	15/32"	.54	.49	.41	.374	.332
56 D 5602	7581K7	Solder	III	11/32"	.54	.49	.41	.374	.332
56 D 4644	7482K4	Screw	IV	15/32"	.66	.61	.51	.459	.408
56 D 4645	7483K6	Solder	IV	15/32"	.54	.49	.41	.374	.332

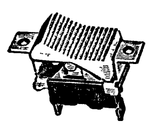
[D] DPST

Stock No.	Mfr's Type	Terminals	Code	Stem Length	1-24	25-49	50-99	100-499	500-999
56 D 4646	7590K4	Screw	I	15/32"	.89	.82	.69	.621	.552
56 D 4647	7590K6	Solder	I	15/32"	.72	.67	.56	.504	.448
56 D 5607	7590K7	Solder	I	11/32"	.72	.67	.56	.504	.448
56 D 4564	7590K8	Faston	I	11/32"	.72	.67	.56	.504	.448
56 D 4565	7590K9	Faston	I	11/32"	.72	.67	.56	.504	.448
56 D 5612	7593K4	Screw	II	15/32"	1.22	1.12	.93	.842	.748

[E] DPDT

Stock No.	Mfr's Type	Terminals	Code	Stem Length	1-24	25-49	50-99	100-499	500-999
56 D 4648	7591K4	Screw	III	15/32"	1.06	.97	.82	.734	.652
56 D 4649	7591K6	Solder	III	15/32"	.81	.75	.62	.563	.50
56 D 5609	7591K7	Solder	III	11/32"	.81	.75	.62	.563	.50
56 D 4568	7591K8	Faston	III	15/32"	.81	.75	.62	.563	.50
56 D 4689	7592K4	Screw	IV	15/32"	1.06	.97	.82	.734	.652
56 D 4690	7592K6	Solder	IV	15/32"	.81	.75	.62	.563	.50
56 D 5611	7592K7	Solder	IV	11/32"	.81	.75	.62	.563	.50
56 D 4570	7592K8	Faston	IV	15/32"	.81	.75	.62	.563	.50

"ROCKETTE" SWITCHES



Attractive switches for applications where modern design and dependable operation are important. Feature white nylon actuator, .250" quick-connect terminals, except *screw terminals. Have two 6-32 tapped mounting holes on 1⅝" centers. Require 1 1/16"x1¼" panel hole. All are U.L. and C.S.A. Approved. † With off. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Amperes 125V	250V	Action	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5700	8134K6	6	3	SPST	.57	.52	.44	.406	.352
56 D 5702	8134K3	6	3	SPDT†	.59	.56	.47	.423	.376
56 D 5707	8132K6	6	3	DPST	.84	.78	.65	.585	.52
56 D 5709	8132K3	6	3	DPDT†	.92	.85	.71	.639	.568
56 D 5699	8144K7	15	10	SPST	.65	.60	.50	.45	.40
56 D 5339	8144K8*	15	10	SPST	.72	.67	.56	.504	.448
56 D 5704	8144K4	15	10	SPDT†	.72	.67	.56	.504	.448
56 D 5718	8142K7	15	10	DPST	1.00	.92	.77	.693	.616
56 D 5540	8142K8*	15	10	DPST	1.16	1.07	.89	.801	.712
56 D 5712	8142K4	15	10	DPDT†	1.16	1.07	.89	.801	.712

STANDARD AND HEAVY-DUTY TYPES

Switches are similar to light-duty types described at left, but have heavier parts, larger clearances and higher ratings. **Standard-duty Types** are for use with appliances, instruments, small motor-driven devices, etc. Rated 15A @ 125V, 10A @ 250V (¾ hp @ 250V; except all code II momentary-action switches, which are 10A @ 250V only). **Heavy-duty Types** (all 3-pole units) are for motors, heaters, air conditioners, etc. Rated 15A @ 125V, 10A @ 250V (1hp for 1 or 2 phase, 125V—480V and 3 phase, 125V—600V operation; except for *8320K1 (Fig. G) which is 20A @ 250V only). Terminals are solder lug, screw type, or Faston "quick connect". U.L. and C.S.A. Approved. **See Lever Travel-Chart below for explanation of Roman Numeral code numbers.** Av. shpg. wt., 2 oz.

[A] SPST

Stock No.	Mfr's Type	Terminals	Code	Length Stem	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5932	7500K13	Screw	I	11/32"	.66	.61	.51	.459	.408
56 D 4591	7500K14	Screw	I	15/32"	.66	.61	.51	.459	.408
56 D 5933	7501K12	Solder	I	11/32"	.57	.53	.445	.401	.356
56 D 4534	7501K13	Solder	I	15/32"	.57	.53	.445	.401	.356
56 D 5616	7506K3	Solder	II	15/32"	.75	.69	.58	.522	.464
56 D 5617	7506K4	Screw	II	15/32"	.83	.76	.64	.576	.512
56 D 4574	7506K6	Faston	II	15/32"	.75	.69	.58	.522	.464

[B] SPDT

Stock No.	Mfr's Type	Terminals	Code	Length Stem	1-24	25-49	50-99	100-499	500-999
56 D 5945	7502K12	Screw	III	11/32"	.78	.72	.605	.545	.484
56 D 4592	7502K13	Screw	III	15/32"	.78	.72	.605	.545	.484
56 D 5948	7503K12	Solder	III	11/32"	.66	.61	.51	.459	.408
56 D 4796	7503K13	Solder	III	15/32"	.66	.61	.51	.459	.408
56 D 4575	7503K14	Faston	III	11/32"	.66	.61	.51	.459	.408
56 D 4576	7503K15	Faston	III	15/32"	.66	.61	.51	.459	.408
56 D 5949	7504K3	Screw	IV	11/32"	.78	.72	.60	.545	.484
56 D 4593	7504K4	Screw	IV	15/32"	.78	.72	.60	.545	.484
56 D 5950	7505K3	Solder	IV	11/32"	.66	.61	.51	.459	.408
56 D 4536	7505K4	Solder	IV	15/32"	.66	.61	.51	.459	.408
56 D 4578	7505K6	Faston	IV	15/32"	.66	.61	.51	.459	.408

[D] DPST

Stock No.	Mfr's Type	Terminals	Code	Length Stem	1-24	25-49	50-99	100-499	500-999
56 D 4594	7560K5	Screw	I	15/32"	1.06	.97	.81	.734	.652
56 D 5951	7560K6	Screw	I	11/32"	1.06	.97	.81	.734	.652
56 D 4537	7561K4	Solder	I	15/32"	.89	.82	.69	.621	.552
56 D 5934	7561K5	Solder	I	11/32"	.89	.82	.69	.621	.552
56 D 4579	7561K6	Faston	I	15/32"	.89	.82	.69	.621	.552
56 D 4580	7561K7	Faston	I	11/32"	.89	.82	.69	.621	.552
56 D 5619	7566K5	Screw	II	15/32"	1.06	.97	.81	.734	.652

[E] DPDT

Stock No.	Mfr's Type	Terminals	Code	Length Stem	1-24	25-49	50-99	100-499	500-999
56 D 4596	7562K4	Screw	III	15/32"	1.31	1.21	1.01	.905	.80
56 D 5952	7562K5	Screw	III	11/32"	1.31	1.21	1.01	.905	.80
56 D 4539	7563K4	Solder	III	15/32"	1.06	.97	.81	.734	.652
56 D 5953	7563K5	Solder	III	11/32"	1.06	.97	.81	.734	.652
56 D 4595	7564K6	Screw	IV	15/32"	1.31	1.21	1.01	.905	.80
56 D 5954	7564K7	Screw	IV	11/32"	1.31	1.21	1.01	.905	.80
56 D 4538	7565K5	Solder	IV	15/32"	1.06	.97	.81	.734	.652
56 D 5955	7565K6	Solder	IV	11/32"	1.06	.97	.81	.734	.652

[F] 3PST

Stock No.	Mfr's Type	Terminals	Code	Length Stem	1-24	25-49	50-99	100-499	500-999
56 D 5956	7600K3	Screw	I	Flush	2.13	1.97	1.64	1.48	1.31
56 D 4597	7610K2	Screw	I	15/32"	2.13	1.97	1.64	1.48	1.31
56 D 4543	7611K2	Solder	I	15/32"	1.83	1.69	1.41	1.26	1.12
56 D 4588	7611K4	Faston	I	15/32"	1.83	1.69	1.41	1.26	1.12
56 D 5958	8320K1*	Screw	I	15/32"	3.90	3.66	3.01	2.70	2.40

[F] 3PDT

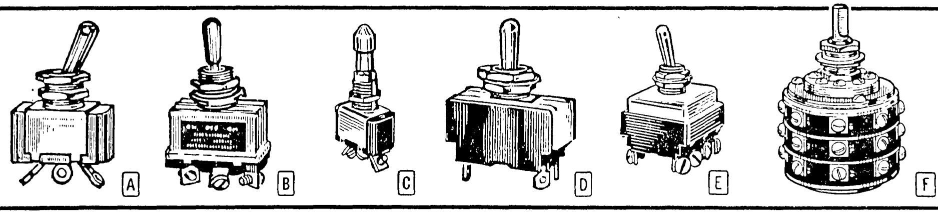
Stock No.	Mfr's Type	Terminals	Code	Length Stem	1-24	25-49	50-99	100-499	500-999
56 D 5957	7602K2	Screw	III	Flush	2.70	2.50	2.08	1.87	1.66
56 D 4598	7612K2	Screw	III	15/32"	1.83	1.69	1.41	1.26	1.12
56 D 4523	7613K2	Solder	III	15/32"	2.26	2.08	1.74	1.56	1.39
56 D 4799	7614K2	Screw	IV	15/32"	2.70	2.50	2.08	1.87	1.66
56 D 4798	7615K2	Solder	IV	15/32"	2.26	2.08	1.74	1.56	1.39

LEVER-TRAVEL CHART

Explanation of Roman Numeral code numbers appearing in tables on this page, to determine lever travel. *Indicates momentary contact.

Code No.	Lever Travel Up	Center	Down	Code No.	Lever Travel Up	Center	Down
I	On	None	Off	III	On	Off	On
II	Off	None	On*	IV	On	None	On

Cutler-Hammer Military Switches—Rotary and Toggle



MIL-S-3950A AND MIL-S-8834 (ASG) MILITARY SWITCHES

All have sealed levers and meet MIL-S-3950A, except †, which are environment sealed and meet MIL-S-8834 (ASG). All types listed have screw terminals. Rated 20 amps at 28 v. DC, 10 amps at 115 v. AC. Types with code numbers from XII to XIV incorporate a lever lock mechanism to prevent accidental operation. See Lever Travel Chart below for explanation of code numbers.

Stock No.	Mfr's Type	Gov't MS No.	Fig.	Code	EACH 1-24	25-49	50-99	100-249
SPST								
56 D 3818	8801K22	35058-22	A	VIII	1.41	1.30	1.09	.868
56 D 5972	8801K23	35058-24	A	IV	1.41	1.30	1.09	.868
56 D 5976	8811K17	35058-30	A	X	1.55	1.43	1.20	.956
56 D 3816	†8836K6	25306-242	B	IV	6.50	6.50	5.00	4.00
56 D 5626	†8836K9	25306-222	B	VIII	6.24	5.76	4.80	3.96
56 D 4590	†8836K11	25306-302	B	X	7.02	6.48	5.40	4.32
SPDT								
56 D 3817	8800K16	35058-21	A	I	1.70	1.57	1.31	1.04
56 D 3820	8810K15	35058-23	A	VI	1.70	1.57	1.31	1.04
56 D 3821	8812K14	35058-27	A	III	1.84	1.70	1.42	1.13
56 D 3815	†8836K1	25306-212	B	I	6.66	6.15	5.13	4.10
56 D 4599	†8836K3	25306-312	D	II	7.18	6.63	5.53	4.42
56 D 5627	†8836K4	25306-232	B	VI	6.66	6.15	5.13	4.10
56 D 5628	†8836K5	25306-262	B	VII	7.48	6.90	5.75	4.60
56 D 5629	8857K39	25125-1	C	XII	4.03	3.72	3.10	2.48
56 D 5632	8857K44	25125-8	C	XV	4.03	3.72	3.10	2.48
DPST								
56 D 3824	8822K20	35059-22	D	VIII	1.89	1.74	1.45	1.16
56 D 5977	8822K21	35059-24	D	IV	1.89	1.74	1.45	1.16
56 D 4505	8826K15	35059-30	D	X	2.27	2.10	1.75	1.40
56 D 4506	8828K13	35059-29	D	IX	2.27	2.10	1.75	1.40
56 D 5633	†8837K6	25307-242	B	IV	9.82	9.06	7.55	6.05
56 D 4507	†8837K7	25307-282	B	XI	10.43	9.63	8.03	6.42
56 D 5634	†8837K9	25307-222	B	VIII	9.56	8.82	7.35	5.88
DPDT								
56 D 3823	8820K16	35059-212	D	I	2.27	2.10	1.75	1.40
56 D 3825	8824K14	35059-232	D	VI	2.27	2.10	1.75	1.40
56 D 4509	8830K13	35059-26	D	VII	2.46	2.27	1.89	1.51
56 D 3826	8832K6	35059-31	D	II	2.46	2.27	1.89	1.51
56 D 3827	8834K5	35059-27	D	III	2.46	2.27	1.89	1.51
56 D 5635	†8837K1	25307-21	B	I	10.43	9.63	8.03	6.42
56 D 5636	†8837K4	25307-23	B	VI	10.43	9.63	8.03	6.42
56 D 5638	8858K39	25126-1	C	XII	4.62	4.26	3.55	2.84
56 D 5639	8858K40	25126-2	C	XIII	4.62	4.26	3.55	2.84
56 D 5641	8858K44	25126-8	C	XIV	4.62	4.26	3.55	2.84
4PST								
56 D 5982	7660K13	25068-24	E	IV	4.13	3.82	3.18	2.54
56 D 5644	†8838K6	25308-242	B	IV	22.95	21.18	17.65	14.12
56 D 5645	†8838K9	25308-222	B	VIII	22.95	21.18	17.65	14.12
4PDT								
56 D 5980	7662K7	25068-21	E	I	5.16	4.76	3.97	3.18
56 D 5981	7664K5	25068-23	E	VI	5.16	4.76	3.97	3.18
56 D 5646	7670K6	25068-31	E	II	6.21	5.73	4.78	3.82
56 D 5647	7672K5	25068-27	E	III	6.21	5.73	4.78	3.82
56 D 5648	7674K5	25068-26	E	VII	6.21	5.73	4.78	3.82
56 D 5649	†8838K1	25308-212	B	I	24.05	22.20	18.50	14.80
56 D 5650	†8838K4	25308-232	B	VI	24.05	22.20	18.50	14.80
56 D 5651	†8838K5	25308-262	B	VII	24.87	23.88	19.90	15.92
56 D 5652	8859K39	25127-1	C	XII	7.64	7.05	5.88	4.70

LEVER TRAVEL CHART

Explanation of Code Numbers. *Indicates momentary contact. Arrow (⟶) indicates direction of movement against which lever is locked.

Code No.	Lever Travel Up	Center	Down	Code No.	Lever Travel Up	Center	Down
I	On	Off	On	VIII	On	None	Off
II	On	Off	On*	IX	On	None	Off*
III	On*	Off	On*	X	Off	None	On*
IV	On	Off	None	XI	None	Off	On*
V	None	On	On*	XII	On⟶	⟵Off⟶	⟵On
VI	On	None	On	XIII	On	⟵Off⟶	On
VII	On	None	On*	XIV	On⟶	None	⟵On

JAN-S-23 AIRCRAFT-TYPE SWITCHES

A D ST42 switches are Fig. A; ST52, Fig. D. Rated 20 amps at 28 v. DC, 10 amps at 115 v. AC. All have solder terminals and 15/32" threaded stem, 15/32" dia. †Have sealed levers. See Lever Travel Chart below for explanation of code numbers.

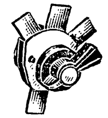
Stock No.	Mfr's Type	Gov't ST Nos.	Action	Code	EACH 1-24	25-49	50-99	100-249
56 D 4553	8802K6	ST42E	SPDT	I	1.24	1.14	.95	.76
56 D 4414	†8802K10	ST42E	SPDT	I	1.58	1.46	1.22	.972
56 D 4551	8803K6	ST42A	SPST	VIII	1.20	1.11	.92	.74
56 D 4415	†8803K10	ST42A	SPST	VIII	1.35	1.23	1.03	.82
56 D 5963	†8805K9	ST42F	SPDT	VII	1.72	1.59	1.33	1.06
56 D 4693	8815K6	ST42H	SPDT	II	1.35	1.25	1.04	.832
56 D 4552	8816K5	ST42D	SPDT	VI	1.24	1.14	.95	.76
56 D 4416	†8816K9	ST42D	SPDT	VI	1.58	1.46	1.22	.972
56 D 5960	8817K5	ST42C	SPST	X	1.27	1.17	.97	.78
56 D 4407	†8817K9	ST42C	SPST	X	1.48	1.36	1.14	.908
56 D 4695	8818K5	ST42G	SPDT	III	1.35	1.25	1.04	.832
56 D 5965	†8818K9	ST42G	SPDT	III	1.72	1.59	1.33	1.06
56 D 4696	8819K5	ST42B	SPST	IX	1.14	1.06	.88	.704
56 D 5969	8821K5	ST52P	DPDT	I	1.41	1.30	1.09	.868
56 D 4417	†8821K6	ST52P	DPDT	I	2.03	1.87	1.56	1.25
56 D 4554	8823K5	ST52K	DPST	VIII	1.25	1.16	.96	.772
56 D 4418	†8823K6	ST52K	DPST	VIII	1.73	1.60	1.33	1.06
56 D 4555	8825K5	ST52N	DPDT	VI	1.41	1.30	1.09	.868
56 D 4419	†8825K6	ST52N	DPDT	VI	2.03	1.87	1.56	1.25
56 D 4697	8827K5	ST52M	DPST	X	1.63	1.50	1.25	1.00
56 D 4699	8831K5	ST52R	DPDT	VII	1.82	1.68	1.40	1.12
56 D 4712	8833K3	ST52T	DPDT	II	1.82	1.68	1.40	1.12
56 D 4971	†8833K4	ST52T	DPDT	II	2.46	2.27	1.89	1.51
56 D 4713	8835K3	ST52S	DPDT	III	1.82	1.68	1.40	1.12
56 D 5970	†8835K4	ST52S	DPDT	III	2.22	2.05	1.71	1.37

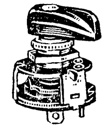
MIL-S-6807 PHENOLIC ROTARY SWITCHES

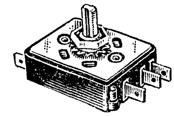
F Feature adjustable index, continuous rotation by omitting index screws. 5 amps at 28 v. DC and 115 v. AC. All have 8 positions and are non-shorting. Screw terminals. 17/32" shaft, 15/32" bushing (lengths). Hex nuts, locking ring, washer.

Stock No.	Mfr's Type	Gov't MS No.	Sec.	Action	EACH 1-24	25-49	50-99	100-249
56 D 5677	7261K13	25002-1	1	SP	5.69	5.25	4.38	3.50
56 D 5679	7262K12	25002-2	2	DP	9.10	8.40	7.00	5.60
56 D 5678	7263K11	25002-3	3	3P	12.03	11.10	9.25	7.40
56 D 5680	7264K9	25002-4	4	4P	14.95	13.80	11.50	9.20
56 D 5681	7265K9	25002-5	5	5P	17.88	16.50	13.75	11.00
56 D 5682	7266K5	25002-6	6	6P	20.80	19.20	16.00	12.80

ROTARY SWITCHES


7011, 7012


8122, 8123

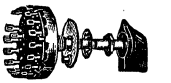

7241

ROTARY AC-DC AND AC SWITCHES. Ideal for fans, air conditioners, and similar uses. Types 7011K1 and 7012K4 (5A @ 125 V., 2A @ 250 V.) are AC-DC and have screw terminals, 3/8" stem length. Types 8122K4 and 8123K4 (3A @ 125 V.) are AC only and have solder lug terminals, 3/8" stem length. Heavy-duty inductive-load Type 7241K2 (1 hp @ 125 V., 15A @ 250 V.) is AC only and has "quick connect" 1/4" terminals, 5/16" stem length. All U.L. and C.S.A. Approved.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-99	100-499	500-999
56 D 5658	7011K1	2 on, 1 off	1.24	1.14	.95	.855	.76
56 D 5659	7012K4	3 on, 1 off	1.27	1.18	.98	.882	.784
56 D 5660	8122K4	2 on, 1 off	.49	.45	.38	.342	.304
56 D 5661	8123K4	3 on, 1 off	.53	.49	.41	.369	.328
56 D 5662	7241K2	DPDT	1.46	1.34	1.12	1.01	.896

Mallory Rotary Switches

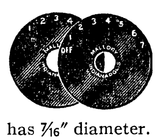
SERIES 3100J AND 3200J SINGLE-SECTION SWITCHES



Compact, enclosed, low-voltage switches. For use in receivers in tone control, band selector and antenna switching circuits and wherever space is limited. Insulation is high-quality phenolic resin. All have a 3/8" threaded bushing 3/8" long. 1/4" diameter shaft 2" long. Shafts are grooved at popular lengths for easy cutting. All 1 11/16" base types have adjustable stops. Breakdown rating is 500 volts, AC or DC. Current ratings (resistive load): .125 amps at 300 v. DC; 3-amps at 6 v. DC; .2 amps at 300 v. AC; 5 amps at 6v. AC. Bar knob and nut. Shpg. wt., 4 oz.

Shorting		Non-Shorting					EACH					
Stock No.	Mfr's Type	Stock No.	Mfr's Type	Poles	Positions	Base Dia.	1-4	5-9	10-24	25-49	50-99	100-499
56 D 4300	3115J	56 D 4350	3215J	1	5	1¼"	1.02	.85	.77	.73	.68	.61
56 D 4301	31112J	56 D 4351	32112J	1	12	1¼"	1.02	.85	.77	.73	.68	.61
56 D 4302	3122J	56 D 4352	3222J	2	2	1¼"	1.02	.85	.77	.73	.68	.61
56 D 4303	3123J	56 D 4353	3223J	2	3	1¼"	1.02	.85	.77	.73	.68	.61
56 D 4304	3126J	56 D 4354	3226J	2	6	1¼"	1.02	.85	.77	.73	.68	.61
56 D 4305	3134J	56 D 4355	3234J	3	4	1¼"	1.05	.88	.79	.75	.70	.63
56 D 4306	3142J	56 D 4356	3242J	4	2	1¼"	1.05	.88	.79	.75	.70	.63
56 D 4307	3143J	56 D 4357	3243J	4	3	1¼"	1.05	.88	.79	.75	.70	.63
56 D 4308	31117J	56 D 4358	32117J	1	17	1 11/16"	1.56	1.30	1.17	1.11	1.04	.94
56 D 4309	3129J	56 D 4359	3229J	2	9	1 11/16"	1.56	1.30	1.17	1.11	1.04	.94
56 D 4310	3136J	56 D 4360	3236J	3	6	1 11/16"	1.65	1.38	1.24	1.18	1.10	.99
56 D 4311	3163J	56 D 4361	3263J	6	3	1 11/16"	1.65	1.38	1.24	1.18	1.10	.99

DIAL PLATES



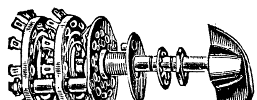
These dial plates are for switches 1200L, 1300L and 1¼" base 3100J and 3200J. Etched aluminum. Black background. 1 13/16" diameter plate. Mounting hole has 7/16" diameter. Shpg. wt., 4 oz.

30° SPACING FOR 1¼" BASE SWITCHES

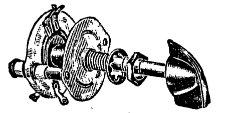
Mfr's Type	Marking	Mfr's Type	Marking
372	1 to 2	382	1 to 12
373	1 to 3	383	Off 1 to 3
374	1 to 4	384	Off 1 to 4
375	1 to 5	385	Off 1 to 5
376	1 to 6	386	Off 1 to 6
377	1 to 7	387	Off 1 to 7
378	1 to 8	388	Off 1 to 8
379	1 to 9	389	Off 1 to 9
380	1 to 10	390	Off 1 to 10
381	1 to 11	......	....

56 D 4600C. Specify Type........ Each .12

MULTIPLE CERAMIC-SECTION SWITCHES



176C



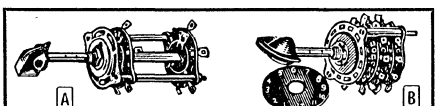
161C

Multi-contact selector switches designed for minimum RF losses. 30°-index switches feature adjustable stop; "Ham-bands" are capable of continuous rotation. All are non-shorting. Adjustable stop (30° indexing) types can be set for any number of positions from 2 to maximum shown in table. Silver-plated contacts. Maximum non-breaking current (resistive load), 10 amps. 1/2" spacing between 2-section types, except ‡1 7/8"; others have 1" spacing between sections. 1¼" base diameter. With 2" grooved shaft, knob and hardware. *Have an additional "off" position. Wt., 3 oz. per section.

30° INDEXING—500 VOLTS AC OR DC

Stock No.	Mfr's Type	Sections	Total Poles	Pos. Per Pole	EACH 1-4	5-9	10-24	25-49	50-99	100-499
56 D 4327	172C	1	1	11	2.37	1.98	1.78	1.69	1.58	1.42
56 D 4328	173C*	1	2	5	2.37	1.98	1.78	1.69	1.58	1.42
56 D 4329	174C*	1	3	3	2.37	1.98	1.78	1.69	1.58	1.42
56 D 4331	176C	2	2	11	3.39	2.83	2.54	2.42	2.26	2.03
56 D 4332	177C*	2	4	5	3.39	2.83	2.54	2.42	2.26	2.03
90° INDEX "HAMBAND" SWITCHES — 1000 VDC AND 100 WATTS										
56 D 4337	161C	1	1	4	2.16	1.80	1.62	1.54	1.44	1.30
56 D 4338	162C	2‡	2	4	3.06	2.55	2.30	2.18	2.04	1.84
56 D 4340	164C	4	4	4	4.86	4.05	3.65	3.46	3.24	2.92

SPECIAL-PURPOSE SWITCHES



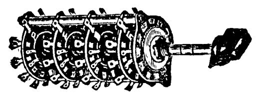
[A] Type 151L "Hamswitch". Two-section, 5-position switch; 1 pole per section. Non-shorting. 2¼" spacing between sections. Rated 1000 volts AC (rms) or 1500 volts DC. 60° indexing. With brass bushing 3/8" long, 3/8" dia. Shaft, 2" by 1/4" dia. is grooved for cutting. With hardware. Shpg. wt., 6 oz.

[B] Type 13124L 24-Point Tap Switch. Single circuit, 24-position, non-shorting tap switch. Excellent for use in test equipment applications. Continuous rotation, with 15° indexing between positions. Bushing, 3/8" dia. by 3/8" long. 2" shaft is notched for cutting. With dial plate and hardware. Shpg. wt., 6 oz.

[B] Type 1400L Circuit-Opening Switch. Opens any 1 of 12 circuits, maintains other 11. Ideal for meter switching, inserting resistors and capacitors, etc. Breaking currents: 6A @ 300 v. DC; 8A @ 6 v. DC; 1A @ 300 v. AC; 10A @ 6 v. AC. Non-breaking, 10A. Max. DC v., 500 v. 30° indexing. 1/2x2" shaft. 3/8x3/8" bushing. Hardware, dial plate. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-4	5-9	10-24	25-49	50-99	100-499
56 D 4318	151L	A	2.70	2.25	2.03	1.92	1.80	1.62
56 D 4295	13124L	B	2.76	2.30	2.07	1.97	1.84	1.66
56 D 4290	1400L	B	4.68	3.90	3.51	3.33	3.12	2.81

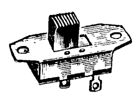
SERIES 1200L AND 1300L ROTARY SWITCHES



Phenolic sections. 1/2" spacing for 1 section, 1" for extras. 30° index. 1¾" dia. mtg. space. 3/8"-32 bushing, 3/8" long. Shaft, 1/4" dia. x2". Breakdown, 1000 v. AC or DC. 0.6 amps @ 300 VDC or 1 amp @ 300 VAC (resistive). With bar knob. †Add'l. "off" position, all circuits open. *No. of poles. Shpg. wt., 3 oz. per section.

Stock No.	Mfr's Type	Sec.	*	Pos. Per Pole	EACH 1-4	5-9	10-24	25-49	50-99	100-499
NON-SHORTING										
56 D 4251	1311L	1	1	11	2.10	1.75	1.58	1.50	1.40	1.26
56 D 4252	1315L†	1	2	5	2.10	1.75	1.58	1.50	1.40	1.26
56 D 4253	1313L†	1	3	3	2.10	1.75	1.58	1.50	1.40	1.26
56 D 4256	1321L	2	2	11	2.58	2.15	1.94	1.84	1.72	1.55
56 D 4257	1325L†	2	4	5	2.58	2.15	1.94	1.84	1.72	1.55
56 D 4258	1323L†	2	6	3	2.58	2.15	1.94	1.84	1.72	1.55
56 D 4261	1331L	3	3	11	3.24	2.70	2.43	2.31	2.16	1.94
56 D 4264	1341L	4	4	11	3.81	3.18	2.86	2.71	2.54	2.29
56 D 4265	1345L†	4	8	5	3.81	3.18	2.86	2.71	2.54	2.29
56 D 4266	1351L	5	5	11	4.11	3.43	3.08	2.93	2.74	2.47
56 D 4267	1356L	5	10	6	4.53	3.78	3.40	3.23	3.02	2.72
56 D 4268	1361L	6	6	11	4.83	4.03	3.62	3.44	3.22	2.90
SHORTING										
56 D 4201	1211L	1	1	11	2.10	1.75	1.58	1.50	1.40	1.26
56 D 4206	1221L	2	2	11	2.58	2.15	1.94	1.84	1.72	1.55
56 D 4207	1225L†	2	4	5	2.58	2.15	1.94	1.84	1.72	1.55
56 D 4211	1231L	3	3	11	3.24	2.70	2.43	2.31	2.16	1.94
56 D 4214	1241L	4	4	11	3.81	3.18	2.86	2.71	2.54	2.29
56 D 4215	1245L†	4	8	5	3.81	3.18	2.86	2.71	2.54	2.29

CONTINENTAL-WIRT ECONOMY SLIDE SWITCHES



Low-cost AC-DC switches for transmitters, receivers, instruments, etc. Have cadmium-plated steel housings, except *nickel-finished (an Arrow—Hart & Hegeman midget slide switch with black phenolic lever; requires only 7/8x1 7/32" cutout). All have solder lug terminals. Size, 35/64x1 13/32", except Type 81574, 1 3/8x1 7/32"; and miniature Types G124, G126, G128, 1x1 3/32". †Momentary. All are U.L. Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Amps @ 125 V.	EACH 1-9	10-99	100-499	500-999
56 D 5034	G124	SPDT	0.5	.32	.27	.18	.14
56 D 4424	G126	DPDT	0.5	.40	.33	.22	.165
56 D 5035	G128	DP3T	0.5	.54	.45	.30	.25
56 D 5853	81574*	SPST	3.0	.24	.20	.18	.16
56 D 5023	G323	SPST	3.0	.24	.19	.13	.08
56 D 5025	G324	SPDT	3.0	.24	.19	.13	.08
56 D 5920	G325	DPST	3.0	.25	.22	.15	.103
56 D 5921	G326	DPDT	3.0	.36	.30	.20	.145
56 D 5037	G337†	DPDT	3.0	.40	.33	.22	.165
56 D 5039	G328	DP3T	3.0	.36	.30	.20	.145
56 D 5032	G338	DP4T	3.0	.72	.60	.40	.29
56 D 5922	G369	3PDT	3.0	.48	.40	.27	.22
56 D 5036	G342	4PDT	3.0	.65	.54	.36	.305
56 D 5026	G623	SPST	6.0	.25	.22	.15	.098
56 D 5027	G624	SPDT	6.0	.25	.22	.15	.098
56 D 5033	G625	DPST	6.0	.34	.28	.19	.135
56 D 5084	G626	DPDT	6.0	.36	.30	.20	.145
56 D 5022	G1023	SPST	10.0	.36	.30	.20	.17

Precision Rotary Switches *shallcross*

SERIES 2—1¾" MINIATURE SWITCHES

√ Meet MIL-S-3786 Style SR14 Requirements—More Stringent than General Specs

√ Dual Arms Provide Consistent, Self-Cleaning Wiper Action for Low and Stable Contact Resistances

√ Dual, Balanced, Captive Balls Riding Hill-and-Dale Detent Assure Positive, Long Life Indexing

√ 50 Inch-Pound Stop Strength

√ Rugged Terminal Lugs Integral with Switch Contacts are Flared for Easier Wiring

√ Rugged Glass Fiber Impregnated Epoxy Laminate Decks with High Insulation Resistance

√ Most Compact Switch in Its Class

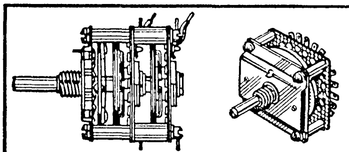
√ Adjustable Stops

ELECTRICAL SPECIFICATIONS. 50,000 Cycles at DC Loads (breaking): to 30 v., 1 amp. 10,000 Cycles at AC Resistive Loads (breaking): to 125 v., 2 amps. 100,000 Cycles Dry Circuit Conditions . . . Max. Inductive Load (75% power factor, breaking): 125 v., 1 amp 60 cps. Voltage Breakdown: (25°C, 50% R.H. Sea Level, 60 cps) 1500 v. Insulation Resistance: more than 10^{12} ohms. Initial Contact Resistance: 2 milliohms maximum.

MECHANICAL SPECIFICATIONS. Indexing Torque: 25-120 inch-ounces (1-15 poles). Wiper Arms: dual leaf, adjustable. Shaft: isolated.

DIMENSIONS. Deck: 1¾" square. Maximum Diameter Across Terminals: 2.375". Shaft: ¼" diameter x 1" long. Maximum Back Panel Depth: one deck, 1.187"; two decks, 1.760"; three decks, 2.333".

MATERIALS. Wiper Arms: solid spring tempered silver alloy. Contacts, Collector Rings, Segments, Terminals: solid silver alloy. Shaft, Mounting Plate, Stops, Bushing and Mtg. Hardware: passivated 18-8 stainless steel. Rotor: diallyl phthalate (glass reinforced), per MIL-M-14, Type 5DG-F. Rotor Bearing: nylon, MIL-P-17091B. Stator: glass fibre cloth epoxy laminate, MIL-P-18177B, Grade GEB.



2 Deck 1 Deck

ENVIRONMENTAL SPECIFICATIONS: Temp. Range: —65° to +125°C. Vibration: 10-2000 cps per MIL-S-3786B, Grade 3. Shock: per MIL-S-3786B, Type H. Salt Spray: 48 hours, per MIL-S-3786B. Humidity: per MIL-S-3786B. Av. Shpg. wt., 6 oz.

MOUNTING: ⅜"-32 bushing, 5/16" long.

SERIES 2—SHORTING SWITCHES

Stock No.	Mfr's Type	Poles /Deck	Max. Pos.	Index Deg.	Decks	EACH 1-9	10-24	25-49
56 D 3324	2E00A24-1	1	24	15	1	9.75	8.85	7.10
56 D 3325	2E06A11-1	2	11	15	1	10.50	9.50	7.65
56 D 3327	2E18A5-1	4	5	15	1	12.95	10.85	8.70
56 D 3328	2C00A32-1	1	32	11¼	1	9.75	8.85	7.10
56 D 3329	2C06A15-1	2	15	11¼	1	10.50	9.50	7.65
56 D 3331	2C18A7-1	4	7	11¼	1	12.95	10.85	8.70
56 D 3332	2E00A24-2	1	24	15	2	14.25	12.90	10.35
56 D 3333	2E06A11-2	2	11	15	2	15.50	14.00	11.25
56 D 3335	2E18A5-2	4	5	15	2	18.75	16.25	13.05
56 D 3336	2C00A32-2	1	32	11¼	2	14.25	12.90	10.35
56 D 3337	2C06A15-2	2	15	11¼	2	15.50	14.00	11.25
56 D 3339	2C18A7-2	4	7	11¼	2	18.75	16.25	13.05
56 D 3340	2E00A24-3	1	24	15	3	18.75	16.95	13.65
56 D 3341	2E06A11-3	2	11	15	3	20.50	18.50	14.90
56 D 3343	2E18A5-3	4	5	15	3	25.00	21.65	17.40
56 D 3344	2C00A32-3	1	32	11¼	3	18.75	16.95	13.65
56 D 3345	2C06A15-3	2	15	11¼	3	20.50	18.50	14.90
56 D 3347	2C18A7-3	4	7	11¼	3	25.00	21.65	17.40

SERIES 2—NON-SHORTING SWITCHES

Stock No.	Mfr's Type	Poles /Deck	Max. Pos.	Index Deg.	Decks	EACH 1-9	10-24	25-49
56 D 3300	2J50A12-1	1	12	30	1	9.75	8.85	7.10
56 D 3301	2J56A6-1	2	6	30	1	10.50	9.50	7.65
56 D 3303	2J68A3-1	4	3	30	1	12.95	10.85	8.70
56 D 3304	2H50A16-1	1	16	22½	1	9.75	8.85	7.10
56 D 3305	2H56A8-1	2	8	22½	1	10.50	9.50	7.65
56 D 3307	2H68A4-1	4	4	22½	1	12.95	10.85	8.70
56 D 3308	2J50A12-2	1	12	30	2	14.25	12.90	10.35
56 D 3309	2J56A6-2	2	6	30	2	15.50	14.00	11.25
56 D 3311	2J68A3-2	4	3	30	2	18.75	16.25	13.05
56 D 3312	2H50A16-2	1	16	22½	2	14.25	12.90	10.35
56 D 3313	2H56A8-2	2	8	22½	2	15.50	14.00	11.25
56 D 3315	2H68A4-2	4	4	22½	2	18.75	16.25	13.05
56 D 3316	2J50A12-3	1	12	30	3	18.75	16.95	13.65
56 D 3317	2J56A6-3	2	6	30	3	20.50	18.50	14.90
56 D 3319	2J68A3-3	4	3	30	3	25.00	21.65	17.40
56 D 3320	2H50A16-3	1	16	22½	3	18.75	16.95	13.65
56 D 3321	2H56A8-3	2	8	22½	3	20.50	18.50	14.90
56 D 3323	2H68A4-3	4	4	22½	3	25.00	21.65	17.40

SERIES 4—2½" SQUARE PRECISION SWITCHES—UP TO 48 CONTACT DECKS

Enlarged versions of Series 2, above, increase the total positions available per pole to 48 (shorting) or 24 (non-shorting) on 2½" square decks. Electro-mechanical reliability and ratings are comparable to Series 2 specifications. Meet MIL-S-3786, Style SR16 requirements. Shorting types have 7½ degree indexing; non-shorting types, 15 degree indexing. Dimensions: deck, 2½" square; maximum back of panel depth, single deck type, 1.5"; 2 deck, 2.125"; 3 deck, 2.750". All mount in a single hole with ⅜"-32 bushing, 5/16" long, and ¼" dia. x 1" long shaft. Hex nut and lockwasher supplied. Av. shpg. wt., 10 oz.

SERIES 4—2½" SHORTING TYPES

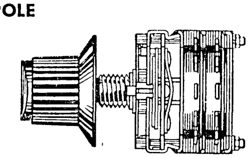
Stock No.	Mfr's Type	Poles /Deck	Max. Pos.	Decks	EACH 1-9	10-24	25-49
56 D 3348	4A00A48-1	1	48	1	14.00	12.50	10.75
56 D 3349	4A06A23-1	2	23	1	15.00	13.25	11.35
56 D 3351	4A18A11-1	4	11	1	17.00	14.75	12.55
56 D 3352	4A00A48-2	1	48	2	20.50	17.50	16.00
56 D 3353	4A06A23-2	2	23	2	22.50	19.00	17.20
56 D 3355	4A18A11-2	4	11	2	26.50	22.00	19.60
56 D 3356	4A00A48-3	1	48	3	27.50	24.00	21.00
56 D 3357	4A06A23-3	2	23	3	30.50	26.25	22.80
56 D 3359	4A18A11-3	4	11	3	36.50	30.75	26.40

SERIES 4—2½" NON-SHORTING TYPES

Stock No.	Mfr's Type	Poles /Deck	Max. Pos.	Decks	EACH 1-9	10-24	25-49
56 D 3360	4E50A24-1	1	24	1	14.00	12.50	10.75
56 D 3361	4E56A12-1	2	12	1	15.00	13.25	11.35
56 D 3363	4E68A6-1	4	6	1	17.00	14.75	12.55
56 D 3364	4E50A24-2	1	24	2	20.50	17.50	16.00
56 D 3365	4E56A12-2	2	12	2	22.50	19.00	17.20
56 D 3367	4E68A6-2	4	6	2	26.50	22.00	19.60
56 D 3368	4E50A24-3	1	24	3	27.50	24.00	21.00
56 D 3369	4E56A12-3	2	12	3	30.50	26.25	22.80
56 D 3371	4E68A6-3	4	6	3	36.50	30.75	26.40

SERIES 1—ONE-INCH-DIAMETER PRECISION SWITCHES—UP TO 12 POS/POLE

Rugged 1" rotary switches that establish electro-mechanical performance and reliability standards for this size classification. Meet all requirements of MIL-S-3786, Style SR04. Design features reduce contact resistance, voltage breakdown failures and switching noise. Enclosed construction provides dust protection and explosion-proofing. Rugged detent provides positive, long-life indexing. Silver plate or silver-alloy current carrying parts and glass filled diallyl phthalate stator. Easily adjusted stops for setting positions/pole. Max. dia. across terminals, 1.26". Back of panel dimension, .895", and 205" for each added section. Shaft, 1" long x ¼" dia.; ⅜"-32 bushing, 5/16" long. Ratings: 50,000 cycles for breaking loads to 100 VDC, .25 amps or 125 VAC, .25 amps; 10,000 cycles for 125 VDC, 1 amp or 100 VDC, 1 amp. Breakdown, 1000 v., RMS, 60 cps. Cont. resist. (typ.), .003 ohms. Av. shpg. wt., 3 oz.



Less Knob

SERIES 1—SHORTING TYPES

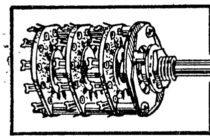
Stock No.	Mfr's Type	Total Poles	Pos/ Poles	No. of Sec.	EACH 1-9	10-24	25-49
56 D 3372	1J04A6-1	1	2-6	1	5.90	4.70	4.05
56 D 3373	1J04A6-2	2	2-6	2	6.75	5.55	4.85
56 D 3374	1J04A6-3	3	2-6	3	7.70	6.50	5.60
56 D 3375	1J00A12-1	1	2-12	2	6.50	5.40	4.60
56 D 3376	1J00A12-2	2	2-12	4	8.00	6.75	5.85
56 D 3377	1J00A12-3	3	2-12	6	10.00	8.20	7.40

SERIES 1—NON-SHORTING TYPES

Stock No.	Mfr's Type	Total Poles	Pos/ Poles	No. of Sec.	EACH 1-9	10-24	25-49
56 D 3378	1J54A6-1	1	2-6	1	5.90	4.70	4.05
56 D 3379	1J54A6-2	2	2-6	2	6.75	5.55	4.85
56 D 3380	1J54A6-3	3	2-6	3	7.70	6.50	5.60
56 D 3381	1J50A12-1	1	2-12	2	6.50	5.40	4.60
56 D 3382	1J50A12-2	2	2-12	4	8.00	6.75	5.85
56 D 3383	1J50A12-3	3	2-12	6	10.00	8.20	7.40

Knobs For Shallcross Switches. Wt., 1 oz. 47 D 6568 For Series 1.......Each .86   47 D 6581 For Series 2 and Series 4...........Each .90

Centralab High-Reliability Rotary Switches



PA-2000 SERIES

Precision Constructed

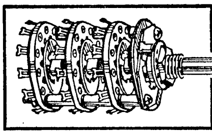
Rotary switches offering excellent RF characteristics. Feature extremely high flash-over points, high-Q, low-loss steatite bodies, minimum intercircuit capacity, and insulated front-back clips. All have positive 30° indexing, adjustable stop or continuous rotation, except * 60° indexing.

All are rated 2.75 amp @ 15 v. DC; 230 ma @ 115 v. AC. †Type 2042 has 1 off, up to 9 progressively shorting positions.

All are 1½x1⁷⁄₁₆″ dia.; have ⅜″ spacing between front plate and first section; ½″ spacing between all other sections. Sections are .105″ thick. Full round, ¼″ diameter shafts are 2¼″ long from mounting surfaces. Mount in single hole with ⅜″-32NEF-2A threaded bushing, ⅜″ long. With mounting nut, lockwasher, and 1¼″ black pointer knob, except ‡Bulk Pack, supplied less knobs (see below for knobs). Shpg. wt., 3 oz. per section.

MINIATURE CERAMIC SWITCHES—1½x1⁷⁄₁₆″ WAFERS

Non-Shorting Stock No.	Non-Shorting Type PA-	Shorting Stock No.	Shorting Type PA-	Total Poles	No. Pos.	Sections	EACH 1-4	5-9	10-24	25-49	50-99	‡Bulk Pack Multiples of 100 Only
56 D 4921	2001	56 D 4900	2000	1	2-12	1	2.61	2.18	1.96	1.86	1.74	1.39
56 D 4922	2003	56 D 4901	2002	2	2-6	1	2.61	2.18	1.96	1.86	1.74	1.39
56 D 4923	2005	56 D 4902	2004	2	2-12	2	3.72	3.10	2.79	2.65	2.48	1.97
56 D 4924	2007	56 D 4903	2006	3	2-5	1	2.61	2.18	1.96	1.86	1.74	1.39
56 D 4925	2009	56 D 4904	2008	3	2-12	3	4.74	3.95	3.56	3.38	3.16	2.51
56 D 4926	2011	56 D 4905	2010	4	2-6	2	3.72	3.10	2.79	2.65	2.48	1.97
56 D 4927	2013	56 D 4906	2012	4	2-12	4	5.70	4.75	4.28	4.07	3.80	3.02
56 D 4928	2015	56 D 4907	2014	5	2-3	1	2.61	2.18	1.96	1.86	1.74	1.39
56 D 4929	2017	56 D 4908	2016	5	2-12	5	6.81	5.68	5.11	4.85	4.54	3.61
56 D 4930	2019	56 D 4909	2018	6	2	1	2.61	2.18	1.96	1.86	1.74	1.39
56 D 4931	2021	56 D 4910	2020	6	2-5	2	3.72	3.10	2.79	2.65	2.48	1.97
56 D 4932	2023	56 D 4911	2022	6	2-6	3	4.74	3.95	3.56	3.38	3.16	2.51
56 D 4933	2025	56 D 4914	2024	6	2-12	6	7.92	6.60	5.94	5.64	5.28	4.19
56 D 4934	2027	56 D 4913	2026	8	2-6	4	5.70	4.75	4.28	4.07	3.80	3.02
56 D 4935	2029	56 D 4915	2028	9	2-5	3	4.74	3.95	3.56	3.38	3.16	2.51
56 D 4936	2031	56 D 4916	2030	10	2-3	2	3.72	3.10	2.79	2.65	2.48	1.97
56 D 4918	2033	56 D 4919	2032	10	2-6	5	6.81	5.68	5.11	4.85	4.54	3.61
56 D 4938	2035	56 D 4917	2034	12	2	2	3.72	3.10	2.79	2.65	2.48	1.97
56 D 4920	2037	56 D 4937	2036	12	2-6	6	7.92	6.60	5.94	5.64	5.28	4.19
56 D 4940	2039	56 D 4939	2038	15	2-3	3	5.37	4.48	4.03	3.83	3.58	2.84
56 D 4941	2041	56 D 4942	2040	18	2	3	5.37	4.48	4.03	3.83	3.58	2.84
....	......	56 D 4095	2042†	1	2-10	1	2.37	1.98	1.78	1.69	1.58	1.25
56 D 5445	2043*	....	......	1	2-6	1	2.37	1.98	1.78	1.69	1.58	1.25
56 D 5446	2045*	....	......	2	2-6	2	3.30	2.75	2.48	2.35	2.20	1.75



PA-1000 SERIES

Phenolic Insulated

All have 30° indexing, adjustable stop. 1½ x1⁷⁄₁₆″ dia.; shaft, 1⅞″ long. 2.75 amps @ 15 v. DC; 230 ma @ 115 v. AC. Index assemblies and hardware identical to PA-2000 Series. With knob, nut, lockwasher, except ‡Bulk Pack, supplied less knobs (see below for knobs). Shpg. wt., 3 oz.

MINIATURE PHENOLIC SWITCHES—1½x1⁷⁄₁₆″ WAFERS

Non-Shorting Stock No.	Non-Shorting Type PA-	Shorting Stock No.	Shorting Type PA-	Total Poles	No. Pos.	Sections	EACH 1-4	5-9	10-24	25-49	50-99	‡
56 D 5065	1001	56 D 5050	1000	1	2-11	1	1.98	1.65	1.49	1.42	1.32	1.05
56 D 5066	1003	56 D 5051	1002	2	2-5	1	1.98	1.65	1.49	1.42	1.32	1.05
56 D 5067	1005	56 D 5052	1004	2	2-11	2	2.82	2.35	2.12	2.01	1.88	1.49
56 D 5068	1007	56 D 5053	1006	3	2-3	1	1.98	1.65	1.49	1.42	1.32	1.05
56 D 5069	1009	56 D 5054	1008	3	2-11	3	3.57	2.98	2.68	2.55	2.38	1.89
56 D 5070	1011	56 D 5055	1010	4	2	1	1.98	1.65	1.49	1.42	1.32	1.05
56 D 5071	1013	56 D 5056	1012	4	2-5	2	2.82	2.35	2.12	2.01	1.88	1.49
56 D 5072	1015	56 D 5057	1014	4	2-11	4	4.17	3.48	3.13	2.97	2.78	2.21
56 D 5073	1017	56 D 4974	1016	5	2-11	5	4.92	4.10	3.69	3.51	3.28	2.60
56 D 5074	1019	56 D 5059	1018	6	2-3	2	2.82	2.35	2.12	2.01	1.88	1.49
56 D 5075	1021	56 D 5060	1020	6	2-5	3	3.57	2.98	2.68	2.55	2.38	1.89
56 D 5077	1025	56 D 4975	1024	8	2	2	2.82	2.35	2.12	2.01	1.88	1.49
56 D 5078	1027	56 D 5063	1026	8	2-5	4	4.17	3.48	3.13	2.97	2.78	2.21
56 D 5079	1029	56 D 4976	1028	12	2	3	3.57	2.98	2.68	2.55	2.38	1.89
56 D 5099	1031	56 D 5098	1030	10	2-5	5	4.92	4.10	3.69	3.51	3.28	2.60

KNOBS FOR BULK PACK OF SERIES 1000 AND 2000

Type 2300. Black pointer knobs (1¼″ diameter) for Series 1000 and 2000 switches supplied in Bulk Pack quantities. Wt., 1 oz.

47 D 4172. 1-24 .... Each .10
25-99 .... Each .081   100-499 .... Each .07

PA-1000 PHENOLIC SECTIONS

For custom switches. Separate sections and shaft and index assemblies (below and right), provide maximum flexibility for switch requirements. Same ratings as PA-1000 Series switches, above. For PA-300, PA-301 and PA-302 shaft and index assemblies at right. All 30° indexing, adjustable stop. *All unused contacts on one side of common are connected and shorted out. †All unused contacts connected and shorted out. Av. Shpg. wt., 2 oz.

Shorting Stock No.	Shorting Type PA-	Non-Shorting Stock No.	Non-Shorting Type PA-	Total Poles	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5080	30	56 D 5085	31	1	2-11	.96	.80	.72	.68	.64	.58
56 D 5081	32	56 D 5086	33	2	2-5	.96	.80	.72	.68	.64	.58
56 D 5082	34	56 D 5087	35	3	2-3	.96	.80	.72	.68	.64	.58
56 D 5083	36	56 D 5088	37	4	2	.96	.80	.72	.68	.64	.58
56 D 5447	38*	56 D 5448	39*	1	2-5	.96	.80	.72	.68	.64	.58
56 D 5236	40†	56 D 5237	41†	2	2-11	.96	.80	.72	.68	.64	.58

PA-2000 CERAMIC SECTIONS

All have 30° indexing. For use with index assemblies PA-300, PA-301 and PA-302 listed in next column. *Unused contacts on one side of common are connected and shorted out. †Unused contacts are connected and shorted out. ‡Has one off, and up to 9 shorting positions. Shpg. wt., 2 oz.

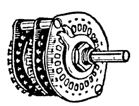
Shorting Stock No.	Shorting Type PA-	Non-Shorting Stock No.	Non-Shorting Type PA-	Total Poles	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5040	0	56 D 5045	1	1	2-12	1.32	1.10	.99	.94	.88	.79
56 D 5041	2	56 D 5046	3	2	2-6	1.32	1.10	.99	.94	.88	.79
56 D 5042	4	56 D 5047	5	3	2-5	1.32	1.10	.99	.94	.88	.79
56 D 4972	6	56 D 4973	7	5	2-3	1.32	1.10	.99	.94	.88	.79
56 D 5044	8	56 D 5049	9	6	2	1.32	1.10	.99	.94	.88	.79
56 D 4943	10*	56 D 4957	19*	1	2-5	1.32	1.10	.99	.94	.88	.79
56 D 5238	11†	56 D 5240	18†	2	2-11	1.32	1.10	.99	.94	.88	.79
56 D 5239	12‡	....	.....	1	2-10	1.32	1.10	.99	.94	.88	.79

PA-300 SERIES SHAFT AND INDEX ASSEMBLIES

Hardware for assembling miniature switches. Each type contains a 30° PA index assembly, a P-120 pointer knob, an adjustable stop plate, an assortment of spacers, tie bolts, nuts, fiber spacer washers, lock washers, and instructions. Shpg. wt. 3 oz.

Stock No.	Type PA-	Shaft Lgth	Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5092	300	2″	1-3	1.50	1.25	1.13	1.07	1.00	.90
56 D 5093	301	4″	4-6	1.98	1.65	1.49	1.42	1.32	1.19
56 D 5094	302	6″	7-9	2.58	2.15	1.94	1.84	1.72	1.55

PA-3000 AND PA-4000 SERIES SWITCHES



18 and 24-position switches using hill-and-dale index mechanism. Voltage breakdown, 1000 v. AC rms. Sections are 2⁵⁄₁₆″ high, ¹⁄₁₆″ thick. PA-3000 Series. 2¹¹⁄₆₄″ wide; PA-4000 Series, 1¾″ wide. ¼″ dia. shafts. 2¼″ long. Rated 5.5 amp @ 6 v. DC; 2.75 amp @ 15 v. DC; 1.75 amp @ 24 v. DC; 230 ma @ 115 v. AC rms. Indexing: PA-3000, 20°; PA-4000, 15°. Wt., 4 oz.

NON-SHORTING TYPES

Stock No.	Type PA-	Sections	Total Poles	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 6240	3001	1	1	2-17	2.04	1.70	1.53	1.45	1.36	1.22
56 D 6241	3003	2	2	2-17	2.94	2.45	2.21	2.09	1.96	1.76
56 D 6242	3005	3	3	2-17	3.84	3.20	2.88	2.74	2.56	2.30
56 D 6243	3007	4	4	2-17	4.68	3.90	3.51	3.33	3.12	2.81
56 D 6244	4001	1	1	2-23	2.16	1.80	1.62	1.54	1.44	1.30
56 D 6245	4003	2	2	2-23	3.18	2.65	2.39	2.27	2.12	1.91
56 D 6246	4005	3	3	2-23	4.17	3.48	3.13	2.97	2.78	2.50
56 D 6247	4007	4	4	2-23	4.98	4.15	3.74	3.55	3.32	2.99

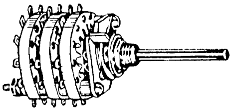
SHORTING TYPES

Stock No.	Type PA-	Sections	Total Poles	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 6288	3000	1	1	2-17	2.04	1.70	1.53	1.45	1.36	1.22
56 D 6289	3002	2	2	2-17	2.94	2.45	2.21	2.09	1.96	1.76
56 D 6290	3004	3	3	2-17	3.84	3.20	2.88	2.74	2.56	2.30
56 D 6291	3006	4	4	2-17	4.68	3.90	3.51	3.33	3.12	2.81
56 D 6292	4000	1	1	2-23	2.16	1.80	1.62	1.54	1.44	1.30
56 D 6293	4002	2	2	2-23	3.18	2.65	2.39	2.27	2.12	1.91
56 D 6294	4004	3	3	2-23	4.17	3.48	3.13	2.97	2.78	2.50
56 D 6295	4006	4	4	2-23	4.98	4.15	3.74	3.55	3.32	2.99

Rotary, Lever Switches and Assemblies

Centralab

SERIES PS-100 SUBMINIATURE CERAMIC ROTARY SWITCHES



Ultra-small; weigh less than 1 ounce, yet have same electrical characteristics as heavier and larger switches. For utmost dependability required in band switching, compact electronic equipment, transistor circuits, aircraft instruments, guided missiles, etc. 1″ dia. Bushing, ¼″ dia. by ¼″ long. Shaft, ⅛″ dia. by 1″ long. Silver-plated clips, contacts. Positive 30° indexing. Fixed stop. 3.5 amp at 6 v. DC or 160 ma at 110 v. AC. With knob, nut, lockwasher. Average shpg. wt., 4 oz.

Shorting Stock No.	Shorting Type PS-	Non-Shorting Stock No.	Non-Shorting Type PS-	Total Poles	No. of Pos.	Poles per Sec.	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5362	100	56 D 5350	101	1	11	1	1	4.80	4.00	3.60	3.42	3.20	2.88
56 D 5363	102	56 D 5300	103	2	11	1	2	6.00	5.00	4.50	4.28	4.00	3.60
56 D 5364	104	56 D 5352	105	2	5	2	1	4.80	4.00	3.60	3.42	3.20	2.88
56 D 5306	106	56 D 5301	107	3	11	1	3	7.20	6.00	5.40	5.13	4.80	4.32
56 D 5366	108	56 D 5354	109	3	3	3	1	4.80	4.00	3.60	3.42	3.20	2.88
56 D 5308	110	56 D 5355	111	4	5	2	2	6.00	5.00	4.50	4.28	4.00	3.60
56 D 5368	112	56 D 5356	113	4	2	4	1	4.80	4.00	3.60	3.42	3.20	2.88
56 D 5309	114	56 D 5302	115	6	5	2	3	7.20	6.00	5.40	5.13	4.80	4.32
56 D 5310	116	56 D 5358	117	6	3	3	2	6.00	5.00	4.50	4.28	4.00	3.60
56 D 5313	118	56 D 5303	119	8	2	4	2	6.00	5.00	4.50	4.28	4.00	3.60
56 D 5316	120	56 D 5304	121	9	3	3	3	7.20	6.00	5.40	5.13	4.80	4.32
56 D 5318	122	56 D 5361	123	12	2	4	3	7.20	6.00	5.40	5.13	4.80	4.32

SERIES PS-20 CERAMIC SECTIONS FOR ABOVE

For fixed-stop indexing and switching not supplied in PS-100 series subminiature switches above. Use with index and shaft assemblies P-501 through P-510 at right. Av. shpg. wt., 2 oz.

Shorting Stock No.	Shorting Type	Non-Shorting Stock No.	Non-Shorting Type	Total Poles	No. Pos.
56 D 5426	PS-20	56 D 5427	PS-21	1	2-11
56 D 5428	PS-22	56 D 5429	PS-23	2	2-5
56 D 5430	PS-24	56 D 5431	PS-25	3	2-3
56 D 5432	PS-26	56 D 5433	PS-27	4	2

1-4........Each 2.10 5-9.........Each 1.75 10-24......Each 1.58
25-49......Each 1.50 50-99......Each 1.40 100-249...Each 1.26

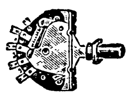
SERIES P-500 INDEX AND SHAFT ASSEMBLIES FOR ABOVE

Hardware for subminiature switches with up to 3 sections. Includes: P-106 pointer knob; 6—³⁄₃₂″ spacers; 2—¹⁄₁₆″ spacers; 2—⅛″ spacers; 2—³⁄₁₆″ spacers; 2—1⅛″ tie bolts, nuts, lockwashers; 16 plastic spacer washers. 30° indexing; fixed stop. 2 oz.

Stock No.	Type	No. of Pos.	Stock No.	Type	No. of Pos.
56 D 5434	P-501	2	56 D 5320	P-506	7
56 D 5435	P-502	3	56 D 5321	P-507	8
56 D 5436	P-503	4	56 D 5324	P-508	9
56 D 5437	P-504	5	56 D 5329	P-509	10
56 D 5438	P-505	6	56 D 5330	P-510	11

1-4........Each 1.95 5-9........Each 1.63 10-24......Each 1.47
25-49......Each 1.40 50-99......Each 1.30 100-249...Each 1.17

LOW-COST LEVER-ACTION PHENOLIC SWITCHES



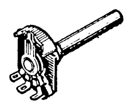
Dependable switches for new and replacement use in test equipment, intercoms, P.A. equipment, speaker selectors, and other applications. Feature nylon rotor and silver-plated brass clips and contacts. All have 30° indexing. Voltage breakdown of 1000 v. AC rms. Contacts rated 2.75 amps at 15 v. DC; 230 ma at 115 v. AC rms. Contact resistance is .005 ohms. Minimum rotational life is 25,000 cycles. Mounting bracket has two 6-32 tapped holes on 1⅝″ centers. Laminated phenolic insulation. 1⅞x⁷⁄₁₆″ (1¼″ behind panel.) With knob and mounting hardware. See mounting plates listed below. Av. shpg. wt., 4 oz.

Shorting Stock No.	Shorting Mfr's Type	Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	Type of Indexing	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 4021	1452	56 D 4026	1454	2	3	Positive	1.26	1.05	.95	.90	.84	.76
56 D 4022	1453	56 D 4027	1455	2	3	Spring Return	1.26	1.05	.95	.90	.84	.76
56 D 4023	1466	56 D 4028	1467	2	3	Pos. & Sp. Ret.	1.26	1.05	.95	.90	.84	.76
56 D 4025	1456	56 D 4030	1457	4	2	Spring Return	1.44	1.20	1.08	1.03	.96	.86
56 D 4024	1459	56 D 4029	1458	4	2	Positive	1.44	1.20	1.08	1.03	.96	.86

Mounting Plates For Lever-Action Switches. Black wrinkle finished steel. ¾″ spacing between switch openings. Av. wt., 4 oz.

Stock No.	Mfr's Type	Switch Openings	Size	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 4050	P-1755	1	¾x2⅝″	.30	.25	.23	.22	.20	.18
56 D 4051	P-1756	2	1½x2⅝″	.30	.25	.23	.22	.20	.18
56 D 4052	P-1757	3	2¼x2⅝″	.30	.25	.23	.22	.20	.18
56 D 4053	P-1758	4	3x2⅝″	.30	.25	.23	.22	.20	.18

SMALL GENERAL-PURPOSE SWITCHES



Step-type switches rated 1.75 amps at 24 v. DC; 230 ma at 115 v. AC. Shaft, ¼″ dia., 1⅞″ long except †2⅜″. All have non-shorting contacts, except *shorting. Type 1472 is for use in FM-AM-phonos. Types 1463 and 1464 are for intercoms. 5 oz.

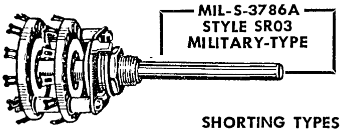
Stock No.	Mfr's Type	Description
56 D 4080	1460*	SPDT phono-radio
56 D 4081	1461*	SP-3-pos. selector
56 D 4082	1462*	DPDT bandswitch
56 D 4083	1463	SPDT momentary
56 D 4084	1464	DPDT momentary
56 D 5235	1472	DP-3-position

1-4......Each 1.08 5-9.........Each .90
10-24....Each .81 25-49.......Each .77
50-99....Each .72 100-249....Each .65

Stock No.	Mfr's Type	Description
56 D 4073	1465*†	SP-4-position with AC line switch

1-4.....Each 1.80 5-9.......Each 1.50
10-24...Each 1.35 25-49.....Each 1.28
50-99...Each 1.20 100-249...Each 1.08

SERIES PA-6000 MINIATURE CERAMIC ROTARY SWITCHES



MIL-S-3786A
STYLE SR03
MILITARY-TYPE

1⁹⁄₃₂″ dia. Pos. 30° indexing. Adjustable stop, except *fixed stop. 450 ma @ 115 v. AC; 8 amps @ 6 v. DC; 5½ amps @ 12 v. DC. Knob, lockwasher. 4 oz.

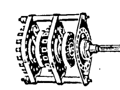
SHORTING TYPES

Stock No.	Type PA	Total Poles	No. of Pos.	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 6111	6000	1	2-11	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6113	6002	2	2-5	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6115	6004	2	2-11	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 6117	6006	3	2-3	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6119	6010*	4	2	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 5331	6012	4	2-5	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 5335	6018	6	2-3	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 5336	6024*	8	2	2	5.19	4.33	3.90	3.71	3.46	3.11

NON-SHORTING TYPES

Stock No.	Type PA	Total Poles	No. of Pos.	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 6112	6001	1	2-11	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6114	6003	2	2-5	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6116	6005	2	2-11	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 6118	6007	3	2-3	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6120	6011*	4	2	1	3.39	2.83	2.55	2.42	2.26	2.03
56 D 6121	6013	4	2-5	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 6122	6019	6	2-3	2	5.19	4.33	3.90	3.71	3.46	3.11
56 D 5337	6025*	8	2	2	5.19	4.33	3.90	3.71	3.46	3.11

JV-9000 HEAVY-DUTY ROTARY POWER SWITCHES



Silicone-treated ceramic switches for transmitters, industrial and commercial controls, and test gear. Rated 9 amps at 110 v. AC (resistive); 30 amps at 5 v. DC; .015 amp at 2500 v. DC. Breakdown, 3000 v. RMS. 20° positive index; adjustable stop. All metal parts except clips, contacts and index spring are cadmium plated. Coin silver contacts. Non-shorting, except †shorting. Bushing, ⅜″x32 thread, ⅜″ long. Flattened shaft, ¼x1⅞″. ⅛″ thick ceramic sections; 1″ spacing between sections. Wafer size, 2x2 ¹³⁄₁₆″. 4 oz.

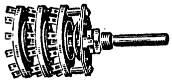
Stock No.	Type JV-	Sec.	Total Poles	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99
56 D 5115	9001	1	1	2-17	10.50	8.75	7.88	7.49	7.00
56 D 5116	9033	1	2	2-8	10.50	8.75	7.88	7.49	7.00
56 D 5117	9005	2	2	2-17	17.40	14.50	13.05	12.40	11.60
56 D 5118	9003	1	3	2-5	10.50	8.75	7.88	7.49	7.00
56 D 5119	9009	3	3	2-17	24.30	20.25	18.23	17.32	16.20
56 D 5120	9035	2	4	2-8	17.40	14.50	13.05	12.40	11.60
56 D 5121	9013	4	4	2-17	31.20	26.00	23.40	22.23	20.80
56 D 5123	9007	2	6	2-5	17.40	14.50	13.05	12.40	11.60
56 D 5124	9037	3	6	2-8	24.30	20.25	18.23	17.32	16.20
56 D 5125	9021	6	6	2-17	45.30	37.75	33.98	32.28	30.20
56 D 5126	9039	4	8	2-8	31.20	26.00	23.40	22.23	20.80
56 D 5128	9015	4	12	2-5	31.20	26.00	23.40	22.23	20.80
56 D 5129	9019	5	15	2-5	38.10	31.75	28.58	27.15	25.40
56 D 5100	9000	1†	1	2-17	10.50	8.75	7.88	7.49	7.00
56 D 5102	9004	2†	2	2-17	17.40	14.50	13.05	12.40	11.60
56 D 5103	9002	1†	3	2-5	10.50	8.75	7.88	7.49	7.00

Centralab Rotary Switches and Acro Snap-Switches

Centralab

ROTARY SWITCHES AND ASSEMBLIES

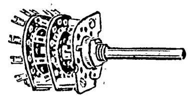
SERIES 2500 CERAMIC ROTARY SWITCHES—1⅝x1⅞″ WAFERS



Silicone-treated steatite switches for band change and tap-switch uses. Provide breakdown voltage of 1500 volts RMS. All are rated 2.75 amps at 15 volts DC; 230 ma at 115 volts AC, make and break, resistive load. All metal parts, except clips and contacts, are cadmium-plated steel. Switch, 1⅝x1⅞″ diameter. ½″ spacing between sections for 1- and 2-section switches; 1″ spacing for others. Bushing, ⅜″ diameter x ⅜″ long. Shaft, ¼″ dia. x 2¼″ long from mounting surface. Positive 30° indexing; adjustable stop. 3 oz. per section.

Shorting Stock No.	Shorting Mfr's Type	Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	Poles per Sec.	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5214	2500	56 D 5225	2501	1	2-6	1	1	2.82	2.35	2.12	2.01	1.88	1.69
56 D 5215	2502	56 D 5226	2503	1	2-11	1	1	2.82	2.35	2.12	2.01	1.88	1.69
56 D 5216	2504	56 D 5227	2505	2	2-5	2	1	2.82	2.35	2.12	2.01	1.88	1.69
56 D 5217	2506	56 D 5228	2507	3	2-3	3	1	2.82	2.35	2.12	2.01	1.88	1.69
56 D 5218	2510	56 D 5229	2511	2	2-6	1	2	4.02	3.35	3.02	2.87	2.68	2.41
56 D 5219	2512	56 D 5340	2513	2	2-11	1	2	4.02	3.35	3.02	2.87	2.68	2.41
56 D 5220	2514	56 D 5231	2515	4	2-5	2	2	4.02	3.35	3.02	2.87	2.68	2.41
56 D 5348	2516	56 D 5232	2517	6	2-3	3	2	4.02	3.35	3.02	2.87	2.68	2.41
56 D 5343	2520	56 D 5344	2521	3	2-6	1	3	5.16	4.30	3.87	3.68	3.44	3.10
56 D 5223	2522	56 D 5201	2523	3	2-11	1	3	5.16	4.30	3.87	3.68	3.44	3.10
56 D 5349	2524	56 D 5202	2525	6	2-5	2	3	5.16	4.30	3.87	3.68	3.44	3.10

SERIES 1400 PHENOLIC ROTARY SWITCHES—1⅝x1⅞″ WAFERS



Complete line of laminated, phenolic-insulated rotary switches. Used primarily for band change and general tap-switch applications where miniaturization is not essential. Switch, 1⅝x1⅞″ diameter. Bushing, ⅜″ diameter x ⅜″ long. Shaft, 1⅞″ long from end of bushing.

Index assemblies and hardware are identical to Series 2500 (above) allowing interchangeability. All metal parts, except clips and contacts, are cadmium-plated steel. Positive 30° indexing. Come complete with mounting nut, washer and 1¼″ black pointer knob. All are rated 2.75 amps at 15 volts DC; 230 ma at 115 volts AC, make and break, resistive load. Provide breakdown voltage of 1000 volts. 3 oz. per section.

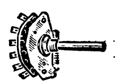
Shorting Stock No.	Shorting Mfr's Type	Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	Poles per Sec.	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5182	1400	56 D 5163	1401	1	2-6	1	1	2.52	2.10	1.89	1.80	1.68	1.51
56 D 5183	1402	56 D 5164	1403	1	2-11	1	1	2.52	2.10	1.89	1.80	1.68	1.51
56 D 5184	1404	56 D 5165	1405	2	2-5	2	1	2.52	2.10	1.89	1.80	1.68	1.51
56 D 5132	1406	56 D 5166	1407	3	2-3	3	1	2.52	2.10	1.89	1.80	1.68	1.51
56 D 5186	1408	56 D 5167	1409	4	2	4	1	2.52	2.10	1.89	1.80	1.68	1.51
56 D 5187	1410	56 D 5168	1411	2	2-6	1	2	3.06	2.55	2.30	2.19	2.04	1.84
56 D 5188	1412	56 D 5169	1413	2	2-11	1	2	3.06	2.55	2.30	2.19	2.04	1.84
56 D 5189	1414	56 D 5170	1415	4	2-5	2	2	3.06	2.55	2.30	2.19	2.04	1.84
56 D 5133	1416	56 D 5171	1417	6	2-3	3	2	3.06	2.55	2.30	2.19	2.04	1.84
56 D 5191	1418	56 D 5172	1419	8	2	4	2	3.06	2.55	2.30	2.19	2.04	1.84
56 D 5134	1420	56 D 5135	1421	3	2-6	1	3	3.90	3.25	2.93	2.78	2.60	2.34
56 D 5136	1422	56 D 5174	1423	3	2-11	1	3	3.90	3.25	2.93	2.78	2.60	2.34
56 D 5137	1424	56 D 5175	1425	6	2-5	2	3	3.90	3.25	2.93	2.78	2.60	2.34
56 D 5138	1426	56 D 5139	1427	4	2-6	1	4	4.50	3.75	3.38	3.21	3.00	2.70
56 D 5140	1428	56 D 5141	1429	4	2-11	1	4	4.50	3.75	3.38	3.21	3.00	2.70
56 D 5197	1430	56 D 5178	1431	8	2-5	2	4	4.50	3.75	3.38	3.21	3.00	2.70

INDEX ASSEMBLIES FOR SERIES 1400 AND 2500

Dependable assemblies for use with above series sections. One-piece flat shaft, 3⁄16″ thick. 30° positive index. Includes one index, one P-120 pointer knob and hardware to complete switch. Use with sections at right to design special application switches. Wt., 2 oz.

Stock No.	Mfr's Type	No. of Sec.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5497	P-270	1-3	1.65	1.38	1.24	1.18	1.10	.99
56 D 5498	P-271	3-5	2.10	1.75	1.58	1.50	1.40	1.26
56 D 5499	P-272	5-10	2.85	2.38	2.14	2.03	1.90	1.71

GENERAL-PURPOSE ROTARY SWITCHES



Phenolic-insulated switches. Breakdown, 1000 v. AC. ⅜″ threaded shanks, ⅜″ long. ¼″ shafts, 1⅞″ long. Contacts rated 2.75 amps at 15 v. DC; 230 ma at 110 v. AC. With knobs. Momentary action, except *positive; †positive one side. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Total Poles	No. of Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 4054	1488	6	3	3.60	3.00	2.70	2.57	2.40	2.16
56 D 4055	1489	6†	3	3.60	3.00	2.70	2.57	2.40	2.16
56 D 4085	1450	4*	2	1.65	1.38	1.24	1.18	1.10	.99
56 D 4087	1451	4	2	1.98	1.65	1.49	1.42	1.32	1.19

CERAMIC SECTIONS FOR SERIES 2500

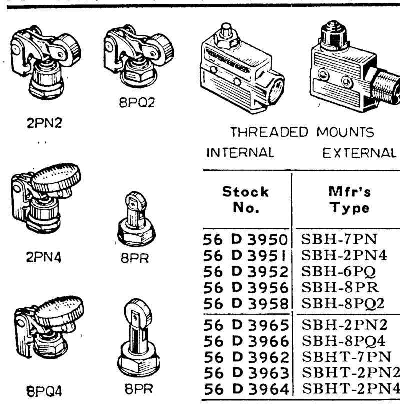
For changing sections of Series 2500 switches above. Have .187″ rotor slot for use with P-270, P-271 and P-272 assembles at left. All unused contacts of Types GGD and FFD connected and shorted out; Type PISD is progressive. *Total poles. 2 oz.

Shorting Stock No.	Shorting Type	Non-Shorting Stock No.	Non-Shorting Type	*	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5203	TD	56 D 5209	XD	1	2-6	1.35	1.13	1.02	.97	.90	.81
56 D 5204	UD	56 D 5210	YD	1	2-11	1.35	1.13	1.02	.97	.90	.81
56 D 5205	RD	56 D 5211	RRD	2	2-5	1.35	1.13	1.02	.97	.90	.81
56 D 5206	SD	56 D 5212	SSD	3	2-3	1.35	1.13	1.02	.97	.90	.81
56 D 5207	VD	56 D 5213	ZD	4	2	1.35	1.13	1.02	.97	.90	.81
56 D 5492	PISD	....	.....	1	2-10	1.35	1.13	1.02	.97	.90	.81
56 D 5208	GGD	56 D 5496	FFD	1	2-11	1.35	1.13	1.02	.97	.90	.81

PHENOLIC SECTIONS FOR SERIES 1400

For replacing or changing individual sections of Series 1400 rotary switches shown in listing above. Sections can also be used with index assemblies P-270, P-271 and P-272 (at left, above) to design and assemble switches with special characteristics. Shpg. wt., 2 oz.

Shorting Stock No.	Shorting Type	Non-Shorting Stock No.	Non-Shorting Type	*	No. Pos.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
56 D 5179	AD	56 D 5155	HD	1	2-6	1.05	.88	.79	.75	.70	.63
56 D 5180	BD	56 D 5156	JD	1	2-11	1.05	.88	.79	.75	.70	.63
56 D 5181	CD	56 D 5157	KD	2	2-5	1.05	.88	.79	.75	.70	.63
56 D 5150	DD	56 D 5158	LD	3	2-3	1.05	.88	.79	.75	.70	.63
56 D 5151	ED	56 D 5159	MD	4	2	1.05	.88	.79	.75	.70	.63



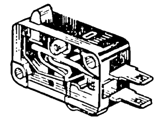
ACRO MODEL B SPLIT HOUSING METAL-CASED SWITCHES

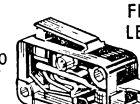
SPDT snap-action switches. Bottom enclosure removable for wiring. Liner seals split housing and insulates bottom enclosure. SBH types are internally threaded housing; SBHT types are externally threaded housing. Contacts rated 15 amps, 120-240-480 v. AC. Screw terminals. Side-mounting—two 6-32x1½″ screws and washers. Size (less actuator), 1¾x3³⁄₆₄x1″. U. L. and C. S. A. Listed. *Operating force in ounces. †Height with actuator. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Micro Equiv.	Actuator Type	*Oper. Force	Pre-Travel	† Height	EACH 1-9	10-19	20-49	50-99	100-199	200-499
56 D 3950	SBH-7PN	BZE6-2RN	Sealed plunger	9-24	.078″	2²³⁄₃₂″	6.50	5.85	5.20	4.55	4.23	4.10
56 D 3951	SBH-2PN4	BZE6-2RN4	Sealed manual	10-20	.188″	3¹¹⁄₃₂″	10.00	9.00	8.00	7.00	6.50	6.30
56 D 3952	SBH-6PQ	BZE6-2RQ	Plunger	9-13	.020″	1½″	5.05	4.55	4.04	3.54	3.28	3.18
56 D 3956	SBH-8PR	BZE6-2RQ8	Roller plunger	9-13	.020″	1¹⁵⁄₁₆″	8.60	7.74	6.88	6.02	5.59	5.42
56 D 3958	SBH-8PQ2	BZE6-2RQ2	Adj. roller	10-18	.188″	2⁹⁄₁₆″	8.60	7.74	6.88	6.02	5.59	5.42
56 D 3965	SBH-2PN2	....	Seal adj. roll	10-20	.188″	3¹¹⁄₃₂″	9.75	8.78	7.60	6.83	6.34	6.14
56 D 3966	SBH-8PQ4	....	Manual	10-18	3⁄16″	2⁹⁄₁₆″	9.10	8.19	7.18	6.37	5.92	5.73
56 D 3962	SBHT-7PN	....	Sealed plunger	9-24	.078″	2²³⁄₃₂″	6.50	5.85	5.20	4.55	4.23	4.10
56 D 3963	SBHT-2PN2	....	Seal adj. roll	10-20	.188″	3¹¹⁄₃₂″	9.75	8.78	7.60	6.83	6.34	6.14
56 D 3964	SBHT-2PN4	....	Sealed manual	10-20	.188″	3¹¹⁄₃₂″	10.00	9.00	8.00	7.00	6.50	6.30

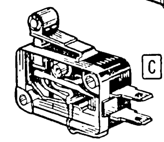
Snap-Action Switches by Acro Division

Robertshaw





Mechanical Life Up to 10,000,000 Operations!



SNAP-ACTION SPDT SWITCHES WITH MICRO EQUIVALENTS

Popular replacements for Microswitch types. Feature clip-on covers, constant-stress rolling spring snap-action for long life. Operating forces given in ounces. Switches have screw terminals, except * solder terminals. U.L. and C.S.A. Listed. Av. shpg. wt., 2 oz.

MODEL "V" MINIATURE TYPES WITH TRANSPARENT COVERS

Feature transparent sealed mechanism cover. Excellent contact wiping action and bounce-free motion. Mechanical life, 10 million operations. Rated 15 amps at 125-250 v., AC. Easy-handling, one-piece integral actuators. †Micro equivalent is basic switch with actuator harness.

Stock No.	Mfr's Type	Micro Equiv.	Oper. Force	Pre-Travel	Fig.	EACH 1-9	10-19	20-49	50-99	100-199	200-499
56 D 6504	*VD-0001	V3-19	14	.047″	A	1.02	.92	.82	.71	.66	.64
56 D 6525	VD-0007	V3-1	14	.047″	A	1.08	.97	.86	.76	.70	.68
56 D 6526	*VLD-0010	†V3-19 (JV-1)	14	.062″	B	1.12	1.01	.90	.79	.73	.71
56 D 6527	VLD-0012	†V3-1 (JV-1)	14	.062″	B	1.18	1.06	.94	.83	.77	.74
56 D 6528	*VLD-0013	†V3-19 (JV-7)	8	.156″	B	1.12	1.01	.90	.79	.73	.71
56 D 6524	VLD-0015	†V3-1 (JV-7)	8	.156″	B	1.18	1.06	.94	.83	.77	.74
56 D 6530	*VLD-0016	†V3-19 (JV-5)	14	.026″	C	1.30	1.17	1.04	.91	.85	.82
56 D 6531	VLD-0018	†V3-1 (JV-5)	14	.062″	C	1.38	1.24	1.10	.97	.90	.87
56 D 6632	*VLD-0019	†V3-19 (JV-20)	8	.156″	C	1.30	1.17	1.04	.91	.85	.82
56 D 6533	VLD-0021	†V3-1 (JV-20)	8	.156″	C	1.38	1.24	1.10	.97	.90	.87

STANDARD-DUTY TYPES

Contacts are rated at 15 amps, 120, 240 and 480 volts AC; 0.5 amps, 120 volts DC.

Stock No.	Mfr's Type	Micro Equiv.	Oper. Force	Pre-Travel	Fig.	1-9	10-19	20-49	50-99	100-199	200-499
56 D 3937	*BRD2-1A	BZ-2R	9-13	.020″	D	1.50	1.35	1.20	1.05	.98	.95
56 D 3969	BRD2-1A-1S	BZ-2R-A2	9-13	.020″	D	1.65	1.49	1.32	1.15	1.07	1.04
56 D 3968	*BRD2-5L	BZ-2RL	5	.156″	F	1.65	1.49	1.32	1.15	1.07	1.04
56 D 3971	BRD2-5L-1S	BZ-2RL-A2	5	.156″	F	1.75	1.58	1.40	1.23	1.14	1.10
56 D 3943	*BRD2-2M	BZ-2RL2	5	.156″	E	2.15	1.94	1.72	1.51	1.40	1.36
56 D 3970	BRD2-2M-1S	BZ-2RL2-A2	5	.156″	E	2.25	2.03	1.80	1.58	1.46	1.42
56 D 3944	*BRD2-70	BZ-2RD	9-13	.025″	G	1.85	1.67	1.48	1.30	1.26	1.17
56 D 3972	BRD2-70-1S	BZ-2RD-A2	9-13	.025″	G	1.95	1.76	1.56	1.37	1.27	1.23
56 D 3945	*BRD2-1P	BZ-2RQ1	9-13	.025″	H	3.45	3.11	2.76	2.42	2.24	2.17
56 D 3973	BRD2-1P-1S	BZ-2RQ1-A2	9-13	.025″	H	3.55	3.20	2.85	2.49	2.31	2.14
56 D 3946	*BRD2-10	BZ-2RS	9-13	.025″	J	1.85	1.67	1.48	1.30	1.20	1.17
56 D 3887	BRD2-10-1S	BZ-2RS-A2	9-13	.025″	J	1.95	1.76	1.56	1.37	1.27	1.23
56 D 3947	*BRD2-LW8	BZ-2RW	2½	.406″	K	1.90	1.70	1.52	1.37	1.24	1.20
56 D 3888	BRD2-LW8-1S	BZ-2RW-A2	2½	.406″	K	2.00	1.80	1.60	1.40	1.30	1.26
56 D 3948	*BRD2-LW228	BZ-2RW22	6	.140″	L	2.40	2.16	1.92	1.68	1.56	1.51
56 D 3949	BRD2-LW228-1S	BZ-2RW22-A2	6	.140″	L	2.50	2.25	2.00	1.75	1.63	1.58

HEAVY-DUTY TYPES

Rated at 21 amps, 120-240-480 volts AC; 1 hp at 120 volts AC and 2 hp at 240 v. AC. Screw term.

Stock No.	Mfr's Type	Micro Equiv.	Oper. Force	Pre-Travel	Fig.	1-9	10-19	20-49	50-99	100-199	200-499
56 D 6534	FAD2-1A-1S	BA-2R-A2	10-18	1/20″	D	1.65	1.49	1.32	1.16	1.07	1.04
56 D 6535	FAD2-5L-1S	BA-2RL-A2	9	11/32″	F	1.75	1.58	1.40	1.23	1.14	1.11
56 D 6536	FAD2-2M-1S	BA-2RL2-A2	9	11/32″	E	2.25	2.03	1.80	1.58	1.46	1.42
56 D 6538	FAD2-1P-1S	BA-2RQ1-A2	10-18	1/20″	H	3.55	3.20	2.84	2.49	2.31	2.24
56 D 6539	FAD2-LV-1S	BA-2RV-A2	2½	5/8″	K	2.00	1.80	1.60	1.40	1.30	1.26
56 D 6540	FAD2-LV2-1S	BA-2RV2-A2	2½	15/32″	L	2.50	2.25	2.00	1.75	1.63	1.58
56 D 6541	FAD2-40-1S	BA-2RB-A2	10-18	1/20″	G	1.95	1.76	1.56	1.37	1.47	1.43

SUBMINIATURE TYPES

Contacts rated at 5 amps, 120 and 240 volts AC. †Indicates double gang switch. Post solder term.

Stock No.	Mfr's Type	Micro Equiv.	Oper. Force	Pre-Travel	Fig.	1-9	10-19	20-49	50-99	100-199	200-499
56 D 6542	ZD-0024	1SM1	3-5	.008-.020″	M	1.18	1.06	.95	.83	.77	.75
56 D 6543	ZLD-0036	111-SM1-T	2	.094″	N	1.64	1.48	1.31	1.15	1.07	1.03
56 D 6544	ZLD-0037	111-SM2-T	2	.094″	P	1.98	1.78	1.59	1.39	1.29	1.25
56 D 6545	†ZPD-0088	....	20	.070″	R	6.50	5.85	5.20	4.55	4.23	4.10

MINIATURE LIGHT-PRESSURE SWITCHES

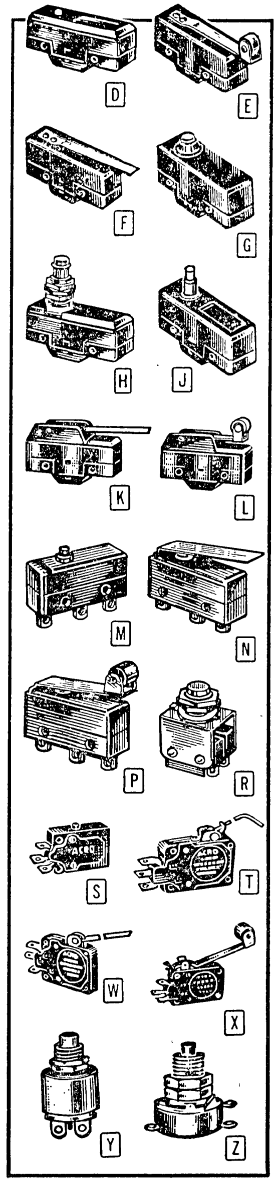
For a wide variety of applications. All are shock-resistant and constructed for long-life performance. "M" types rated 10 amps, 125-250 v. AC. "CM" types rated 3 amps, 250 v. AC. All are SPDT. Operating forces are in ounces except ‡grams. 1⅝x53/64x9/32″, excl. actuator. Solder term.

Stock No.	Mfr's Type	Actuator Type	Oper. Force	Pre-Travel	Fig.	EACH 1-9	10-19	20-49	50-99	100-199	200-499
56 D 5009	1MD1-1A	Pin plunger	6	1/32″	S	1.45	1.31	1.16	1.02	.94	.92
56 D 5019	2MD3-1A	Pin plunger	10	1/32″	S	1.45	1.31	1.16	1.02	.94	.92
56 D 5038	1MD1-1A-A18M	Roller	2	5/32″	X	2.05	1.85	1.64	1.44	1.33	1.29
56 D 5000	1MD1-1A-A18	Flat leaf	2	5/32″	W	1.85	1.67	1.48	1.30	1.20	1.17
56 D 5020	1CMD1-2AXX	Pin plunger	‡20-27	3/64″	S	1.45	1.31	1.16	1.02	.94	.92
56 D 5021	2CMD1-2AXX	Pin plunger	‡33-44	3/64″	S	1.45	1.31	1.16	1.02	.94	.92
56 D 5001	3CMD1-2AXX	Pin plunger	‡45-60	3/64″	S	1.45	1.31	1.16	1.02	.94	.92
56 D 5024	1CMD1-2AXX-A22	Wire leaf	‡2.5	......	T	1.75	1.58	1.40	1.23	1.14	1.10
56 D 5030	2CMD1-2AXX-A24	Flat leaf	‡4	......	W	1.75	1.58	1.40	1.23	1.14	1.10
56 D 5003	1CMD1-1AXX-A23M	Roller leaf	5-8	3/64″	X	1.75	1.58	1.40	1.23	1.14	1.10
56 D 5004	1CMD1-18AXX-A27	Nylon leaf	‡6	......	W	1.75	1.58	1.40	1.23	1.14	1.10

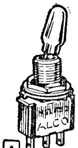
SNAP-ACTION PUSHBUTTON SWITCHES

Panel-mounting, momentary contact switches. All are overtravel plunger type. Solder lug terminals. Type QPD-5031 is SPDT; min. overtravel, .125″. Rated 10 amps, 125-250 v. AC. Types 3DO5-5P, 3DC5-5P compact SPST switches rated 6 amps, 250 v. AC; 12 amps, 125 v. AC. Min. overtravel, .007″. Type 3DO5-5P is NO, (has black button), 3DC5-5P is NC (red button).

Stock No.	Mfr's Type	Fig.	Oper. Force	Pre-Travel	Size H x Dia.	EACH 1-9	10-19	20-49	50-99	100-199	200-499
56 D 5328	QPD-5031	Z	8 oz.	.050″	1 5/64x2 3/32″	1.50	1.35	1.20	1.05	.98	.95
56 D 5028	3DO5-5P	Y	10-15 oz.	.10″	1 37/64x1 5/16″	1.75	1.58	1.40	1.23	1.14	1.10
56 D 5029	3DC5-5P	Y	10-15 oz.	.03-.06″	1 37/64x1 5/16″	1.75	1.58	1.40	1.23	1.14	1.10



Miniature Metal Cased Switches



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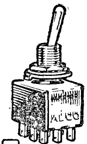


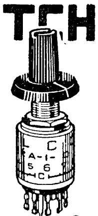
B

ALCOSWITCH

MINIATURE SWITCHES

- Ideal for Aircraft
- DPDT Only ½″ Square
- Solid Silver Contacts
- Imported From Japan

C



D

Ideal for high-density applications. Rated 5 amps @ 115 VAC. 1000 megs @ 500 VDC insulation test. 1000 v. @ 60 cycles breakdown. ¼″ bushing. *Momentary. †Special switch with 3 "on" positions. 1 oz.

[A] TOGGLE SWITCH—WHITE PLASTIC CAP—18° THROW

Stock No.	Type MST-	Action	EACH 1-24	25-99	100-499	500-999
56 D 3201	115D	SPDT On-None-On	1.65	1.12	.99	.83
56 D 3202	215N	DPDT On-None-On	2.15	1.43	1.29	1.08
56 D 3203	315D	3PDT On-None-On	3.85	2.57	2.31	1.92
56 D 3204	415N	4PDT On-None-On	4.85	3.29	2.96	2.55

[B] TOGGLE SWITCH—SLIM BAT HANDLE—30 THROW

Stock No.	Type	Action	1-24	25-99	100-499	500-999
56 D 3205	105D	SPDT On-None-On	1.65	1.12	.99	.83
56 D 3206	105E	SPDT On-Off-On	1.95	1.33	1.17	.97
56 D 3207	105F	SPDT On-None-On*	1.95	1.33	1.17	.97
56 D 3208	105G	SPDT On*-Off-On*	1.95	1.33	1.17	.97
56 D 3209	105H	SPDT On-Off-On*	1.95	1.33	1.17	.97
56 D 3210	205N	DPDT On-None-On	2.15	1.43	1.29	1.08
56 D 3211	205P	DPDT On-Off-On	2.55	1.72	1.53	1.28
56 D 3212	205R	DPDT On-None-On*	2.55	1.72	1.53	1.28
56 D 3213	205S	DPDT On*-Off-On*	2.55	1.72	1.53	1.28
56 D 3214	205T	DPDT On-Off-On*	2.55	1.72	1.53	1.28
56 D 3217	205PA	†DP3T On-On-On	2.85	1.90	1.71	1.42
56 D 3238	205TA	†DP3T On-On-On*	3.15	2.12	1.89	1.58
56 D 3215	305D	3PDT On-None-On	3.85	2.57	2.31	1.92
56 D 3235	305E	3PDT On-Off-On	4.15	2.78	2.49	2.07
56 D 3236	305H	3PDT On-Off-On*	4.15	2.78	2.49	2.07
56 D 3216	405N	4PDT On-None-On	4.85	3.29	2.96	2.55
56 D 6408	405P	4PDT On-Off-On	5.35	3.59	3.22	2.68

[C] PUSHBUTTON SWITCH WITH RED OR BLACK BUTTONS

Usable normally open or normally closed, 5 amps @ 115 VAC. Solid silver contacts. ½x½x¾″. *SPDT. †DPDT. Av. wt., 1 oz.

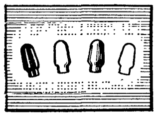
Stock No.	Type MSP-	Action	EACH 1-24	25-99	100-499	500-999
56 D 3233	105F-Black	*-Momentary	1.95	1.33	1.17	.97
56 D 3234	105F-Red	*-Momentary	1.95	1.33	1.17	.97
56 D 6409	105D-Black	*-Push on/off	1.95	1.33	1.17	.97
56 D 6410	105D-Red	*-Push on/off	1.95	1.33	1.17	.97
56 D 3231	205R-Black	†-Momentary	2.85	1.90	1.71	1.42
56 D 3232	205R-Red	†-Momentary	2.85	1.90	1.71	1.42
56 D 3218	205N-Black	†-Push on/off	2.85	1.90	1.71	1.42
56 D 3230	205N-Red	†-Push on/off	2.85	1.90	1.71	1.42

[D] ADJUSTABLE-STOP MINIATURE ROTARY SWITCH

Non-shorting. 36° spacing. ½″ dia. *With knob (5/32″ dia. shaft). †Without knob (⅛″ shaft). ‡Poles on single deck. 1 oz.

Stock No.	Mfr's Type	‡	Pos.	EACH 1-24	25-99	100-499	500-999
56 D 3219	MRA-1-10*	1	2-10	3.85	2.57	2.31	1.92
56 D 3220	MRA-2-5*	2	2-5	3.85	2.57	2.31	1.92
56 D 3221	MRA-3-3*	3	2-3	3.85	2.57	2.31	1.92
56 D 3222	MSRA-4-2*	4	2 (fixed)	3.85	2.57	2.31	1.92
56 D 3223	MRA-1-10S†	1	2-10	3.85	2.57	2.31	1.92
56 D 3224	MRA-2-5S†	2	2-5	3.85	2.57	2.31	1.92
56 D 3225	MRA-3-3S†	3	2-3	3.85	2.57	2.31	1.92
56 D 3226	MSRA-4-2S†	4	2 (fixed)	3.85	2.57	2.31	1.92

COLORED PLASTIC CAPS FOR TOGGLE SWITCHES, LEFT



White, red, black or blue. 25 in pkg. Specify color. 2 oz. per pkg.

Stock No.	For	PER PKG. OF 25 1-3	4-19	20-39
56 D 3237	All at left	.70	.63	.55

NEW ½″ ROTARY SWITCHES

Non-adjustable. Similar to standard MRA series, but with mechanical advantages and "O" rings for "waterproof" operation. Rear terminals are permanently sealed. Less knob, ⅛″ shaft. Av. wt., 1 oz.

Stock No.	Type MSRE-	Poles	Pos.	EACH 1-24	25-99	100-499	500-999
56 D 6380	1-10	1	10	4.85	3.23	2.91	2.43
56 D 6381	2-5	2	5	4.85	3.23	2.91	2.43
56 D 6382	3-3	3	3	4.85	3.23	2.91	2.43
56 D 6383	4-2	4	2	4.85	3.23	2.91	2.43

NEW "MUSTANG" SERIES SWITCHES

Features a standard 15/32″ hole mounting, but with a rear space requirement of a miniature switch. Case construction of low loss, high impact and temperature materials, with turret terminals and silver contacts. Rated 6 amp @ 115 VAC. Av. wt., 1 oz.

Stock No.	Type MSTG-	Action	EACH 1-24	25-99	100-499	500-999
56 D 6384	206N	DPDT On-None-On	2.75	1.87	1.65	1.38
56 D 6385	206P	DPDT On-Off-On	3.35	2.28	2.01	1.68
56 D 6386	206PA	DP3T On-On-On	3.65	2.48	2.19	1.83
56 D 6387	306D	3PDT On-None-On	4.45	3.03	2.67	2.23
56 D 6388	306E	3PDT On-Off-On	4.95	3.37	2.97	2.48
56 D 6389	406N	4PDT On-None-On	5.55	3.72	3.33	2.78
56 D 6390	406P	4PDT On-Off-On	6.15	4.18	3.69	3.08

NEW WATERPROOF SWITCH SERIES

New case design with high voltage barriers, low loss, high impact materials. Turret terminals. Bonded silver contacts rated 6 amp @ 115 VAC. "O" rings, permanently sealed terminals. Wt., 1 oz.

Stock No.	Type MSTE-	Action	EACH 1-24	25-99	100-499	500-999
56 D 6391	106D	SPDT On-None-On	1.95	1.33	1.17	.975
56 D 6392	106E	SPDT On-Off-On	2.55	1.72	1.53	1.28
56 D 6393	206N	DPDT On-None-On	2.55	1.72	1.53	1.28
56 D 6394	206P	DPDT On-Off-On	3.15	2.14	1.89	1.58
56 D 6395	206PA	DP3T On-On-On	3.45	2.35	2.07	1.73
56 D 6396	306D	3PDT On-None-On	4.25	2.89	2.55	2.13
56 D 6397	306E	3PDT On-Off-On	4.75	3.23	2.85	2.38
56 D 6398	406N	4PDT On-None-On	5.35	3.64	3.21	2.68
56 D 6399	406P	4PDT On-Off-On	5.95	4.05	3.57	2.98

SWITCH ACCESSORIES

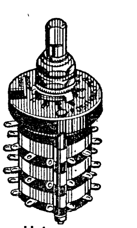
Stock No.	Mfr's Type	Description	PER PKG. OF 25 1-3	4-19	20-39	40-Up
56 D 6400	N-1	¼″-40 Knurled Nut	.70	.62	.55	.50
56 D 6401	N-1A	¼″-40 Perfect Fit Nut	1.00	.90	.82	.75
56 D 6402	N-1B	15/32″ Perfect Fit Nut	1.40	1.25	1.10	1.00
56 D 6403	N-1C	⅜″-32 Perfect Fit Nut	1.40	1.25	1.10	1.00
56 D 6404	N-2	¼″-40 Hex Nut	.55	.50	.45	.40

DELUXE ANODIZED ALUMINUM KNOBS

Designed for use with Series MSR and MSRE rotary switches having a ⅛″ diameter shaft. Av. shpg. wt, 1 oz.

Stock No.	Mfr's Type	Description	EACH 1-99	100-249	250-499	500-999
56 D 6405	KC-500A	Natural Aluminum	.55	.49	.47	.45
56 D 6406	KC-500B	Black Anodized	.55	.49	.47	.45
56 D 6407	KC-500-10	Black 0-9 Numerals	.65	.59	.56	.53

SERIES 44D ADJUSTABLE-STOP ROTARY TAP SWITCHES FOR CIRCUIT FLEXIBILITY

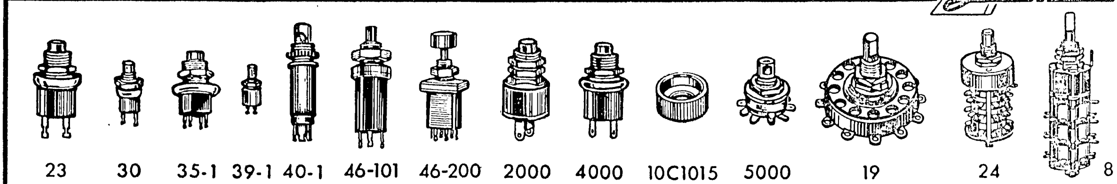


Unique, Adjustable-Stop System

Avoid replacements due to fixed-stop limitations. Fully enclosed switches with adjustable-stop system permit stop selection at any point to meet changes in circuit requirements. Have 1.162″ diameter, and 30° angle of throw. Ideal for labs, prototypes, and small production needs. Rated to make or break 1 amp at 115 volts AC resistive, or carry 10 amps. Have nonshorting contacts. Life expectancy, more than 100,000 cycles of operation. Contact resistance, .003 ohms or less initial, and .020 ohms or less after 25,000 cycles of operation at rated load. Insulation resistance, 50,000 megs minimum. Interchangeable with Series 44. Depth required behind panel and shpg. wts.: 1-deck types, 1.025″, 3 oz.; 2-deck, 1.371″, 4 oz. 3-deck, 1.717, 5 oz.

Stock No.	Mfr's Type	Poles /Deck	Max. Pos.	Decks	EACH 1-49	50-99
56 D 6368	44D30-1-1-ADJN	1	12	1	6.50	4.87
56 D 6369	44D30-1-2-ADJN	2	6	1	7.30	5.47
56 D 6370	44D30-1-3-ADJN	3	4	1	7.70	5.77
56 D 6371	44D30-1-4-ADJN	4	3	1	8.10	6.07
56 D 6372	44D30-2-1-ADJN	1	12	2	7.85	5.89
56 D 6373	44D30-2-2-ADJN	2	6	2	9.45	7.09
56 D 6374	44D30-2-3-ADJN	3	4	2	10.25	7.69
56 D 6375	44D30-2-4-ADJN	4	3	2	11.05	8.29
56 D 6376	44D30-3-1-ADJN	1	12	3	9.20	6.40
56 D 6377	44D30-3-2-ADJN	2	6	3	11.60	8.70
56 D 6378	44D30-3-3-ADJN	3	4	3	12.80	9.60
56 D 6379	44D30-3-4-ADJN	4	3	3	14.00	10.50

Miniature Switches



PUSHBUTTON SWITCHES

Rugged, momentary contact, pushbutton switches with solder-lug type terminals. Normally open types (indicated by n. o. in table below) have red buttons. Normally closed types (indicated by n. c. in table below) have black buttons. In Series 2000 and Series 46, "R" after Mfr's Type No. indicates red button, "B" black button. In Series 46, †in Action column indicates break-before-make, ‡make-before-break. Av. shpg. wt., 2 oz.

Series 23. Miniature, over 500,000 operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 4970	23-1	SPST n.o.	1/4	1 3/64x1/2"	21/64"	1.05	.79

Series 30. Subminiature, over 1 million operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 4967	30-1	SPST n.o.	1	63/64x3/8"	17/64"	.95	.71
56 D 4966	30-2	SPST n.c.	1	63/64x3/8"	17/64"	.95	.71

Series 35. Miniature, over 100,000 operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 4964	35-1	DPST n.o.	1/2	1 17/64x51/64"	31/64"	1.20	.90

Series 39. Ultra-miniature, over 1 million operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 4968	39-1	SPST n.o.	1/2	39/64x1/4"	11/64"	1.00	.75

Series 40. Miniature Button Light, over 500,000 operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 6031	40-1	SPST n.o.	1	1 27/32x7/16"	25/64"	2.00	1.50

Series 46. Miniature, over 250,000 operations.

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size L x Dia.	Mtg. Hole	EACH 1-49	EACH 50-99
56 D 6411	46-101R	SPDT†	1/4	1 1/3x7/16"	17/64"	1.40	1.05
56 D 6412	46-101B	SPDT†	1/4	1 1/3x7/16"	17/64"	1.40	1.05
56 D 6413	46-110R	SPDT‡	1/4	1 1/3x7/16"	17/64"	1.55	1.17
56 D 6414	46-110B	SPDT‡	1/4	1 1/3x7/16"	17/64"	1.55	1.17
56 D 6415	46-200R	DPDT†	1/4	1 9/16x17/32" sq.	17/64"	3.10	2.33
56 D 6416	46-200B	DPDT†	1/4	1 9/16x17/32" sq.	17/64"	3.10	2.33
56 D 6417	46-201R	DPDT‡	1/4	1 9/16x17/32" sq.	17/64"	3.40	2.55
56 D 6418	46-201B	DPDT‡	1/4	1 9/16x17/32" sq.	17/64"	3.40	2.55

Series 2000. Snap-Action, over 25,000 operations. Mtg. hole, 31/64".

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size Lx Dia.	EACH 1-49	EACH 50-99	EACH 100-499*
56 D 4872	2201	SPST .no.	10	1 59/64x7/8"	2.05	1.54	1.23
56 D 4873	2202	SPST n.c.	10	1 59/64x7/8"	2.05	1.54	1.23
56 D 6419	7-26R	SPDT	10	1 9/64x7/8"	3.50	2.62	2.10
56 D 6420	7-26B	SPDT	10	1 9/64x7/8"	3.50	2.62	2.10

Series 4000. Silent-Action, over 100,000 operations. Mtg. hole, 31/64".

Stock No.	Mfr's Type	Action	Amps @ 115 VAC	Size Lx Dia.	EACH 1-49	EACH 50-99	EACH 100-499*
56 D 4870	4001	SPST n.o.	1	1 17/32x51/64"	.90	.68	.54
56 D 4871	4002	SPST n.c.	1	1 17/32x51/64"	.90	.68	.54

Button Guard for Series 2000, 4000, 35. Cadmium-plated.

Stock No.	Mfr's Type	Description	1-49	50-99	100-499*
56 D 4971	10C1015	Provides button recess.	.25	.19	.15
56 D 6421	7C1040	Decorative mtg. nut.	.15	.12	.095

*Indicates items bulk-packed in quantities over 100.

SERIES 24 MINIATURE ROTARY TAP SWITCHES

Feature precision detent. 1 pole per deck. Nonshorting contacts. Break 1 amp or carry 5 amps, 115 v. AC, resistive. Breakdown, 500-1000 v. AC or better. Contact resistance, 0.003 ohms initial. Life expectancy, 100,000 operations. Insulation resistance, 50,000 megs. 36° indexing. Solder terminals. Diameter, 1". 3/8"-32 bushing. 0.25"-long flatted shaft. *Depth behind panel. 4 oz.

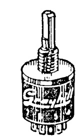
Pos.	1-Deck *.58" Stock No.	1-Deck Mfr's Type	EACH 1-49	EACH 50-99	2-Deck *1.39" Stock No.	2-Deck Mfr's Type	EACH 1-49	EACH 50-99
2	56 D 6032	24001-2	2.90	2.18	56 D 6041	24002-2	4.30	3.23
3	56 D 6033	24001-3	3.00	2.25	56 D 6042	24002-3	4.40	3.30
4	56 D 6034	24001-4	3.10	2.33	56 D 6043	24002-4	4.50	3.38
5	56 D 6035	24001-5	3.25	2.44	56 D 6044	24002-5	4.60	3.45
6	56 D 6036	24001-6	3.35	2.51	56 D 6045	24002-6	4.75	3.56
7	56 D 6037	24001-7	3.45	2.59	56 D 6046	24002-7	4.85	3.64
8	56 D 6038	24001-8	3.55	2.66	56 D 6047	24002-8	4.95	3.72
9	56 D 6039	24001-9	3.65	2.74	56 D 6048	24002-9	5.05	3.79
10	56 D 6040	24001-10	3.80	2.85	56 D 6049	24002-10	5.15	3.85

SERIES 5000 MINIATURE ROTARY TAP SWITCHES

Nonshorting switches with one pole and 2 to 10 positions per deck. 36° index. Rated to break 1 amp at 115 v., AC, resistive, or carry 5 amps. Mtg. hole 3/8" dia. 1 1/32" dia. *Depth behind panel. 4 oz.

Pos.	1-Deck *.47" Stock No.	1-Deck Mfr's Type	EACH 1-49	EACH 50-99	2-Deck *1.25" Stock No.	2-Deck Mfr's Type	EACH 1-49	EACH 50-99
2	56 D 5923	5001-2	1.60	1.20	56 D 5053	5002-2	3.60	2.70
3	56 D 5924	5001-3	1.65	1.24	56 D 5054	5002-3	3.70	2.78
4	56 D 5925	5001-4	1.70	1.27	56 D 5055	5002-4	3.80	2.85
5	56 D 5926	5001-5	1.75	1.31	56 D 5056	5002-5	3.90	2.93
6	56 D 5927	5001-6	1.80	1.35	56 D 5057	5002-6	4.00	3.00
7	56 D 5928	5001-7	1.85	1.39	56 D 5058	5002-7	4.10	3.08
8	56 D 5929	5001-8	1.90	1.42	56 D 5059	5002-8	4.20	3.15
9	56 D 5930	5001-9	1.95	1.46	56 D 5060	5002-9	4.30	3.23
10	56 D 5931	5001-10	2.00	1.50	56 D 5061	5002-10	4.40	3.30

NEW SERIES 50 ROTARY SWITCHES



Style "CD"—commercial version; no seals, adjustable stops, phenolic base. Style "MD"—military version; integral shaft and panel seal, adjustable stops, diallyl phthalate base. "MD" style meets environmental characteristics of MIL-S-3786. Both are rated to make or break 50 ma, 115VAC for 25,000 cycles; or 200 ma, 115 VAC for 10,000 cycles. All have nno-shorting contacts, 36° indexing. §Poles/deck. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Stop Adj.	EACH 1-49	EACH 50-99
56 D 6422	50CD36-01-1 §	2 thru 10	7.05	5.29
56 D 6423	50CD36-01-2 §	2 thru 5	8.20	6.15
56 D 6424	50MD36-01-1 §	2 thru 10	8.35	6.26
56 D 6425	50MD36-01-2 §	2 thru 5	9.50	7.12

SERIES 19 POWER TAP SWITCHES

Single-pole, single deck. 30° indexing. Built-in stops. Nonshorting contacts, 15 amps 115 v. AC resistive, 1 amp 115 v. DC resistive. Contact resistance, .010 ohm. Breakdown, 3500 v. AC. Life, 50,000 operations. Tinned fast-on term. suitable for soldering. 3/8"-32 bushing. 1.83x1.69" dia. Require 0.95" behind panel. 1/2"-long flatted shaft. U.L. Listed. 5 oz.

Stock No.	Mfr's Type	Positions	EACH 1-49	EACH 50-99
56 D 6339	19101-2UL	2	2.80	2.10
56 D 6340	19101-3UL	3	2.90	2.18
56 D 6341	19101-4UL	4	3.00	2.25
56 D 6342	19101-5UL	5	3.10	2.33
56 D 6343	19101-6UL	6	3.20	2.40
56 D 6344	19101-7UL	7	3.30	2.48
56 D 6345	19101-8UL	8	3.40	2.55
56 D 6346	19101-9UL	9	3.50	2.63
56 D 6347	19101-10UL	10	3.60	2.70
56 D 6348	19101-11UL	11	3.70	2.78

SERIES 8 ULTRAMINIATURE 1/2" DIAMETER TAP SWITCHES

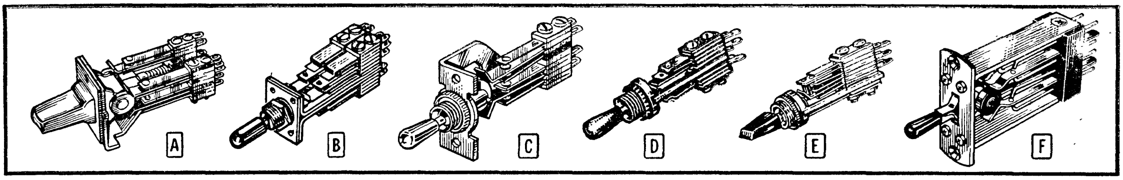
Detents, stop strength, durability and other features comparable to larger switches. Single-pole, single deck. 36° indexing. Rated 1/4 amp at 115 v. AC make-and-break, or 4 amps continuous. Dielectric strength, 1000 v. AC. Solder terminals. Nonshorting contacts. All current-carrying parts are gold-flash over silver. Length behind panel, .960", less tabs. 3 oz.

Stock No.	Mfr's Type	Pos.	EACH 1-49	EACH 50-99
56 D 6350	8A36-1-1-2N	2	7.10	5.33
56 D 6351	8A36-1-1-3N	3	7.20	5.40
56 D 6352	8A36-1-1-4N	4	7.30	5.48
56 D 6353	8A36-1-1-5N	5	7.40	5.55
56 D 6354	8A36-1-1-6N	6	7.50	5.63
56 D 6355	8A36-1-1-7N	7	7.60	5.70
56 D 6356	8A36-1-1-8N	8	7.70	5.78
56 D 6357	8A36-1-1-9N	9	7.80	5.85
56 D 6358	8A36-1-1-10N	10	7.90	5.93

SERIES 9 ULTRAMINIATURE 12-POSITION TAP SWITCHES

(Not illus.) Single pole deck, 30° indexing. Rated 1/4 amp at 115 VAC resistive. Normal life expectancy, 100,000 operations. Contact Resistance: .005 ohms initial, .020 ohms max. Solder terminals, non-shorting contacts. Length behind panel, .960", less tabs. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Pos.	EACH 1-49	EACH 50-99
56 D 6426	9A30-01-1-2N	2	7.10	5.33
56 D 6427	9A30-01-1-3N	3	7.20	5.40
56 D 6428	9A30-01-1-4N	4	7.30	5.48
56 D 6429	9A30-01-1-5N	5	7.40	5.55
56 D 6430	9A30-01-1-6N	6	7.50	5.63
56 D 6431	9A30-01-1-7N	7	7.60	5.70
56 D 6432	9A30-01-1-8N	8	7.70	5.78
56 D 6433	9A30-01-1-9N	9	7.80	5.85
56 D 6434	9A30-01-1-10N	10	7.90	5.93
56 D 6435	9A30-01-1-11N	11	8.05	6.04
56 D 6436	9A30-01-1-12N	12	8.20	6.61



[A] MULTICOLOR-ILLUMINATED "LEVER-LITE" SWITCHES

Switch indicates each position in different illuminated colors. Nickel-silver springs. Fine-silver contacts rated 3 amps, 300 watts maximum, AC noninductive. Supplied with 6-volt lamp (28-volt lamp available on facing page). Mount in panels up to 3/32″ thick. All are 2-position types, except *3-position types which have same contact form for both sections on each side. **Series 25000** includes six color chips (red, green, amber, yellow, blue, white) replaceable in the field. Behind-panel size, 1 7/32x3 9/64x2 1/4″. Mount on 5/8″ centers. **Series 27000** has larger contoured lever and larger factory-installed color filters. On 2-position types, amber lights in "neutral" position, green lights in "down." On 3-position types, red lights in "up" position, amber in "neutral," green in "down." Behind-panel size, 1 7/32x3/4x2 3/16″. Mount on 3/4″ centers. †n.o, center position off. Shpg. wt., 3 oz.

SERIES 25000

Mfr's Type	Stock No. Locking Type	Stock No. Nonlocking Type	Action	Contact Form	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
25201	56 D 6280	56 D 6272	SPST	1-A	2.40	2.20	2.00	1.60
25206	56 D 6282	56 D 6274	DPDT	2-C	3.00	2.75	2.50	2.00
25209	56 D 6283	56 D 6275	3PDT	3-C	3.45	3.16	2.88	2.30
*25304	56 D 6284	56 D 6276	SPST	1-A	2.70	2.48	2.25	1.80
*25306	56 D 6285	56 D 6277	SPDT	1-C	3.00	2.75	2.50	2.00
*25308	56 D 6286	56 D 6278	DPST	2-A	3.30	3.03	2.75	2.20
*25312	56 D 6287	56 D 6279	DPDT	2-C	3.60	3.30	3.00	2.40

SERIES 27000

Mfr's Type	Stock No. Locking Type	Stock No. Nonlocking Type	Action	Contact Form	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
27206	56 D 4651	56 D 4656	DPDT	2-C	3.90	3.58	3.25	2.60
27212	56 D 4652	56 D 4657	4PDT	4-C	4.80	4.40	4.00	3.20
*27306	56 D 4653	56 D 4658	SPDT	1-C	3.90	3.58	3.25	2.60
*27307	56 D 4654	56 D 4659	SPDT	1-C†	3.99	3.66	3.33	2.66
*27312	56 D 4655	56 D 4660	DPDT	2-C	4.80	4.40	4.00	3.20
532	56 D 4661	Escutcheon Plate			.15	.117	.10	.10

[B] "TELEVER" SWITCHES

Rugged telephone-type switches with "T-Beam" steel frame construction. Nylon rollers actuate nickel-silver springs, provide smooth switching action. Extra-long springs punched from special alloy ensure long, dependable life. Welded cross-bar palladium contacts rated 3 amps, 120 v., AC noninductive, up to 3 amps, 300 watts maximum. All have tinned solder-lug terminals. **Series 6000** is tapped for 3-48 mounting screws; standard telephone mounting centers, 1 7/32x1 3/16″. **Series 16000** has 15/32″-32 threaded mounting bushing. All have insulated black knob. 3-position types have same contact form for both sections on each side. Shpg. wt., 3 oz.

SERIES 6000 TWO-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
6006	56 D 4734	56 D 4726	DPDT	2-C	3.00	2.75	2.50	2.00
60012	56 D 4737	56 D 4729	4PDT	4-C	4.08	3.74	3.40	2.72

SERIES 6000 THREE-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
60312	56 D 4744	56 D 4740	DPDT	2-C	4.08	3.74	3.40	2.72
60324	56 D 4745	56 D 4741	4PDT	4-C	6.00	5.50	5.00	4.00
530	56 D 4486	Escutcheon Plate			.36	.33	.30	.24

SERIES 16000 TWO-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
16006	56 D 4854	56 D 4853	DPDT	2-C	3.00	2.75	2.50	2.00
160012	56 D 5462	56 D 5460	4PDT	4-C	4.08	3.74	3.40	2.72
160024	56 D 4860	56 D 4859	8PDT	8-C	6.00	5.50	5.00	4.00

SERIES 16000 THREE-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
16038	56 D 5463	56 D 5461	SPDT	2-A	3.36	3.08	2.80	2.24
160312	56 D 4866	56 D 4865	DPDT	2-C	4.08	3.74	3.40	2.72
160324	56 D 4881	56 D 4869	4PDT	4-C	6.00	5.50	5.00	4.00

[C] "FEATHER-LEVER" SWITCHES

Miniature "Tini-Stack" switch stack of special nickel-silver springs with fine-silver contacts. 2 amps, 200 watts max., AC noninductive. Insulated black knob. Mount on 7/32″ centers or in 5/16″ hole, in panels up to 1/8″ thick. *3-position types have same contact form for both sections on each side. †n.o., center position off. 3 oz.

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
29203	56 D 4625	56 D 4662	SPDT	1-C	1.35	1.24	1.13	.90
29204	56 D 4626	56 D 4663	DPST	2-A	1.50	1.38	1.25	1.00
*29304	56 D 4627	56 D 4664	SPST	1-A	1.56	1.43	1.30	1.04
*29306	56 D 4628	56 D 4665	SPDT	1-C	1.74	1.60	1.45	1.16
*29307	56 D 4629	56 D 4666	SPDT	1-C†	1.77	1.62	1.48	1.18

[D] "LEV-R" SWITCHES

Require half the space normally needed for lever switches. Frame bushing and shaft of nickel-plated brass. Fine-silver contacts rated 3 amps, 300 watts maximum, AC noninductive. Nonlocking types have spring return. All are 5/8″ wide; require 2 1/4″ behind panel, and 15/16″ mounting hole. With locknut and screw-on black knob. 3-position switches have same contact form for both sections on each side. †n.o., center position off. Types 3033 and 13033 are 3-position switches with one form C only. **Series 3000** has 13/64″ mounting bushing; mounts in panels up to 3/32″ thick. Type 3035 opens one of two circuits keeping other closed. **Series 13000** has 3/8″ mounting bushing; for panels up to 1/4″ thick. Wt., 3 oz.

SERIES 3000 TWO-POSITION TYPES

Mfr's Type	Stock No. Locking Type	Stock No. Nonlocking Type	Action	Contact Form	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
3001	56 D 4471	56 D 4465	SPST	1-A	1.20	1.10	1.00	.80
3003	56 D 4472	56 D 4466	SPDT	1-C	1.41	1.29	1.18	.94
3004	56 D 4473	56 D 4467	DPST	2-A	1.56	1.43	1.30	1.04
3006	56 D 4474	56 D 4468	DPDT	2-C	1.71	1.57	1.43	1.14
3009	56 D 4484	56 D 4485	3PDT	3-C	2.19	2.01	1.83	1.46

SERIES 3000 THREE-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
3033	56 D 4475	56 D 4469	SPDT	1-C†	1.56	1.43	1.30	1.04
3034	56 D 4459	56 D 4458	SPST	1-A	1.62	1.49	1.35	1.08
3035	56 D 4477	56 D 4464	SPST	1-B†	1.62	1.49	1.35	1.08
3036	56 D 4479	56 D 4478	SPDT	1-C	1.80	1.65	1.50	1.20
3037	56 D 4476	56 D 4470	SPDT	1-C†	1.83	1.68	1.53	1.22

SERIES 13000 TWO-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
13001	56 D 5551	56 D 5550	SPST	1-A	1.32	1.21	1.10	.88
13003	56 D 5555	56 D 5554	SPDT	1-C	1.50	1.38	1.25	1.00
13006	56 D 5561	56 D 5560	DPDT	2-C	1.71	1.57	1.43	1.14
13009	56 D 5563	56 D 5562	3PDT	3-C	2.40	2.20	2.00	1.60

SERIES 13000 THREE-POSITION TYPES

Mfr's Type	Locking Type	Nonlocking Type	Action	Contact Form	1-24	25-49	50-99	100-249
13033	56 D 5565	56 D 5564	SPDT	1-C†	1.65	1.51	1.38	1.10
13034	56 D 5567	56 D 5566	SPST	1-A	1.71	1.57	1.43	1.14
13036	56 D 5571	56 D 5570	SPDT	1-C	2.01	1.84	1.68	1.34
13037	56 D 5573	56 D 5572	SPDT	1-C†	2.01	1.84	1.68	1.34

[E] "LEV-R" SWITCHES WITH MOLDED-ON KNOBS

As above, but permanently molded-on black knob. All 2-position except *3-position types which have same contact form for both sections on each side. Nylon roller for smoother action. With locknut and nonturn ring to keep switch from turning. Mount on 5/8″ centers in panels to 3/32″ thick. Require 15/32″ hole (1 1/8″ for nonturn ring) and 2 1/4″ behind panel. †n.o., center position off. 3 oz.

Mfr's Type	Stock No. Locking Type	Stock No. Nonlocking Type	Action	Contact Form	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
28203	56 D 4671	56 D 4677	SPDT	1-C	1.95	1.79	1.63	1.30
28204	56 D 4672	56 D 4678	SPST	2-A	2.10	1.93	1.75	1.40
28206	56 D 4673	56 D 4679	SPDT	2-C	2.25	2.06	1.88	1.50
*28304	56 D 4674	56 D 4680	SPST	1-A	2.16	1.98	1.80	1.44
*28306	56 D 4675	56 D 4681	SPDT	1-C	2.34	2.15	1.95	1.56
*28307	56 D 4676	56 D 4682	SPDT	1-C†	2.37	2.1[illegible]	1.98	1.58

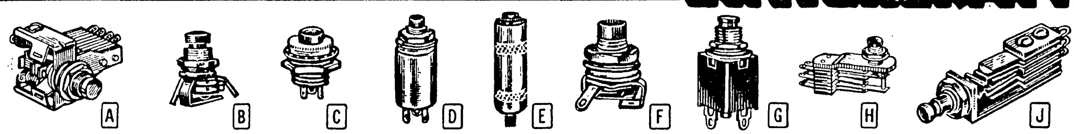
[F] NEW "LOW-CAP" LEVER SWITCHES

Low-capacitance telephone-type switches. (Formerly called Federal Anti-Capacity Switches.) Excellent for audio switching where low capacity is a "must." Contact springs are silver plated and made of special spring-tempered phosphor bronze for quick "break" and extremely low spring-to-spring capacitance. Contacts rated 1 amp at 100 volts. With black screw-on knob and polished chrome mounting plate. Mount on 3/4″ centers. Behind-panel size, 2 1/4x7/8x3 7/16″. Type 10325, 2 1/4x1 13/16x3 7/16″. All are 2-position, except *3-position types which have same contact form for both sections on each side. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Old Fed. No.	Action	Contacts	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
56 D 4633	10204	1427	DPST	2-A	4.08	3.75	3.40	2.72
56 D 4634	10205	1426	DPST	2-B	4.08	3.75	3.40	2.72
56 D 4635	*10307	1425	SPDT	1-C	4.20	3.85	3.50	2.80
56 D 4636	*10313	1424	DPDT	2-C	4.50	4.12	3.75	3.00
56 D 4637	*10325	12494	4PDT	4-C	9.90	9.08	8.25	6.60

Specify Mfr's Type and Locking or Nonlocking When Ordering Switches

SWITCHCRAFT® INC.



[A] ILLUMINATED "NF-LITE" PUSHBUTTON SWITCHES

Illuminated pushbutton switches indicate switching and circuit functions at a glance. Lighting circuit is independent of switching circuit. Fine silver contacts rated 3 amps, 300 watts maximum, AC noninductive. Come with four color chips (red, amber, green, yellow) for changing color of pushbutton. Require $\frac{11}{16}$" minimum, $1\frac{5}{16}$" maximum behind panel; mount in $\frac{3}{8}$" hole in panels up to $\frac{1}{4}$" thick. Less 6-volt or 28-volt lamp, lower right. 3 oz.

Stock No.	Mfr's Type	Action	Contacts	EACH 1-24	25-49	50-99	100-249
56 D 4610	4101	SPST	1-A	1.17	1.07	.975	.78
56 D 4611	4103	SPDT	1-C	1.26	1.16	1.05	.84
56 D 4612	4104	DPST	2-A	1.32	1.21	1.10	.88
56 D 4613	4106	DPDT	2-C	1.47	1.35	1.23	.98
56 D 4614	4109	3PDT	3-C	1.80	1.65	1.50	1.20

[B] "LITTEL" PUSHBUTTON SWITCHES

Designed for limited-space applications. Have one-piece button and shaft. Integral spring contacts are of nickel-silver, insulated from mounting bushing with high-grade phenolic. Button color: *black, †red. Mount in single hole with $\frac{3}{8}$" threaded brass bushing. Recommended for low-level currents only. Shpg. wt., 3 oz.

56 D 4944	†101	SPST	1-A	.57	.523	.475	.38
56 D 4945	†102	SPST	1-B	.57	.523	.475	.38
56 D 4946	†103	SPDT	1-C	.66	.605	.55	.44
56 D 4947	*201	SPST	1-A	.57	.523	.475	.38
56 D 4948	*202	SPST	1-B	.57	.523	.475	.38
56 D 4949	*203	SPDT	1-C	.66	.605	.55	.44

[B] ILLUMINATED "LITTEL-LITE" PUSHBUTTON SWITCHES

Same as above, but illuminated pushbutton. Clear plastic button and shaft illuminated by a single 6 or 28 v. lamp (less lamp, lower right). Rated at 3 amps, at 300 w. maximum noninductive load. With four color chips (red, amber, green, yellow). Shpg. wt., 3 oz.

56 D 4607	211S	SPST	1-A	1.17	1.07	.975	.78
56 D 4608	212S	SPST	1-B	1.17	1.07	.975	.78
56 D 4609	213S	SPDT	1-C	1.35	1 24	1.13	.90

[C] [D] "BUTTON SWITCHES"

Small momentary-action pushbutton switches. Enclosed in metal housing; black or red plastic button. Types 903 and 913 (Figure C) are $\frac{1}{2}$" long; for behind-panel mounting in panels up to $\frac{19}{64}$" thick; fit $1\frac{5}{32}$" hole. Types 923 and 933 (Figure D) are $\frac{7}{8}$" long; mount in front of panels up to $\frac{5}{32}$" thick; fit $\frac{1}{4}$" hole. All are rated 250 ma, 30 watts maximum, AC noninductive. Wt., 3 oz.

Red Button Stock No.	Red Button Mfr's Type	Black Button Stock No.	Black Button Mfr's Type	Action	Contact Form	EACH 1-24	25-49	50-99	100-249
56 D 5414	903	56 D 5418	913	SPDT	1-C	.84	.77	.70	.56
56 D 5416	923	56 D 5420	933	SPDT	1-C	.90	.825	.75	.60

[E] CORD PUSHBUTTON SWITCH

Precision switch for remote control of recorders, lights, etc. Hole at one end for 2-conductor line; other end has nonlocking, spring-return pushbutton switch. Rated 250 ma, noninductive load. 30 watts max. Nickel-plated sleeve $\frac{11}{16}$" dia. $2\frac{3}{16}$" long. 4 oz.

Stock No.	Mfr's Type	Color	Contacts	EACH 1-24	25-49	50-99	100-249
56 D 5422	E903	Red	1-C	1.35	1.24	1.13	.90
56 D 5424	E913	Black	1-C	1.35	1.24	1.13	.90

[F] PUSHBUTTON "TINY SWITCHES"

Subminiature pushbutton switches for limited space applications. For use in microphones, radio and automotive test instruments. Nickel-plated brass frame and bushing. With mounting hardware. $\frac{1}{4}$" threaded shank; $\frac{13}{64}$" long. For use with low-level currents only. Require $\frac{5}{16}$" behind panels up to $\frac{3}{32}$" thick. Wt., 3 oz.

Red Button Stock No.	Red Button Mfr's Type	Black Button Stock No.	Black Button Mfr's Type	Action	Contact Form	EACH 1-24	25-49	50-99	100-249
56 D 4831	951	56 D 4834	961	SPST	1-A	.57	.523	.475	.38
56 D 4832	952	56 D 4835	962	SPST	1-B	.57	.523	.475	.38
56 D 4833	953	56 D 4836	963	SPDT	1-C	.66	.605	.55	.44

[G] NEW "HI-D" PUSHBUTTON SWITCHES

High-density, momentary-action switches for limited-space applications. Switch is enclosed in well-insulated housing. One-piece pushbutton and shaft. Integral silver-plated springs rated at 1 amp, 100 watts maximum, AC noninductive load. Button color: *red, †black. Mount in $\frac{3}{8}$" hole in panels up to $\frac{5}{32}$" thick on $\frac{5}{8}$" centers. Require $1\frac{3}{32}$" behind panel. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Contacts	EACH 1-24	25-49	50-99	100-249
56 D 4448	*H-101	SPST	1-A	.60	.55	.50	.40
56 D 4449	*H-102	SPST	1-B	.60	.55	.50	.40
56 D 4450	*H-103	SPDT	1-C	.69	.633	.575	.46
56 D 4451	†H-201	SPST	1-A	.60	.55	.50	.40
56 D 4452	†H-202	SPST	1-B	.60	.55	.50	.40
56 D 4453	†H-203	SPDT	1-C	.69	.633	.575	.46

[H] "FF" PUSHBUTTON SWITCHES

Rugged flat-frame switches provide a simple, direct-acting momentary pushbutton contact. Fine silver contacts rated 3 amps, 300 watts maximum, AC noninductive load. Insulated springs are form-free at flex point to assure long life. One-piece black button and shaft. Threaded mounting shank is $\frac{3}{8}$" in diameter and $\frac{3}{8}$" long. Comes with locknut and washer. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Contacts	EACH 1-24	25-49	50-99	100-249
56 D 4994	1001	SPST n.o.	1-A	.69	.633	.575	.46
56 D 4995	1002	SPST n.c.	1-B	.69	.633	.575	.46
56 D 4996	1003	SPDT	1-C	.78	.715	.65	.52
56 D 4997	1004	DPST n.o.	2-A	.87	.798	.725	.58
56 D 4998	1005	DPST n.c.	2-B	.87	.798	.725	.58
56 D 4999	1006	DPDT	2-C	1.02	.935	.85	.68
56 D 4969	1009	3PDT	3-C	1.38	1.27	1.15	.92

[J] MINIATURE "TF" PUSHBUTTON SWITCHES

Tiny-frame momentary-action pushbutton switches occupy minimum space. Each has cadmium-plated steel frame, phenolic insulation, nickel-silver springs, integral contacts. Recommended for low-level circuits where contact resistance is unimportant. Mount in $\frac{13}{64}$" hole and require $1\frac{3}{8}$" behind panel which can be up to $\frac{3}{32}$" thick. All are $\frac{3}{8}$" wide. Stack height, $\frac{19}{32}$" min. 3 oz.

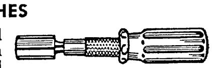
Stock No.	Mfr's Type	Action	Contacts	EACH 1-24	25-49	50-99	100-249
56 D 5990	974	DPST	2-A	.78	.715	.65	.52
56 D 5991	975	DPST	2-B	.78	.715	.65	.52
56 D 5992	976	DPDT	2-C	.78	.715	.65	.52

LAMPS FOR ILLUMINATED SWITCHES

For all Switchcraft illuminated switches, including: "Littel-Lite, "NF-Lite," "Lever-Lite." All take 6 or 28 v. lamp. 2 oz.

Stock No.	Type	Volts	1-9 EA.	10-99 EA.	100-Up EA.
60 D 7359	1768	6	.87	.521	.469
60 D 7126	335	28	1.50	.93	.72

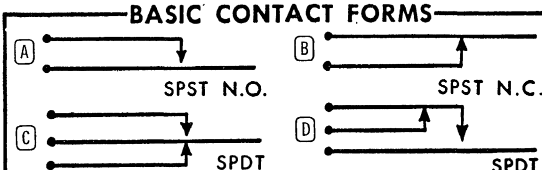
SWITCH WRENCHES



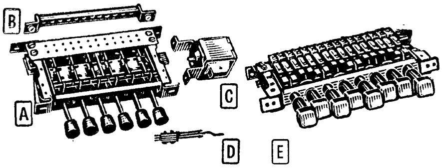
Special wrenches designed to fit knurled or milled-edge locknuts furnished with toggle, lever and button switches and jacks. Adjustable sleeve on shaft holds nuts tightly. Knurled handle for sure, firm grip. Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Nut Size	EACH 1-24	25-49	50-99	100-249
56 D 4605	A-1070	$\frac{15}{16}$"-32	4.50	4.13	3.75	3.00
56 D 4606	A-1071	$\frac{1}{4}$"-32	4.50	4.13	3.75	3.00

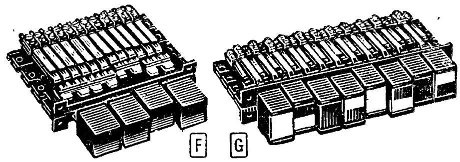
BASIC CONTACT FORMS



SWITCHCRAFT® INC. Pushbutton Multi-Switches



For a complete multiple station assembly, you must order the proper frame and the necessary stack switch for each button on the frame



[A] SERIES 7000 NON-ILLUMINATED FRAMES

Mounts on panels up to 3/8″ thick, 3 5/16″ depth behind panel. Brown button for each station, red for release—on 5/8″ centers. Function, circuit changes can be made in field. Adjusting "Stop Plate" interlock switch changes to non-lock; re-positioning "latch bar spring" interlock switch changes to all-lock.

Stock No.	Mfr's Type	Stations	Wt., Oz.	EACH 1-9	10-24	25-49	50-99	100-249
56 D 6207	7200	2	2	6.80	5.10	4.68	4.25	3.40
56 D 6208	7400	4	4	9.60	7.20	6.60	6.00	4.80
56 D 6209	7600	6	6	12.80	9.60	8.80	8.00	6.40
56 D 6210	7800	8	8	16.00	12.00	11.00	10.00	8.00
56 D 6211	71000	10	10	19.20	14.40	13.20	12.00	9.60
56 D 6212	71200	12	12	22.40	16.80	15.40	14.00	11.20

[E] SERIES 21000 ILLUMINATED FRAMES

Similar to Series 7000 but square buttons. Knurled collar holds lamp in socket, diffuses light. Up-front lamp replacement. Buttons light in "IN" position. Less lamps and stack switches.

56 D 6213	21200	2	8	11.60	8.70	7.98	7.25	5.80
56 D 6214	21400	4	11	19.60	14.70	13.48	12.25	9.80
56 D 6215	21600	6	15	27.60	20.70	18.98	17.25	13.80
56 D 6216	21800	8	17	36.00	27.00	24.75	22.50	18.00
56 D 6217	211000	10	21	44.00	33.00	30.25	27.50	22.00
56 D 6218	211200	12	24	52.00	39.00	35.75	32.50	26.00

[F] SERIES 35000 NON-ILLUMINATED FRAMES

Non-illuminated frames similar to Series 7000 but compact low silhouette design. Only 3/4″ height; 2 5/16″ depth behind panel. Plunger on 5/8″ centers. All functions available. Interlock, Non-lock, All-lock and Push-to-Lock, Push-to-Release. Only Interlock function with "built-in" lock-out listed below—other functions available on special order. Frames furnished with modern square black buttons for all stations. Supplied less stack switches.

56 D 6219	35021	2	2	6.80	5.10	4.68	4.25	3.40
56 D 6220	35041	4	4	9.60	7.20	6.60	6.00	4.80
56 D 6221	35061	6	6	12.80	9.60	8.80	8.00	6.40
56 D 6222	35081	8	8	16.00	12.00	11.00	10.00	8.00
56 D 6223	35101	10	10	19.20	14.40	13.20	12.00	9.60
56 D 6224	35121	12	12	22.40	16.80	15.40	14.00	11.20

[G] SERIES 37000 ILLUMINATED FRAMES

All operating functions described above are available in this new illuminated multiple station pushbutton switch. Each pushbutton station serves as a color and legend coded panel indicator light which actuates up to 6PDT switching. Choice of 3 lighting arrangements by wiring to special H83P lighting stack switches, above. "L" type button lights in "IN" position; "M" type button lights in "OUT" position; "N" type button lights in "IN" and "OUT" positions. Supplied less lamps and stack switches.

56 D 6225	37021	2	2	9.52	7.14	6.55	5.95	4.76
56 D 6187	37041	4	4	15.44	11.58	10.62	9.65	7.72
56 D 6188	37061	6	6	21.36	16.02	14.69	13.35	10.68
56 D 6189	37081	8	8	27.68	20.76	19.03	17.30	13.84
56 D 6190	37101	10	10	33.60	25.20	23.10	21.00	16.80
56 D 6191	37121	12	12	39.52	29.64	27.17	24.70	19.76

[B] LOCK-OUT BAR

Prevents operation of more than one button at a time. Mounts on back of Series 7000, 21000 frame. Available from 2 to 37 stations. Supplied with mounting hardware.

56 D 6150	K-02	2	5	2.40	1.80	1.65	1.50	1.20
56 D 6151	K-04	4	5	2.60	1.95	1.79	1.63	1.30
56 D 6152	K-06	6	5	2.80	2.10	1.93	1.75	1.40
56 D 6153	K-08	8	5	3.00	2.25	2.06	1.88	1.50
56 D 6154	K-10	10	5	3.40	2.55	2.34	2.13	1.70
56 D 6155	K-12	12	5	3.80	2.85	2.61	2.38	1.90

[C] SOLENOID RELEASE

For Series 7000 and 21000. Automatic remote release of depressed stations. For 115 VAC, 60 cycles. With mounting bracket, screws.

Stock No.	Mfr's Type	Function	EACH 1-9	10-24	25-49	50-99	100-249
56 D 6170	J-1	Interlock	7.60	5.70	5.23	4.75	3.80
56 D 6171	J-3	All-Lock	8.00	6.00	5.50	5.00	4.00

[D] STACK SWITCHES

Interchangeable switch stacks for Series 7000, 21000. Series 70 silver contacts for power circuits; Series 70P welded cross-bar palladium contacts for low-level circuits. Both rated 3 amps, 300 watts, max., AC non-inductive load. If more than one circuit required, specify two or more stacks to balance load on switch plunger. With 2 mtg. screws, one pressure plate. Shpg. wt., 1 oz.

Stock No.	Contacts	Mfr's Type	EACH 1-9	10-24	25-49	50-99	100-249
56 D 6226	1-A	71	.48	.36	.33	.30	.24
56 D 6227	1-B	72	.48	.36	.33	.30	.24
56 D 6228	1-C	73	.56	.42	.385	.35	.28
56 D 6229	2-A	74	.80	.60	.55	.50	.40
56 D 6230	2-B	75	.80	.60	.55	.50	.40
56 D 6231	2-C	76	.92	.69	.633	.575	.46
SERIES 70P WITH PALLADIUM CONTACTS							
56 D 6198	1-A	71P	.56	.42	.385	.35	.28
56 D 6232	1-B	72P	.56	.42	.385	.35	.28
56 D 6200	1-C	73P	.72	.54	.495	.45	.36
56 D 6233	2-A	74P	.92	.69	.633	.575	.46
56 D 6234	2-B	75P	.92	.69	.633	.575	.46
56 D 6235	2-C	76P	1.08	.81	.743	.675	.54

STACK SWITCHES FOR LITTEL "MULTI-SWITCHES"

Switch stacks for Series 35000, 37000. Series 80P cross-bar welded palladium contacts rated at 3 amps, 300 watts, max., AC non-inductive load; Type H-83P same as 80P, but with lighting convenience blade for rear of switch frame wiring on Series 37000. Order Series 80P for switching only, H-83P for lighting (2 per station) .With pressure plate and screws. Shpg. wt., 1 oz.

Stock No.	Contacts	Mfr's Type	EACH 1-9	10-24	25-49	50-99	100-249
56 D 6296	1-A	81P	.56	.42	.385	.35	.28
56 D 6297	1-B	82P	.56	.42	.385	.35	.28
56 D 6167	1-C	83P	.72	.54	.495	.45	.36
56 D 6298	1-C	H83P	1.00	.75	.688	.625	.50

LAMPS FOR SERIES 21000 AND 37000

60 D 7343. Ind. No. 328. 6-volt lamp. Each .56 Lots of 10 Each .342
60 D 7342. Ind. No. 327. 28-volt lamp. Each .72 Lots of 10 Each .437

GORDOS MAGNETIC REED SWITCHES

- Reliable Long-Life Switches
- Sealed in Dry Inert Gas

Magnetic Reed Switches. Can be actuated by magnets or coils. Contacts sealed in dry, inert gas. Not postion sensitive. For relays, crosspoints, logic elements, scanners, proximity switches, etc. All SPST, except *True Form C (SPDT), polarized magnetic drive in both directions. Actuating time, 1 millisecond or less. Pull-in: †35 (±10) ampere turns, ‡80 (±10) §40 (±10). #Offset gap, for permanent magnet applications. 1 oz.

Tilt Type Mercury Switches. For float and level control, burglar alarms, motion detection, much more. Contacts sealed in inert gas. Long life over wide environmental conditions. Ideal for surge currents. Ratings are 115 VAC resistive. 8″ long PVC covered leads.

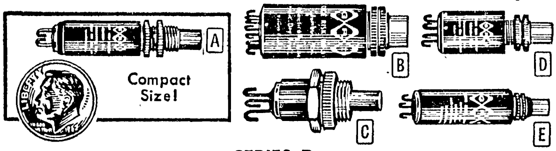
Stock No.	Mfr's Type	Volt-Amps	Size (In.)	EACH 1-24	25-49	50-99	100-499	500-999
56 D 4800	MR-088	4†	.75x.09	1.10	.83	.77	.61	.50
56 D 4801	MR-306	4†	.75x.12	1.05	.79	.74	.58	.47
56 D 4802	MR-406	4†#	.83x.10	1.10	.83	.77	.61	.49
56 D 4804	MR-606	15‡#	1.40x.19	1.05	.79	.74	.58	.47
56 D 4806	MR-806	15‡#	1.70x.19	.90	.63	.50	.50	.41
56 D 4808	MR-200-1	10§*	1.09x.20	2.50	1.88	1.75	1.38	1.13
56 D 4809	MR-840	50‡#	1.70x.19	1.75	1.31	1.23	.96	.79
56 D 4811	MR-990	100‡	2.05x.21	2.50	1.88	1.75	1.38	1.13

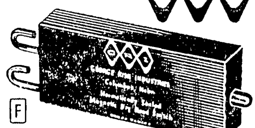
TILT-TYPE MERCURY SWITCHES

Stock No.	Type HG-	Amps	Size	Diff. Angle	1-24	25-49	50-99	100-499	500-999
56 D 6300	220	.1	.15x.50	10°	1.90	1.43	1.33	1.05	.86
56 D 6301	252	2	.33x1.07	14°	1.06	.80	.74	.58	.48
56 D 6302	421	15	.45x1.33	10°	7.30	5.45	5.11	4.02	3.30
56 D 6303	435	5	.35x1.33	10°	2.55	1.91	1.79	1.40	1.16
56 D 6304	455	10	.43x1.50	5°	2.75	2.06	1.93	1.51	1.25
56 D 6305	461	15	.45x1.32	14°	9.30	6.98	6.51	5.12	4.24
56 D 6306	803	1	.33x1.33	1.4°	1.40	1.05	.98	.77	.64

Magnetic Switches, Elapsed Time Meters

MAGNETIC SWITCHES by GEORGE RISK INDUSTRIES, INC.





All have inert gas internal atmosphere, gold alloy or rhodium contacts, weldable nickel alloy switch terminals. All can be mounted in any plane.

SERIES D

Dielectric Strength: 500 VAC. Insulation Res.: 100 meg. Life Expectancy: Form A and B; 20 million full load; 50 million half load. Form C: 10 million full load; 20 million half load. .850x.312″ dia.

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	EACH 1-9	10-99	100-249
56 D 6437	A	DC-HA	SPST-NO	.5	8 oz.	6.66	5.35	4.35
56 D 6438	A	DC-HB	SPST-NC	.5	8 oz.	6.66	5.35	4.35
56 D 6439	A	DB-HC	SPDT-B-M	.250	8 oz.	10.12	8.15	6.70
56 D 6440	A	DC-FA	SPST-NO	.5	17 gram	6.66	5.35	4.35
56 D 6441	A	DC-FB	SPST-NC	.5	17 gram	6.66	5.35	4.35
56 D 6442	A	DB-FC	SPDT-B-M	.250	17 gram	10.12	8.15	6.70

SERIES T

Dielectric Strength: 500 VAC. Insulation Res.: 100 meg. Life Expectancy: Form A and B; 20 million full load, 50 million half load. Form C: 10 million full load, 20 million half load. 1.75x.890″ dia.

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	EACH 1-9	10-99	100-249
56 D 6443	B	TI-HA4	4PST-NO	3	8 oz.	17.44	13.95	11.35
56 D 6444	B	TI-HB4	4PST-NC	3	8 oz.	17.44	13.95	11.35
56 D 6445	B	TI-HA3	3PST-NO	3	8 oz.	14.78	11.80	9.65
56 D 6446	B	TI-HB3	3PST-NC	3	8 oz.	14.78	11.80	9.65
56 D 6447	B	TI-HA2	2PST-NO	3	8 oz.	12.32	9.90	8.05
56 D 6448	B	TI-HB2	2PST-NC	3	8 oz.	12.32	9.90	8.05
56 D 6449	B	TE-HA4	4PST-NO	1	8 oz.	15.60	12.50	10.15
56 D 6450	B	TE-HB4	4PST-NC	1	8 oz.	15.60	12.50	10.15
56 D 6451	B	TE-HA3	4PST-NO	1	8 oz.	13.40	10.70	8.70
56 D 6452	B	TE-HB3	3PST-NC	1	8 oz.	13.40	10.70	8.70
56 D 6453	B	TE-HA2	2PST-NO	1	8 oz.	10.35	8.30	6.70
56 D 6454	B	TE-HB2	2PST-NC	1	8 oz.	10.35	8.30	6.70
56 D 6455	B	TB-HC4	4PDT-B-M	.250	8 oz.	19.44	15.50	12.60
56 D 6456	B	TB-HC3	3PDT-B-M	.250	8 oz.	16.30	13.00	10.60
56 D 6457	B	TB-HC2	2PDT-B-M	.250	8 oz.	12.32	9.85	8.00
56 D 6458	B	TI-FA4	4PST-NO	3	17 gram	17.44	13.95	11.35
56 D 6459	B	TI-FB4	4PST-NC	3	17 gram	17.44	13.95	11.35
56 D 6460	B	TI-FA3	3PST-NO	3	17 gram	14.78	11.80	9.65
56 D 6461	B	TI-FB3	3PST-NC	3	17 gram	14.78	11.80	9.65
56 D 6462	B	TI-FA2	2PST-NO	3	17 gram	12.32	9.90	8.05
56 D 6463	B	TI-FB2	2PST-NC	3	17 gram	12.32	9.90	8.05
56 D 6464	B	TE-FA4	4PST-NO	1	17 gram	15.60	12.50	10.15
56 D 6465	B	TE-FB4	4PST-NC	1	17 gram	15.60	12.50	10.15
56 D 6466	B	TE-FA3	3PST-NO	1	17 gram	13.40	10.70	8.70
56 D 6467	B	TE-FB3	3PST-NC	1	17 gram	13.40	10.70	8.70
56 D 6468	B	TE-FA2	2PST-NO	1	17 gram	10.35	8.30	6.70
56 D 6469	B	TE-FB2	2PST-NC	1	17 gram	10.35	8.30	6.70
56 D 6470	B	TB-FC4	4PDT-B-M	.250	17 gram	19.44	15.50	12.60
56 D 6471	B	TB-FC3	3PDT-B-M	.250	17 gram	16.30	13.00	10.60
56 D 7472	B	TB-FC2	2PDT-B-M	.250	17 gram	12.32	9.85	8.00

SERIES G

Electrical data same as Series D, above. Size: .975x.625″ dia.

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	EACH 1-9	10-99	100-249
56 D 6476	E	GC-HA4	4PST-NO	.5	8 oz.	13.30	10.60	8.65
56 D 6477	E	GC-HB4	4PST-NC	.5	8 oz.	13.30	10.60	8.65
56 D 6478	E	GC-HA3	3PST-NO	.5	8 oz.	11.06	8.90	7.20
56 D 6479	E	GC-HB3	3PST-NC	.5	8 oz.	11.06	8.90	7.20
56 D 6480	E	GC-HA2	DPST-NO	.5	8 oz.	8.82	7.05	5.75

SERIES G—Cont'd

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	EACH 1-9	10-99	100-249
56 D 6481	E	GC-HB2	DPST-NC	.5	8 oz.	8.82	7.05	5.75
56 D 6482	E	GC-HA	SPST-NO	.5	8 oz.	6.58	5.25	4.30
56 D 6483	E	GC-HB	SPST-NC	.5	8 oz.	6.58	5.25	4.30
56 D 6484	E	GB-HC2	DPDT-B-M	.250	8 oz.	14.64	11.70	9.55
56 D 6485	E	GB-HC	SPDT-B-M	.250	8 oz.	10.04	8.05	6.55
56 D 6486	E	GC-FA4	4PST-NO	.5	17 gram	13.30	10.60	8.65
56 D 6487	E	GC-FB4	4PST-NC	.5	17 gram	13.30	10.60	8.65
56 D 6488	E	GC-FA3	3PST-NO	.5	17 gram	11.06	8.90	7.20
56 D 6489	E	GC-FB3	3PST-NC	.5	17 gram	11.06	8.90	7.20
56 D 6490	E	GC-FA2	DPST-NO	.5	17 gram	8.82	7.05	5.75
56 D 6491	E	GC-FB2	DPST-NC	.5	17 gram	8.82	7.05	5.75
56 D 6492	E	GC-FA	SPST-NO	.5	17 gram	6.58	5.25	4.30
56 D 6493	E	GC-FB	SPST-NC	.5	17 gram	6.58	5.25	4.30
56 D 6494	E	GB-FC2	DPDT-B-M	.250	17 gram	14.64	11.70	9.55

SERIES R

Dielectric Strength: 500 VAC. Insulation Resistance: 100 meg. Life Expectancy: 10 million full load. .625x.375″ dia.

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	1-9	10-99	100-249
56 D 6473	C	RB-HA	SPST-NO	.250	8 oz.	7.28	5.80	4.73
56 D 6474	C	RB-HB	SPST-NC	.250	8 oz.	7.28	5.80	4.73
56 D 6475	C	RB-HC	SPDT-B-M	.250	8 oz.	10.14	8.10	6.60

SERIES B

Electrical data same as Series R, above. Size: 1x1.4x.170″.

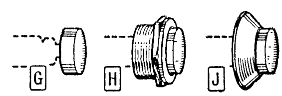
Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	1-9	10-99	100-249
56 D 6507	F	BC-HA	SPST-NO	.5	8 oz.	1.68	1.35	1.11
56 D 6508	F	BC-HB	SPST-NC	.5	8 oz.	1.68	1.35	1.11

SERIES W

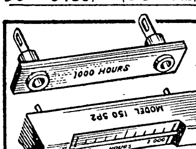
Electrical data same as Series D at left. Size: 1.750x.625″ dia.

Stock No.	Fig.	Part No.	Switch Form	Amp	Oper. Force	1-9	10-99	100-249
56 D 6496	D	WI-HA	SPST-NO	3	8 oz.	6.96	5.60	4.55
56 D 6497	D	WI-HB	SPST-NC	3	8 oz.	6.96	5.60	4.55
56 D 6498	D	WE-HA	SPST-NO	1	8 oz.	6.50	5.20	4.20
56 D 6499	D	WE-HB	SPST-NC	1	8 oz.	6.50	5.20	4.20
56 D 6500	D	WE-HC	SPST-B-M	.250	8 oz.	8.96	7.15	5.75

BUTTONS, ACCESSORIES FOR MAGNETIC SWITCHES



Stock No.	Fig.	Part No.	Color	For Series	1-99 Ea.	100-249 Ea.
56 D 6509	G	E	White	G and W	.32	.30
56 D 6510	G	E	Black	G and W	.32	.30
56 D 6511	G	E	Green	G and W	.32	.30
56 D 6512	G	E	Red	G and W	.32	.30
56 D 6513	H	A	Dec. mtg. ring		1.19	1.10
56 D 6514	J	D	Dec. mtg. ring		.75	.70
56 D 6495	G	E	White	T	.32	.30
56 D 6501	G	E	Black	T	.32	.30
56 D 6502	G	E	Green	T	.32	.30
56 D 6503	G	E	Red	T	.32	.30
56 D 6505	H	A	Dec. mtg. ring		1.19	1.10
56 D 6506	J	D	Dec. mtg. ring		.85	.70

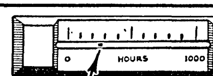


A501

150-SP2

ELAPSED TIME METERS By CURTISS INSTRUMENTS, INC.

Applications: Permits test equipment calibration by actual hours of use. Provides meaningful time-to-failure data. Indicates time elapse of klystrons, magnatrons, vidicon tubes, recording heads, electrical or combustion, ampere-hours of batteries.



500-CP Actual Size

Elapsed Time is Read by Position of Gap on Meter (see below).

500-CP Meter. For 115v. AC. Includes: 150-SP2 (lower right) for 600, 1000, or 3000 hours; mtg. socket; zener-diode inverter power supply. 100-140 v. input yields ±3% accuracy from 60-400 cps. Socket, 1¹³⁄₁₆x⅜x½″. Power supply 1⅛x³⁄₁₆x⅜″. 2 oz.

Stock No.	Type 500-	Descrip-tion	EACH 1-24	25-49
58 D 8801	CP/600	600 hrs.	16.45	14.50
58 D 8804	CP/1000	1000 hrs.	16.45	14.50
58 D 8806	CP/3000	3000 hrs.	16.45	14.50

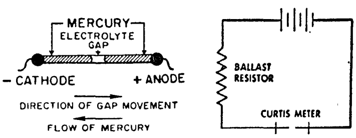
A501 Socket. For 150-SP2 meter at right, and 500-CP meter above. 1 oz.
58 D 8803. 1-24. . Ea. .50 25-49. . Ea. .45

A601 Lens. Fits 150-SP2, 500-CP. Molded acrylic. Magnifies, protects capillary. 1 oz.
58 D 8807. 1-24. . . Ea. .50 25-49. . Ea. .45

120-PC Meter. Microminiature meter for recording mean time-to-failure data on individual PC boards. Works from any stable DC voltage. Can be scaled for any time period by proper resistor. Clear epoxy selaed. Leads on 0.9″ centers. 1.11x.22x.18″. 1 oz.
58 D 8800. 1-24. . . Ea. 7.50 25-49. . Ea. 6.60

150-SP2 Meter. Meter element in a high-impact case. One-in., 10-division scale. Range: 2-10,000 hours. Typical DC requirements: 100 hours @ 104 μa; 500 @ 20.8 μa; 1000 @ 10.4 μa. Unmarked scale, desired hour scale determines current. Uses .080″ and.050″-dia. polarized pins, requires A501 socket. 1¹³⁄₁₆″ long, ⅜″ wide. 2 oz.
58 D 8802. 1-24. . Ea. 8.00 25-49. . Ea. 7.20

58 D 8805. R-6 Autosetter. Automatic. Resets 150-SP2, 500-CP in 3 hrs. or less. Takes 5 meters. 4x7x4″. 115 v. 60 cy. 4 lbs. . . . 59.50

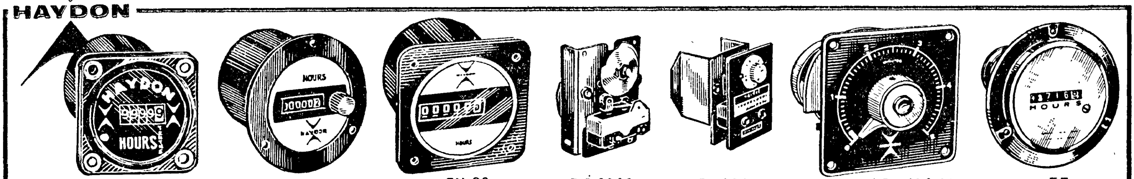


Direct reading current integrators measure current vs. time by electrochemical means. Meters are reversible, reusable. Can be mounted, read in any position.

Full-Scale Hrs.	Microamps
100	41.6
500	8.34
1000	4.16
2000	2.08
3000	1.38

Haydon Elapsed-Time Indicators and Timers

HAYDON



ED71 | ER35 | EN 30 | RG2102 | DA1102 | BJ and BN 41 & 42 | EF

ELAPSED-TIME INDICATORS REGISTER UP TO 99,999.9

Type ED71. Combine exceptional reliability with space-saving compactness. Front/rear panel mounting. —12°C to +55°C. Non-resettable, registers hours and tenths up to 9,999.9 in large, easy-to-read figures. Has 11¼" wire leads. 1¾" square bezel, 2³¹⁄₆₄" deep.

Types EN and ER 30, 35 and ER 35. As above, but available in resettable or non-resettable models. Register hours and tenths or minutes and tenths up to 99,999.9. With 3½" round or 3" square bezels, 2¾" deep. Type ER3020—resettable, square bezel, minutes and tenths. Type ER3022—resettable, square bezel, hours and tenths. Type ER3520—resettable, round bezel, minutes and tenths. Type ER3522—resettable, round bezel, hours and tenths. Type EN3010—non-resettable, square bezel, minutes and tenths. Type EN3012—non-resettable, square bezel, hours and tenths. All models have #8-32 stud terminals. Av. shpg. wt., 1½ lbs.

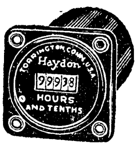
120 VOLTS AC

Stock No.	Mfr's Type	EACH 1-4	5-9	19-24	25-49	50-99	100-249
58 D 8211	ED7112	20.83	19.73	18.74	17.70	16.66	15.62
58 D 8213	EN3010	15.30	14.54	13.77	13.01	12.24	11.48
58 D 8214	ER3020	22.10	21.00	19.89	18.79	17.68	16.58
58 D 8216	EN3012	15.30	14.54	13.77	13.01	12.24	11.48
58 D 8217	ER3022	22.10	21.00	19.89	18.79	17.68	16.58
58 D 8212	ER3520	22.10	21.00	19.89	18.79	17.68	16.58
58 D 8215	ER3522	22.10	21.00	19.89	18.79	17.68	16.58

240 VOLTS AC

Stock No.	Mfr's Type	1-4	5-9	19-24	25-49	50-99	100-249
58 D 8221	ED7112	21.68	20.59	19.51	18.42	17.34	16.26
58 D 8218	EN3010	16.15	15.35	14.54	13.73	12.92	12.12
58 D 8219	ER3020	22.95	21.81	20.66	19.51	18.36	17.22
58 D 8220	EN3012	16.15	15.35	14.54	13.73	12.92	12.12
58 D 8222	ER3022	22.95	21.81	20.66	19.51	18.36	17.22
58 D 8225	ER3520	22.95	21.81	20.66	19.51	18.36	17.22
58 D 8226	ER3522	22.95	21.81	20.66	19.51	18.36	17.22

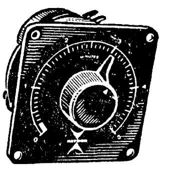
HERMETICALLY-SEALED MILITARY-TYPE INDICATOR



Type 7010-004. MS28053-5—truly small and lightweight. Digital type that registers hours and tenths up to 9,999.9. Driven by synchronous hysteresis motor through precision spur gear train. Meets high shock, environment and temperature requirements. Life test, over 78,000 hours and still running. 115 volts, 400 cps. Operating temperature, —55° C to +85° C. 1¾" square, bezel, 2³⁷⁄₆₄" deep. Barrel diameter, 1½". 4 mounting holes on 1⁵⁄₁₆" centers. Shock, 50 Gs, 11 milliseconds. Vibration up to 1000 cps at 10 Gs. Altitude, sea level to 80,000 ft. Dielectric strength, 500 volts, rms, 60 cps for one minute. Meets MIL-M-7793C and MIL-E-5272C specifications. MIL STD MS-28053-5 solder terminals. Shpg. wt., ¾ lb.

Stock No.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
58 D 8310	39.10	37.15	35.19	33.24	31.28	29.33

PANEL-MOUNTING RESET TIMER



Type DP11. Provides delay or interval timing using a timing motor with an integral clutching mechanism. (For repeat cycle timing, use 2 timers.) Adjustable time ranges are easily set by an external control knob. Available in ranges from 15 seconds to 5 minutes. Read-out is standard. SPDT. 10 amperes, 125 or 250 volt, AC resistive switch. Easily installed—uses accessible snap-action switch, and screw-type terminals. Mounts through panel. Dial size, 3⁵⁄₁₆x3⁵⁄₁₆". Requires 3⁹⁄₃₂" behind dial. For 120 volt, 60 cycle. **Specify time range: 15 seconds, 30 seconds, 60 seconds, 120 seconds, or 5 minutes.** Shpg. wt., 1 lb.

Stock No.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
58 D 8202C	18.70	17.77	16.83	15.90	14.96	14.03

TYPE DA TIME-DELAY TIMERS

Type DA1102. SPDT, 20-amp switch, 125 or 250 v. AC, resistive Internal clutch—engages and disengages when motor is energized and de-energized. Knob adjustment. 3⅜x2¹¹⁄₁₆x3⅛". U.L. Listed. Type DA2102. As above, but has lock-nut adjustment. 1½ lbs.

120 VOLTS AC

Stock No.	Mfr's Type	Time Range	EACH 1-4	5-9	10-24	25-49	50-99	100-249
58 D 8230	DA1102	0-14 sec.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8231	DA1102	0-57 sec.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8232	DA1102	0-4.5 min.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8233	DA2102	0-14 sec.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8234	DA2102	0-57 sec.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8236	DA2102	0:4.5 min.	14.66	13.93	13.20	12.46	11.73	10.99
58 D 8300	DA2102	0-9.5 min.	14.66	13.93	13.20	12.46	11.73	10.99

240 VOLTS AC

Stock No.	Mfr's Type	Time Range	1-4	5-9	10-24	25-49	50-99	100-249
58 D 8237	DA1102	0-14 sec.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8238	DA1102	0-57 sec.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8239	DA1102	0-4.5 min.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8240	DA2102	0-14 sec.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8241	DA2102	0-57 sec.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8242	DA2102	0-4.5 min.	15.51	14.74	13.97	13.18	12.41	11.63
58 D 8301	DA2102	0-9.5 min.	15.51	14.74	13.97	13.18	12.41	11.63

TYPE RG2102 REPEATING-CYCLE TIMERS

Repeat a set cycle, or sequence of switching operations, while motor is energized. Wirable through contacts for 1-cycle limit. Adjustable timing-cycle cam. SPDT, 20-amp switch, 125 or 250 v. AC, resistive. 50-60 cycle. ¼" shaft. 3¼x2⁵⁄₁₆x2⁹⁄₃₂". U.L. Listed. 1 lb.

120 VOLTS AC

Stock No.	Mfr's Type	Time Range	1-4	5-9	10-24	25-49	50-99	100-249
58 D 8251	RG2102	1 min.	12.33	11.71	11.09	10.48	9.86	9.24
58 D 8252	RG2102	5 min.	12.33	11.71	11.09	10.48	9.86	9.24
58 D 8253	RG2102	15 min.	12.33	11.71	11.09	10.48	9.86	9.24
58 D 8254	RG2102	30 min.	12.33	11.71	11.09	10.48	9.86	9.24
58 D 8255	RG2102	60 min,	12.33	11.71	11.09	10.48	9.86	9.24

TYPE BJ1101 PUSHBUTTON INTERVAL TIMER

Dependable and rugged panel-mount timer. For control of electrical equipment such as copying machines, mixers, ovens, tumbling and plating equipment. Automatically resets to preset interval. SPDT 15-amp. 125 or 250-volt AC switch U.L. and C.S.A. Listed. Face-plate. 3⁵⁄₁₆x3⁵⁄₁₆". For 120 volts. 60 cycle AC. **Specify time range: 15 sec., 30 sec., 60 sec., 5 min., or 1 hour.** Shpg. wt., 1½ lbs.

Stock No.	EACH 1-4	5-9	10-24	25-49	50-99	100-249
58 D 8329C	16.58	15.75	14.92	14.08	13.26	13.07

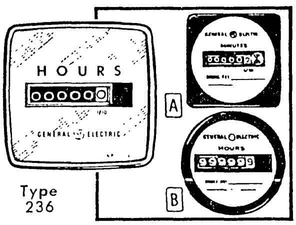
NEW EF SERIES ELAPSED TIME METER

Series EF elapsed time indicators are recommended for applications where highly accurate reading of elapsed time is desired. Provides readout as accurate as line frequency which drives synchronous motor. Unit consists of synchronous inductor motor which directly drives the counter drums. Motor output shaft and operation indicator rotate at same speed providing quick visual check on operation. Counter has Geneva action for fast index at transfer point. Numerals are white on black, with tenths red on white. Readout clearly visible through a 90° arc for distances up to 6 feet. Crystal provides minimum glare even under direct light conditions. Available for 120 or 240 volts, 50 or 60 cycles. Mounts in standard 2⅛" hole. **When ordering, specify type, voltage and frequency desired.** Ship. wt., ½ lb.

Stock No.	Mfr's Type	Time Range	EACH 1-4	5-9	10-24	25-49	50-99	100-249
58 D 8209	EF1333	99,999.9 Min.	8.50	8.08	7.65	7.23	6.80	6.38
58 D 8210C	EF1335	99,999.9 Hrs.	8.50	8.08	7.65	7.23	6.80	6.38

Timers, Reed Switches and Vibration Meters

GENERAL ELECTRIC ELAPSED-TIME METERS



Type 236

Economical units offering distinctive appearance and excellent readability. Match other G.E. meters commonly used in control panels. Measure elapsed time in hours and tenths of hours up to 99,999.9 hours (units measuring time in minutes and tenths of minutes available on special order at same price). All have ASA panel mtg. dimensions—meet Spec C39.1-1959 for 4 stud mtg. 120v., 60 cycle 1½ lbs.

NONRESET TYPES

Type 236		Type KT (Fig. A and B)			
Stock No.	Case Size	Stock No.	2½" Size	Stock No.	3½" Size
58 D 8700	2½"	58 D 8720	Sq. (A)	58 D 8722	Sq. (A)
58 D 8701	3½"	58 D 8723	Rd. (B)	58 D 8721	Rd. (B)

1-9 . . . . . . Each 17.60 10-24 . . . . . . Each 14.30
25-49 . . . . . . Each 13.20 50-99 . . . . . . Each 11.66

RESET TYPES

58 D 8702	2½"	58 D 8724	Sq. (A)	58 D 8726	Sq. (A)
58 D 8703	3½"	58 D 8725	Rd. (B)	58 D 8727	Rd. (B)

1-9 . . . . . . Each 24.00 10-24 . . . . . . Each 19.50
25-49 . . . . . . Each 18.00 50-99 . . . . . . Each 15.90

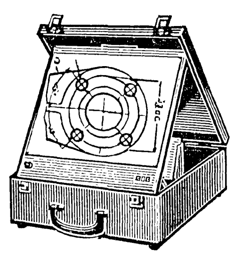
GENERAL ELECTRIC DRY-REED SWITCHES

For telephone gear, computers, position indicators, explosive atmosphere switching, etc. Contain a pair of magnetic, overlapping, contact-bearing cantilever reeds. Reeds are hermetically sealed in a glass tube filled with inert gas. Switches are actuated by an external magnetic field from either a coil or a permanent magnet. All are normally open; feature minimum contact bounce and long life. Shock and vibration resistant; can be mounted in any position. Rated for a minimum of 20 million operations. Have 500-volt breakdown @ 60 cycles rms. Min. insulation resistance, 500,000 megohms. Operating temperature range, —65° to +150°C. Max. length, less leads, 2.10"; with leads, 3.21"; max. dia., .215" (except *0.84" lgth. less leads; 2.03" with leads; 0.105" dia.). 1 oz.

Stock No.	Mfr's Type	Volt-Amps	Ampere Turns		EACH	
			Oper.	Release	1-99	100-499
56 D 4979	*DR100	4	43 ±11	23 ± 8	.80	.60
56 D 4978	DR101	15	90 ±15	35 ±10	.60	.46
56 D 4977	DR113	50	90 ±15	40 ±10	1.13	.86

COC /TIME-O-LITE MICRO READER

- **Truly Portable—Only 12 Lbs.**
- **Precision Optical System**
- **Sharp, Clear 10x13" Pictures**

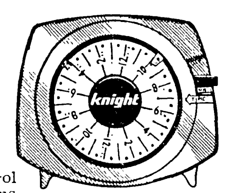


MODEL 1013A. Portable Microfilm Reader especially designed for aperture cards. Valuable for desk top or drawing table viewing of microfilmed engineering drawings, electrical diagrams etc. Particularly useful for engineers, draftsmen, estimators and others making reference to aperture cards. Equipped with a precision optical system that assures a sharp, bright full image—no scanning required. Gives clear, precise 10X magnification of 35mm microfilm mounted in aperture cards. Large 10x13" green tint patented "Lenscreen" is designed for wide view, evenly lighted reading. Hooded for easier reading, even in brightly lighted rooms. Offers perfect definition with edge to edge sharpness. Light weight, portable combines screen and microfilm projector in a compact unit. Sets up in seconds. Folds away instantly. Comes in black morocco grained attache type, key locking case. Technical features include: coated, color corrected anastigmat f3.5 lens; front surface hard-coated mirror; built-in heat absorbing filter; fingertip focusing for positive picture control; glass pressure plate in aluminum aperture card holder; 100 watt projection lamp and on/off toggle switch operation. Size, 16x14½x6½" folded. For 100-125 volts, AC or DC. Shpg. wt., 12 lbs.
58 D 8621 X 89.50

Quantity Buyers—contact Allied for prices on quantities greater than those shown. For fastest service, use the Allied facility nearest you—see page facing inside front cover.

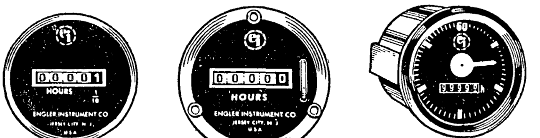
knight® TIMER

- Turns Instruments "On" and "Off" Automatically
- Also Permits Manual Control at Any Time



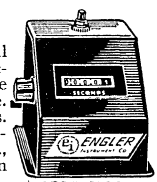
Extremely versatile time control switch has hundreds of uses. Turns lights or appliances "on" and "off" at preset times. Discourages prowlers by giving your property an "open for business" look after hours. Controls P.A. systems, dehumidifiers, room air-conditioners, fans, etc. Operation automatically repeated every 24 hours; time never needs resetting. Manual override gives you complete control at any time. Minimum "on" time, 15 minutes; maximum, 23 hours, 45 minutes. No special wiring, just plug equipment to be controlled into built-in AC outlet. Switch contacts handle 15-amp, 1875-watt load. 6-ft. line cord, plug. 5x4x2½". U.L. Listed. 110-120 volts, 60 cycle AC. 2 lbs.
58 D 8420 . . . . 8.77

ENGLER TIMER AND VIBRATION METERS



NON-RESET FRONT RESET VIBRATION

ELAPSED TIME METERS



STOP CLOCK

A true timing instrument that registers actual elapsed or running time of an operation or process. Ideal on mobile equipment where mileage will not give adequate data for maintenance. Large-numeral digital readout. No overruns. Withstands shock, vibration and temperature environment. Sealed to meet MIL specs. Case dia., 2⁷⁄₆₄". 440- or 550-v. 60 cycle units available on Special Order.

STANDARD MTG. A.C. METERS FLUSH MTG.

Stock No.	Mfr's Type	Minimum Reading	Maximum Reading	Reset	Stock No.	Mfr's Type
58 D 8622	S-10N	1/10 hr.	10,000 hrs.	Non	58 D 8628	F-10N
58 D 8623	S-13N	1/10 min.	10,000 min.	Non	58 D 8629	F-13N
58 D 8624	S-10F	1/10 hr.	10,000 hrs.	Front	58 D 8630	F-10F
58 D 8625	S-13F	1/10 min.	10,000 min.	Front	58 D 8631	F-13F
58 D 8626	S-10S	1/10 hr.	10,000 hrs.	Side	58 D 8632	F-10S
58 D 8627	S-13S	1/10 min.	10,000 min.	Side	58 D 8633	F-13S

NON-RESET. 1-4 . . . Ea. 15.50 5-9 . . . Ea. 13.00 10-24 . . . Ea. 11.75 25-49. Ea. 11.00 50-99. Ea. 10.40 100-149. Ea. 9.80 150-Up. Ea. 8.60

RESET. 1-4 Ea. 22.50, 5-9 Ea. 18.90, 10-24 Ea. 17.00, 25-49 Ea. 16.00 50-99 . . . Ea. 15.10 100-149 . . . Ea. 14.20 150-Up . . . Ea. 12.50

STANDARD MTG. DC METERS (1/10-10,000 HRS.) FLUSH MTG.

Stock No.	Type	Volts	Reset	Stock No.	Type
58 D 8634	S-12N	12	Non	58 D 8640	F-12N
58 D 8635	S-24N	24	Non	58 D 8641	F-24N
58 D 8636	S-12F	12	Front	58 D 8642	F-12F
58 D 8637	S-24F	24	Front	58 D 8643	F-24F
58 D 8638	S-12S	12	Side	58 D 8644	F-12S
58 D 8639	S-24S	24	Side	58 D 8645	F-24S

NON-RESET. 1-4 . . Ea. 19.50 5-9 . . Ea. 16.50 10-24 . . . Ea. 15.00 25-49. Ea. 14.00 50-99. Ea. 13.10 100-149. Ea. 12.30 150-Up. Ea. 10.80

RESET. 1-4 . . . Ea. 26.50 5-9 . . . Ea. 22.00 10-24 . . . Ea. 20.00 25-49. Ea. 19.00 50-99. Ea. 17.80 101-149. Ea. 16.70 150-Up. Ea. 14.70

58 D 5846. Mounting Bracket 70
58 D 5847. Dampner Ring 5.00

Vibration Meters. The V-100 series hour meters register time only when subjected to vibration. Ideal for machinery where current is not available, for transferring from one machine to another, or in an explosive atmosphere. Order V-100V for vertical to 45° mounting. Order V-100H for horizontal to 45° mounting. Case dia., 2⅜".
58 D 8648. Model V-100V. 58 D 8653. Model V-100H.

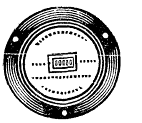
1-4 . . Ea. 29.50 5-9 . . Ea. 24.80 10-24 Ea. 22.50 25-49 Ea. 21.00 50-99 . . . Ea. 19.80 100-149 . . . Ea. 18.60 150-Up . . . Ea. 16.50

Electric Stop Clock. Timer totalizes and gives split second registering of elapsed time. Instantaneous start-stop feather-touch push button. Immediately resettable. Heavy-duty metal cased instrument never needs servicing. Model CS60 reads in seconds and tenths. Model CS24 in minutes and hundreds. Specify model desired.
58 D 8654. Model CS60. 58 D 8655. Mode. CS24.

1-4 . . Ea. 40.00 5-9 . . Ea. 33.50 10-24. Ea. 30.50 25-49. Ea. 28.50 50-99 . . . Ea. 27.00 100-149 . . . Ea. 25.00 150-Up . . . Ea. 22.50

Industrial Timer Corporation Timing Controls

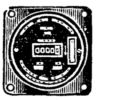
NON-RESET RUNNING-TIME METERS



Model C2. Provides an accurate account of machine running-time—easy to compute production costs from elapsed time shown, or determine time to replace components with a predetermined life expectancy, thus preventing costly "down-time." Equipped with non-resettable counters that mark every 1/10 hour; total time-range of 10,000 hours. Units are completely enclosed and resistant to dust and moisture. In 3½" round bakelite meter case; require 2⅞" panel mounting hole. With stud-type terminals. For 115 v., 60 cycle AC. Shpg. wt., 2 lbs. **See table below.**

Model C4. Same as Model C2 above, but has open-type construction. For any application not requiring a cased panel unit, such as direct mounting on machinery. 2½" dia. mtg. flange; overall depth is 2³⁄₁₆". Wt., 2 lbs. **See table below.**

RESET TIME TOTALIZERS

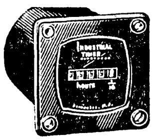


Model C5. Same as units described above, but equipped with special reset counters, making it possible to reset totalizer back to zero at any time. Completely enclosed in baked, black finished steel housing 2⅞" in diameter, 3¼" long. Has heavy steel mounting flange measuring 3¼"x3¼". Screw terminals on back of unit. For operation from 115 v., 60 cycle AC. Shpg. wt., 2 lbs. **See table below.**

Model C7. Same as Model C5 described above, but employing open-type construction. Has large, edge-knurled dial in front of meter for convenient, resetting of digit counters. Size, 2¾x2½x3". Shpg. wt., 2 lbs. **See table below.**

Stock No.	Mfr's Type	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8442	C-2	20.00	19.00	18.00	17.00	16.00	15.00	14.00	13.00
58 D 8444	C-4	16.50	15.68	14.85	14.03	13.20	12.38	11.55	10.73
58 D 8446	C-5	42.50	40.38	38.25	36.13	34.00	31.88	29.75	27.63
58 D 8448	C-7	34.50	32.78	31.05	29.33	27.60	25.88	24.15	22.43

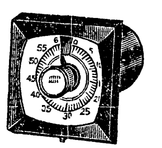
AC AND DC RUNNING-TIME METERS



Model C-8, C-9. For AC or DC applications. Equipped with non-resettable counters that mark every 1/10 hour; total time range of 10,000 hours. In electrical apparatus, meter is wired in parallel with the main ON-OFF switch. On non-electrical equipment, wired between the ground and primary of ignition coil. On diesel-powered equipment, connected to starting battery. C-8, DC types powered by solenoid clock movement. C-9, AC type powered by synchronous motor. Mount with 4 screws in 2³⁄₁₆" cutout. Require 3⁵⁄₁₆" behind panel. 1 lb.

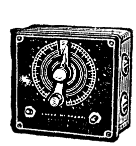
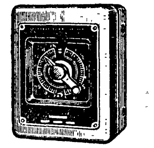
Stock No.	Mfr's Type	Volts	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8519	C-8	6 DC	19.25	18.29	17.33	16.36	15.40	14.44	13.48	12.51
58 D 8521	C-8	12 DC	19.25	18.29	17.33	16.36	15.40	14.44	13.48	12.51
58 D 8522	C-8	24 DC	19.25	18.29	17.33	16.36	15.40	14.44	13.48	12.51
58 D 8523	C-8	32 DC	19.25	18.29	17.33	16.36	15.40	14.44	13.48	12.51
58 D 8543	C-9	115 AC	19.25	18.29	17.33	16.36	15.40	14.44	13.48	12.51

SERIES GTD TIME-DELAY TIMERS



Designed for use in circuit controls where an adjustable time-delay is required between the opening of one circuit and the closing or opening of another circuit. Units are instant automatic reset type—as soon as clutch is disengaged, an internal spring returns actuating arm to its reset position in a fraction of a second. Timer dials are calibrated in 60 easy-to-see increments. Time adjustments are made by setting unit at any of its calibrations with center-mounted knob on face. Elapsed time is shown by red pointer moving towards black adjustment pointer. Timer is started with a sustained switch closure; times to zero, operates the load switch and remains in the zero position until the start-circuit is opened. With heavy-duty synchronous motor SPDT load-switch rated 10 amps, non-inductive. Requires 3" mtg. hole. No screw holes needed—a single screw under flange of timer tightens bracket against edge of panel. 4x4⅜" flange, 4²³⁄₃₂" behind panel. Equipped with screw terminals. For 115 v., 60 cycle AC. **Available with time cycles of: 15 seconds; 30 seconds; 60 seconds; 5 minutes; 15 minutes; 30 minutes; and 60 minutes—specify desired time cycle when ordering.** Shpg. wt., 2 lbs.

58 D 8546 C. 1-3....Each 39.50 4-5....Each 37.53
6-11....Each 35.55 12-24....Each 33.58 25-49....Each 31.60
50-99....Each 29.63 100-249....Each 27.65 250-499....Each 25.68

Series P Series PAB

INTERVAL TIMERS

SERIES P AUTOMATIC RESET TIMERS

Multi-purpose interval timer with automatic reset. Provided with receptacle for remote starter, and standard AC receptacle for load. Load-switch contacts are rated at 15 amps. Built-in toggle switch is provided for manually operating the load circuit permanently when timed operation is not required. Completely portable, unit is supplied with AC cord and is housed in metal case with keyhole slots in back for wall mounting. Overall size, 5x5x3". For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

Stock No.	Mfr's Type	Max. Time Cycle	Dial Division
58 D 8528	P-4R	15 seconds	¼ second
58 D 8529	P-2R	30 seconds	½ second
58 D 8474	P-1M	1 minute	1 second
58 D 8475	P-3M	3 minutes	3 seconds
58 D 8530	P-5M	5 minutes	5 seconds

1-3....Ea. 33.00 4-5....Ea. 31.35
6-11....Ea. 29.70 12-24....Ea. 28.05
25-49....Ea. 26.40 50-99....Ea. 24.75
100-249....Ea. 23.10 250-499.Ea. 21.45

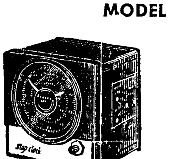
SERIES PAB INSTANT-RESET TIMERS

Extremely accurate, instant-reset, automatic timers designed for heavy-duty use in industrial control applications. Features instant reset adjustment. Electrically operated clutch drives actuating arm to dial setting selected, and automatically releases. Spiral spring resets arm in split second. Output terminals can be wired for circuit transfer applications. Switch contacts rated 15 amps at 115 volts AC with non-inductive load. Metal enclosure has ½" knockouts for use with rigid or flexible conduit. 7⅛x5⅛x4¼". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

Stock No.	Mfr's Type	Max. Time Cycle	Dial Division
58 D 8531	PAB-15S	15 seconds	¼ second
58 D 8532	PAB-30S	30 seconds	½ second
58 D 8534	PAB-60S	60 seconds	1 second
58 D 8535	PAB-5M	5 minutes	5 seconds
58 D 8536	PAB-15M	15 minutes	15 seconds
58 D 8537	PAB-30M	30 minutes	30 seconds
58 D 8538	PAB-60M	60 minutes	1 minute

1-3....Ea. 55.00 4-5....Ea. 52.25
6-11....Ea. 49.50 12-24....Ea. 46.75
25-49....Ea. 44.00 50-99....Ea. 41.25
100-249....Ea. 38.50 250-499..Ea. 35.75

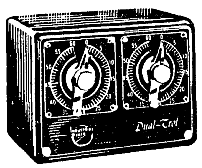
MODEL SC-100 ELECTRIC STOP-CLOCK



Measures time intervals from 1/100 second to 60 seconds. For process and test measurement, production control, time and motion studies, medical research, and sporting events—wherever precise short-timing measurements are required. Incorporates synchronous motor, cone clutch for exceptional pull-in speed, 360° engagement, and automatic wear compensation. Compound dial has 2 pointers; inside dial measures 1-60 seconds in one second increments, outside dial measures .01-.99 second in .01 second increments. Remote start-stop and reset receptacles on side of case. Can be started with pushbutton on cord or by a limit switch in a piece of equipment. Reset with front-panel reset button or remotely through a series switch. Reset time .010 sec. 5x5x4²⁵⁄₃₂". For 115 v., 60 cycle AC only. Shpg. wt., 5 lbs.

58 D 8441. 1-3....Each 68.50 4-5....Each 65.08
6-11....Each 61.65 12-24....Each 58.23 25-49....Each 54.80
50-99...Each 51.38 110-249...Each 47.95 250-499...Each 44.53

DUAL-TROL TIMING MODULES



- Two Sequences
- Choice of Cycles
- Plug-in Modules
- Recycling

Two adjustable on/off sequencing switch closures. Modules can be combined to give any combinations of cycles listed. 10-amp; SPDT. **Specify timing modules desired: 6 seconds, 15 seconds, 30 seconds, 60 seconds, 3 minutes, 5 minutes, 15 minutes, 30 minutes, 60 minutes, 3 hours.** 2 lbs. Order housing for modules separately.

58 D 8554 C. 1-3....Each 27.50 4-5....Each 26.13
6-11....Each 24.75 12-24....Each 23.38
25-49....Each 22.00 50-99....Each 20.63

MODULE HOUSING. Each holds two modules. Shpg. wt., 1½ lbs.
58 D 8553. 1-3....Each 22.50
4-5....Each 21.38 6-11....Each 20.25 12-24....Each 19.13
25-49....Each 18.00 50-99....Each 16.87

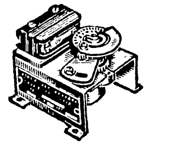
Industrial Timer Corporation Timers

CM, MC AND RC CAM TIMERS

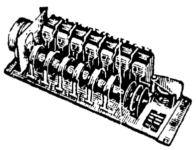
GEAR-AND-RACK ASSEMBLIES CHART

Stock No.	Gear As'bly Type No. †	Foundation Units: CM-2 MC-2 RC-2	CM-4 MC-4 RC-4	CM-5 MC-5 RC-5	CM-6 MC-6 RC-6	CM-8 MC-8 RC-8	CM-10 MC-10 RC-10
		*Overall Time Cycles Available					
58 D 8472	E-12	10S	40S	2M	3M20S	20M	2H
58 D 8500	E-15	12½S	50S	2M30S	4M10S	25M	2H30M
58 D 8468	C-12	15S	60S	3M	5M	30M	3H
58 D 8501	C-14	17½S	70S	3M30S	5M50S	35M	3H30M
58 D 8466	B-12	20S	80S	4M	6M40S	40M	4H
58 D 8504	C-18	22½S	90S	4M30S	7M30S	45M	4H30M
58 D 8467	B-15	25S	100S	5M	8M20S	50M	5H
58 D 8457	A-12	30S	2M	6M	10M	60M	6H
58 D 8507	A-14	35S	140S	7M	11M40S	70M	7H
58 D 8458	A-16	40S	160S	8M	13M20S	80M	8H
58 D 8459	A-18	45S	3M	9M	15M	90M	9H
58 D 8460	A-20	50S	200S	10M	16M40S	100M	10H
58 D 8517	A-22	55S	220S	11M	18M20S	110M	11H
58 D 8461	A-24	60S	4M	12M	20M	2H	12H
58 D 8518	A-30	75S	5M	15M	25M	2H30M	15H
58 D 8465	A-36	90S	6M	18M	30M	3H	18H

*S=Seconds M=Minutes H=Hours
†GEAR-AND-RACK ASSEMBLY........................Each 1.75



Series CM



Series RC

Adjustable 2% to 98% of complete time cycle

HOW TO ORDER CAM TIMERS

Locate duration of complete time-cycle desired in "Gear and Rack Assemblies Chart," and order both the gear-and-rack assembly and one of the foundation units indicated in the column head. *Example:* Time-cycle required, 30 seconds (recycling); 4 circuits to be controlled. Order Gear-and-Rack Assembly A-12, Stock Number 58 D 8457; locate Foundation MC-2 in table. Find Stock No. under 4-CIRCUIT and order Stock No. 58 D 8612. *When ordering, specify time cycle, number of circuits, and Mfr's Type.*

SERIES CM RECYCLING-CAM FOUNDATION UNITS

(Order Gear-and-Rack Assembly Separately, Above)

Series CM Recycling Timer. Repeats a definite electrical "Off-On" cycle continuously. Timer consists of two units: a gear-and-rack assembly, and a Series CM chassis-mounted foundation unit that includes a heavy-duty synchronous motor and a cam-activated SPDT switch. Different combinations of these two basic units provide a variety of time cycles (see "How to Order" above, right). Gear and rack assemblies easily interchangeable. Corrosion-resistant aluminum cams have single screw adjustment for setting "On" or "Off" period from 2% to 98% of the complete time cycle. Contacts rated 10 amps at 115 v., or 220 v., 60 cycle AC. U.L. and C.S.A. Listed. 2⁷⁄₁₆x3x3³⁄₁₆". For 110-120 v., 60 cycle AC. 1½ lbs.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8450	CM-2	58 D 8453	CM-6	18.75	17.81	16.88	15.94	15.00	14.06	13.13	12.19
58 D 8451	CM-4	58 D 8454	CM-8	18.75	17.81	16.88	15.94	15.00	14.06	13.13	12.19
58 D 8452	CM-5	58 D 8455	CM-10	18.75	17.81	16.88	15.94	15.00	14.06	13.13	12.19

SERIES MC AND RC FOUNDATION UNITS

(Order Gear-and-Rack Assembly Separately, Above)

Series MC Multi-Cam Recycling Timer. Identical to CM timer above, but controls more than one circuit. Cams are mounted on single driving shaft, coupled to the motor by a gear-and-rack assembly. Cams can be adjusted in any combination of timed sequences rapidly and easily. This individual cam adjustability enables the timer to be used as a programing device. See "How to Order," above, right.

Series RC Single-Cycle Multi-Cam Timer. Designed to provide a single timed electrical cycle upon momentary actuation from a remote position. May be used to control more than 1 circuit. Cams are individually adjustable for any combination of timed sequences. This design enables the user to have all the advantages of the Series MC timers, plus the single-cycle homing control. See "How to Order" above, right.

2-CIRCUIT Shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8439	MC-2	58 D 8480	MC-6	33.75	32.06	30.37	28.69	27.00	25.31	23.63	21.94
58 D 8440	MC-4	58 D 8511	MC-8	33.75	32.06	30.37	28.69	27.00	25.31	23.63	21.94
58 D 8479	MC-5	58 D 8512	MC-10	33.75	32.06	30.37	28.69	27.00	25.31	23.63	21.94
58 D 8513	RC-2	58 D 8541	RC-6	48.75	46.31	43.87	41.44	39.00	36.56	34.12	31.69
58 D 8515	RC-4	58 D 8544	RC-8	48.75	46.31	43.87	41.44	39.00	36.56	34.12	31.69
58 D 8516	RC-5	58 D 8549	RC-10	48.75	46.31	43.87	41.44	39.00	36.56	34.12	31.69

4-CIRCUIT Shpg. wt., 2 lbs.

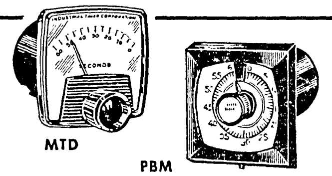
Stock No.	Mfr's Type	Stock No.	Mfr's Type	1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8612	MC-2	58 D 8615	MC-6	50.75	48.21	45.67	43.14	40.60	38.06	35.53	32.99
58 D 8613	MC-4	58 D 8616	MC-8	50.75	48.21	45.67	43.14	40.60	38.06	35.53	32.99
58 D 8614	MC-5	58 D 8617	MC-10	50.75	48.21	45.67	43.14	40.60	38.06	35.53	32.99
58 D 8618	RC-2	58 D 8651	RC-6	66.25	62.94	59.63	56.31	53.00	49.69	46.38	43.06
58 D 8649	RC-4	58 D 8656	RC-8	66.25	62.94	59.63	56.31	53.00	49.69	46.38	43.06
58 D 8650	RC-5	58 D 8657	RC-10	66.25	62.94	59.63	56.31	53.00	49.69	46.38	43.06

6-CIRCUIT Shpg. wt., 4 lbs.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8558	MC-2	58 D 8568	MC-6	67.25	63.89	60.53	57.17	53.80	50.44	47.08	43.71
58 D 8566	MC-4	58 D 8569	MC-8	67.25	63.89	60.53	57.17	53.80	50.44	47.08	43.71
58 D 8567	MC-5	58 D 8576	MC-10	67.25	63.89	60.53	57.17	53.80	50.44	47.08	43.71
58 D 8580	RC-2	58 D 8587	RC-6	83.75	79.56	75.38	71.19	67.00	62.81	58.63	54.44
58 D 8583	RC-4	58 D 8588	RC-8	83.75	79.56	75.38	71.19	67.00	62.81	58.63	54.44
58 D 8586	RC-5	58 D 8589	RC-10	83.75	79.56	75.38	71.19	67.00	62.81	58.63	54.44

8-CIRCUIT Shpg. wt., 5 lbs.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8600	MC-2	58 D 8503	MC-6	84.25	80.04	75.82	71.61	67.40	63.19	58.97	54.76
58 D 8601	MC-4	58 D 8604	MC-8	84.25	80.04	75.82	71.61	67.40	63.19	58.97	54.76
58 D 8602	MC-5	58 D 8605	MC-10	84.25	80.04	75.82	71.61	67.40	63.19	58.97	54.76
58 D 8606	RC-2	58 D 8609	RC-6	100.25	95.24	90.23	85.21	80.20	75.19	70.18	65.16
58 D 8607	RC-4	58 D 8610	RC-8	100.25	95.24	90.23	85.21	80.20	75.19	70.18	65.16
58 D 8608	RC-5	58 D 8611	RC-10	100.25	95.24	90.23	85.21	80.20	75.19	70.18	65.16



MTD

PBM

MTD TIME-DELAY TIMER

Time-delay timer that operates an isolated 10-amp SPDT load switch at the completion of a preset time delay. Timer automatically resets. Shpg. wt., 2½ lbs.
Specify range: 6 seconds; 15 seconds; 30 seconds; 60 seconds; 5 minutes; 15 minutes; 30 minutes; 1 hour; 3 hours.

58 D 8550 C. 1-3..............Each 30.50
4-5.....Each 28.97 6-11......Each 27.45
12-24...Each 25.92 25-49.....Each 24.40
50-99...Each 22.87 100-249...Each 21.35
250-499......................Each 19.82

PBM INTERVAL TIMER

Pressing pushbutton closes a load switch for duration of a preset timed interval. Timer automatically resets and starts new cycle of timed interval when pushbutton is depressed. SPDT contacts. Contacts rated 25 amps non-inductive at 115 v. AC, 60 cycles. **Specify time ranges:** 6 sec.; 15 sec.; 30 sec.; 60 sec.; 5 min.; 15 min.; 30 min.; 1 hour; 3 hours. Shpg. wt., 3 lbs.

58 D 8552 C. 1-3..............Each 19.25
4-5.....Each 18.29 6-11......Each 17.32
12-24...Each 16.36 25-49.....Each 15.40
50-99...Each 14.44 100-249...Each 13.47
250-499......................Each 12.51

SERIES "S" SIGNALING TIMER

Motor-driven, manual set, multi-purpose signal timer. Two receptacles are provided on the side of the case: a black receptacle for load or remote signal to operate at the end of the cycle, and a red receptacle to operate load circuit during the time cycle. Setting timer for any part of time cycle lights lamp and powers red outlet. On completion of cycle, lamp is turned off, a buzzer sounds, and a 10-amp SPDT switch transfers power from the red receptacle to the black receptacle. Buzzer sounds until manually turned off, or until timing cycle is started again. Durable metal case. With AC cord. For 110-120 v., 60 cycle AC. Wt., 3 lbs.

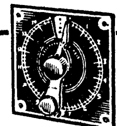
Specify time range.

Type	Max. Cycle	Type	Max. Cycle
S-5M	5 min.	S-1H	1 hour
S-15M	15 min.	S-3H	3 hours
S-30M	30 min.	......	....

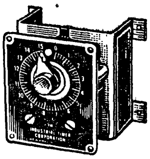
58 D 8533 C. 1-3..............Each 29.00
4-5.......Each 27.55 6-11......Each 26.10
12-24.....Each 24.65 25-49.....Each 23.20
50-99.....Each 21.75 100-249...Each 20.30
250-499......................Each 18.85

Timing Equipment by Industrial Timer

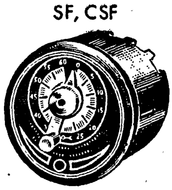
HIGH-ACCURACY TIME-DELAY CONTROLS



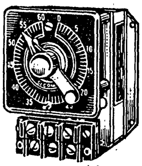
H, CH



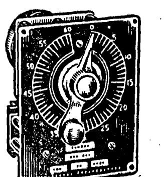
SF, CSF



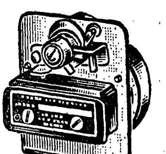
TD, CTD



TDAB



TDAF



SERIES 90

SERIES H, CH, SF AND CSF TIME-DELAY TIMERS

Automatic reset units. For use where fixed or adjustable delay is needed between closing one circuit and opening or closing another. SPDT switch rated 10 amps at 115 v. AC, with non-inductive load. Clutch is integral part of motor in units up to 1 minute; others have external clutch. Series H and CH for front-panel mounting; SF and CSF for back-panel mtg.; all have 4-screw mtg. holes. Overall size: H and CH, 3 7/16x3 9/16x3½"; SF and CSF, 2¾x3 1/16x2⅝". For 110-120 v., 60 cycle AC. U.L. Listed. Wt., 1½ lbs.

Stock No.	Mfr's Type	Max. Time Cycle	Stock No.	Mfr's Type	Max. Time Cycle	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8432	H-6S	6 sec.	58 D 8486	CH-1M	1 min.	26.50	25.18	23.85	22.53	21.20	19.87	18.55	17.23
58 D 8485	H-15S	15 sec.	58 D 8487	CH-3M	3 min.	26.50	25.18	23.85	22.53	21.20	19.87	18.55	17.23
58 D 8426	H-30S	30 sec.	58 D 8488	CH-5M	5 min.	26.50	25.18	23.85	22.53	21.20	19.87	18.55	17.23
58 D 8431	SF-6S	6 sec.	58 D 8482	CSF-1M	1 min.	23.00	21.85	20.70	19.55	18.40	17.25	16.10	14.95
58 D 8481	SF-15S	15 sec.	58 D 8483	CSF-3M	3 min.	23.00	21.85	20.70	19.55	18.40	17.25	16.10	14.95
58 D 8430	SF-30S	30 sec.	58 D 8484	CSF-5M	5 min.	23.00	21.85	20.70	19.55	18.40	17.25	16.10	14.95

SERIES TD AND CTD TIME-DELAY TIMERS

Synchronous-motor-driven. Clutch engages and drives gear train when motor is energized—when de-energized, it returns to reset position. All have 60 dial divisions. For front-panel mounting in 3" diameter hole. Bakelite case has terminals at rear. SPDT contacts rated at 10 amps. Flange dia., 3 3/16". Depth behind panel: TD, 2 23/32"; CTD, 4 5/32". For 110-120 v., 60 cycle AC. U.L. Listed. Shpg. wt., 1½ lbs.

58 D 8433	TD-6S	6 sec.	58 D 8435	CTD-1M	1 min.	30.50	28.98	27.45	25.93	24.40	22.88	21.35	19.83
58 D 8493	TD-15S	15 sec.	58 D 8436	CTD-3M	3 min.	30.50	28.98	27.45	25.93	24.40	22.88	21.35	19.83
58 D 8494	TD-30S	30 sec.	58 D 8495	CTD-5M	5 min.	30.50	28.98	27.45	25.93	24.40	22.88	21.35	19.83

SERIES TDAB AND TDAF TIME-DELAY TIMERS

Series TDAB (back-mounted) and Series TDAF (panel-mounted) timers for circuit controls where adjustable or fixed time-delay is required between the closing or opening of one circuit and the closing or opening of another circuit. For applications requiring high repetitive accuracy, fast reset, and heavy usage. Automatic reset of timing/switching movement in less than 0.2 second. Ideal for plastic molding equipment, packaging machinery, graphic arts equipment and other uses. Snap-action switches (SPDT) rated 10 amps. Sizes: TDAB, 4 9/16x3 17/32x4⅛"; TDAF, 4½x3⅝x3⅜". For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

Max. Time Cycle	Dial Div.	BACK MOUNT Stock No.	Type TDAB-	PANEL MOUNT Stock No.	Type TDAF-	Max. Time Cycle	Dial Div.	BACK MOUNT Stock No.	Type TDAB-	PANEL MOUNT Stock No.	Type TDAF-
1 sec.	1/60 sec.	58 D 8381	1S	58 D 8437	1S	3 min.	3 sec.	58 D 8390	3M	58 D 8469	3M
3 sec.	1/20 sec.	58 D 8382	3S	58 D 8456	3S	5 min.	5 sec.	58 D 8391	5M	58 D 8473	5M
6 sec.	1/10 sec.	58 D 8386	6S	58 D 8462	6S	15 min.	15 sec.	58 D 8392	15M	58 D 8428	15M
15 sec.	¼ sec.	58 D 8387	15S	58 D 8463	15S	30 min.	30 sec.	58 D 8393	30M	58 D 8476	30M
30 sec.	½ sec.	58 D 8388	30S	58 D 8464	30S	60 min.	60 sec.	58 D 8394	60M	58 D 8429	60M
60 sec.	1 sec.	58 D 8389	60S	58 D 8427	60S	3 hrs.	3 min.	58 D 8395	3H	58 D 8492	3H

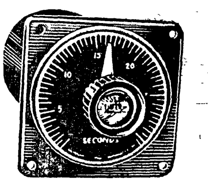
Type	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
Any TDAB or TDAF	43.00	40.85	38.70	36.55	34.40	32.25	30.10	27.95

SERIES 90 TIME-DELAY TIMERS

Rugged, compact timer for use in applications where the time-delay cycle is infrequently changed, or permanently fixed. Excellent for use in photocopy equipment, induction heating units, transmitters, etc. Changes in time delay cycle are made by loosening set screw and offsetting one cam arm in relation to the other. Totally enclosed, snap-action SPDT switch contacts are rated at 10 amps at 115-230 volts AC. Overall size (HWD): 2⅝x2¼x2¼". For 115 v., 60 cycle AC. U.L. Listed. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Settings Min.	Settings Max.	EACH 1-3	4-5	6-11	12-24	25-49	50-99	100-249	250-499
58 D 8416	90-6S	½ sec.	6 sec.	17.00	16.15	15.30	14.45	13.60	12.75	11.90	11.05
58 D 8417	90-15S	1½ sec.	15 sec.	17.00	16.15	15.30	14.45	13.60	12.75	11.90	11.05
58 D 8418	90-30S	3 sec.	30 sec.	17.00	16.15	15.30	14.45	13.60	12.75	11.90	11.05
58 D 8419	90-60S	6 sec.	1 min.	17.00	16.15	15.30	14.45	13.60	12.75	11.90	11.05
58 D 8496	90-90S	9 sec.	1½ min.	17.00	16.15	15.30	14.45	13.60	12.75	11.90	11.05

SERIES ELT ELECTRONIC TIME-DELAY TIMERS

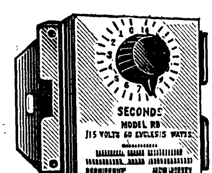


Fully transistorized units provide an adjustable time delay between the closing of one circuit and the subsequent operation of another. Have instant reset feature. Available in 6 time-delay ranges (see table below). With SPDT 10-amp contacts, fully isolated. Use zener diodes for extremely stable repetitive timing within wide voltage fluctuations. Overall length, 5⅝"; dia., 2⅞"; 3¼" sq. mtg. flange. For 115 v., 60 cycle AC. 4 lbs.

Stock No.	Mfr's Type	Time Cycle (Seconds) Maximum	Minimum
58 D 8669	ELT500	½	.030
58 D 8670	ELT1S	1	.050
58 D 8671	ELT5S	5	.250
58 D 8672	ELT10S	10	.500
58 D 8673	ELT30S	30	1.5
58 D 8680	ELT60S	60	3.0

1-3......Each 68.50 4-5......Each 65.07 6-11......Each 61.65
12-24....Each 58.22 25-49....Each 54.80 50-99.....Each 51.37

SERIES RB AUTOMATIC RESET DELAY TIMER



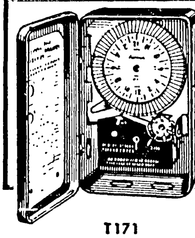
Provides adjustable delay between closing of one circuit and operation of timer load switch. Removable back bracket allows panel mounting. SPDT contacts 10 amps non-inductive. Size and mounting interchangeable with other leading manufacturers. 3 1/32x3 9/32x2 13/32". For 115 v., 60 cycle. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Time Cycle Maximum	Minimum
58 D 8570	RB-5.6S	5.6 sec.	2/10 sec.
58 D 8571	RB-14S	14 sec.	½ sec.
58 D 8572	RB-28S	28 sec.	1 sec.
58 D 8573	RB-56S	56 sec.	2 sec.
58 D 8574	RB-84S	1 min. 24 sec.	3 sec.
58 D 8575	RB-168S	2 min. 38 sec.	6 sec.
58 D 8577	RB-4.5M	4 min. 40 sec.	10 sec.

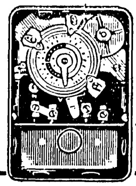
1-3..............Each 14.50 4-5..............Each 13.78
6-11......Each 13.05 12-24......12.33 25-49......Each 11.60
50-99.....Each 10.88 100-249....10.15 250-499....Each 9.43

Time Switches and Time Delays

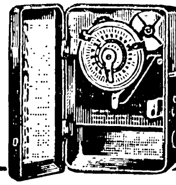
Intermatic



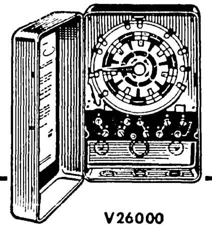
T171



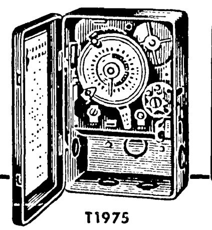
T185



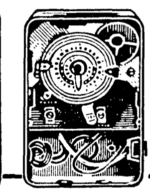
T101



V26000



T1975



P101

7-DAY "SKIPPER" TIME SWITCHES

Two dials: a time dial and a day dial. To skip any days, small skipping screws are inserted into the day dial. "On" and "off" trippers are set in the time dial. Special "cutout" tripper advances day dial every 24 hours. Up to 12 on and off operations per day obtained by adding extra "on and off" trippers. Range: minimum "on" or "off" time, 1 hour; maximum, 23 hours. Switch may be operated manually. Automatic reset resumes time cycle.

Alloy-T contacts, 40 amps (4375 watts, tungsten) at 125 volts. Steel case; gray finish. 3 skipping screws, one on-cutout, one off-tripper. Tungsten rated to carry incandescent light loads with surge more than 8 times normal. 7¾x5x3". U.L. Listed. For 110-120 v., 60 cycle AC. 3 lbs.

58 D 8315. Type T171. SPST.......11.67
58 D 8316. Type T173. DPST.......12.97
58 D 8317. Type T175. SPDT.......12.97

TYPE 107T19GR ON-CUTOUT TRIPPER. For "Skipper" types only. 3 oz.
58 D 8319.....................Each .30

TYPE 79T8A SKIPPING SCREWS. For "Skipper" types only. 8 oz.
58 D 8364. Pkg. of 2..........Per Pkg. .13

NEW 7-DAY HEAVY-DUTY "SKIPPER"

T573-R. Similar in appearance and dials to "Skipper" above. For heavy lighting duty such as store windows, parking lots. Up to 12 on and off operations per day by adding extra On and Off trippers. Automatic reset. DPST. Rated 55 amps tungsten per pole; 6875 watts; 2 hp motor load. Set-screw, pressure-type lugs for #14- #6 wires. Indoor-outdoor case, 9⅝x5½x3$\frac{9}{16}$". 3 skipping screws, 1 On-Cutout tripper, 1 Off tripper. For 110-120 v., 60 cycle AC. 4 lbs.
58 D 8332.......................22.72

TYPE T185 DELUXE TIME SWITCH

Versatile switch provides up to 12 independently controlled "on-off" cycles. Can vary from 5-60 minutes. Minimum interval between cycles, 2 hours. Can be used as SPST, normally open; SPST normally closed; or SPDT, alternate open and closed. 40 amps (4375 watts, tungsten) at 125 v. AC. With 3 trippers (1 for each "on-off" cycle). Up to 12 combination trippers can be used. Tungsten rated to carry incandescent light loads with surge more than 8 times normal. 7¾x5x3". U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.
58 D 8313.......................11.67

EXTRA SET OF TRIPPERS. Adjustable cam on-tripper can be set for duration of "on-off" cycle. 4 oz.
58 D 8336..................Per Set .85

TYPE T101 STANDARD TIME SWITCH

SPST time switch turns equipment "on" and "off" once in 24 hours. With inexpensive extra trippers (Type 107T8A, listed below) will operate up to 12 times a day. Trippers can be added without removing the dial. Minimum time between settings is 1 hour. Manual operation does not interfere with settings. 40-amp rating (4375 watts, tungsten) at 125 v., 60 cycles. Tungsten rated to carry incandescent lighting loads with an inrush surge of more than 8 times their normal amperage rating. Gray steel case with knockouts. Size, 5x3x7⅞". U.L. Listed. For 110-120 volt, 60 cycle AC. 3 lbs.
58 D 8322.......................8.42

TYPE T103. As above, except DPST.
58 D 8321.......................9.72

TYPE 107T8A "ON AND OFF" TRIPPERS. For all Intermatic switches (except T185). Shpg. wt., 2 oz.
58 D 8324..................Per Set .40

NEW V26000 7-DAY TIME SWITCH

Seven sets of trippers supplied enable you to set a different On-Off program each day of the week. For heating, pumps, motors and other single to three-phase loads. A 3-hour minimum between operations allows up to 4 On-Off operations per day. Rated 40 amps tungsten per pole; 690 VA pilot duty; 1 hp. 10⅞x7⅜x3⅝". U.L. Listed. For 110-120 v., 60 cycle AC. 6¼ lbs.
58 D 8333. V26001. 4PST..........19.47
58 D 8334. V26003. 4P:2NO-2NC...19.47

T1975 "SKIPPER" PROGRAM TIMER

'Supervisor" with 96 trippers for 48 'on" and 48 "off" operations every 24 hours. Minimum interval is 15 minutes. For full-time control of heating, air conditioning, industrial music systems, etc. "Skipper" feature for omitting operation on selected days. Has a 7-day Skipper wheel with handy push-pull tabs. Slide in and out for fast, accurate tripping. SPDT switch, rated 20 amps at 125 volts, 60 cycle AC. Synchronous, slow-speed motor is heavy-duty industrial type, self-starting. Snap-out mechanism. U.L. Listed. 7¾x5x3". Shpg. wt., 3¾ lbs.
58 D 8378.......................22.72

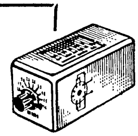
TYPE P101 STANDARD TIME SWITCH

Portable type, SPST plug-in time switch. Will handle any appliance that plugs into regular outlets. Controls lamps, signs, radios, TV sets, etc. Easily set for as many as 12 on-off operations per day with extra Type 107T8A Trippers, at left. Minimum "on" or "off" time, 1 hour; maximum, 23 hours. May also be manually operated. 10 amps at 125 volts. Tungsten rated to carry incandescent light loads with surge more than 8 times normal. 5x3x7⅞". U.L. Listed. For 110-120 v., 60 cycle AC. 3 lbs.
58 D 8314.......................9.72

SOLID-STATE AC AND DC ADJUSTABLE TIMERS

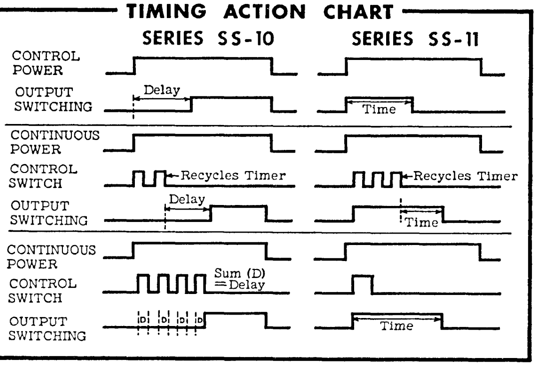
SPECIFICATIONS

Output Switching: DPDT relay contacts rated 10 amps resistive, 5 amps inductive
Repeatability Accuracy: ±1%.
Recycle Time: 50-ms after cycle completion.
Life: 10 million cycles



For on-off delay, conveyor jam-up control, totalizing, interval and momentary actuated timing. Choice of 3 timing actions (see chart) by wiring external jumper to appropriate terminals. Calibrated dial. Two mountings: 11-pin glass to metal plug-in, and surface unit with barrier terminal strips and mtg. flange. Transient protection. Steel case, 4¾x2x2". 14 oz. For remote potentiometer kit, give timer range, and add $1.65 to price shown below.

TIMING ACTION CHART



SS-10 SERIES

Plug-In Stk. No.	Plug-In Type SS-	Surface Mt. Stk. No.	Surface Mt. Type SS-	Range (Secs.)	Input Volts	EACH 1-5
41 D 7115	10222B	41 D 7132	10222B1	.05-.5	115 AC	32.47
41 D 7116	10223B	41 D 7133	10223B1	.05-.5	24 DC	31.17
41 D 7117	10222C	41 D 7134	10222C1	.5-5	115 AC	32.47
41 D 7118	10223C	41 D 7135	10223C1	.5-5	24 DC	31.17
41 D 7119	10222D	41 D 7136	10222D1	5-50	115 AC	32.47
41 D 7120	10223D	41 D 7137	10223D1	5-50	24 DC	31.17
41 D 7121	10222E	41 D 7138	10222E1	50-500	115 AC	37.67
41 D 7122	10223E	41 D 7139	10223E1	50-500	24 DC	36.37

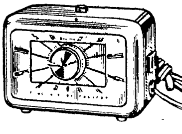
SS-11 SERIES

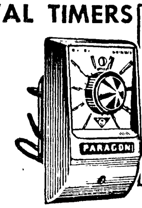
Plug-In Stk. No.	Plug-In Type SS-	Surface Mt. Stk. No.	Surface Mt. Type SS-	Range (Secs.)	Input Volts	EACH 1-5
41 D 7123	11822B	41 D 7140	11822B1	.05-.5	115 AC	37.67
41 D 7124	11823B	41 D 7141	11823B1	.05-.5	24 DC	36.37
41 D 7125	11822C	41 D 7142	11822C1	.5-5	115 AC	37.67
41 D 7126	11823C	41 D 7143	11823C1	.5-5	24 DC	36.37
41 D 7127	11822D	41 D 7144	11822D1	5-50	115 AC	37.67
41 D 7128	11823D	41 D 7145	11823D1	5-50	24 DC	36.37
41 D 7129	11822E	41 D 7146	11822E1	50-500	115 AC	43.52
41 D 7130	11823E	41 D 7147	11823E1	50-500	24 DC	42.22

Paragon and Mark-Time Time Switches and Timers

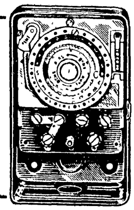
PARAGON® TIME SWITCHES AND TIMERS

INTERVAL TIMERS


Series AT



Series FA and FF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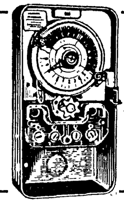
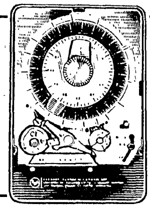
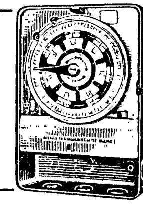

Series 4000


23001-0S


Series 7000

SERIES AT 60-MINUTE INTERVAL TIMERS

Manually preset timer shuts off electrical devices after preset interval lapses. Type AT45-0 is rated 1600 watts; has buzzer that sounds at end of timed period. AT3160-0, 840 watts, and no buzzer. White, silver dial. 3⅜x5⅛x2³⁄₁₆". 4-foot cord. U.L., C.S.A. Listed. 110-120v., 60 cycle AC. 1½ lbs.

58 D 8008. Type AT45-0............9.97
58 D 8009. Type AT3160-0..........7.30

SERIES FA AND FF INTERVAL TIMERS

Manually preset timer shuts off AC devices after interval lapses. Fits flush in std. outlet box. 13.8 amps, 120 v., nonind. Ivory plate, gold-color dial. 4½x2¾x1³⁄₁₆". U.L. and C.S.A. Listed. 110-120 v. 60 cycle AC. Shpg. wt., ¾ lb.

58 D 8010. FF15-0. 0-15 min. 1-min. div.
58 D 8011. FF51-0. 0-60 min. 1-min. div.
58 D 8012. FA51-0. 0-20 hrs. 30-min. div.
Each..............................6.47

ALL-PURPOSE 8035-0 TIME SWITCH

1-12 automatic on-off operations per day (adjustable 30 seconds to 27½ minutes), 2 hours min. between each. Rated 30 amps (1 hp), 120 v. With 4 sets of on-off trippers. U.L., C.S.A. Listed. 7⅜x4¹¹⁄₁₆x4". For 110-120 v., 60 cycle AC. 3½ lbs.

58 D 8036.......................16.87

4000 24-HOUR 40-AMP TIME SWITCHES OPTIONAL SKIP-A-DAY, CARRY-OVER

Up to 7 automatic on-off operations per day, 90 minutes min. between operations. Snap-out movement. T-rated 40 amps, 120 v. DP types switch 9600 watts on 3-wire divided load. *Skip-A-Day omits operation on selected day(s). With set of on-off trippers. 7¹³⁄₁₆x4⅛x2¹⁵⁄₁₆". U.L. and C.S.A. Listed. For 110-120 v. 60 cycle. A.C. Shpg. wt., 2½ lbs.

58 D 8000. 4001-0. SPST.............8.42
58 D 8002. *4003-0S. DPST.........12.97
58 D 8003. *4005-0S. SPDT.........12.97

EXTRA TRIPPERS

Stock No.	Mfr's Type	Set of	For Series
58D8047	X-2772	On-Off Trippers	4000
58D8048	X-3495	6 Cutout (Skip-A-Day) Pins	4000
58D8049	X-4296*	Cutout Index Trip.	4000
58D8050	X-4299	On-Off Trippers	7000
58D8051	X-3596	5 On-Off Dial Pins	8035
58D8052	X-4444	6 Regular Trippers, Skip, or Prewarn	23000
58D8053	X-4445	6 Half Trippers for Main Signal	23000

Per Set....... .50   *Each..........50

23001-0S PROGRAMMER WITH SKIP-A-DAY, PREWARNING/MAIN SIGNALS

Timed automatic prewarning and main signals adjustable 4-60 seconds. Prewarning rings 1-3 minutes before main signal. 24-hour dial in 5-minute increments. Skip-A-Day—signals can be omitted for any 12 or 24-hour period starting at 6:00 AM or PM. Also manual operation. Suitable for low-temperature uses. SPST, 10 amps, 120 v. With 9 regular trippers for Skip-A-Day, 4 regular sets for prewarning, 12 sets half-trippers for main signals. 10⅞x7⅜x3⅝". U.L., C.S.A. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 8½ lbs.

58 D 8017.....................63.96

7000 7-DAY SKIP-A-DAY TIME SWITCHES—OPTIONAL CARRY-OVER

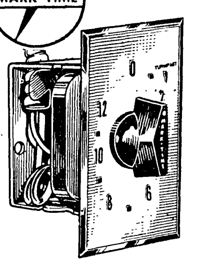
Allows up to 4 automatic on-off operations per day or 28 per week. Any day or days can be omitted. Make settings week in advance. 3 hrs. minimum between operations. 7-day dial. With 7 sets of trippers. U.L., C.S.A. Listed. For 110-120 v., 60 cycle AC.

WITH 7-DAY DIAL. 7007-0, 4PST, n.o., 40-amp, T-rated. 7008-0, 4P, 2 n.o., 2 n.c., 40 amp. 10⅞x7⅜x3⅝". 6½ lbs.

58 D 8013. Type 7007-0............19.47
58 D 8014. Type 7008-0............19.47

MARK-TIME AUTOMATIC TIMER AND TIME SWITCHES

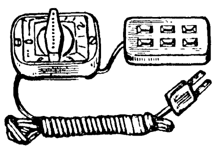
WALL-BOX TIME SWITCHES



Fit std. wallbox. Automatically turn off devices after preset time. 20 amps, 125 v. *"Hold" feature for continuous use. C.S.A. Listed. 110-120 v. 60 cy. AC. 9 oz.

Stock No.	Mfr's Type	Max. Setting	EACH 1-11	EACH 12-99
58 D 8269	90004	5 Minutes	5.63	5.00
58 D 8270	90005	15 Minutes	5.63	5.00
58 D 8274	90006	30 Minutes	5.63	5.00
58 D 8275	90021*	3 Minutes	5.63	5.00
58 D 8276	90024*	60 Minutes	5.63	5.00
58 D 8277	90015*	12 Hours	5.63	5.00

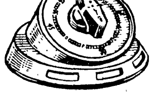
MODEL TEC-4 "ALL IN ONE" TIME SWITCH

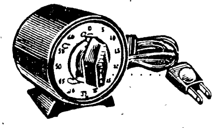


- Combination Time Switch, Extension Cord, 3-Way AC Outlet
- Includes Handy "Hold" Feature
- Automatically Turns Off Devices After Up to 4 Hours
- May Also Be Used as Conventional 3-Way Extension Cord

Excellent for controlling decoration lights, TV sets, lamps, heating pads, radios, etc. Insert plug into any wall outlet, plug 1, 2, or 3 devices into 3-way outlet, and set knob for desired time cycle up to 4 hours. After predetermined time has passed, switch automatically shuts devices off. In "hold" position, devices remain in operation and timing ceases until knob is turned manually to another position. SPST switch, rated 10 amps, 125 v., AC. Cream base; brass-finished dial plate. With 5½-foot cord. For 110-120 v., 60 cycle AC. 1 lb.

58 D 8291. 1-11....Each 5.21   12-99...........Each 4.63


29001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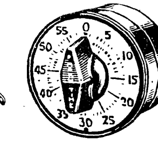

74701

MODEL 29001 "CLOCK WATCHER" BELL TIMER

Reliable spring-driven timer in attractive sculptured styling. Accurately times intervals up to 60 minutes with bell tone. Excellent for out-of-door use or where power is not available. White enamel finish. Size, 2½x4⅜" dia. Wt., ¾ lbs.

58 D 8380. 1-11...Each 2.96   12-99..............Each 2.63

SERIES 78100 PROFESSIONAL TIME SWITCHES

Portable units with AC receptacle turn off devices after preset time. Rated 10 amps, 125 v. AC. *Designed for timing developers, contact printers, enlargers, etc.; adjustable stop for repeat settings; has "hold" feature. Heavy-duty housings. U.L., C.S.A. 3⅜x3¾x3½". For 110-120 v., 60 cycle AC. 1 lb.

Stock No.	Type	Maximum Setting	Ea., 1-11	Ea., 12-99
58 D 8264	78174*	60 Seconds	7.13	6.33
58 D 8265	78104	30 Minutes	6.38	5.67
58 D 8263	78105	60 Minutes	6.38	5.67
58 D 8266	78126	12 Hours	6.71	5.97

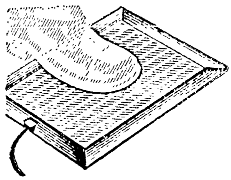
STANDARD BUILT-IN TIME SWITCHES

SPDT switches easily set for "off-type" or "on-type" use. 2⁹⁄₁₆x1¹⁹⁄₃₂". Rated 20 amps at 125-240 v. AC. For panel or 4" octagon switch box. Satin-chrome dial, black knob. U.L. Listed, 1 lb.

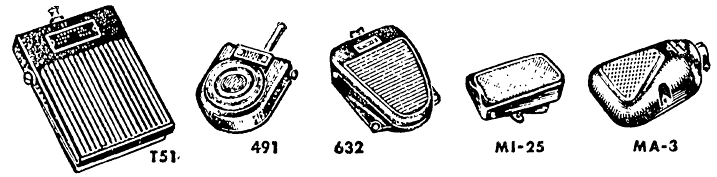
58 D 8259. Type 74701. For up to 15 minute intervals.
58 D 8261. Type 74702. For up to 30-minute intervals.
58 D 8268. Type 74703. For up to 60-minute intervals.
1-11..............Each 5.96   12-99...........Each 5.30

Foot and Road Switches, Mats and Runners

INDUSTRIAL FOOT SWITCHES



Can Be Actuated by Foot or Toe



RECORA STEP SWITCHES

"NEPTUNE" STEP-ON MATS

Model NF-2. For indoor or outdoor use. Turns on lights, alarms, etc. Switch circuit is protected by a heavily-ribbed brown plastic mat. Resistant to cleaning compounds, oil, acids, etc. Lies flat on floor—won't slip or slide, even on polished floors. SPST contacts are rated 10 amperes at 110 volts. Size, $\frac{3}{8}$x6x8". With 6-ft. leads. Shpg. wt., $2\frac{1}{4}$ lbs.
58 D 8292. 1-5..Ea. 8.80 6-Up..Ea. 7.70

MODEL 1423-12H "SWITCHMAT"

Similar to Model NF-2 "Neptune," above, rated 100 watts at 110-120 v. AC. With 10-ft. leads. 14x23". 11 lbs.
58 D 8355 X. 1-5.Ea. 17.25 6-Up Ea. 16.10
58 D 8356 X. Model 1830-12H. 18x30". 17 lbs. 1-5..Ea. 24.00 6-Up........Ea. 22.40

"ANNOUNCEMAT" CHIME ALARM

Model 12E. Alarm system for stores, offices and industry. Signals presence of visitors or intruders. Even the step of a small child sounds alarm. Employs 18x30" "Switchmat," above, transformer and 6-ft. cord, chime, 25-ft. cable. For 110-120 v. AC. Shpg. wt., $17\frac{1}{2}$ lbs.
58 D 8358 X. 1-5 Ea. 29.62 6-Up Ea. 27.65

Make Allied your one-stop, complete supply source for everything in electronics. For fastest service use the Allied facility nearest you—see inside front of catalog.

LINEMASTER FOOT SWITCHES

Model T51-S "Treadlite." Compact, rugged treadle switch for low-current loads. SPDT momentary contacts rated 7 amps, 110-250 v. AC. Rubber treading and skid-proof rubber base pad. $3\frac{1}{2}$x$2\frac{5}{8}$x1". 7 oz.
58 D 8383. 1-9................Each 2.75
10-19......Each 2.47 20-49......Each 2.20
50-99........................Each 2.06

Model T51-SC Wired. Above, with 6-ft. cord and 2-prong series plug. 1 lb.
58 D 8384. 1-9................Each 4.00
10-19......Each 3.60 20-49......Each 3.20
50-99........................Each 3.00

Model 491-S "Compact." Momentary-contact SPDT 10-ampere, 125-volt AC contacts. Steel housing, black crackle finish. Skid-proof base. $1\frac{1}{2}$x$2\frac{1}{2}$x3". 8 oz.
58 D 8367. 1-9................Each 3.25
10-19......Each 2.92 20-49......Each 2.60
50-99........................Each 2.44

Model 491-SC. Same as Model 491S, below left, but wired with 6-ft. cord and 2-prong series plug. Wt., $1\frac{1}{4}$ lbs.
58 D 8368. 1-9................Each 4.75
10-19......Each 4.27 20-49......Each 3.80
50-99........................Each 3.56

Model 632-S. "Clipper." Momentary-contact industrial switch. SPDT contacts rated 20 amps at 125-250 AC. Cast iron housing has rubber anti-skid pad, black-wrinkle finish, $4\frac{1}{2}$x$3\frac{1}{2}$x$1\frac{1}{2}$". Wt., 2 lbs.
58 D 8369. 1-9................Each 8.25
10-19......Each 7.42 20-49..... Each 6.60
50-99........................Each 6.19

Model 632-D. Same as Model 632-S, above, but maintains contact until again actuated. Shpg. wt., $2\frac{1}{2}$ lbs.
58 D 8372. 1-9................Each 11.00
10-19......Each 9.90 20-49......Each 8.80
50-99........................Each 8.25

GENERAL CONTROL "FOOTROL" FOOT SWITCHES

Model MI-25. Heavy-duty SPDT switch —first press transfers contacts, second returns them. Rated 12 amps, 125 v., 6 amps, 250 v. AC, non-inductive. Operating force, 10 lbs. BX connector, mtg. holes. 3x4x$6\frac{3}{4}$". Shpg. wt., $4\frac{3}{4}$ lbs.
58 D 8370. 1-9...............Each 13.31
10-24....Each 12.55 25-49....Each 11.79

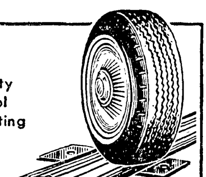
Model MI-23. Above, spring return.
58 D 8371. 1-9...............Each 11.57
10-24....Each 10.91 25-49....Each 10.26

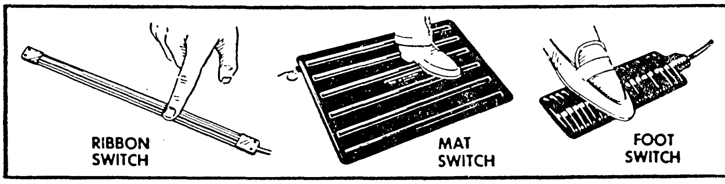
Model MA-3. Small foot switch for use where high speed and minimum operator fatigue are essential. SPDT momentary-contact switch has spring return. Rubber non-skid base has holes for permanent mounting. Preset for $\frac{1}{2}$-lb. operating force. Supplied complete with BX connector. Contacts rated 20 amps at 125 v.; 15 amps at 250 v. AC, non-inductive load. Size, $1\frac{3}{4}$x4x$4\frac{1}{2}$". Shpg. wt., $1\frac{3}{4}$ lbs.
58 D 8374. 1-9...............Each 5.42
10-24......Each 5.11 25-49....Each 4.80

TAPESWITCH CORP. "CONTROFLEX" ROAD AND RIBBON SWITCHES, MATS, RUNNERS

"CONTROFLEX" ROAD SWITCHES

- Road Alarms
- Factory Safety
- Traffic Control
- Vehicle Counting
- Timing Races





Type RB. Extremely rugged switch for roadbed use. Adheres to concrete with adhesive, below. Contacts rated 1 amp @ 117VAC. 24V or less recommended for ground use. Sensitivity 20 lbs. With sealed ends and 4-ft. U.L. lead. $1\frac{3}{4}$" wide, $\frac{3}{8}$" thick.

Stock No.	Lgth. Ft.	Wt., Lbs.	EACH 1-9	10-49	50-Up
58 D 8178	2	1	7.50	6.75	6.40
58 D 8179	3	$1\frac{1}{2}$	9.50	8.60	7.95
58 D 8180	5	$2\frac{1}{2}$	11.90	10.70	10.20
58 D 8181	8	4	16.10	14.50	13.75
58 D 8182	10	5	18.65	16.80	15.95

Type RBM. As above, but for asphalt as well as concrete road beds. 2x$\frac{7}{16}$" thick.

Stock No.	Lgth. Ft.	Wt., Lbs.	EACH 1-9	10-49	50-Up
58 D 8184	2	2	9.50	8.75	8.40
58 D 8185	3	3	12.50	11.60	10.95
58 D 8186	5	5	16.90	15.70	15.20
58 D 8187	8	8	24.10	22.50	21.75
58 D 8188	10	10	28.65	26.80	25.95

Type A-12 Adhesive. Pint can. Affixes 10-ft. road switch to concrete. 1 lb.
58 D 8183....................Each 2.95

Type 131 Controflex Wired Ribbon Switches. 40 oz. sensitivity. Normally open, momentary contact. 1 amp at 117 v. AC/28 v. DC. Ready to use. Sleeve terminals, 18" lead. $\frac{3}{4}$" wide, $\frac{3}{16}$" thick. Gray.

Stock No.	Lgth. Ft.	Wt., Oz.	EACH 1-9	10-49	50-Up
58 D 8189	1	3	1.97	1.85	1.70
58 D 8190	2	4	2.95	2.70	2.50
58 D 8191	5	7	4.75	4.25	3.80

Type BP Sensitive Ribbon Switch. As above, but 8-oz. pressure closes circuit. 1 amp at 117 v. AC/24 v. DC. Sealed units have 18-inch leads. $\frac{9}{16}$" wide, $\frac{5}{32}$" thick.

58 D 8192	1	3	1.97	1.85	1.70
58 D 8193	2	4	2.95	2.70	2.50
58 D 8194	5	7	4.75	4.25	3.80
58 D 8195	8	12	7.50	6.75	6.40
58 D 8196	10	16	9.50	8.60	7.95

Type PE-30 Under-Rug Switching Runner. For concealed indoor alarms, control circuits. Polyethylene. Can be cut to any length. $\frac{1}{16}$" thick by 30" wide. * $1\frac{3}{4}$ lbs.; † 10 lbs.

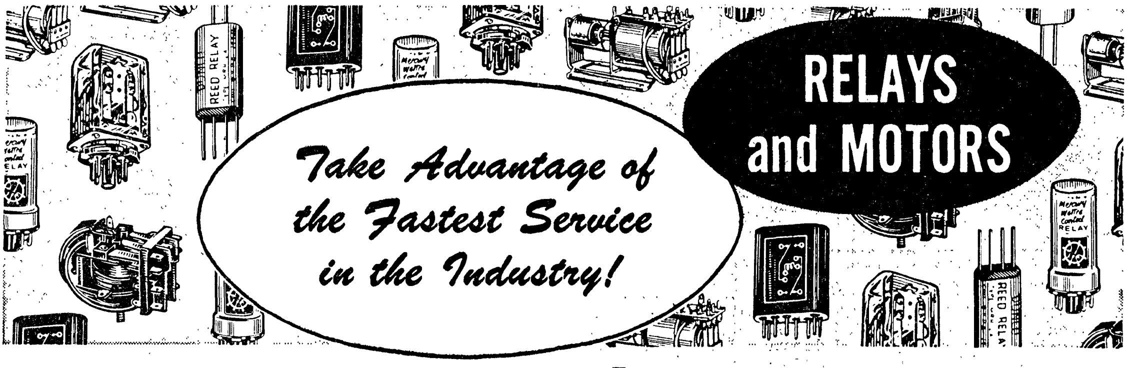
58 D 8163 X	5	*	12.95	11.60	10.20
58 D 8174 X	25	†	57.95	52.95	46.25

Type CVP 1723 Flexible Area Switching Mat. For burglar/intrusion alarms, light switching, door and display control. Controflex elements spaced on $2\frac{3}{4}$" centers. Water-resistant vinyl. "Mylar" insulation. Can be overlaid with masonite, carpeting or used exposed. Actuated by 5 lbs. pressure. 18x24x$\frac{3}{32}$" thick. For 24 volt control circuits. Shpg. wt., $1\frac{3}{4}$ lbs.
58 D 8175 X. 1-9.............Each 9.50
10-49......Each 8.50 50-Up.....Each 7.50

Type CVP Flexible Area Switching Mat. As above, but measures 6x24". $\frac{1}{2}$ lb.
58 D 8176 X. 1-9.............Each 3.95
10-49......Each 3.50 50-Up.....Each 3.30

Type 111 100-Watt Footswitch. Uses Controflex ribbon switches (momentary, normally open) sealed in weatherproof molded flat pad. 2x5x$\frac{1}{4}$" thick; can be taped or cemented to floor. With 6-ft. U.L. lead. 8 oz.
58 D 8165. 1-19..Ea. 2.45 20-99..Ea. 2.15
100-Up.......................Each 1.80

Type TS-1 Chime-Mat Annunciator Kit. (Not illus.) Entrance signal system for stores, offices, plants, shops. Includes mat, dual-note chime, transformer, wire and instructions. Mat is 18x24"; $\frac{3}{32}$" thick. $4\frac{1}{2}$ lbs.
58 D 8177 X. 1-4............Each 19.95
5-9......Each 17.95 10-Up....Each 14.95

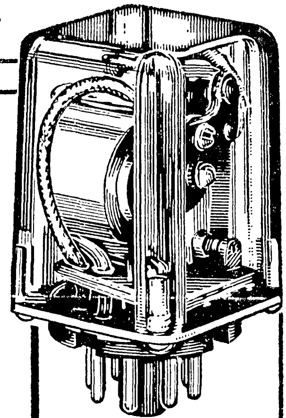


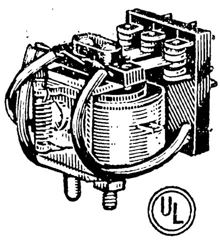
AVAILABLE IN QUANTITY FROM ALLIED AT FACTORY OEM PRICES . . . WORLD'S LARGEST INVENTORY FOR SAME-DAY SHIPMENT

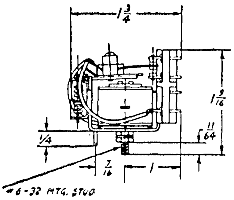
QUICK INDEX TO MANUFACTURERS

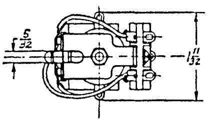
For the Allied Facility Nearest You, See Page Opposite Inside Front Cover

knight Relays for Industry









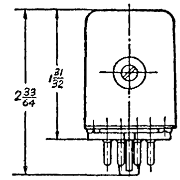
ALLIED'S OWN RELAYS AT LOW COST

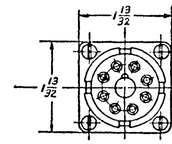
- Color-Coding for Voltage and AC, DC, or Plate Circuit Aids on Production Line and Shows Inventory at a Glance
- Available in Both Open and Enclosed Plug-In Types
- Open Types Are Underwriter's Laboratories Listed
- Special Price Quotations on Larger-Quantity Requirements

Volume purchasing permits Allied to offer these dependable, long-life relays at low cost. Compare specifications and prices. These relays provide highest performance in light-duty power control circuits. They are equally at home in the control box of an elevator or in the heart of a modern computer. All have nylon bobbins, shock-resistant armature mounting and corrosion-resistant coil. Open types are U.L. Listed. The stationary and movable terminal blocks are molded phenolic with ample separation between opposite potentials. Plug-in types are for applications where an enclosed unit is needed to protect the relay from dust, oil and other foreign substances or where speedy connection and fool-proof replacement are desirable. *All units are color-coded for voltage and AC, DC or plate circuit by means of colored coil tape. Shpg. wt., open types, 2 oz.; enclosed types, 3 oz. NOTE: All relays ordered in multiples of 50 will generally be shipped bulk in handy production-line packaging.

SPECIFICATIONS

CONTACT RATINGS: 10 amps at 115 VAC or 32 VDC, noninductive.
CONTACT MATERIAL: Silver alloy, gold-flashed.
COILS: AC or DC. Nylon bobbins, sealed with a fused wrap.
INSULATION: 1500 v. RMS between circuits and frame.
LIFE EXPECTANCY: Exceeds 5,000,000 operations.
MOUNTING: Open types—Single hole, tapped 6-32.
Enclosed types—SPDT and DPDT, st'd. octal; 3PDT, 11-pin plug.
COLOR CODING: AC—12 v., red; 24 v., green; 115 v., white. DC—12 v., blue; 24 v., yellow; 110 v., black. PLATE CIRCUIT—Brown.





GENERAL-PURPOSE OPEN TYPE RELAYS

Stock No.	Knight Type No.	Coil Voltage /Imp.	Contact Action	Coil		Color Code*	EACH								
				Ma	Ohms		1-24	25-49	50-99	100-249	250-499	500-999	1000-1499	1500-2499	2500-4999
41 D 4650	KN100-1C- 12A	12 AC	SPDT	170	20	Red	2.95	2.65	2.36	2.06	1.91	1.77	1.69	1.62	1.54
41 D 4651	KN100-1C- 24A	24 AC	SPDT	85	75	Green	2.95	2.65	2.36	2.06	1.91	1.77	1.69	1.62	1.54
41 D 4652	KN100-1C-115A	115 AC	SPDT	35	1500	White	2.95	2.65	2.36	2.06	1.91	1.77	1.69	1.62	1.54
41 D 4653	KN105-1C- 12D	12 DC	SPDT	80	150	Blue	2.85	2.56	2.28	1.99	1.85	1.70	1.63	1.56	1.49
41 D 4654	KN105-1C- 24D	24 DC	SPDT	40	600	Yellow	2.85	2.56	2.28	1.99	1.85	1.70	1.63	1.56	1.49
41 D 4655	KN100-2C- 12A	12 AC	DPDT	170	20	Red	3.60	3.24	2.88	2.52	2.34	2.16	2.07	1.98	1.89
41 D 4656	KN100-2C- 24A	24 AC	DPDT	85	75	Green	3.60	3.24	2.88	2.52	2.34	2.16	2.07	1.98	1.89
41 D 4657	KN100-2C-115A	115 AC	DPDT	35	1500	White	3.60	3.24	2.88	2.52	2.34	2.16	2.07	1.98	1.89
41 D 4658	KN105-2C- 12D	12 DC	DPDT	80	150	Blue	3.25	2.92	2.60	2.27	2.11	1.95	1.87	1.79	1.71
41 D 4659	KN105-2C- 24D	24 DC	DPDT	40	600	Yellow	3.25	2.92	2.60	2.27	2.11	1.95	1.87	1.79	1.71
41 D 4660	KN105-2C-110D	110 DC	DPDT	11	10000	Black	3.80	3.42	3.04	2.66	2.47	2.28	2.18	2.09	2.00
41 D 4661	KN100-3C-115A	115 AC	3PDT	35	1500	White	4.05	3.64	3.24	2.83	2.63	2.43	2.33	2.23	2.12
41 D 4662	KN105-3C- 24D	24 DC	3PDT	40	600	Yellow	3.70	3.33	2.96	2.59	2.40	2.22	2.13	2.04	1.95

GENERAL-PURPOSE ENCLOSED TYPE RELAYS

Stock No.	Knight Type No.	Coil Voltage /Imp.	Contact Action	Coil Ma	Coil Ohms	Color Code*	1-24	25-49	50-99	100-249	250-499	500-999	1000-1499	1500-2499	2500-4999
41 D 4663	KN110-1C- 12A	12 AC	SPDT	170	20	Red	5.20	4.68	4.16	3.64	3.38	3.12	2.99	2.86	2.73
41 D 4664	KN110-1C- 24A	24 AC	SPDT	85	75	Green	5.20	4.68	4.16	3.64	3.38	3.12	2.99	2.86	2.73
41 D 4665	KN110-1C-115A	115 AC	SPDT	35	1500	White	5.20	4.68	4.16	3.64	3.38	3.12	2.99	2.86	2.73
41 D 4666	KN115-1C- 12D	12 DC	SPDT	80	150	Blue	5.10	4.59	4.08	3.57	3.31	3.06	2.93	2.80	2.68
41 D 4667	KN115-1C- 24D	24 DC	SPDT	40	600	Yellow	5.10	4.59	4.08	3.57	3.31	3.06	2.93	2.80	2.68
41 D 4668	KN110-2C- 12A	12 AC	DPDT	170	20	Red	6.00	5.40	4.80	4.20	3.90	3.60	3.45	3.30	3.15
41 D 4669	KN110-2C- 24A	24 AC	DPDT	85	75	Green	6.00	5.40	4.80	4.20	3.90	3.60	3.45	3.30	3.15
41 D 4670	KN110-2C-115A	115 AC	DPDT	35	1500	White	6.00	5.40	4.80	4.20	3.90	3.60	3.45	3.30	3.15
41 D 4671	KN115-2C- 12D	12 DC	DPDT	80	150	Blue	5.90	5.31	4.72	4.13	3.83	3.58	3.39	3.24	3.10
41 D 4672	KN115-2C- 24D	24 DC	DPDT	40	600	Yellow	5.90	5.31	4.72	4.13	3.83	3.58	3.39	3.24	3.10
41 D 4673	KN115-2C-110D	110 DC	DPDT	11	10000	Black	6.40	5.76	5.12	4.48	4.16	3.84	3.68	3.52	3.36
41 D 4674	KN115-2C-2.5K	2500 ohms	DPDT	10	2500	Brown	6.00	5.40	4.80	4.20	3.90	3.60	3.45	3.30	3.15
41 D 4675	KN115-2C- 5K	5000 ohms	DPDT	7	5000	Brown	6.10	5.49	4.88	4.27	3.96	3.66	3.51	3.36	3.21
41 D 4676	KN115-2C- 10K	10000 ohms	DPDT	5	10000	Brown	6.50	5.85	5.20	4.55	4.22	3.90	3.74	3.58	3.42
41 D 4677	KN110-3C-115A	115 AC	3PDT	35	1500	White	7.50	6.75	6.00	5.25	4.87	4.50	4.31	4.12	3.94
41 D 4678	KN115-3C- 24D	24 DC	3PDT	40	600	Yellow	7.40	6.66	5.92	5.18	4.81	4.44	4.25	4.07	3.89

CROSS REFERENCE AND INTERCHANGEABILITY GUIDE

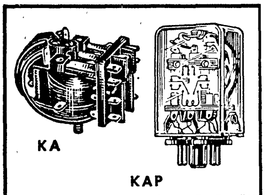
GENERAL-PURPOSE OPEN TYPE RELAYS

Knight	Comar	Guardian	Line	Magnecraft	Milwaukee	Omega	Ohmite	Phillips Advance	P & B
KN100	M	IR-1200	MK/MKO	W88AX	100	200/250	GR	GHA, GHB	KA/KAG
KN105	M	IR-1205	MK/MKO	W88X	100	200/250	GR	GHA, GHB	KA/KAG

GENERAL-PURPOSE ENCLOSED TYPE RELAYS

Knight	Comar	Guardian	Line	Magnecraft	Milwaukee	Omega	Ohmite	Phillips Advance	P & B
KN110	M	IR-1210	MKH, MKP	W88ACPX	105	200-PC	GRTP	GHP, GHH	KRP/KRP-G
KN115	M	IR-1215	MKH, MKP	W88CPX	105	200-PC	GRTP	GHP, GHH	KRP/KRP-G/KCP

Potter & Brumfield General-Purpose Relays



SERIES KA AND KAP

KA (open) and KAP (with plastic dust cover) relays for small motors, solenoids, other relays and automation. Contacts: Movable, gold-flashed silver; stationary, silver overlay. 10-amp relays have silver-cadmium-oxide movables. Type KA are U.L. Listed, AC models also C.S.A. Listed; KAP models with "Y" suffix are U.L. and C.S.A. Listed. KA mtg., 6-32 threaded stud and locating tab. Sockets listed on page 217. KAP, SPDT and DPDT types have 8-pin plugs; 3PDT, 11-pin.

COIL DATA FOR KA, KAP AND KRP

DC COILS			AC COILS		
Volts	Res., Ohms	Ma	Volts	Res., Ohms	Ma
6	32	188	6	6	335
12	120	100	12	21	168
24	472	51	24	75	84
110	10,000	11.5	115	2250	17.5
.....	....	......	230	9110	8.75

TYPE KA OPEN RELAYS (Av. shpg. wt., 4 oz.)

5 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5158	KA5AY	6 AC	SPDT	3.35	3.18	3.02	2.35	2.18
41 D 6780	KA5AY	12 AC	SPDT	3.35	3.18	2.03	2.35	2.18
41 D 5161	KA5AY	24 AC	SPDT	3.35	3.18	3.02	2.35	2.18
41 D 5164	KA5AY	115 AC	SPDT	3.35	3.18	3.02	2.35	2.18
41 D 5153	KA5AY	230 AC	SPDT	3.80	3.61	3.42	2.66	2.47
41 D 5167	KA5DY	6 DC	SPDT	3.20	3.04	2.88	2.24	2.08
41 D 5170	KA5DY	12 DC	SPDT	3.20	3.04	2.88	2.24	2.08
41 D 5173	KA5DY	24 DC	SPDT	3.20	3.04	2.88	2.24	2.08
41 D 6182	KA5DY	110 DC	SPDT	3.85	3.66	3.47	2.70	2.50
41 D 5159	KA11AY	6 AC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 6781	KA11AY	12 AC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 5162	KA11AY	24 AC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 5165	KA11AY	115 AC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 6783	KA11AY	230 AC	DPDT	4.45	4.23	4.01	3.12	2.89
41 D 5168	KA11DY	6 DC	DPDT	3.55	3.37	3.20	2.49	2.31
41 D 5171	KA11DY	12 DC	DPDT	3.55	3.37	3.20	2.49	2.31
41 D 5174	KA11DY	24 DC	DPDT	3.55	3.37	3.20	2.49	2.31
41 D 6522	KA11DY	110 DC	DPDT	4.20	3.99	3.78	2.94	2.73
41 D 5160	KA14AY	6 AC	3PDT	4.45	4.23	4.01	3.12	2.89
41 D 6779	KA14AY	12 AC	3PDT	4.45	4.23	4.01	3.12	2.89
41 D 5163	KA14AY	24 AC	3PDT	4.45	4.23	4.01	3.12	2.89
41 D 5166	KA14AY	115 AC	3PDT	4.45	4.23	4.01	3.12	2.89
41 D 5152	KA14AY	230 AC	3PDT	4.90	4.66	4.41	3.43	3.19
41 D 5169	KA14DY	6 DC	3PDT	4.05	3.85	3.65	2.84	2.63
41 D 5172	KA14DY	12 DC	3PDT	4.05	3.85	3.65	2.84	2.63
41 D 5185	KA14DY	24 DC	3PDT	4.05	3.85	3.65	2.84	2.63
41 D 6523	KA14DY	110 DC	3PDT	4.65	4.42	4.19	3.26	3.02

10 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7643	KA5AG	6 AC	SPDT	3.40	3.23	3.06	2.38	2.21
41 D 7644	KA5AG	12 AC	SPDT	3.40	3.23	3.06	2.38	2.21
41 D 7645	KA5AG	24 AC	SPDT	3.40	3.23	3.06	2.38	2.21
41 D 7646	KA5AG	115 AC	SPDT	3.40	3.23	3.06	2.38	2.21
41 D 7647	KA5AG	230 AC	SPDT	3.85	3.00	3.47	2.70	2.50
41 D 6029	KA5DG	6 DC	SPDT	3.25	3.09	2.93	2.28	2.11
41 D 6030	KA5DG	12 DC	SPDT	3.25	3.09	2.93	2.28	2.11
41 D 6031	KA5DG	24 DC	SPDT	3.25	3.09	2.93	2.28	2.11
41 D 6032	KA5DG	110 DC	SPDT	3.90	3.71	3.51	2.73	2.54
41 D 7648	KA11AG	6 AC	DPDT	4.15	3.94	3.74	2.91	2.70
41 D 7649	KA11AG	12 AC	DPDT	4.15	3.94	3.74	2.91	2.70
41 D 7650	KA11AG	24 AC	DPDT	4.15	3.94	3.74	2.91	2.70
41 D 7651	KA11AG	115 AC	DPDT	4.15	3.94	3.74	2.91	2.70
41 D 7654	KA11AG	230 AC	DPDT	4.55	4.32	4.10	3.19	2.96
41 D 6020	KA11DG	6 DC	DPDT	3.70	3.52	3.33	2.59	2.41
41 D 6021	KA11DG	12 DC	DPDT	3.70	3.52	3.33	2.59	2.41
41 D 6022	KA11DG	24 DC	DPDT	3.80	3.52	3.33	2.59	2.41
41 D 6023	KA11DG	110 DC	DPDT	4.30	4.09	3.87	3.01	2.80
41 D 7655	KA14AG	6 AC	3PDT	4.60	4.37	4.14	3.22	2.99
41 D 7656	KA14AG	12 AC	3PDT	4.60	4.37	4.14	3.22	2.99
41 D 7657	KA14AG	24 AC	3PDT	4.60	4.37	4.14	3.22	2.99
41 D 7658	KA14AG	115 AC	3PDT	4.60	4.37	4.14	3.22	2.99
41 D 7659	KA14AG	230 AC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 6024	KA14DG	6 DC	3PDT	4.20	3.99	3.78	2.94	2.73
41 D 6025	KA14DG	12 DC	3PDT	4.20	3.99	3.78	2.94	2.73
41 D 6026	KA14DG	24 DC	3PDT	4.20	3.99	3.78	2.94	2.73
41 D 6027	KA14DG	110 DC	3PDT	4.85	4.61	4.37	3.40	3.15

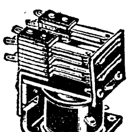
TYPE KAP ENCLOSED RELAYS (Av. shpg. wt., 5 oz.)

5 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7869	KAP11AY	24 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 7870	KAP11AY	115 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 7867	KAP11AY	230 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 7871	KAP11DY	12 DC	DPDT	6.30	5.99	5.67	4.41	4.10
41 D 7872	KAP11DY	24 DC	DPDT	6.30	5.99	5.67	4.41	4.10
41 D 7873	KAP11DY	110 DC	DPDT	6.95	6.60	6.26	4.87	4.52
41 D 7874	KAP14AY	24 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 7876	KAP14AY	115 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 7868	KAP14AY	230 AC	3PDT	8.20	7.89	7.47	5.81	5.40
41 D 7877	KAP14DY	12 DC	3PDT	7.80	7.41	7.02	5.46	5.07
41 D 7878	KAP14DY	24 DC	3PDT	7.90	7.41	7.02	5.46	5.07
41 D 7879	KAP14DY	110 DC	3PDT	8.45	8.03	7.61	5.92	5.49
....	....	......	......	.....	.....	.....	.....	.....

10 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7880	KAP5AG	24 AC	SPDT	5.80	5.51	5.22	4.06	3.77
41 D 7881	KAP5AG	115 AC	SPDT	5.80	5.51	5.22	4.06	3.77
41 D 7882	KAP5DG	24 DC	SPDT	5.70	5.42	5.13	3.99	3.71
41 D 7888	KAP5DG	110 DC	SPDT	6.35	6.03	5.72	4.45	4.13
41 D 7884	KAP11AG	6 AC	DPDT	6.45	6.13	5.81	4.52	4.19
41 D 7885	KAP11AG	24 AC	DPDT	6.45	6.13	5.81	4.52	4.19
41 D 7886	KAP11AG	115 AC	DPDT	6.45	6.13	5.81	4.52	4.19
41 D 7887	KAP11DG	24 DC	DPDT	6.40	6.08	5.76	4.48	4.16
41 D 7883	KAP11DG	110 DC	DPDT	7.05	6.70	6.35	4.94	4.58
41 D 7889	KAP14AG	24 AC	3PDT	8.05	7.65	7.25	5.64	5.23
41 D 7891	KAP14AG	115 AC	3PDT	8.05	7.65	7.25	5.64	5.23
41 D 7892	KAP14DG	24 DC	3PDT	8.00	7.60	7.20	5.60	5.20
41 D 7893	KAP14DG	110 DC	3PDT	8.60	8.17	7.74	6.02	5.59



SERIES GA MULTIPLE-CONTACT RELAYS

For remote power switching, general circuit and power control uses. Withstand mobile shock and vibration. Moisture resistant coil prevents damage from high humidity. 5-amp contacts. AC coils for 50/60 cycles. Power at 25°C: DC—2 w. nominal, 6 w. max.; AC—6 VA. Temp. range: —45°C; AC to ±45°C; DC to ±75°C. Pull-in: AC—78% or less of nominal voltage; DC—75% or less. Solder terminals. Mounts with 8-32 screw. 1 1/16x1 23/32x1 25/32". 4 oz.

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5194	GA11A	24 AC	DPDT	3.50	3.33	3.15	2.45	2.28
41 D 5196	GA11A	115 AC	DPDT	3.50	3.33	3.15	2.45	2.28
41 D 5198	GA11D	6 DC	DPDT	3.50	3.33	3.15	2.45	2.28
41 D 5105	GA11D	12 DC	DPDT	3.60	3.33	3.15	2.45	2.28
41 D 5107	GA11D	24 DC	DPDT	3.50	3.33	3.15	2.45	2.28
41 D 6527	GA11D	110 DC	DPDT	4.00	3.80	3.60	2.80	2.60
41 D 6013	GA14A	24 AC	3PDT	4.25	4.04	3.83	2.98	2.76
41 D 6014	GA14A	115 AC	3PDT	4.25	4.04	3.83	2.98	2.76
41 D 5193	GA17A	6 AC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 6526	GA17A	12 AC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 5195	GA17A	24 AC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 5197	GA17A	115 AC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 6786	GA17A	230 AC	4PDT	5.50	5.23	4.95	3.85	3.58
41 D 5199	GA17D	6 DC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 5106	GA17D	12 DC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 5108	GA17D	24 DC	4PDT	5.10	4.85	4.59	3.57	3.32
41 D 6785	GA17D	110 DC	4PDT	5.60	5.32	5.04	3.92	3.64

COIL DATA FOR SERIES GA AND GP RELAYS

DC COILS			AC COILS		
Volts	Resistance In Ohms	Av. Current Milliamps	Volts	Resistance In Ohms	Av. Current Milliamps
6	18	333	6	1.7	1000
12	72	167	12	6.8	500
24	288	83	24	24.0	260
110	6050	18	115	690	50
.....	....	....	230	2950	25

SERIES GP "PIC & BUILD" RELAYS

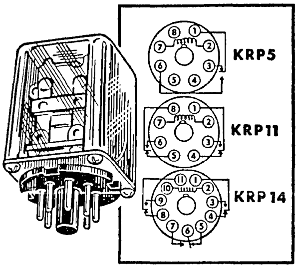
Order GPA or GPD coils and a switch, either GP11 or GP17. Combine to produce over 20 different relays that convert to alternative sensitivities or switching. Same size, specs as GA at left. 2 oz.

Stock No.	Mfr's Type	Description	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6333	GPA	6 AC	1.75	1.66	1.58	1.23	1.14
41 D 6539	GPA	12 AC	1.75	1.66	1.58	1.23	1.14
41 D 6334	GPA	24 AC	1.75	1.66	1.58	1.23	1.14
41 D 6335	GPA	115 AC	1.75	1.66	1.58	1.23	1.14
41 D 6341	GPD	2500 Ohms	1.60	1.52	1.44	1.12	1.04
41 D 6017	GPD	5000 Ohms	1.85	1.76	1.67	1.30	1.20
41 D 6342	GPD	10,000 Ohms	2.20	2.09	1.98	1.54	1.43
41 D 6337	GPD	6 DC	2.20	2.09	1.98	1.54	1.43
41 D 6338	GPD	12 DC	2.20	2.09	1.98	1.54	1.43
41 D 6339	GPD	24 DC	2.20	2.09	1.98	1.54	1.43
41 D 6343	GP11	DPDT Switch	1.80	1.71	1.62	1.26	1.17
41 D 6344	GP17	4PDT Switch	3.10	2.95	2.79	2.17	2.02

Specify Mfr's Type and Coil Volts When Ordering Relays

Potter & Brumfield General-Purpose Relays

SERIES KRP AND KRP-N ENCLOSED RELAYS



Enclosed in high-impact, transparent, cellulose acetate case. Dust and weather proofed. Coil power at 25°C: DC—100 mw minimum, 4 watts maximum; AC—2 volt-amps. Temperature range: −45°C minimum; AC to +70°C maximum; DC to +85°C maximum. Operate (approx.) 15 msec., release 10 msec. 10 million cycle life. 1000 megohm minimum insulation resistance. Breakdown, 500 v. rms, 60 cycles. Shock, 30gs. *KRP-N Series includes lamp to indicate current or voltage availability in power circuits. Lamp lights when coil is energized. KRP5 and KRP11 plug into standard octal socket. KRP14 plugs into 11-pin socket. Sockets and hold-down springs listed in next column. See Coil Data Chart on preceding page. Both series, 1¹³⁄₃₂x1¹³⁄₃₂x2″. Av. shpg. wt., 5 oz.

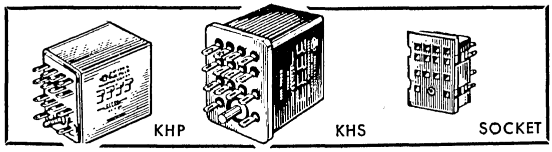
5 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5214	KRP5A	6 AC	SPDT	5.70	5.42	5.13	3.99	3.71
41 D 5215	KRP5A	24 AC	SPDT	5.70	5.42	5.13	3.99	3.71
41 D 5213	KRP5A	115 AC	SPDT	5.70	5.42	5.13	3.99	3.71
41 D 5217	KRP5D	6 DC	SPDT	5.65	5.37	5.09	3.96	3.67
41 D 5244	KRP5D	12 DC	SPDT	5.65	5.37	5.09	3.96	3.67
41 D 5245	KRP5D	24 DC	SPDT	5.65	5.37	5.09	3.96	3.67
41 D 5240	KRP5D	110 DC	SPDT	6.30	5.99	5.67	4.41	4.10
41 D 5920	KRP11A	6 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 6524	KRP11A	12 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 5216	KRP11A	24 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 5921	KRP11A	115 AC	DPDT	6.35	6.03	5.72	4.45	4.13
41 D 6597	KRP11A	230 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 5922	KRP11D	6 DC	DPDT	6.30	5.99	5.67	4.41	4.10
41 D 5246	KRP11D	12 DC	DPDT	6.30	5.99	5.67	4.41	4.10
41 D 5247	KRP11D	24 DC	DPDT	6.30	5.99	5.67	4.41	4.10
41 D 6352	KRP11D	110 DC	DPDT	6.95	6.60	6.26	4.87	4.52
41 D 5091	KRP14A	6 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 6525	KRP14A	12 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 5092	KRP14A	24 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 5093	KRP14A	115 AC	3PDT	7.90	7.51	7.11	5.53	5.14
41 D 5557	KRP14A	230 AC	3PDT	8.30	7.89	7.47	5.81	2.91
41 D 5094	KRP14D	6 DC	3PDT	7.80	7.41	7.02	5.46	5.07
41 D 5095	KRP14D	12 DC	3PDT	7.80	7.41	7.02	5.46	5.07
41 D 5096	KRP14D	24 DC	3PDT	7.80	7.41	7.02	5.46	5.07
41 D 6998	KRP14D	110 DC	3PDT	8.45	8.03	7.61	5.92	5.49

10 AMP

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6746	KRP5AG	6 AC	SPDT	5.85	5.56	5.27	4.10	3.80
41 D 6987	KRP5AG	24 AC	SPDT	5.85	5.56	5.27	4.10	3.80
41 D 6993	KRP5AG	115 AC	SPDT	5.85	5.56	5.27	4.10	3.80
41 D 6749	KRP5DG	6 DC	SPDT	5.80	5.51	5.22	4.06	3.77
41 D 6984	KRP5DG	12 DC	SPDT	5.80	5.51	5.22	4.06	3.77
41 D 6990	KRP5DG	24 DC	SPDT	5.80	5.51	5.22	4.06	3.77
41 D 6996	KRP5DG	110 DC	SPDT	6.40	6.08	5.76	4.48	4.16
41 D 6747	KRP11AG	6 AC	DPDT	6.55	6.22	5.90	4.59	4.26
41 D 7666	*KRP11AN	6 AC	DPDT	7.50	7.13	6.75	5.25	4.88
41 D 6982	KRP11AG	12 AC	DPDT	6.55	6.22	5.90	4.59	4.26
41 D 7667	*KRP11AN	12 AC	DPDT	7.50	7.13	6.75	5.25	4.88
41 D 6988	KRP11AG	24 AC	DPDT	6.55	6.22	5.90	4.59	4.26
41 D 7668	*KRP11AN	24 AC	DPDT	7.50	7.13	6.75	5.25	4.88
41 D 6994	KRP11AG	115 AC	DPDT	6.55	6.22	5.90	4.59	4.26
41 D 7669	*KRP11AN	115 AC	DPDT	7.50	7.13	6.75	5.25	4.88
41 D 6153	KRP11AG	230 AC	DPDT	7.00	6.65	6.30	4.90	4.55
41 D 7670	*KRP11AN	230 AC	DPDT	7.90	7.51	7.11	5.53	5.14
41 D 6819	KRP11DG	6 DC	DPDT	6.50	6.18	5.85	4.55	4.23
41 D 6985	KRP11DG	12 DC	DPDT	6.50	6.18	5.85	4.55	4.23
41 D 7672	*KRP11DN	12 DC	DPDT	7.45	7.08	6.71	5.22	4.84
41 D 6991	KRP11DG	24 DC	DPDT	6.50	6.18	5.85	4.55	4.23
41 D 7673	*KRP11DN	24 DC	DPDT	7.45	7.08	6.71	5.22	4.84
41 D 6997	KRP11DG	110 DC	DPDT	7.15	6.79	6.44	5.01	4.65
41 D 7674	*KRP11DN	110 DC	DPDT	8.10	7.70	7.29	5.67	5.27
41 D 6748	KRP14AG	6 AC	3PDT	8.20	7.79	7.38	5.74	5.33
41 D 6983	KRP14AG	12 AC	3PDT	8.20	7.79	7.38	5.74	5.33
41 D 6989	KRP14AG	24 AC	3PDT	8.20	7.79	7.38	5.74	5.33
41 D 7052	*KRP14AN	24 AC	3PDT	9.15	8.69	8.24	6.41	5.95
41 D 6995	KRP14AG	115 AC	3PDT	8.20	7.79	7.38	5.74	5.33
41 D 7053	*KRP14AN	115 AC	3PDT	9.15	8.69	8.24	6.41	5.95
41 D 6152	KRP14AG	230 AC	3PDT	8.60	8.17	7.74	6.02	5.59
41 D 7055	*KRP14AN	230 AC	3PDT	9.55	9.07	8.60	6.69	6.21
41 D 6981	KRP14DG	6 DC	3PDT	8.15	7.74	7.34	5.71	5.30
41 D 6986	KRP14DG	12 DC	3PDT	8.15	7.74	7.34	5.71	5.30
41 D 6992	KRP14DG	24 DC	3PDT	8.15	7.74	7.34	5.71	5.30
41 D 6999	KRP14DG	110 DC	3PDT	8.75	8.31	7.88	6.13	5.69

SERIES KH MINIATURE 4PDT RELAYS



KHP (with nylon dust cover) and KHS (hermetically sealed with metal cover) relays for data processing, computer control, etc. Gold-flashed silver contacts, rated 3 amps at 30 v. DC or 115 v. AC resistive, except KHP types with suffix "12", silver-cadmium-oxide contacts. Coil power: DC, 0.5-2 watts; AC, 1.20 VA. Solder terminals. KHP has 3-48 mtg. stud. Both types fit sockets (below) Sizes: KHP, 1¹⁷⁄₆₄x1⁷⁄₆₄x⁵⁄₆₄″; KHS, ²⁹⁄₃₂x1⁵⁄₃₂x1²⁹⁄₃₂″. 2 oz.

COIL DATA FOR SERIES KH RELAYS

DC COILS Volts	Resistance In Ohms ±10% @25°C	Inductance In Hys (approx.)	AC COILS Volts	Resistance In Ohms ±10% @25°C	Average Current Milliamps
6	40	.08	6	10.5	200
12	160	.28	12	43	100
24	650	1.0	24	160	52
48	2600	4.5	115	3900	10.5
90	9000	13.5	...	....	.....
110	11,000	17.0	...	....	.....

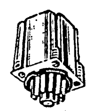
Stock No.	Mfr's Type	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 4252	KHP17A11	6 AC	5.55	5.27	5.00	3.89	3.61
41 D 4253	KHP17A11	12 AC	5.55	5.27	5.00	3.89	3.61
41 D 4254	KHP17A11	24 AC	5.55	5.27	5.00	3.89	3.61
41 D 4255	KHP17A11	115 AC	6.05	5.75	5.45	4.24	3.93
41 D 7675	KHP17D11	6 DC	5.05	4.80	4.55	3.54	3.28
41 D 7676	KHP17D11	12 DC	5.05	4.80	4.55	3.54	3.28
41 D 7677	KHP17D11	24 DC	5.05	4.80	4.55	3.54	3.28
41 D 7678	KHP17D11	48 DC	5.25	4.99	4.73	3.68	3.41
41 D 7680	KHP17D11	90 DC	5.90	5.61	5.31	4.13	3.84
41 D 7679	KHP17D11	110 DC	5.90	5.61	5.31	4.13	3.84
41 D 6045	KHP17D12	24 DC	5.20	4.94	4.68	3.64	3.38
41 D 6046	KHP17D12	110 DC	6.05	5.75	5.45	4.24	3.93
41 D 4256	KHS17A11	6 AC	9.55	9.07	8.60	6.69	6.21
41 D 4257	KHS17A11	12 AC	9.55	9.07	8.60	6.69	6.21
41 D 4258	KHS17A11	24 AC	9.55	9.07	8.60	6.69	6.21
41 D 4259	KHS17A11	115 AC	9.90	9.41	8.91	6.93	6.44
41 D 6047	KHS17D11	6 DC	8.55	8.12	7.70	5.99	5.56
41 D 6048	KHS17D11	12 DC	8.55	8.12	7.70	5.99	5.56
41 D 6049	KHS17D11	24 DC	8.55	8.12	7.70	5.99	5.56
41 D 6050	KHS17D11	110 DC	9.40	8.93	8.46	6.58	6.11

SOCKETS

41 D 5940	9KH1	Solder term.	.66	.63	.59	.46	.42
41 D 5990	9KH2	PC terminal	.66	.63	.59	.46	.42

41 D 6028. KHP Hold-Down Spring. 3 oz. Box of 50 .... 5.50

RELAY ACCESSORIES



8-Pin "P" Case. Type 35D070. Clear plastic case for mounting rectifiers, capacitors, resistors. Octal base. With four screws. 2x1¹³⁄₃₂x1¹³⁄₃₂″. Av. wt., 1 oz.
41 D 5558. 1-24.... Each .60 25-49...... Each .57 50-99.. Ea. .54 100-249.. Ea. .42 250-499.... Ea. .39

11-Pin "P" Case. Type 35D072. As above, 11-pin base.
41 D 5559. 1-24........ Each .75 25-49... Each .71 50-99.... Each .68 100-249...... Each .53 250-499...... Each .49

KCP-KRP Hold-Down Spring. Type 9KR15. For secure mounting of KCP or KRP plug-in relays in any position. Two ⁵⁄₃₂″ holes. 3 oz.
41 D 5554 .... Box of 50 5.50

SOCKETS FOR KCP, KRP, KRP-N AND KAP RELAYS

Amphenol Barrier Type Sockets. For KAP, KCP, KRP, and KRP-N relays. Octal type (rated 8 amps) for SP and DP relays; 11-pin (rated 10 amps) for 3-pole types.

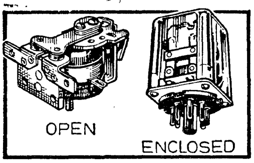
Stock No.	Mfr's Type	Description	Wt., Oz.	EACH 1-24	25-99	100-249	250-499
47 D 0180	146-103	Octal	2	1.498	1.253	1.051	.90
47 D 2593	146-817	11 pin	3	3.474	2.906	2.438	2.088

Amphenol Standard Sockets. Type 77M1P8, 77M1P11 for KAP, KCP, KRP, KRP-N types; 78-A7P for PW and SM types. Octal for SP and DP relays; 11 pin for 3-pole relays; 7 pin for SPDT relays.

Stock No.	Mfr's Type	Description	Wt., Oz.	EACH 1-49	50-249	250-499	500-999
47 D 0028	77M1P8	Octal	1	.16	.13	.111	.099
47 D 0033	77M1P11	11 Pin	1	.21	.18	.15	.134
47 D 0113	78-A7P	7 Pin	1	.34	.28	.24	.22

General-Purpose and Plate-Circuit Relays

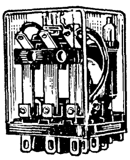
KR3 DOUBLE-BREAK HEAVY-DUTY RELAY



Small size for use where limited space is a factor. Heavy-duty copper alloy contact arms, silver-cadmium-oxide contacts. Rated at 20 amps, 115 VAC, 60 cycles resistive, or 28 VDC; 1 HP 115/230 V., 60 cycles. Action is SPST-NO-DB (1 Form X). Size, 1.6x1.671x1.52″. One 6-32 stud mounting on .437″ center. Same coil rating as in KA Series, page 216. Shpg. wt., 2 oz. **KRP3-H Series.** As above, but enclosed in clear, high-impact plastic dust cover. Has octal plug-in base. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5132	KR3AH	24 VAC	4.10	3.90	3.69	2.87	2.67
41 D 5133	KR3AH	115 VAC	4.10	3.90	3.69	2.87	2.67
41 D 5134	KR3DH	6 VDC	3.90	3.71	3.51	2.73	2.54
41 D 5135	KR3DH	12 VDC	3.90	3.71	3.51	2.73	2.54
41 D 5136	KR3DH	24 VDC	3.90	3.71	3.51	2.73	2.54
41 D 5137	KR3DH	110 VDC	4.50	4.28	4.05	3.15	2.93
41 D 5138	KRP3AH	24 VAC	6.65	6.32	5.99	4.66	4.32
41 D 5139	KRP3AH	115 VAC	6.65	6.32	5.99	4.66	4.32
41 D 5140	KRP3DH	6 VDC	6.45	6.13	5.81	4.52	4.19
41 D 5175	KRP3DH	12 VDC	6.45	6.13	5.81	4.52	4.19
41 D 5176	KRP3DH	24 VDC	6.45	6.13	5.81	4.52	4.19
41 D 5177	KRP3DH	110 VDC	7.10	6.75	6.39	4.97	4.62

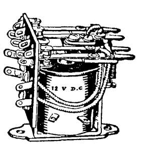
NEW KUP SERIES ENCLOSED RELAYS



Reliable 10-amp relays for industrial control, with .187″ relay terminals of quick-connect/solder type. Continuous operation; long lasting silver-cadmium-oxide contacts. Enclosed in clear, high-impact plastic dust cover; a matching 10-amp molded nylon socket is available (listed below) with pierced solder terminals. Size, 1.531x1.408x 1.908″. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 4972	KUP5A15	6 AC	SPDT	3.70	3.40	3.33	2.59	2.41
41 D 4973	KUP5A15	12 AC	SPDT	3.70	3.40	3.33	2.59	2.41
41 D 4974	KUP5A15	24 AC	SPDT	3.70	3.40	3.33	2.59	2.41
41 D 4975	KUP5A15	115 AC	SPDT	3.70	3.40	3.33	2.59	2.41
41 D 4976	KUP5A15	230 AC	SPDT	4.10	3.90	3.69	2.87	2.67
41 D 4977	KUP5D15	6 DC	SPDT	3.55	3.37	3.20	2.49	2.31
41 D 4978	KUP5D15	12 DC	SPDT	3.55	3.37	3.20	2.49	2.31
41 D 4979	KUP5D15	24 DC	SPDT	3.55	3.37	3.20	2.49	2.31
41 D 4980	KUP5D15	110 DC	SPDT	4.15	3.94	3.74	2.91	2.70
41 D 4981	KUP11A15	6 AC	DPDT	4.50	4.28	4.05	3.15	2.93
41 D 4982	KUP11A15	12 AC	DPDT	4.50	4.28	4.05	3.15	2.93
41 D 4983	KUP11A15	24 AC	DPDT	4.50	4.28	4.05	3.15	2.93
41 D 4984	KUP11A15	115 AC	DPDT	4.50	4.28	4.05	3.15	2.93
41 D 4985	KUP11A15	230 AC	DPDT	4.90	4.66	4.41	3.43	3.19
41 D 4986	KUP11D15	6 DC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 4987	KUP11D15	12 DC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 4988	KUP11D15	24 DC	DPDT	4.05	3.85	3.65	2.84	2.63
41 D 4989	KUP11D15	110 DC	DPDT	4.65	4.42	4.19	3.26	3.02
41 D 4990	KUP14A15	6 AC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 4991	KUP14A15	12 AC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 4992	KUP14A15	24 AC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 4993	KUP14A15	115 AC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 4994	KUP14A15	230 AC	3PDT	5.45	5.18	4.91	3.82	3.54
41 D 4995	KUP14D15	6 DC	3PDT	4.65	4.42	4.19	3.26	3.02
41 D 4996	KUP14D15	12 DC	3PDT	4.65	4.42	4.19	3.26	3.02
41 D 4997	KUP14D15	24 DC	3PDT	4.65	4.42	4.19	3.26	3.02
41 D 4998	KUP14D15	110 DC	3PDT	5.05	4.80	4.55	3.54	3.28
41 D 4999	9KU1	10-amp Socket		.75	.71	.68	.53	.49

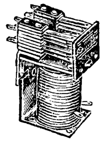
KL GENERAL-PURPOSE MULTIPLE-CONTACT MIDGET RELAYS



Widely used in industrial machine controls, elevator controls, communication equipment, etc. High dielectric phenolic insulation. Silver contacts rated at 5 amps at 115 v., 50-60 cycle AC resistive. AC coils are for 60 cycles. Two 6-32 tapped mtg. holes. Size, 1²³⁄₃₂x2¹⁄₃₂x1¹⁵⁄₁₆″. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6532	KL11A	115 AC	DPDT	5.05	4.80	4.55	3.54	3.28
41 D 6533	KL14A	115 AC	3PDT	5.60	5.32	5.04	3.92	3.64
41 D 5218	KL17A	115 AC	4PDT	6.60	6.27	5.94	4.62	4.29
41 D 5220	KL17D	24 DC	4PDT	6.30	5.99	5.67	4.41	4.10

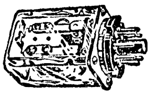
GB PLATE-CIRCUIT RELAYS



Medium-cost plate-circuit relays. Sensitivity: 115 mw for single pole, and 275 mw for 4 pole. Silver contacts are designed for maximum self-cleaning action for minimized maintenance. (Pull-in is not adjustable.) Contacts are all rated at 5 amperes. Mounting: 8-32 tapped core and locating half-punch. Size, 2¹⁵⁄₃₂x1²³⁄₃₂x1¹⁄₁₆″. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Coil Ma	Coil Ohms	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6789	GB5D	6.8	2500	SPDT	3.60	2.47	2.34	1.82	1.69
41 D 6792	GB5D	4.8	5000	SPDT	3.80	3.61	3.42	2.66	2.47
41 D 6790	GB11D	7.0	2500	DPDT	5.10	4.85	4.59	3.57	3.32
41 D 6793	GB11D	5.0	5000	DPDT	5.20	4.94	4.68	3.64	3.38
41 D 6796	GB11D	3.53	10,000	DPDT	5.80	5.51	5.22	4.06	3.77
41 D 6791	GB17D	10.5	2500	4PDT	6.10	5.80	5.49	4.27	3.97
41 D 6797	GB17D	5.25	10,000	4PDT	6.70	6.37	6.03	4.69	4.36

KCP ENCLOSED PLATE-CIRCUIT RELAYS

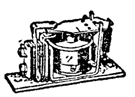


Enclosed in clear, high-impact plastic case. Types KCP5 and KCP11 plug into standard octal socket; KCP14 plugs into a standard 11-pin socket. ⅛″ dia. gold-flashed silver contacts rated 2 amps. Size: 1¹³⁄₃₂x1¹³⁄₃₂x2″. See page 217 for sockets. Shpg. wt., 4 oz.

Resistance (Ohms)	Single Pole Pull-in	Single Pole Sens.	Double Pole Pull-in	Double Pole Sens.	Three Pole Pull-in	Three Pole Sens.
2500	7.2 ma	125 mw	10.0 ma	250 mw	12.3 ma	375 mw
5000	5.0 ma	125 mw	7.2 ma	250 mw	8.7 ma	375 mw
10,000	3.6 ma	125 mw	5.0 ma	250 mw	6.1 ma	375 mw

Stock No.	Mfr's Type	Coil Ohms	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5287	KCP5	2500	SPDT	6.20	5.89	5.58	4.34	4.03
41 D 5288	KCP5	5000	SPDT	6.30	5.99	5.67	4.41	4.10
41 D 5289	KCP5	10,000	SPDT	6.70	6.37	6.03	4.69	4.36
41 D 5290	KCP11	2500	DPDT	6.60	6.27	5.94	4.62	4.29
41 D 5291	KCP11	5000	DPDT	6.70	6.37	6.03	4.69	4.36
41 D 5292	KCP11	10,000	DPDT	7.15	6.79	6.44	5.01	4.65
41 D 5097	KCP14	2500	3PDT	8.15	7.74	7.34	5.71	5.30
41 D 5098	KCP14	5000	3PDT	8.25	7.84	7.43	5.78	5.36
41 D 5099	KCP14	10,000	3PDT	8.65	8.22	7.79	6.06	5.62

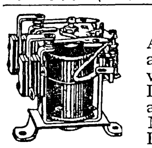
LB-5 PLATE-CIRCUIT RELAYS



Small, fast-acting units. For any circuit supplying as little as 200 milliwatts of DC. Breakdown, 500 v., rms. Silver contacts rated at 5 amps, 28 v., SPDT action. Adjusted by tail spring hook. For DC only. Mtg., two ³⁄₁₆″ holes on 2⁷⁄₃₂″ ctrs. 3 oz.

Stock No.	Ohms	Ma	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5625	2500	9	2.70	2.57	2.43	1.89	1.76
41 D 5626	5000	6.3	2.90	2.76	2.61	2.03	1.89
41 D 5774	10,000	4.5	3.15	2.99	2.84	2.21	2.05

LM PLATE-CIRCUIT RELAYS



Armature spring-tension adjustment and adjustable residual screw permits settings for specific voltages and currents. (LM5; 0.1 to .015 watts. LM11; 0.2 to 0.07 watts.). Silver contacts rated at 5 amperes. LM5 is SPDT; LM11 is DPDT. Mtg., two 6-32 holes on 1¹³⁄₁₆″ centers. Sizes: LM5, 2⁵⁄₁₆x1¼x2⁷⁄₁₆″; LM11, 2³⁄₁₆x2⁵⁄₃₂x2½″. 5 oz.

Stock No.	Mfr's Type	Ohms	Ma	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5673	LM5	2500	6.3	4.15	3.94	3.74	2.91	2.70
41 D 5674	LM5	5000	4.5	4.35	4.13	3.92	3.05	2.83
41 D 5675	LM5	10,000	3.2	4.65	4.42	4.19	3.26	3.02
41 D 5682	LM11	2500	9.0	5.90	5.61	5.31	4.13	3.84
41 D 5683	LM11	5000	6.3	6.10	5.80	5.49	4.27	3.97
41 D 5684	LM11	10,000	4.5	6.70	6.37	6.03	4.69	4.36

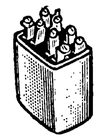
PW HERMETICALLY SEALED RELAYS

Precision, lightweight DC relays. Sealed in airtight brass cans. Withstand 10g vibration to 500 cps. DS suffix are voltage-actuated, LS current-actuated. Mount in standard 7-pin miniature socket. Silver contacts rated at 1 amp. Size ⁴⁹⁄₆₄″ dia.; 1¹¹⁄₁₆″ high (above socket). *Milliamps. For sockets see page 217. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Volts	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5018	PW5DS	6	202	11.30	10.74	10.17	7.91	7.35
41 D 5019	PW5DS	12	810	11.30	10.74	10.17	7.91	7.35
41 D 5027	PW5DS	24	3240	11.30	10.74	10.17	7.91	7.35
41 D 5028	PW5LS	2.8*	5000	11.65	11.07	10.49	8.16	7.57
41 D 5029	PW5LS	2.0*	10,000	12.10	11.50	10.89	8.47	7.87

P & B Power and Plate-Circuit Relays

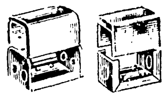
AB AND ABC HEAVY-DUTY POWER RELAYS



Terminals fit snap-on connectors, or may be dip-soldered to printed circuit. Snap-on screw adapters included. DPDT silver contacts rated 10 amps. AC types U.L. and C.S.A. Listed. *Open types mount two 8-32 tapped holes on $1\frac{1}{4}''$ centers. Size, $1\frac{15}{16}$x$1\frac{13}{32}$x3″. Shpg. wt., 6 oz. All others have dust covers, mount by one 8-32 stud $\frac{3}{8}''$ long. Size, $1\frac{31}{64}$x$2\frac{3}{32}$x$2\frac{25}{32}''$. Shpg. wt., 8 oz.

Stock No.	Mfr's Type	Coil Type	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5419	*AB11AY	115 AC	5.55	5.27	5.00	3.89	3.61
41 D 6769	*AB11D	24 DC	5.45	5.18	4.91	3.82	3.54
41 D 5433	ABC11AY	115 AC	6.70	6.37	6.03	4.69	4.36
41 D 5464	ABC11AY	230 AC	7.15	6.79	6.44	5.01	4.65
41 D 6771	ABC11D	12 DC	6.60	6.27	5.94	4.62	4.29
41 D 6772	ABC11D	24 DC	6.60	6.27	5.94	4.62	4.29
41 D 5465	ABC11D	110 DC	7.15	6.79	5.44	5.01	4.65

RELAY COVERS



PR/PM MR

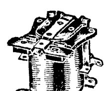
TYPE 35D013. Has sheet steel base, knockouts for $\frac{1}{2}''$-dia. conduit and aluminum cover with 2 screws. Gray enamel. $3\frac{1}{8}$x$3\frac{3}{8}$x$5\frac{5}{16}''$. Mounts 3 No. 10 holes on $1\frac{7}{8}$x$4\frac{1}{8}''$ centers. Wt., 1 lb.

TYPE 35D227. Size, $3\frac{13}{16}$x$3\frac{13}{16}$x$5\frac{1}{8}''$. 1 lb.

TYPE 35D130. Size, $2\frac{19}{32}$x$2\frac{3}{8}$x$3\frac{5}{8}''$. 1 lb.

Stock No.	Mfr's Type	Use With	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6777	35D013	PR	3.30	3.14	2.97	2.31	2.15
41 D 7497	35D227	PM	3.30	3.14	2.97	2.31	2.15
41 D 6778	35D130	MR	2.10	2.00	1.89	1.47	1.37

RS5D LIGHTWEIGHT PLATE-CIRCUIT RELAYS



For radio-sonde, light-dimmer, model applications. Voltage and current-actuated types. Sensitivity, 60 mw. Life expectancy, 10 million operations. Operate, 25 ms; release, less than 5 ms. Bar palladium SPDT contacts rated at 2 amps. *6 v. DC type. †12 v. DC. Molded phenolic insulation; 100 megohms minimum resistance. Mounting: two 4-40 tapped holes on $\frac{5}{8}$x$\frac{3}{4}''$ diagonal centers. Mounts in Type "P" plastic case, or with KCP-KRP hold-down spring (page 217) for special applications. Wt., 2 oz.

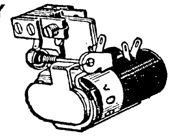
Stock No.	Ohms	Ma	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5896	335	*	2.57	2.61	2.48	1.93	1.79
41 D 5504	1350	†	2.90	2.76	2.61	2.03	1.89
41 D 5897	2500	5.0	3.00	2.85	2.70	2.10	1.95
41 D 5898	5000	3.5	3.30	3.14	2.97	2.31	2.15
41 D 5899	10,000	2.5	3.80	3.61	3.42	2.66	2.47

SM MIDGET PLATE-CIRCUIT RELAYS

Fast-acting, subminiature sensitive relays for voltage or current-actuating applications. Ideal for low-level switching in computers, aircraft instruments, etc. Voltage actuated relays are designated SM-D. Current-operated relays are designated SM-L. SPDT contacts, rated $\frac{1}{4}$ amp. Stationary contacts gold-flashed silver, movables rhodium. Units are sealed hermetically in deep-drawn steel tubes. Standard 7-pin miniature tube-type bases. $\frac{3}{4}''$ dia. $1\frac{11}{16}''$ high above socket. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	VDC	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5915	SM5DS	6	80	6.90	6.56	6.21	4.83	4.49
41 D 6521	SM5DS	12	360	6.90	6.56	6.21	4.83	4.49
41 D 5916	SM5DS	24	900	6.90	6.56	6.21	4.83	4.49
41 D 5917	SM5LS	3.9 ma	5000	7.20	6.84	6.48	5.04	4.68
41 D 5949	SM5LS	2.7 ma	10K	7.70	7.32	6.93	5.39	5.01

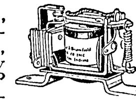
SS5D DC PLATE-CIRCUIT DUAL-COIL RELAY



An extremely sensitive, precision-built SPDT relay that operates on as little as 2.5 milliwatts and will withstand up to 4.75 watts maximum. Because of its high sensitivity, the SS is ideal for low-energy circuits such as instruments, bridge balancing, etc. Dual series-connected coils operate heavy-duty armature supported by two jeweled needle bearings. Dual-coil construction makes this relay applicable for use as a differential relay by connecting each coil in a separate circuit. Coil resistance, 10K. Contacts rated 2 amps. Mounts by two 6-32 tapped holes on $\frac{23}{32}''$ centers. Size, $1\frac{11}{16}$x$1\frac{5}{16}$x$1\frac{3}{4}''$. Shpg. wt., 4 oz.

41 D 5844. 1-24....Each **14.50** 25-49..........Each **13.78**
50-99..........Each **13.05** 100-249..........Each **10.15**
250-499..........Each **9.43**

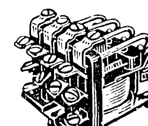
MR MEDIUM-DUTY POWER RELAYS



Medium-duty power relays for small motors, transmitters and other general-purpose applications. Contacts $\frac{7}{32}''$ diameter silver, rated 8 amps, except *10 amps. SPST relays are normally open. Sizes: SP units, $1\frac{11}{16}$x$1\frac{11}{32}$x$2\frac{31}{32}''$; DP units, 2x$2\frac{3}{16}$x$2\frac{19}{32}''$; 3-pole, 2x$2\frac{3}{16}$x$2\frac{31}{32}''$. Mounting: $\frac{5}{32}''$ diameter holes on $2\frac{1}{4}''$ centers for MR 3 and MR11, $2\frac{5}{8}''$ centers for MR5 and MR14. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	Coil Ohms	EACH 1-24	25-49	50-99	100-249	250-499
SPST*								
41 D 5975	MR3A	6 AC	2.75	4.10	3.90	3.69	2.87	2.67
41 D 5978	MR3A	24 AC	50.0	4.10	3.90	3.69	2.87	2.67
41 D 5665	MR3A	115 AC	1250.0	4.10	3.90	3.69	2.87	2.67
41 D 5983	MR3D	6 DC	24.0	3.70	3.52	3.33	2.59	2.41
41 D 5187	MR3D	12 DC	96.0	3.70	3.52	3.33	2.59	2.41
41 D 5988	MR3D	24 DC	360.0	3.70	3.52	3.33	2.59	2.41
SPDT								
41 D 5610	MR5A	6 AC	2.75	3.65	3.47	3.29	2.56	2.37
41 D 6757	MR5A	12 AC	13.25	3.65	3.47	3.29	2.56	2.37
41 D 5979	MR5A	24 AC	50.0	3.65	3.47	3.29	2.56	2.37
41 D 5614	MR5A	115 AC	1250.0	3.65	3.47	3.29	2.56	2.37
41 D 5657	MR5A	230 AC	4600.0	4.10	3.90	3.69	2.87	2.67
41 D 5628	MR5D	6 DC	24.0	3.40	3.23	3.06	2.38	2.21
41 D 5188	MR5D	12 DC	96.0	3.40	3.23	3.06	2.38	2.21
41 D 5989	MR5D	24 DC	360.0	3.40	3.23	3.06	2.38	2.21
41 D 6760	MR5D	110 DC	8000.0	3.90	3.71	3.51	2.73	2.54
DPDT								
41 D 5612	MR11A	6 AC	2.75	5.15	4.89	4.64	3.61	3.35
41 D 6758	MR11A	12 AC	13.25	5.15	4.89	4.64	3.61	3.35
41 D 5981	MR11A	24 AC	50.0	5.15	4.89	4.64	3.61	3.35
41 D 5616	MR11A	115 AC	1250.0	5.15	4.89	4.64	3.61	3.35
41 D 5659	MR11A	230 AC	4600.0	5.55	5.27	5.00	3.89	3.61
41 D 5985	MR11D	6 DC	24.0	4.90	4.66	4.41	3.43	3.19
41 D 5190	MR11D	12 DC	96.0	4.90	4.66	4.41	3.43	3.19
41 D 5991	MR11D	24 DC	360.0	4.90	4.66	4.41	3.43	3.19
41 D 5761	MR11D	110 DC	8000.0	5.40	5.13	4.86	3.78	3.51
3PDT								
41 D 5976	MR14A	6 AC	2.75	6.15	5.84	5.54	4.31	4.00
41 D 6759	MR14A	12 AC	13.25	6.15	5.84	5.54	4.31	4.00
41 D 5982	MR14A	24 AC	50.0	6.15	5.84	5.54	4.31	4.00
41 D 5972	MR14A	115 AC	1250.0	6.15	5.84	5.54	4.31	4.00
41 D 5974	MR14A	230 AC	4600.0	6.55	6.22	5.90	4.59	4.26
41 D 5986	MR14D	6 DC	24.0	5.80	5.51	5.22	4.06	3.77
41 D 5191	MR14D	12 DC	96.0	5.80	5.51	5.22	4.06	3.77
41 D 5992	MR14D	24 DC	360.0	5.80	5.51	5.22	4.06	3.77
41 D 5762	MR14D	110 DC	8000.0	6.30	5.99	5.67	4.41	4.10

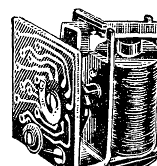
PM17 4PDT POWER RELAYS



Compact. For polyphase and heavy-duty switching. 4PDT. Silver-cadmium-oxide contacts rated at 25 amps, 220 v., 50-60 cycle, non-inductive. 1 hp per movable arm @ 115 or 220 v., single-phase. U.L. and C.S.A. Listed except 440 v. Mount by key-hole and 2 channels for 8-32 screws on 2x$2\frac{1}{2}''$ triangular centers. Screw term. $2\frac{45}{64}$x$2\frac{31}{32}$x$3\frac{23}{64}''$.

Stock No.	Type PM-	Coil Volts	Res., Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7634	17AY	6 AC	0.37	12.95	12.30	11.66	9.07	8.42
41 D 7635	17AY	12 AC	1.4	12.95	12.30	11.66	9.07	8.42
41 D 7636	17AY	24 AC	5.0	12.95	12.30	11.66	9.07	8.42
41 D 7637	17AY	115 AC	120	12.95	12.30	11.66	9.07	8.42
41 D 7638	17AY	230 AC	587	13.40	12.73	12.06	9.38	8.71
41 D 7499	17AY	440 AC	1790	14.30	13.59	12.87	10.01	9.30
41 D 7691	17DY	6 DC	8.2	12.40	11.78	11.16	8.68	8.06
41 D 7692	17DY	12 DC	33.0	12.40	11.78	11.16	8.68	8.06
41 D 7693	17DY	24 DC	132.0	12.40	11.78	11.16	8.68	8.06
41 D 7694	17DY	110 DC	2760.0	13.00	12.35	11.70	9.10	8.45

SA-1N-12A STEPPING RELAY



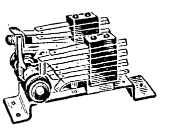
Twelve-position stepping relay for audio-level switching in TV remote control units, scoreboards and process controls. Printed circuit strips handle up to 250 ma. Armature-driven pawl operates ratchet wheel to drive movable contact in 30° steps. Coil voltage, 115; resistance, 140 ohms; power, 20 VA. Mounting: two 6-32 holes on $1\frac{13}{16}''$ centers. Wt., 4 oz.

41 D 7113. 1-24..........Each **7.00**
25-49....Each **6.65** 50-99....Each **6.30**
100-249..Each **4.90** 250-499...Each **4.55**

Be Sure to Specify Mfr's Type and Coil Volts When Ordering Relays

Special-Purpose and Power Relays

AP RATCHET IMPULSE RELAYS

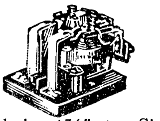


An extremely fast-acting relay for applications requiring on-off or reversing action on alternate impulses. Gives positive operation on impulses as short as 60 ms. Stop mechanism assures accurate operation on each impulse, regardless of speed. Intermittent duty. Contacts are 3⁄16″ fine silver, rated 5 amps at 115 v., 60 cycles. Coils are wound on molded bobbins. Have tinned solder terminals. Mounting: Three 5⁄32″ diameter holes on 3 3⁄8x7⁄8″ triangular cuts. Units' measure 2 5⁄16x2 1⁄4x3 3⁄4″. AC types are for 50/60 cycles. Av. shpg. wt., 9 oz.

ALL ARE DPDT EXCEPT *4PDT

Stock No.	Mfr's Type	Coil Volts	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5997	AP11A	6 AC	0.6	9.20	8.74	8.28	6.44	5.98
41 D 6581	AP11A	12 AC	2.28	9.20	8.74	8.28	6.44	5.98
41 D 5993	AP11A	115 AC	240	9.20	8.74	8.28	6.44	5.98
41 D 6583	AP11A	230 AC	900	9.70	9.22	8.73	6.79	6.31
41 D 6585	AP11D	6 DC	4.0	9.20	8.74	8.28	6.44	5.98
41 D 5999	AP11D	24 DC	54.0	9.20	8.74	8.28	6.44	5.98
41 D 6589	AP11D	110 DC	1350	9.90	9.41	8.91	6.93	6.44
41 D 5994	AP17A*	115 AC	240	11.15	10.59	10.04	7.81	7.25
41 D 6588	AP17D*	12 DC	15.5	11.15	10.59	10.04	7.81	7.25
41 D 5778	AP17D*	24 DC	45	11.15	10.59	10.04	7.81	7.25

PR HEAVY-DUTY FAST-ACTING POWER RELAYS



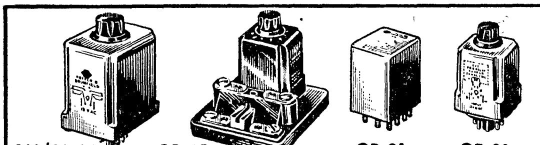
Handle many industrial switching requirements. Silver contacts rated 25 amps except PR11AL5, 20 amps. With heavy screw-terminals *Indicates auxiliary 5-amp contacts. All are U.L. Listed except PR11AL5. AC types also C.S.A. Listed. Nominal power: AC types, 9.8 VA at 50-60 cps; DC types, 2 watts. Mtg.: two 3⁄16″ holes, 1 7⁄8″ ctrs. Sizes: all are 2 1⁄2″ wide; PR3 and PR5, 2 7⁄32x2 1⁄2″; PR7, 2 1⁄2x2 7⁄16″; PR11, 2 1⁄2x3 3⁄8″. Dust cover on page 219. 12 oz.

COIL DATA CHART FOR PR SERIES

DC COILS Volts	Res. (Ohms)	AC COILS (50-60 cycles) Volts	Res. (Ohms)
6	18	6	.86
12	71	12	3.2
24	288	24	12
110	6050	115	290
...	....	230	1200
...	....	440	4500

Stock No.	Type PR-	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5846	3AY	6 AC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 6751	3AY	12 AC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 5961	3AY	24 AC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 5600	3AY	115 AC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 5652	3AY	230 AC	SPST	4.75	4.51	4.28	3.33	3.09
41 D 6509	3DY	12 DC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 6101	3DY	24 DC	SPST	4.35	4.13	3.92	3.05	2.83
41 D 5968	3DY	110 DC	SPST	5.00	4.75	4.50	3.50	3.25
41 D 5847	5AY	6 AC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 5878	5AY	12 AC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 5962	5AY	24 AC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 5602	5AY	115 AC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 5966	5AY	230 AC	SPDT	5.00	4.75	4.50	3.50	3.25
41 D 6750	5DY	6 DC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 6510	5DY	12 DC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 6754	5DY	24 DC	SPDT	4.55	4.32	4.10	3.19	2.96
41 D 5969	5DY	110 DC	SPDT	5.20	4.94	4.68	3.64	3.38
41 D 5848	7AY	6 AC	DPST	5.15	4.89	4.64	3.61	3.35
41 D 5879	7AY	12 AC	DPST	5.15	4.89	4.64	3.61	3.35
41 D 5963	7AY	24 AC	DPST	5.15	4.89	4.64	3.61	3.35
41 D 5603	7AY	115 AC	DPST	5.15	4.89	4.64	3.61	3.35
41 D 5654	7AY	230 AC	DPST	5.60	5.32	5.04	3.92	3.64
41 D 6102	7DY	6 DC	DPST	5.15	4.89	4.64	3.61	3.35
41 D 6511	7DY	12 DC	DPST	5.15	4.89	4.64	3.61	3.37
41 D 6513	7DY	24 DC	DPST	5.15	4.89	4.64	3.61	3.37
41 D 5970	7DY	110 DC	DPST	5.80	5.51	5.22	4.06	3.77
41 D 5849	11AY	6 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 6752	11AY	12 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 5964	11AY	24 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 5663	11AY	115 AC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 5655	11AY	230 AC	DPDT	7.30	6.94	6.57	5.11	4.75
41 D 5656	11AY	440 AC	DPDT	8.20	7.79	7.38	5.74	5.33
41 D 6103	11AL5	6 AC	DPDT*	8.55	8.12	7.70	5.99	5.56
41 D 6109	11AL5	12 AC	DPDT*	8.55	8.12	7.70	5.99	5.56
41 D 6753	11AL5	24 AC	DPDT*	8.55	8.12	7.70	5.99	5.56
41 D 6755	11AL5	115 AC	DPDT*	8.55	8.12	7.70	5.99	5.56
41 D 6756	11AL5	230 AC	DPDT*	9.00	8.55	8.10	6.30	5.85
41 D 6508	11DY	6 DC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 6512	11DY	12 DC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 6514	11DY	24 DC	DPDT	6.75	6.41	6.08	4.73	4.39
41 D 5971	11DY	110 DC	DPDT	7.40	7.03	6.66	5.18	4.81

CD SOLID-STATE TIME-DELAY DEVICES AND RELAYS

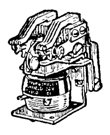


CH/CD38 CD45 CD31 CD21

Meet many time delay requirements. Reset within milliseconds. Adjustable over entire time range. Plastic enclosures. Series CH: temp., —10° C to +55° C, acc., ±10%; reset, 100 msec; repeatability, ±2%. Series CD: temp., —40° C to +55° C; acc., ±5%; reset, 60 msec; repeatability, ±1%. CHB/CDB38 and CHD/CDD38 have internal DPDT 10-amp relay. Others are timer only; use with P & B relays: *KRP11AG or KRP14AG; †KRP5DG, KRP11DG, or KRP14DG; ‡KHP17D11 (CH31 has 180-second fixed delay, adjustable from 1.8 to 120 sec. by using various values of 1⁄2-watt resistors); §PR11AY. CDB38-70012, CDD38-30012, CHB38-70011, 70013, and CHD38-30011, 30013 provide delay on release, others delay on operate. Wts.: CD21, 5 oz.; CD31, 3 oz.; CD38, 9 oz.; CD45, 7 oz.; CH38, 5 oz.

Stock No.	Mfr's Type	Input Volts	Delay Sec.	EACH 1-9	10-24	25-49	50-99
41 D 4934	CHB38-30001	24 AC	1.0-10	18.50	17.58	16.65	14.80
41 D 4935	CHB38-30003	24 AC	1.0-180	18.50	17.58	16.65	14.80
41 D 4936	CHB38-70001	115 AC	1.0-10	18.50	17.58	16.65	14.80
41 D 4937	CHB38-70003	115 AC	1.0-180	18.50	17.58	16.65	14.80
41 D 4938	CHD38-30001	24 AC	1.0-10	17.50	16.63	15.75	14.00
41 D 4939	CHD38-30003	24 AC	1.0-180	17.50	16.63	15.75	14.00
41 D 4940	CHB38-70011	115 AC	1.0-10	22.50	21.38	20.25	18.00
41 D 4941	CHB38-70013	115 AC	1.0-180	22.50	21.38	20.25	18.00
41 D 4942	CHD38-30011	24 DC	1.0-10	20.50	19.48	18.45	16.40
41 D 4943	CHD38-30013	24 DC	1.0-180	20.50	19.48	18.45	16.40
41 D 7100	CDB38-70003	115 AC	0.1-10	43.80	41.61	39.42	35.04
41 D 7109	CDB38-70004	115 AC	0.6-60	43.80	41.61	39.42	35.04
41 D 7101	CDB38-70005	115 AC	1.8-180	43.80	41.61	39.42	35.04
41 D 7102	CDD38-30003	24 DC	0.1-10	41.55	39.47	37.40	33.24
41 D 7114	CDD38-30004	24 DC	0.6-60	41.55	39.47	37.40	33.24
41 D 7103	CDD38-30005	24 DC	1.8-180	41.55	39.47	37.40	33.24
41 D 7104	CDB21-70003*	115 AC	0.1-10	38.70	36.77	34.83	30.96
41 D 7105	CDB21-70001*	115 AC	1.8-180	38.70	36.77	34.83	30.96
41 D 7106	CDD21-30003†	24 DC	0.1-10	38.35	36.43	34.52	30.68
41 D 7107	CDD21-30001†	24 DC	1.8-180	38.35	36.43	34.52	30.68
41 D 7108	CDH31-30005‡	24 DC	180	38.90	36.96	35.01	31.12
41 D 7110	CDB45-70002§	115 AC	0.6-60	37.05	35.20	33.35	29.64
41 D 7111	CDB38-70012	115 AC	0.6-60	52.45	49.83	47.21	41.96
41 D 7112	CDD38-30012	24 DC	0.6-60	49.50	47.03	44.55	39.60

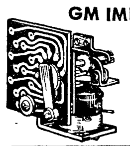
GM IMPULSE/SEQUENCING RELAYS



Single-coil latching relay. For uses requiring up to 6 operations per shaft revolution. Two Form C contacts (DPDT) switched indirectly and alternately by cams. *Additional two Form C contacts operate directly by armature. Contacts rated 3 amps. Mtg., 8-32 tapped core. †115 VAC, 425 ohms; §12 VDC, 36 ohms; ‡24 VDC, 144 ohms. Shpg. wt., 8 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7789	GM11A	DPDT†	7.60	7.22	6.84	5.32	4.94
41 D 7791	*GM11AL11	DPDT†	10.80	10.26	9.72	7.56	7.02
41 D 7792	GM11D	DPDT§	7.30	6.94	6.57	5.11	4.75
41 D 7793	GM11D	DPDT‡	7.80	7.41	7.02	5.46	5.07

GM IMPULSE/SEQUENCING RELAYS WITH PC BOARDS



Uses design of GM series above, with addition of uni-directional printed circuit board with up to 12 steps. The board is attached to an extension of the ratchet shaft; the movable contact arm advances one position each time the armature drops out. *Coil volts 115 AC; 510 ohms. †24 DC; 144 ohms. Contact rating, 1⁄4 watt. 2.312x1.875x1.875″. 5 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7782	GM1N10A	10-step*	9.40	8.93	8.46	6.58	6.11
41 D 7783	GM1N12A	12-step*	9.50	9.03	8.55	6.65	6.18
41 D 7784	GM1N10D	10-step†	9.15	8.69	8.24	6.41	5.95
41 D 7785	GM1N12D	12-step†	9.30	8.84	8.37	6.51	6.05

BU AC-OPERATED BUZZERS

Spring-steel armature buzzes when coil is energized. 1 1⁄32x1 1⁄32x1 3⁄8″. Mtg., 6-32 tapped core. Shpg. wt., 2 oz.

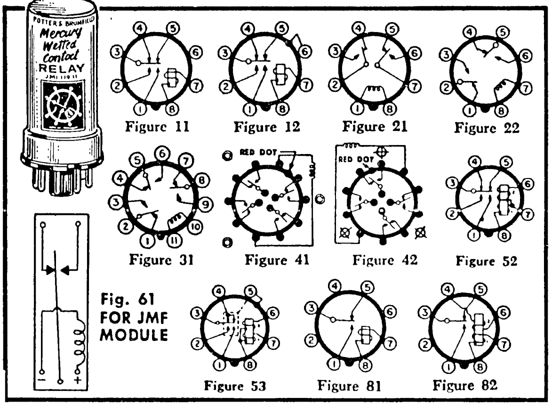
Stock No.	Type	Volts	Ohms	Stock No.	Type	Volts	Ohms
41 D 6005	BU-6AC	6AC	2.75	41 D 6007	BU-24AC	24AC	50
41 D 6006	BU-12AC	12AC	13.75	41 D 6008	BU-115AC	115AC	1250

1-24...Each 1.85 25-49...Each 1.76 50-99......Each 1.67
100-249..........Each 1.30 250-499...........Each 1.20

Potter & Brumfield Special-Purpose Relays

JM MERCURY-WETTED RELAYS

Ultra-reliable high-speed relays with sealed-in-glass mercury contacts. Series JMF (module type) and JML have SPDT break-before-make (Form C), non-bridging contact arrangement. All others SPDT, make-before-break (Form D) bridging contact arrangement. **Timing:** JMF/JML, 200/sec.; JMP and JM1, 100/sec.; JM2, 3, and 4, 60/sec. **Contact Rating:** JMF/JML, 500V or 2A max., 100VA max.; JMP and JM1 to 4, 500V, 5A max., 250VA max (with contact protection). **Sensitivity** (in amp-turns): JMF/JML, 27.3; JMP, 70; JM1, 190; JM2 and 3, 250; JM4, 260. **Shock:** 30 Gs for 11 ms. **Vibration:** up to 10 G, 10-500 cps. **Temp.:** 39°C mercury freezes; 107°C potting softens. Vertical mounting required. Have octal plugs except termination 41 which is 14-pin and 42—solder hook terminals and three 6-32 studs. Steel enclosures. **JMP, JML SERIES:** Greater sensitivity by permanent magnet biasing. *Single-side-stable. †Bi-stable. §Chopper. **Last two digits of type number indicate termination figure number.** Shpg. wt., 10 oz.



JMP SERIES POLARIZED SPST SINGLE-COIL (3 7/64x1 5/16" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V.	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7757	*1160-11	1000	5.60	..	HGP-1005	15.95	12.44	11.64
41 D 7758	*1200-11	4000	2.96	...	HGP-1002	17.10	13.34	12.48
41 D 7756	*1340-52	(1) 700 (2) 3300	14.20 5.70	.....	....	18.10	14.12	13.21
41 D 7761	*1470-53	(1) 1020 (2) 970	14.0 16.0	.....	....	19.90	15.52	14.53
41 D 7760	†5200-11	4000	1.5	.....	HGP-1003	17.10	13.34	12.48
41 D 7763	†5340-52	(1) 700 (2) 3300	....	6.0 2.4	....	18.65	14.55	13.61
41 D 7762	§8120-12	500	.....	6.3	HGP-1028	16.50	12.87	12.05
41 D 7765	§8240-11	11K	......	117	HGP-1045	17.65	13.77	12.88

JMF SERIES NON-BRIDGING PC MODULE (1 1/16x5/8" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V.	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 4965	*1020-61	65	...	38.1	....	9.40	7.33	6.86
41 D 4966	*1070-61	450	...	12.9	....	9.40	7.33	6.86
41 D 4967	*1080-61	675	..	11.6	....	9.40	7.33	6.86
41 D 4968	*1120-61	1425	...	8.4	....	9.40	7.33	6.86
41 D 4969	*1150-61	2400	.....	7.8	....	9.40	7.33	6.86
41 D 4970	*1160-61	4000	.....	4.0	....	9.90	7.72	7.23
41 D 4971	†5080-61	675	.....	5.4	....	9.40	7.33	6.86

JML SERIES NON-BRIDGING SPDT SINGLE-COIL (2 41/64x1 5/16" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V.	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7766	*1061-81	40	9.75	.....	HGS-5009	12.20	9.52	8.91
41 D 7767	*1110-81	350	3.56	......	HGS-5011	12.20	9.52	8.91
41 D 7769	*1160-81	1000	2.21	......	HGS-5015	12.20	9.52	8.91
41 D 7770	*1190-81	2500	1.43	....	HGS-5003	13.00	10.14	9.49
41 D 7771	*1200-81	4000	1.25	......	HGS-5008	13.00	10.14	9.49
41 D 6018	1240-81	11000	2.6	0.72		13.00	10.14	9.49
41 D 7772	*1260-81	25K	0.52	.....	HGS-5016	13.00	10.14	9.49
41 D 7774	*1440-82	(1) 4000 (2) 800	0.86 11.60	......	HGS-5001	14.30	11.15	10.44
41 D 7775	†5160-81	1000	1.24	......	HGS-5006	12.70	9.91	9.27
41 D 7776	†5200-81	4000	0.53	..	HGS-5004	13.00	10.14	9.27
41 D 7777	†5430-82	(1) 1100 (2) 1100	1.76	......	HGS-5013	14.30	11.15	10.44
41 D 7781	§8130-81	600	......	6.3	HGS-5017	12.70	9.91	9.27

JM1 SERIES SPDT SINGLE-COIL (3 13/64x1 17/64" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7709	106-12	40	67.7	9.0	HG1019-4	14.75	11.51	10.77
41 D 7711	109-12	130	38.8	16.1	HG1012-4	14.75	11.51	10.77
41 D 7712	112-11	500	20.1	31.6	HG1026-1	14.75	11.51	10.77
41 D 7713	114-11	700	20.0	37.4	HG1004-1	14.75	11.51	10.77
41 D 7715	114-12	700	20.0	37.4	HG1051-4	14.75	11.51	10.77
41 D 7717	118-11	2500	10.1	70.7	HG1001-1	15.00	11.70	10.95
41 D 7718	119-11	4000	8.1	89.5	HG1002-1	8.55	Net	Net
41 D 7722	120-11	7000	6.0	117.0	HG1009-1	15.55	12.13	11.35
41 D 7723	121-11	11K	5.0	148.0	HG1011-1	15.55	12.13	11.35
41 D 7724	123-11	25K	3.6	224.0	HG1024-4	15.55	12.13	11.35

JM2 SERIES DPDT SINGLE-COIL (3 13/32x1 17/32" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7726	104-22	50	110.0	12.25	HG2A-1008-2A2	23.95	18.68	17.48
41 D 7710	106-21	140	66.5	20.5	HG2A-1042-2A1	23.95	18.68	17.48
41 D 7727	109-22	315	44.0	30.7	HG2A-1003-2A2	23.95	18.68	17.48
41 D 7728	111-22	700	30.5	45.8	HG2A-1002-2A2	23.95	18.68	17.48
41 D 7729	112-22	1250	22.1	61.2	HG2A-1015-2A2	23.95	18.68	17.48
41 D 7731	115-21	5000	11.3	122.0	HG2A-1001-2A1	23.95	18.68	17.48
41 D 7732	115-22	5000	11.3	122.0	HG2A-1004-2A2	23.95	18.68	17.48
41 D 7861	110-22	500	34.8	38.7	HG2A-1017-2A2	23.95	18.68	17.68

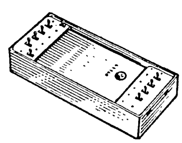
JM3 SERIES 3PDT SINGLE-COIL (3 13/32x1 17/32" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7734	109-31	315	44.0	30.7	HG3A-1004-3A1	31.00	24.18	22.63
41 D 7738	112-31	1250	22.1	61.2	HG3A-1008-3A1	31.00	24.18	22.63
41 D 7739	115-31	5000	11.3	122.0	HG3A-1003-3A1	31.00	24.18	22.63

JM4 SERIES 4PDT SINGLE-COIL (3 9/16x1 11/16" dia.)

Stock No.	Type/ Fig.	Coil Ohms	Coil Ma	Coil V	C. P. Clare Equivalent	EACH 1-9	EACH 10-24	EACH 25-99
41 D 7741	106-41	65	100.0	15.1	HG4A-1013-4A1	39.90	31.12	29.13
41 D 7742	110-41	390	42.0	37.0	HG4A-1011-4A1	39.90	31.12	29.13
41 D 7862	112-41	700	35.4	49.5	HG4A-1001-4A1	39.90	31.12	29.13
41 D 7749	118-42	6500	10.5	151.0	HG4B-1015-4B1	39.90	31.12	29.13
41 D 7752	119-41	10K	8.6	187.0	HG4A-1006-4A1	39.90	31.12	29.13

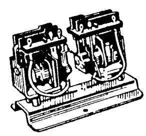
JR SERIES DRY REED RELAYS



Insulated with glass supported nylon, acetate film and glass. Form A, SPST-NO; Form B, SPST-NC; *True Form C (uses reed switch with two stationary and one movable contact, NC until coil is energized causing an SPDT break before make). Operate time, 3 ms. 2 13/16x1 9/32" dia. 2 1/2 oz.

Stock No.	Type JR-	Coil VDC	Coil Ohms	Contact Rating Form	Contact Rating Watts	EACH 1-9	EACH 10-24	EACH 25-99
41 D 4944	1000	6	150	1A	15	2.65	2.07	1.93
41 D 4945	1001	6	100	2A	15	3.55	2.77	2.59
41 D 4946	1003	6	37.5	4A	15	4.95	3.86	3.61
41 D 4947	1084	6	50	1A, 1B	15	4.40	3.43	3.21
41 D 4948	1040	6	150	1C*	10	6.65	5.19	4.85
41 D 4949	1020	6	150	1A	50	3.75	2.93	2.74
41 D 4950	1021	6	100	2A	50	5.75	4.49	4.20
41 D 4951	1005	12	600	1A	15	2.65	2.07	1.93
41 D 4952	1006	12	400	2A	15	3.55	2.77	2.59
41 D 4953	1008	12	150	4A	15	4.95	3.86	3.61
41 D 4954	1086	12	200	1A, 1B	15	4.40	3.43	3.21
41 D 4955	1045	12	600	1C*	10	6.65	5.19	4.85
41 D 4956	1025	12	600	1A	50	3.75	2.93	2.74
41 D 4957	1026	12	400	2A	50	5.75	4.49	4.20
41 D 4958	1010	24	2400	1A	15	3.10	2.42	2.26
41 D 4959	1011	24	1600	2A	15	3.80	2.96	2.77
41 D 4960	1013	24	600	4A	15	5.20	4.06	3.80
41 D 4961	1088	24	800	1A, 1B	15	4.65	3.63	3.39
41 D 4962	1050	24	2400	1C*	10	6.95	5.42	5.07
41 D 4963	1030	24	2400	1A	50	4.00	3.12	2.92
41 D 4964	1031	24	1600	2A	50	6.00	4.68	4.38

KB LATCHING RELAYS



One coil actuates relay to set latch; other coil releases it. 4PDT except *6PDT. Contacts, 5-amp silver or 10-amp silver cadmium-oxide movables. Mounting, two 5/32" holes on 1 3/8" centers. AC 5-amp types U.L. and C.S.A. Listed. †5 amp; ‡10 amp. Size, 2 23/32x1 5/32x2 15/16". Shpg. wt., 7 oz.

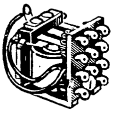
Stock No.	Mfr's Type	Coil Volts	Res.. Ohms	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249	EACH 250-499
41 D 5126	KB17AY†	6 AC	2.3	11.05	10.50	9.95	7.74	7.18
41 D 6540	KB17AY†	12 AC	10	11.05	10.50	9.95	7.74	7.18
41 D 5125	KB17AY†	24 AC	42	11.05	10.50	9.95	7.74	7.18
41 D 5124	KB17AY†	115 AC	1030	11.05	10.50	9.95	7.74	7.18
41 D 6732	KB17AY†	230 AC	4100	11.85	11.26	10.67	8.30	7.70
41 D 5129	KB17D†	6 DC	13.1	9.90	9.41	8.91	6.93	6.44
41 D 6545	KB17D†	12 DC	51.0	9.90	9.41	8.91	6.93	6.44
41 D 5128	KB17D†	24 DC	230	9.90	9.41	8.91	6.93	6.44
41 D 5127	KB17D†	110 DC	4560	11.20	10.64	10.08	7.84	7.28
41 D 6034	KB17AG‡	6 AC	2.3	11.15	10.59	10.04	7.81	7.25
41 D 6039	KB17AG‡	12 AC	10	11.15	10.59	10.04	7.81	7.25
41 D 6541	KB17AG‡	24 AC	42	11.15	10.59	10.04	7.81	7.25
41 D 6543	KB17AG‡	115 AC	1030	11.15	10.59	10.04	7.81	7.25
41 D 6731	KB17AG‡	230 AC	4100	11.95	11.35	10.76	8.37	7.77
41 D 6037	KB17DG‡	6 DC	13.1	10.15	9.64	9.14	7.11	6.60
41 D 6038	KB17DG‡	12 DC	52.0	10.15	9.64	9.14	7.11	6.60
41 D 6040	KB17DG‡	24 DC	230	10.15	9.64	9.14	7.11	6.60
41 D 6041	KB17DG‡	110 DC	4560	11.40	10.83	10.26	7.98	7.41
41 D 6043	KB23DG‡*	24 DC	230	12.35	11.73	11.12	8.65	8.03

Specify Mfr's Type and Coil Volts When Ordering Relays

Special-Purpose and Telephone Type Relays

SPECIAL-PURPOSE TYPE

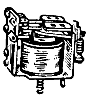
KM SUBMINIATURE RELAYS



For multiple switching applications. Used extensively in small business machines, alarm systems, and communications. Withstand 30g shock. Weigh 0.58 oz. $\frac{3}{32}$" silver contacts rated at 2 amps. Solder terminals. Mount by 2-56 tapped core and locating half-punch. Size: $1\frac{1}{8}$x$\frac{53}{64}$x$\frac{35}{64}$". Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6361	KM5D	6 DC	SPDT	3.60	3.42	3.24	2.52	2.34
41 D 6362	KM5D	12 DC	SPDT	3.60	3.42	3.24	2.52	2.34
41 D 6363	KM5D	24 DC	SPDT	3.60	3.42	3.24	2.52	2.34
41 D 6365	KM11D	6 DC	DPDT	3.95	3.75	3.56	2.77	2.57
41 D 6366	KM11D	12 DC	DPDT	3.95	3.75	3.56	2.77	2.57
41 D 6367	KM11D	24 DC	DPDT	3.95	3.75	3.56	2.77	2.57
41 D 6369	KM14D	6 DC	3PDT	4.55	4.32	4.10	3.19	2.96
41 D 6370	KM14D	12 DC	3PDT	4.55	4.32	4.10	3.19	2.96
41 D 6371	KM14D	24 DC	3PDT	4.55	4.32	4.10	3.19	2.96

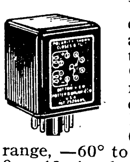
KT DPDT ANTENNA-SWITCHING RELAYS



Useful for switching antenna between transmitter and receiver. Glass base insulation provides minimum loss in RF applications. For 300-ohm line. Mounts by one 6-32 stud. Fine silver contacts are rated at 5 amps. Size: $1\frac{1}{4}$x$1\frac{5}{8}$x$1\frac{11}{16}$". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Coil Volts	Res., Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6373	KT11A	6 AC	5.1	3.90	3.71	3.51	2.73	2.54
41 D 6374	KT11A	115 AC	2250	3.90	3.71	3.51	2.73	2.54
41 D 6375	KT11D	6 DC	32.1	3.90	3.71	3.51	2.73	2.54
41 D 6376	KT11D	12 DC	120	3.90	3.71	3.51	2.73	2.54

MDP POLARIZED HIGH-SPEED RELAYS

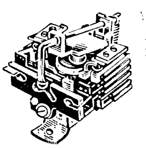


Ultrasensitive. Bounce-free action. Two types of contact design provide following action when coils are de-energized: Bi-stable (*)—one form C contact, armature remains in its last energized position; Center-stable (†)—one form K contact arrangement, armature remains in center-off position with contacts open. Tungsten-Paliney contacts, rated: Bi-stable types .01-.1 amp, 25-150 v.; center-stable (silver) 3 amps res. @ 28 VDC. Ambient temp. range, —60° to +85° C. Size, $1\frac{7}{16}$x$1\frac{7}{16}$x$1\frac{13}{16}$". Plastic dust cover. 8 or 12-pin plugs. ‡Res. per coil. §Barber-Colman equiv., AYLZ-, except #Sigma 72AOZ—TCP. Wt., 9 oz.

Stock No.	Type MDP-	Coils No.	Ma	Res. ‡	§ AYLZ-	EACH 1-9	10-49	50-249
41 D 6151	*300-1	2	1.5	150	#160TG	22.35	20.12	19.00
41 D 6157	*1300-8	2	0.28	4000	#4000TS	22.35	20.12	19.00
41 D 6162	†1004	1	0.49	130	7303-100	25.55	23.00	21.72
41 D 6163	†1006	1	0.32	330	7305-100	25.55	23.00	21.72
41 D 6169	†1007	1	0.27	480	7306-100	25.55	23.00	21.72
41 D 6170	†1008	1	0.23	900	7307-100	25.55	23.00	21.72
41 D 6171	†1009	1	0.18	1460	7308-100	25.55	23.00	21.72
41 D 6172	†1011	1	0.10	3500	7310-100	25.55	23.00	21.72
41 D 6173	†1013	1	0.067	7200	7312-100	25.55	23.00	21.72
41 D 6176	†2009	2	0.32	1000	7358-100	25.55	23.00	21.72
41 D 6177	†2011	2	0.17	2300	7360-100	25.55	23.00	21.72
41 D 6179	†2107	2	0.8	240	7381-100	25.55	23.00	21.72
41 D 6180	†2112	2	0.22	3300	7386-100	25.55	23.00	21.72

41 D 6181. Type 9MDP51 Hold-Down Bracket. Adapts MDP relays to Barber-Colman socket. 1 oz.................. **Pkg. of 10 for 2.50**

PC IMPULSE RELAYS

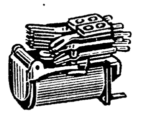


Compact, pulse-operated. DPDT, except *4PDT. Armature and pusher assembly operate phenolic rocker switching from one contact pile to the other on alternate pulses. For on-off or reversing. Pulses may be as short as 60 milli-seconds at 5 cps. Gold-flashed silver cadmium-oxide contacts rated 7.5 amps at 115 volts AC, resistive load. AC coils are for 50-60 cycles. Mtg., two $\frac{5}{32}$" holes on $2\frac{5}{8}$" ctrs. Size: $2\frac{1}{16}$x$2\frac{31}{32}$x$2\frac{5}{64}$". Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6504	PC11A	6 AC	0.6	5.90	5.61	5.31	4.13	3.84
41 D 6728	PC11A	12 AC	2.28	5.90	5.61	5.31	4.13	3.84
41 D 6502	PC11A	24 AC	8.8	5.90	5.61	5.31	4.13	3.84
41 D 6500	PC11A	115 AC	240.0	5.90	5.61	5.31	4.13	3.84
41 D 6726	PC11D	6 DC	4.0	5.70	5.42	5.13	3.99	3.71
41 D 6111	PC11D	12 DC	15.5	5.70	5.42	5.13	3.99	3.71
41 D 6506	PC11D	24 DC	65.0	5.70	5.42	5.13	3.99	3.71
41 D 6503	PC17A*	24 AC	8.8	8.15	7.74	7.34	5.71	5.30
41 D 6501	PC17A*	115 AC	240.0	8.15	7.74	7.34	5.71	5.30
41 D 6507	PC17D*	24 DC	65.0	7.95	7.55	7.16	5.57	5.17

TELEPHONE TYPE RELAYS

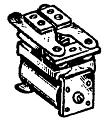
LS MEDIUM-COIL RELAYS



Short springs and lightweight armature for fast action. Stainless steel bearing for long life—100 million operations. Bifurcated palladium contacts: 4 amps at 115 v., 60 cycles, resistive; DC, 4 amps, 150 watts. Nominal coil power, 1.8 watts. Tinned, pierced solder-type terminals. Two 6-32 tapped holes on $\frac{3}{4}$" centers. $1\frac{11}{16}$x$2\frac{1}{8}$x$1\frac{1}{8}$". 5 oz.

Stock No.	Mfr's Type	Coil Volts	Ohms	Action	EACH 1-24	25-499
41 D 7660	LS17D	24 DC	300	4PDT	7.80	6.60
41 D 7661	LS17D	48 DC	1300	4PDT	7.90	6.68
41 D 7663	LS23D	24 DC	300	6PDT	9.65	8.16
41 D 7664	LS23D	48 DC	1300	6PDT	9.75	8.25

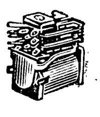
MB MINIATURE DC POWER RELAYS



For very high current applications. Contact arms are heavy brass with large silver contacts. Solder terminals. Rated 60 amps @ 28 v. DC, resistive. SPST, double break, normally open. $1\frac{5}{8}$x$2\frac{7}{32}$x$1\frac{3}{8}$". Mounting: Four 3-48 holes on $\frac{3}{8}$x$\frac{3}{8}$" centers. 3 oz.

Stock No.	Type	Coil Volts	Ohms	Ma	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5059	MB3D	6 DC	13.3	450	5.65	5.37	5.09	3.96	3.67
41 D 5065	MB3D	12 DC	62.3	193	5.80	5.51	5.22	4.06	3.77
41 D 5066	MB3D	24 DC	245.0	98	5.80	5.51	5.22	4.06	3.77
41 D 5067	MB3D	110 DC	5000	22	6.20	5.89	5.58	4.34	4.03

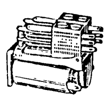
MG SUBMINIATURE DC RELAYS



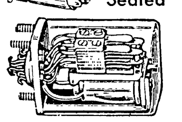
Subminiature telephone-type relay that withstands shock and vibration of 10g from 55 to 500 cps. Temperature range of —55° to +85° C. All are 4PDT, except *DPDT. Contacts are $\frac{3}{32}$" dia. silver, gold-flashed; rated 2 amps @ 28 VDC or 115 VAC resistive. Mounting: 4 tapped No. 3-48 holes on $\frac{3}{8}$" centers. Max. size (open) $1\frac{1}{16}$x$1\frac{1}{16}$x$1\frac{1}{4}$". 2 oz.

Stock No.	Mfr's Type	Coil Volts	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5298	MG11D*	12	90	5.45	5.18	4.91	3.82	3.54
41 D 5299	MG11D*	24	365	5.45	5.18	4.91	3.82	3.54
41 D 5384	MG17D	12	90	7.30	6.97	6.57	5.11	4.75
41 D 5391	MG17D	24	365	7.30	6.97	6.57	5.11	4.75

MH MINIATURE DC RELAYS



Open

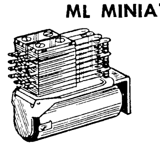


Sealed

Save space and weight. 4PDT, except *6PDT. Two types: open, and hermetically sealed metal housing (denoted by suffix M). Contacts, $\frac{1}{8}$" dia. gold-flashed silver, rated 5 amps. Sealed models have hook-end solder terminals. Mounting: Open types, four 3-48 tapped holes on $\frac{3}{8}$x$\frac{3}{8}$" centers; sealed models, three 6-32 threaded studs on $1\frac{1}{4}$x$\frac{1}{2}$" centers. Sizes: Open models, $1\frac{39}{64}$x$2\frac{5}{32}$x$1\frac{9}{16}$"; sealed models, $1\frac{11}{16}$x$1\frac{1}{32}$x$2\frac{1}{2}$". Wts.: open types, 3 oz.; sealed types, 6 oz.

Stock No.	Type MH-	Coil Volts	Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6054	17D	12 DC	96.0	6.25	5.94	5.63	4.38	4.06
41 D 5936	17D	24 DC	365.0	6.25	5.94	5.63	4.38	4.06
41 D 5935	17DM	6 DC	23.0	12.65	12.02	11.39	8.86	8.22
41 D 6056	17DM	12 DC	96.0	12.65	12.02	11.39	8.86	8.22
41 D 5939	17DM	24 DC	365.0	12.65	12.02	11.39	8.86	8.22
41 D 6061	23D*	12 DC	62.3	7.90	7.51	7.11	5.53	5.14
41 D 6738	23D*	24 DC	245.0	7.90	7.51	7.11	5.53	5.14

ML MINIATURE HIGH-SENSITIVITY DC RELAYS



Excellent sensitivity with outstanding switching capabilities. Type ML11D is DPDT; ML17D is 4PDT. Wide range of uses—ideal for transistorized computer networks, telephone systems, battery-powered communications equipment. Single contact arms have $\frac{1}{8}$" dia. gold-flashed contacts rated at 3 amps (115 v., 60 cycles, resistive) for an estimated mechanical life of 10,000,000 operations. Solder lugs. Mounting: four 3-48 holes on $\frac{3}{8}$" centers. Size, $1\frac{19}{32}$x$\frac{3}{4}$x$1\frac{31}{32}$". Shpg. wt., 3 oz.

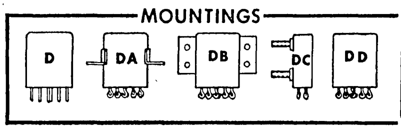
Stock No.	Mfr's Type	Coil Ohms	Coil Ma	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6062	ML11D	2,500	4.0	6.65	6.32	5.99	4.66	4.32
41 D 6063	ML11D	5,000	2.83	6.80	6.46	6.12	4.76	4.42
41 D 6064	ML11D	10,000	2.0	7.15	6.79	6.44	5.01	4.65
41 D 6070	ML17D	2,500	5.65	7.90	7.51	7.11	5.53	5.14
41 D 6081	ML17D	5,000	4.0	8.10	7.70	7.29	5.67	5.27
41 D 6082	ML17D	10,000	2.83	8.40	7.98	7.56	5.88	5.46

Please Specify Mfr's Type and Coil Volts When Ordering Relays

P & B Military Relays and Jonard Relay Tools

POTTER AND BRUMFIELD

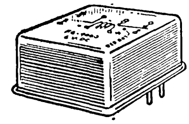
SEALED SC SINGLE-COIL AND SL LATCHING MICRO-MINIATURE DC DPDT RELAYS



SC is single-coil permanent magnet relay, has polarized coil circuit SL magnetic dual-coil latching relay—coils may be series-connected for polar operation. Meet MIL-R-5757D, quality assurance std.—MIL-Q-9858A and MSPC SPEC 339 −65° to +125°C. Breakdown, 1000 v. rms between coil and case and between contact sets. Weigh ¾ oz. Contacts, 3 amps at 28 v. DC; 1 amp at 115 v. 60 cycles, resistive. SC11D 8-pin takes Cinch 54A20730 receptacle; SL11D 11-pin takes Viking P/N VB10/3DV 1 receptacle. *MIL-R-5757/10A. Size, .795x.359x.890". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Ohms	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6820	SC11D	35	6	18.10	17.20	16.29	12.67	11.77
41 D 6822	SC11D	135	12	18.10	17.20	16.29	12.67	11.77
41 D 6591	SC11D	550	24	18.10	17.20	16.29	12.67	11.77
41 D 6826	SC11DA	35	6	18.10	17.20	16.29	12.67	11.77
41 D 6828	SC11DA	135	12	18.10	17.20	16.29	12.67	11.77
41 D 6592	SC11DA	550	24	18.10	17.20	16.29	12.67	11.77
41 D 6832	SC11DB	35	6	18.10	17.20	16.29	12.67	11.77
41 D 6834	SC11DB	135	12	18.10	17.20	16.29	12.67	11.77
41 D 6593	SC11DB	550	24	18.10	17.20	16.29	12.67	11.77
41 D 7639	SC11DC	550	24	18.10	17.20	16.29	12.67	11.77
41 D 7641	SC11DD	550	24	18.10	17.20	16.29	12.67	11.77
41 D 7040	RY4NA3BL01*		24	18.25	17.34	16.43	12.78	11.86
41 D 6821	SL11D	40	6	19.85	18.86	17.87	13.90	12.90
41 D 6823	SL11D	160	12	19.85	18.86	17.87	13.90	12.90
41 D 6594	SL11D	630	24	19.85	18.86	17.87	13.90	12.90
41 D 6827	SL11DA	40	6	19.85	18.86	17.87	13.90	12.90
41 D 6629	SL11DA	160	12	19.85	18.86	17.87	13.90	12.90
41 D 6595	SL11DA	630	24	19.85	18.86	17.87	13.90	12.90
41 D 6833	SL11DB	40	6	19.85	18.86	17.87	13.90	12.90
41 D 6835	SL11DB	160	12	19.85	18.86	17.87	13.90	12.90
41 D 6596	SL11DB	630	24	19.85	18.86	17.87	13.90	12.90
41 D 7640	SL11DC	630	24	19.85	18.86	17.87	13.90	12.90
41 D 7642	SL11DD	630	24	19.85	18.86	17.87	13.90	12.90

MICRO-MINIATURE SEALED DPDT RELAYS



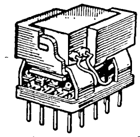
FC Series Relays. Conventional micro-miniature types. Mount flat on printed circuit boards. Plug into 0.2" grid. Hermetically sealed—meet all applicable specifications of MIL-R-5757D, quality assurance standard—MIL-Q-9858A, MSFC-SPEC-339. Have bifurcated contacts of silver-magnesium-nickel alloy rated 3 amps. Pull-in: 160 mw. Ambient temperature range: —65° to +125° C. Shock: 150g for 11 ms; linear acceleration, 400 g; vibration, 30g from 55 to 2000 cps. Size: .485x1.100". Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Ohms	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7045	FC11D	60	6DC	17.90	17.00	16.11	12.53	11.64
41 D 7046	FC11D	210	12DC	17.90	17.00	16.11	12.53	11.64
41 D 7047	FC11D	900	24DC	17.90	17.00	16.11	12.53	11.64

FL Series Latching Relays. Similar to FC Series listed above, but employ dual-coil design. Remain firmly latched in either armature position without applied coil power. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Ohms	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6009	FL11D	67.5	6DC	20.15	19.14	18.14	14.11	13.10
41 D 6010	FL11D	230	12DC	20.15	19.14	18.14	14.11	13.10
41 D 5509	FL11D	1000	24DC	20.15	19.14	18.14	14.11	13.10

TL 4PDT LATCHING RELAYS

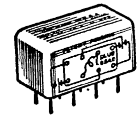


Micro-miniature 4PDT latching relay. Coils are encapsulated and hermetically sealed. Strong magnetic forces in the de-energized relay lock the gold-plated, silver-alloy contacts in the desired position, rendering them impervious to shock well beyond the specified range. Rated 3 amps, at 28VDC resistive load. Temperature range, —65° to +125° C. Meet or exceed applicable sections of MIL-R-5757D and MSFC-SPEC-339. Mounting same as SC/SL types above, left. $1\frac{1}{32}$x$\frac{77}{64}$x¾". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Ohms	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5141	TL17D	600	24DC	28.75	27.31	25.88	20.13	18.69
41 D 5142	TL17DB	600	24DC	28.75	27.31	25.88	20.13	18.69
41 D 5143	TL17DA	600	24DC	28.75	27.31	25.88	20.13	18.69

HC SERIES HALF-SIZE CRYSTAL CAN RELAYS

Stock No.	Mfr's Type	Ohms	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7035	HC11D*	814	24	17.50	16.65	15.75	12.25	11.38
41 D 7036	HC11DA†	814	24	17.50	16.65	15.75	12.25	11.38
41 D 7037	HC11DB‡	814	24	17.50	16.65	15.75	12.25	11.38



Micro-miniature. Meets MIL-R-5757D/9, complies with MSFC-SPEC-339. Bifurcated, gold-plated silver DPDT contacts (2 amps at 28 VDC): *Plug-in case; †solder terminals, shoulder bracket; ‡solder terminals, mtg. plate. Temp., —65° to +125° C. Size, .8x.8x.4". ½ oz.

JONARD RELAY TOOLS AND ACCESSORIES

RELAY SPRING ADJUSTERS (Av. shpg. wt., 3 oz.)

Stock No.	Type	Fig.	Description	Slot Width	EACH
41 D 7344	SA-17	C	For all relay types	.025"	2.95
41 D 7345	SA-16	D	Lengthwise slot	.030"	2.40
41 D 7346	SA-20	E	For closely-set springs	.020", .015"	3.50
41 D 7347	SA-2	F	Gen. type, chisel edge	.023"	2.48
41 D 7352	SA-6A	G	Cross, lengthwise slots	.025"	2.45
41 D 7353	SA-8	H	For heavy springs	.075"	1.98
41 D 7354	SA-7	B	For miniature relays	.015"	.99

[N] **Diamond-Faced Spatulas.** Designed for cleaning relay contacts. Require only a gentle, even pressure to do a thorough cleaning job—contact gap is left unchanged. Type 200 has .019" diamond grain; Type 300, .017"; have two diamond faces. Type 400 has .011" diamond grain. Type 234 is set of one each of the three types, in plastic case. 6" long. *Per set. Shpg. wt., 2 oz.

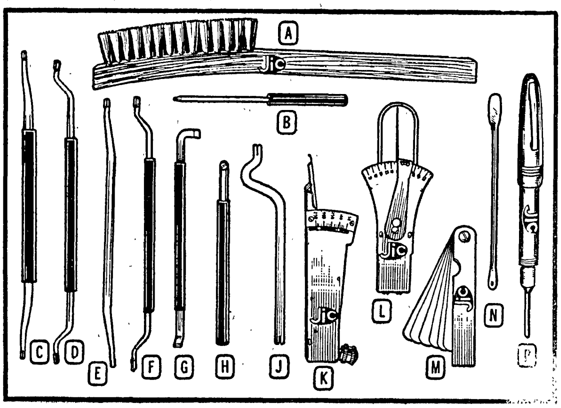
Stock No.	Mfr's Type	Description	EACH
41 D 7328	200	For industrial relays	4.95
41 D 7329	300	For intermediate relays	4.95
41 D 7330	400	For sensitive relays	4.95
41 D 7285	234	Set of one ea.: 200, 300, 400	*14.85

[P] **P-4 and P-6 Pocket Burnishers.** Clean and burnish relay contacts. Steel blades are replaceable. Cleans any type of contact, including precious metals. Leaves no residue on the contact. Chrome-plated barrel with pocket clip; aluminum chuck. Plastic cap permits use with live contacts. Size, ⅜x5½".

P-4 Burnisher. With 12 RB4 (¼"x1¼") blades. 5 oz.
41 D 7355..3.90

P-6 Burnisher. With 12 RB6 ($\frac{3}{16}$x1¾") blades. 5 oz.
41 D 7356..3.90

41 D 7357. RB4 Replacement Blades. 2 oz........Pkg. of 25 for 3.75
41 D 7358. RB6 Replacement Blades. 2 oz........Pkg. of 25 for 3.75



[A] **Nickel-Silver Wire Brush.** Cleans relays. 3 oz.
41 D 7332. WB-65..1.75

41 D 7331. HB-75. Curved Hair Brush. Cleans selector switches. 3 oz. 2.35

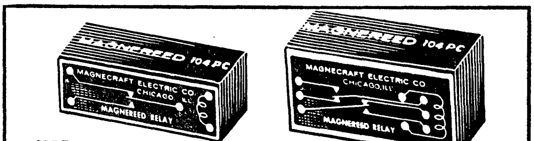
[K] **GP-50 Preset Tension Gauge.** 0-50 grams tension. 3 oz.
41 D 7340..8.45

[L] **G-50 Tension Gauge.** 0-50 grams. Calibrated front, back. 3 oz.
41 D 7342..6.95

[M] **720N Thickness Gauge.** 26 blades, .0015" to .025". 3 oz.
41 D 7341..3.90

Magnecraft Dry and Mercury-Wetted Reed Relays

ENCAPSULATED DRY-REED RELAYS



SPDT DPDT

Feature high sensitivity and fast switching, together with rigid tinned terminals and compact size for printed-circuit board mounting. Switch capsule, coil, and leads encased in epoxy resin.

TYPE W101PCX MINIATURE MAGNEREED

Normally open gold contacts rated 12 VA @ ¼ amp max or 100 v., AC max. Op. time 1 ms; release time ½ ms av. Life: 5,000,000 cycles at max. ratings. Shpg. wt., 3 oz.

SPST TYPES 9/16x½x1½" (Nominal Power 600 mw)

Stock No.	Mfr's Type	Ma or VDC	Coil Ohms	EACH 1-24	25-49	50-74	75-99	100-499
41 D 4061	101PCX-5	6 V	65	5.11	4.60	4.34	4.09	3.58
41 D 4062	101PCX-6	12 V	250	5.16	4.64	4.39	4.13	3.61
41 D 4063	101PCX-7	24 V	1000	5.26	4.73	4.47	4.21	3.68

DPST TYPES 9/16x11/16x1½" (Nominal Power 900 mw)

41 D 4065	101PCX-9	6 V	40	7.15	6.43	6.08	5.72	5.00
41 D 4066	101PCX-10	12 V	150	7.18	6.46	6.10	5.74	5.03
41 D 4067	101PCX-11	24 V	650	7.24	6.52	6.15	5.79	5.07

TYPE W102PCX STANDARD MAGNEREED

N.O. gold contacts rated 15 VA @ 1 amp; 250 VAC max. Op. time 3 ms av.; release ½ ms av. 20,000,000 cy. Shpg. wt., 3 oz.

SPST TYPES 5/8x21/32x2¼" (Nominal Power 400 mw)

41 D 4048	102PCX-1	6 V	100	4.77	4.29	4.05	3.82	3.34
41 D 4049	102PCX-2	12 V	400	4.83	4.35	4.10	3.86	3.38
41 D 4051	102PCX-3	24 V	1500	4.87	4.38	4.14	3.90	3.41

DPST TYPES 5/8x1¼x2¼" (Nominal Power 700 mw)

41 D 4054	102PCX-5	6 V	50	6.22	5.60	5.29	4.98	4.35
41 D 4055	102PCX-6	12 V	200	6.28	5.65	5.34	5.02	4.40
41 D 4059	102PCX-7	24 V	800	6.33	5.70	5.38	5.06	4.43

TYPE W103PCX STANDARD MAGNEREED

Gold contacts rated 10 w. res., 1 amp or 250 v., AC max. Op. time 2 ms av.; release time ½ ms av. 25,000,000 cy. 3 oz.

SPDT TYPES 5/8x21/32x2¼" (Nominal Power 400 mw)

41 D 4114	103PCX-1	6 V	100	7.22	6.50	6.14	5.78	5.05
41 D 4115	103PCX-2	12 V	400	7.27	6.54	6.18	5.82	5.09
41 D 4116	103PCX-3	24 V	1500	7.32	6.59	6.22	5.86	5.12
41 D 4117	103PCX-4	6.5 Ma	5000	7.77	6.98	6.60	6.21	5.43

DPDT TYPES 5/8x1¼x2¼" (Nominal Power 700 mw)

41 D 4118	103PCX-5	6 V	50	10.77	9.69	9.15	8.62	7.54
41 D 4119	103PCX-6	12 V	200	10.79	9.71	9.17	8.63	7.55
41 D 4120	103PCX-7	24 V	800	10.84	9.76	9.21	8.67	7.59
41 D 4121	103PCX-8	9.0 Ma	5000	11.31	10.18	9.61	9.05	7.92

TYPE W104PCX MINIATURE MAGNEREED

Gold contacts rated 3 VA @ 0.25 amps or 28 v., AC maximum. Operate and release time 1 ms. Av. shpg. wt., 3 oz.

SPDT 9/16x½x1½" (Nominal Power 600 mw)

41 D 4068	104PCX-7	6 v.	100	10.07	9.06	8.56	8.06	7.05
41 D 4069	104PCX-8	12 v.	225	10.12	9.11	8.60	8.10	7.08
41 D 4070	104PCX-9	24 v.	1000	10.22	9.20	8.69	8.18	7.15
41 D 4073	104PCX-10	8 Ma	5000	10.64	9.58	9.05	8.51	7.45

DPST TYPES 9/16x11/16x1½" (Nominal Power 900 mw)

41 D 4079	104PCX-3	6 v.	40	14.59	13.13	12.40	11.67	10.21
41 D 4080	104PCX-4	12 v.	150	14.62	13.16	12.43	11.70	10.23
41 D 4081	104PCX-5	24 v.	650	14.68	13.21	12.48	11.74	10.29
41 D 4090	104PCX-6	8 Ma	5000	15.13	13.62	12.86	12.10	10.59

W131MPCX MINIATURE MERCURY-WETTED MAGNEREED

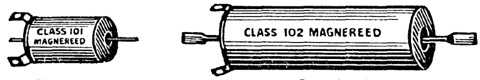
Mercury-wetted contact, printed circuit relays. Contacts rated at 28 VA, 1.0 amp, or 100 volts max., resistive. Operate and release time 1 ms, average. No contact bounce. Life rated at load, 100 million cycles. All N.O. Shpg. wt., 4 oz.

SPST TYPES 9/16x½x1½"

41 D 4422	131PCX-8	6VDC	65	8.38	7.54	7.12	6.70	5.87
41 D 4423	131PCX-9	12VDC	250	8.44	7.60	7.71	6.75	5.91
41 D 4424	131PCX-10	24VDC	1000	8.55	7.70	7.27	6.84	5.99
41 D 4425	131PCX-11	8.0 Ma	5000	9.01	8.11	7.66	7.21	6.31

DPST 9/16x11/16x1½"

41 D 4426	131PCX-12	6VDC	40	10.62	9.56	9.03	8.50	7.43
41 D 4427	131PCX-13	12VDC	150	10.66	9.59	9.06	8.53	7.46
41 D 4428	131PCX-14	24VDC	650	10.71	9.64	9.10	8.57	7.50
41 D 4429	131PCX-15	8.0 Ma	5000	11.21	10.09	9.53	8.97	7 85



Miniature Standard

TYPE W101X—SPST ACTION, MINIATURE MAGNEREED

N.O. Gold contacts rated at 12 VA at ¼-amp or 100 v., AC max. Operating time 1 ms. average, release time ½ ms. average, nominal power. 600 mw. Life expectancy: 5 million cycles at max rating, 20 million cycles at ½ rating. 1½x7/16" diameter. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Coil Ma DC	Coil V. DC	Coil Res. Ohms	EACH 1-24	25-49	50-74	75-99	100-499
41 D 4002	101X-1	46	6	100	3.29	2.96	2.80	2.63	2.30
41 D 4004	101X-2	30	12	250	3.29	2.96	2.80	2.63	2.30
41 D 4007	101X-3	20	24	500	3.85	3.46	3.27	3.08	2.69

TYPE W102X—SPST ACTION, STANDARD MAGNEREED

N.O. Gold contacts rated 15 VA at 1 amp or 250 v., AC, max. Operating time 3 ms. av., release time less than ½ ms, av., nominal power 300 mw. 20 million cycles at max rating. 3¼x5/8" dia. 3 oz.

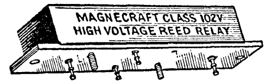
41 D 4013	102X-1	32	...	100	2.57	2.31	2.18	2.06	1.80
41 D 4014	102X-2	23	6	200	2.57	2.31	2.18	2.06	1.80
41 D 4021	102X-3	14.5	12	500	2.57	2.31	2.18	2.06	1.80
41 D 4022	102X-4	7.5	24	2000	2.70	2.43	2.29	2.16	1.89
41 D 4025	102X-5	4.6	...	5000	3.25	2.92	2.76	2.60	2.27

TYPE W103X—SPDT ACTION, STANDARD MAGNEREED

Gold contacts rated 10 w. resistive load. 1 amp or 250 v., AC max. Operating and release time 2 ms and ½ ms. av. each. Nom. power 300 mw.—25 million cycles at max rating. 3½x½". 3 oz.

41 D 4026	103X-8	32	...	100	4.54	4.09	3.86	3.63	3.18
41 D 4028	103X-9	23	6	200	4.75	4.28	4.04	4.80	3.33
41 D 4029	103X-10	14.5	12	500	5.22	4.70	4.44	4.18	3.65
41 D 4030	103X-11	7.5	24	2000	5.66	5.09	4.81	4.53	3.96
41 D 4031	103X-12	4.6	...	5000	5.79	5.21	4.92	4.63	4.05

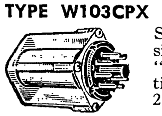
NEW TYPE 102V SPST HIGH-VOLTAGE REED RELAY



Normally-open contacts rated 50 VA at 5000 VDC maximum, or 3 amps max., resistive load. Operate time, 3 ms average; release time, 0.5 ms average. Life expectancy: 20-million operations, rated load. Internally insulated metal cover protects reed and coil assembly, shields relay. 4½x15/16x7/8". 3 oz.

41 D 4482	102VX-9	140.0	...	30	13.69	12.32	11.64	10.95	9.58
41 D 4483	102VX-10	.....	6	70	13.69	12.32	11.64	10.95	9.58
41 D 4484	102VX-11	.....	12	250	13.73	12.36	11.67	10.98	9.61
41 D 4485	102VX-12	.....	24	1000	13.78	12.40	11.71	11.02	9.65
41 D 4486	102VX-13	.....	48	4000	14.15	12.74	12.03	11.32	9.91
41 D 4487	102VX-14	9.0	...	7000	14.58	13.12	12.66	11.66	10.21

TYPE W103CPX ENCLOSED PLUG-IN MAGNEREED RELAY



Similar to W103X above, with plug-in mtg. Consist of 2 or 3 Type 103 relays with common coil, in "High impact" plastic housing. Oper. release times less than 3-ms., each. Nom. power, 300 mw. 2⅛x1⅜x1⅜". 6 oz.

DPDT TYPES—8-PIN OCTAL PLUGS

Stock No.	Mfr's Type	Ma or VDC	Coil Ohms	EACH 1-24	25-49	50-74	75-99	100-499
41 D 4033	103CPX-7	6 V	75	12.92	11.63	10.98	10.34	9.04
41 D 4036	103CPX-8	12 V	300	12.95	11.66	11.01	10.36	9.07
41 D 4039	103CPX-9	24 V	1000	13.01	11.71	11.06	10.41	9.11
41 D 4040	103CPX-10	8 Ma	5000	13.57	12.21	11.53	10.86	9.50

3PDT TYPES—11-PIN PLUGS

41 D 4042	103CPX-12	12 V	150	16.83	15.15	14.31	13.46	11.78
41 D 4043	103CPX-13	24 V	650	16.95	15.26	14.41	13.56	11.87
41 D 4047	103CPX-14	10 Ma	5000	17.50	15.75	14.86	14.00	12.25

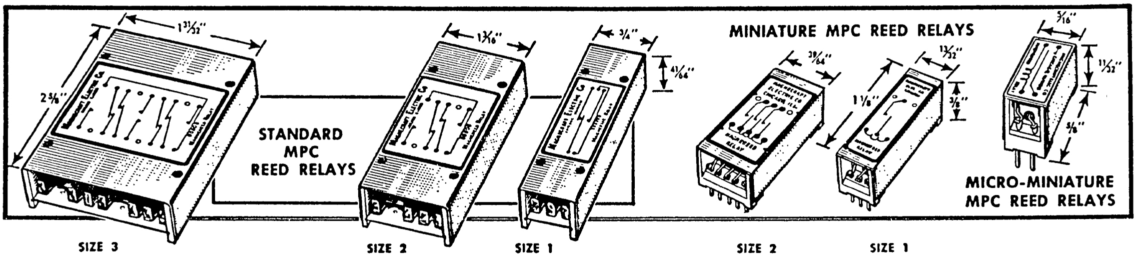
MOLDED EPOXY REED RELAYS

Fully encapsulated in epoxy resin, highly resistant to mechanical shock, excessive humidity and corrosive atmospheres. With gold-alloy contacts. Type 104: SPDT, 3 volt-amperes maximum at 250 milliamperes or 28 v. max. non-inductive. 1 ms., operate and release time. *Ma. 1x7/16" diameter. Type 105: SPST-NO, 100 millivolt-amperes maximum at 10 milliamperes or 12 volts maximum. Less than 500 microseconds operate and release time. 7/16x¼" diameter.

41 D 4016	104EPX-2	6	65	7.37	6.63	6.26	5.90	5.16
41 D 4017	104EPX-3	12	225	7.37	6.63	6.26	5.90	5.16
41 D 4018	104EPX-4	24	1000	8.05	7.25	6.84	6.44	5.64
41 D 4019	104EPX-5	*8.0	5000	8.55	7.70	7.27	6.84	5.99
41 D 4889	105EPX-1	6	90	6.18	5.56	5.25	4.94	4.33
41 D 4890	105EPX-2	12	350	6.18	5.56	5.25	4.94	4.33
41 D 4891	105EPX-3	24	1300	6.30	5.67	5.36	5.04	4.41

Phone, Wire or Write for Prices on Relays in Larger Quantities than Shown

Magnecraft Low-Cost Dry and Wetted Reed Relays



- Snap-On Steel Enclosure Prevents Interaction with Other Relays
- Tough One-Piece Molded Design to Eliminate Damage in Handling
- Reed Relays Supplied in Very Compact Modular Packages
- Terminal Pins on 0.2″ Grid Centers for Printed-Circuit Plug-In Mounting

STANDARD SIZE 1. 2⅝x41⁄64x¾″. STANDARD SIZE 2. 2⅝x41⁄64x1 3⁄16″. STANDARD SIZE 3. 2⅝x41⁄64x1 31⁄32″.

STANDARD MAGNEREED DRY REED RELAYS

SERIES 102MPC SPST N.O. Operate time, less than 4 milliseconds. Release, less than 1 millisecond. Gold contacts—rated 15 watts resistive at 1 amp, or 250 VAC. Life expectancy, 20 million cycles at maximum rating. ½-watt nom. DC. Size 1. Wt., 3 oz.

Stock No.	Mfr's Type	Coil VDC	Coil Ohms	EACH 1-24	25-49	50-74	75-99	100-499
41 D 4451	102MPCX6	6	70	3.29	2.96	2.79	2.63	2.30
41 D 4452	102MPCX7	12	250	3.29	2.96	2.79	2.63	2.30
41 D 4453	102MPCX8	24	1000	3.29	2.96	2.79	2.63	2.30
41 D 4454	102MPCX9	48	4000	3.46	3.11	2.94	2.77	2.42

SERIES 102MPC 3PST N.O. Size 2. ¾-watt nom. DC. 4 oz.

41 D 4850	102MPCX48	6	50	5.62	5.06	4.78	4.50	3.94
41 D 4851	102MPCX49	12	175	5.63	5.07	4.79	4.51	3.95
41 D 4852	102MPCX50	24	750	5.77	5.20	4.91	4.62	4.04
41 D 4853	102MPCX51	48	3000	5.97	5.38	5.08	4.78	4.18

SERIES 102MPC 6PST N.O. Size 3. 1½-watt nom. DC. 5 oz.

41 D 4854	102MPCX52	6	25	9.18	8.27	7.81	7.35	6.43
41 D 4855	102MPCX53	12	100	9.30	8.37	7.91	7.44	6.51
41 D 4856	102MPCX54	24	375	9.35	8.42	7.95	7.48	6.55
41 D 4857	102MPCX55	48	1500	9.43	8.49	8.02	7.55	6.61

SERIES 103MPC SPDT. Operate and release time, less than 3 milliseconds. Contact bounce, 4 millisecond max. on release. Gold contacts rated 10 VA, AC resistive; 10 watt DC resistive up to ½ amp and/or 250 v. Life; 25 million cycles at max. rating. ½-watt nom. DC. Size 2. Shpg. wt., 3 oz.

41 D 4457	103MPCX2	6	70	5.83	5.25	4.96	4.66	4.08
41 D 4458	103MPCX3	12	250	5.83	5.25	4.96	4.66	4.08
41 D 4459	103MPCX4	24	1000	5.83	5.25	4.96	4.66	4.08
41 D 4460	103MPCX5	48	4000	6.00	5.40	5.10	4.80	4.20

SERIES 103MPC DPDT. Size 2. ¾-watt nom. DC. 4 oz.

41 D 4858	103MPCX30	6	50	8.33	7.50	7.09	6.67	5.84
41 D 4859	103MPCX31	12	100	8.33	7.50	7.09	6.67	5.84
41 D 4860	103MPCX32	24	375	8.47	7.63	7.20	6.78	5.93
41 D 4861	103MPCX33	48	1000	8.67	7.81	7.37	6.94	6.07

SERIES 103MPC 4PDT. Size 3. 1½-watt nom. DC. 5 oz.

41 D 4862	103MPCX34	6	25	14.60	13.14	12.41	11.68	10.22
41 D 4863	103MPCX35	12	100	14.70	13.23	12.50	11.76	10.29
41 D 4864	103MPCX36	24	375	14.77	13.29	12.55	11.82	10.34
41 D 4865	103MPCX37	48	1500	14.88	13.40	12.65	11.91	10.42

TYPE 103LMPC MAGNETIC LATCHING REED RELAY

SPDT bi-stable reed relay requires no coil current to hold contacts in either of two latching positions. Available with single-wound coils for switching upon polarity reversal, or double-wound coils having separate polarized windings. Contacts rated 10 VA at 200 v., maximum, or 0.2 amp maximum. Life expectancy: 25-million operations at rated load. Steel cover for mechanical protection and magnetic shielding. Size 1. *Ma.

41 D 4408	103LMPCX4	6	250	7.07	6.36	6.01	5.66	4.95
41 D 4409	103LMPCX5	12	1000	7.07	6.36	6.01	5.66	4.95
41 D 4410	103LMPCX6	24	4000	7.26	6.53	6.17	5.81	5.08
41 D 4413	103LMPCX9	6	120/120	8.33	7.50	7.08	6.66	5.83
41 D 4414	103LMPCX10	12	460/460	8.33	7.50	7.08	6.66	5.83
41 D 4415	103LMPCX11	24	1800/1800	9.00	8.10	7.65	7.20	6.30
41 D 4416	103LMPCX12	8*	3000/3000	10.04	9.04	8.53	8.03	7.03

STANDARD SIZE RELAYS (cont'd)

SERIES 102RMP POWER REED RELAYS. SPST N.O. Size 1. ½-watt nom. DC. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Coil VDC (Ma*)	Coil Res. Ohms	EACH 1-24	25-49	50-74	75-99	100-499
41 D 4866	102RMPCX1	6	70	7.87	7.08	6.69	6.30	5.51
41 D 4867	102RMPCX2	12	250	7.88	7.09	6.70	6.31	5.52
41 D 4868	102RMPCX3	24	1000	7.93	7.14	6.74	6.34	5.55
41 D 4869	102RMPCX4	48	4000	8.18	7.36	6.95	6.54	5.73

MAGNEREED MERCURY-WETTED REED RELAYS

Operate/release time, 2 millisecond average. Operating position, upright (can be operated at up to 30° from vertical). Life expectancy, more than 1 billion operations. Contacts, mercury. Contact resistance, 25 milliohms max. Std. size 1. Shpg. wt., 4 oz.

SERIES 132MPC SPST N.O. 25 VA at up to 400 v., AC resistive.

41 D 4462	132MPCX1	140*	30	5.83	5.25	4.96	4.66	4.08
41 D 4463	132MPCX2	6	70	5.83	5.25	4.96	4.66	4.08
41 D 4464	132MPCX3	12	250	5.83	5.25	4.96	4.66	4.08
41 D 4465	132MPCX4	24	1000	5.83	5.25	4.96	4.66	4.08
41 D 4466	132MPCX5	48	4000	6.00	5.40	5.10	4.80	4.20

SERIES 133MPC SPDT. 50 VA at up to 400 v., AC resistive.

41 D 4468	133MPCX1	140*	30	8.42	7.58	7.16	6.74	5.89
41 D 4469	133MPCX2	6	70	8.42	7.58	7.16	6.74	5.89
41 D 4470	133MPCX3	12	250	8.42	7.58	7.16	6.74	5.89
41 D 4471	133MPCX4	24	1000	8.42	7.58	7.16	6.74	5.89
41 D 4472	133MPCX5	48	4000	8.60	7.74	7.31	6.88	6.02

MINIATURE DRY-REED RELAYS

MINIATURE SIZE 1. 1⅛x1 3⁄32x⅜″. MINIATURE SIZE 2. 1⅛x39⁄64x⅜″.

SERIES 101MPC SPST N.O. Operate time, 1 millisecond, av.; release time, .5 millisecond, av. Contact load rating: 10 VA max. at 250 ma or 100 volts max., non-inductive. Contact bounce, .5 millisecond, av. ½-watt nom. DC. Size 1. Shpg. wt., 2 oz.

41 D 4870	101MPCX1	6	70	3.60	3.24	3.06	2.88	2.52
41 D 4871	101MPCX2	12	300	3.60	3.24	3.06	2.88	2.52
41 D 4872	101MPCX3	24	1100	3.63	3.27	3.09	2.90	2.54
41 D 4873	101MPCX4	48	4300	3.77	3.39	3.20	3.02	2.64

SERIES 101MPC 3PST. Size 2. .7-watt nom. DC. Wt., 3 oz.

41 D 4874	101MPCX5	6	50	6.75	6.08	5.74	5.40	4.73
41 D 4875	101MPCX6	12	220	6.75	6.08	5.74	5.40	4.73
41 D 4876	101MPCX7	24	850	6.77	6.09	5.75	5.42	4.74
41 D 4877	101MPCX8	48	3300	6.85	6.17	5.82	5.48	4.80

SERIES 104MPCX SPDT. Operate/release time, 1 millisecond, av. Contact bounce: N.O., 0.5 millisecond; NC. 2 milliseconds. Rated 3 VA max. at 250 ma or 28 volts max. Rated load, 10 million cycles. ½-watt nom. DC. Size 1. Shpg. wt., 2 oz.

41 D 4878	104MPCX1	6	70	6.82	6.14	5.80	5.46	4.77
41 D 4879	104MPCX2	12	300	6.83	6.15	5.81	5.46	4.78
41 D 4880	104MPCX3	24	1100	6.85	6.17	5.82	5.48	4.80
41 D 4881	104MPCX4	48	4300	6.98	6.28	5.93	5.58	4.89

SERIES 104MPCX DPDT. Size 2. .7-watt nom. DC. 3 oz.

41 D 4882	104MPCX5	6	50	11.62	10.46	9.88	9.30	8.13
41 D 4883	104MPCX6	12	220	11.63	10.47	9.89	9.30	8.14
41 D 4884	104MPCX7	24	850	11.65	10.49	9.90	9.32	8.16
41 D 4885	104MPCX8	48	3300	11.73	10.56	9.97	9.38	8.21

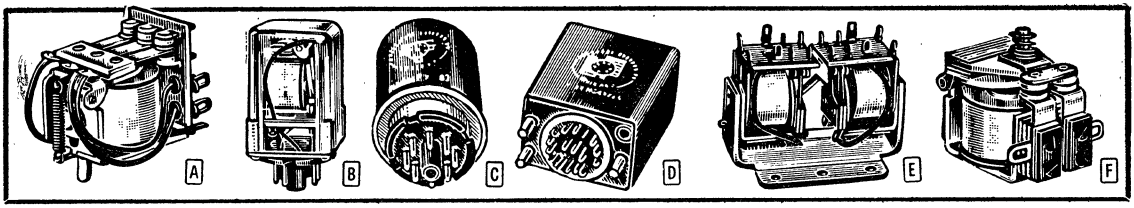
MICRO-MINIATURE DRY REED RELAYS

SERIES 105MPC SPST N.O. Operate time, 250 microseconds, av. Release time, 500 microseconds, av. Rating: 0.1 VA max. at 10 ma or 12 volts max. .3-watt nom. DC. ⅝x1 1⁄32x5⁄16″. Wt., 2 oz.

41 D 4886	105MPCX1	6	120	5.45	4.91	4.63	4.36	3.82
41 D 4887	105MPCX2	12	500	5.47	4.92	4.65	4.38	3.83
41 D 4888	105MPCX3	24	2000	5.58	5.02	4.74	4.46	3.91

Write for Prices on Quantities of 500-999

Magnecraft Relays



[A] TYPE W88 ALL-PURPOSE OPEN RELAYS

Versatile, low-cost clapper-type relays provide high reliability and long-life adjustment stability. Silver alloy contacts rated 10 amps. Nom. power for AC units, 3VA; DC, 1.5 w; plate-circuit types: SPDT, 125 mw; DPDT, 250 mw; 3PDT, 375 mw. *Coil ohms of plate circuit types. Tinned solder terminals; mount by one #6-32 tapped hole with locating lug. Size, $1\frac{1}{4}$x$1\frac{3}{16}$x$1\frac{3}{4}$". Av. shpg. wt., 3 oz.

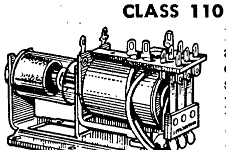
Stock No.	Mfr's Type W88-	Coil Volts	Action	EACH 1-9	10-24	25-49	50-99	100-499
41 D 4317	AX-3	24 AC	SPDT	3.50	3.15	2.98	2.80	2.45
41 D 4318	AX-4	115 AC	SPDT	3.66	3.29	3.11	2.93	2.56
41 D 4320	X-3	12 DC	SPDT	3.20	2.88	2.72	2.56	2.24
41 D 4321	X-4	24 DC	SPDT	3.28	2.95	2.79	2.62	2.30
41 D 4339	X-14	2500*	SPDT	3.75	3.38	3.19	3.00	2.62
41 D 4340	X-15	5000*	SPDT	3.85	3.47	3.27	3.08	2.69
41 D 4341	X-16	10K*	SPDT	4.25	3.83	3.61	3.40	2.97
41 D 4326	AX-8	115 AC	DPDT	4.27	3.84	3.63	3.42	2.99
41 D 4328	X-7	12 DC	DPDT	3.73	3.36	3.17	2.98	2.61
41 D 4329	X-8	24 DC	DPDT	3.79	3.41	3.22	3.03	2.65
41 D 4330	X-9	110 DC	DPDT	4.36	3.92	3.71	3.49	3.05
41 D 4342	X-17	2500*	DPDT	4.01	3.61	3.41	3.21	2.81
41 D 4343	X-18	5000*	DPDT	4.11	3.70	3.49	3.29	2.88
41 D 4344	X-19	10K*	DPDT	4.51	4.06	3.83	3.61	3.16
41 D 4333	AX-11	24 AC	3PDT	4.62	4.16	3.93	3.70	3.23
41 D 4334	AX-12	115 AC	3PDT	4.77	4.29	4.05	3.82	3.34
41 D 4336	X-11	12 DC	3PDT	4.17	3.75	3.54	3.34	2.92
41 D 4337	X-12	24 DC	3PDT	4.21	3.79	3.58	3.37	2.95

[B] TYPE W88P PLUG-IN ENCLOSED RELAYS

Same as W88 relays above, but with high-impact plastic cover. SPDT and DPDT units use standard octal plug; 3PDT has 11-pin. *ANCPX-type has neon indicator. $2\frac{1}{8}$x$1\frac{3}{8}$x$1\frac{3}{8}$". Wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	Action	1-9	10-24	25-49	50-99	100-499
41 D 4365	ACPX-4	115 AC	SPDT	5.79	5.21	4.92	4.63	4.05
41 D 4369	CPX-3	24 DC	SPDT	5.40	4.86	4.59	4.32	3.78
41 D 4389	CPX-13	7.2 ma	SPDT	5.90	5.31	5.02	4.72	4.13
41 D 4374	ACPX-8	115 AC	DPDT	6.44	5.80	5.47	5.15	4.51
41 D 4375	ANCPX-2*	115 AC	DPDT	7.29	6.56	6.20	5.83	5.10
41 D 4377	CPX-6	12 DC	DPDT	5.85	5.27	4.97	4.68	4.10
41 D 4378	CPX-7	24 DC	DPDT	5.95	5.36	5.06	4.76	4.17
41 D 4379	CPX-8	110 DC	DPDT	6.51	5.86	5.53	5.21	4.56
41 D 4392	CPX-16	10.0 ma	DPDT	6.30	5.67	5.36	5.04	4.41
41 D 4393	CPX-17	7.2 ma	DPDT	6.40	5.76	5.44	5.12	4.48
41 D 4394	CPX-18	5.0 ma	DPDT	6.80	6.12	5.78	5.44	4.76
41 D 4383	ACPX-12	115 AC	3PDT	7.97	7.17	6.77	6.38	5.58
41 D 4386	CPX-10	12 DC	3PDT	7.28	6.55	6.19	5.82	5.10
41 D 4387	CPX-11	24 DC	3PDT	7.38	6.64	6.27	5.90	5.17
41 D 4395	CPX-19	12.3 ma	3PDT	7.70	6.93	6.55	6.16	5.39
41 D 4396	CPX-20	8.7 ma	3PDT	7.80	7.02	6.63	6.24	5.46
41 D 4397	CPX-21	6.1 ma	3PDT	8.20	7.38	6.97	6.56	5.74

CLASS 110 TIME-DELAY RELAYS



Have *air-dashpot* adjustable time-delays and chatterproof, magnetic snap-action contacts. Instant recycling. Timing starts when coil energizes; contacts pull in at end of pre-set period; contacts drop out when coil de-energizes. Contacts make or break with positive magnetic snap action. Single screw adjusts time delay from 0.2 to 30 seconds, with repeat accuracy of ±10%. Operating temp.: 0° to 50° C. DPDT silver-cadmium oxide contacts rated 10 amps. AC relays have built-in diode rectification. Power: DC, 4 watts; AC, 7 VA. *Plug-in octal. †Screw terminals. Both types have metal dust covers. Shpg. wt., 1 lb. ‡Open type with solder terminals. Shpg. wt., 7 oz.

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-99	100-249
41 D 4191	*W110ACPX-9	115 AC	29.79	26.81	25.32	23.84	22.34
41 D 4194	†W110ACSX-1	115 AC	30.07	27.06	25.56	24.06	22.55
41 D 4197	‡W110AX-9	115 AC	20.91	18.82	17.77	16.73	15.68
41 D 4198	‡W110X-9	24 DC	17.75	15.97	15.09	14.20	13.31
41 D 4199	‡W110X-10	110 DC	18.34	16.51	15.59	14.67	13.75

[C] TYPE W88H SEALED DPDT PLUG-IN RELAYS

Silver alloy contacts rated 10 amps—hermetically sealed for long life. Nominal power: AC units, 3 VA; DC, 1.5 watts. Internal construction similar to that used on top-quality telephone-type relays. 8-pin octal socket. Size, $2\frac{1}{32}$x$1\frac{11}{16}$". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Coil Volts	Ohm	EACH 1-9	10-24	25-49	50-99	100-249
41 D4474	W88AHPX-21	6 AC	.....	8.59	7.73	7.30	6.87	6.44
41 D4475	W88AHPX-22	12 AC	.....	8.59	7.73	7.30	6.87	6.44
41 D4476	W88AHPX-23	24 AC	.....	8.64	7.78	7.34	6.91	6.48
41 D4477	W88AHPX-24	115 AC	.....	8.79	7.91	7.47	7.03	6.59
41 D4479	W88HPX-33	12 DC	100	8.19	7.37	6.96	6.55	6.14
41 D4480	W88HPX-34	24 DC	400	8.24	7.42	7.00	6.59	6.18
41 D4481	W88HPX-35	110 DC	8K	9.29	8.36	7.90	7.43	6.50

[D] TYPE W11H SEALED MINIATURE DC RELAYS

5-amp silver alloy contacts. *4PDT types have 14-pin glass insulated solder terminal header; nominal power, 1.5 w. $2\frac{1}{16}$x$1\frac{3}{4}$x$1\frac{5}{8}$". †6PDT have 20-pin header; nominal power, 2.5 watts. $2\frac{3}{8}$x$1\frac{47}{64}$x$1\frac{15}{64}$". Use three 6-32 mounting studs. 6 oz.

41 D4094	W11HSX322	12 DC*	100	15.97	14.37	13.57	12.78	11.98
41 D4095	W11HSX323	24 DC*	400	15.97	14.37	13.57	12.78	11.98
41 D4098	W11HSX327	12 DC†	56	19.91	17.92	16.92	15.93	14.93
41 D4099	W11HSX328	24 DC†	280	19.96	17.96	16.97	15.97	14.97

[D] TYPE W22H SEALED POWER RELAYS

Small relays with silver alloy 5-amp contacts. 4PDT action. Terminals brought out to 14-pin glass insulated header. Nominal power: AC type, 5VA; 6 v. and 12 v., DC, 2 w.; 24 v. and 110 v., DC, 1.5 w. Three 6-32 mtg. studs. $2\frac{11}{16}$x$1\frac{5}{8}$x$1\frac{7}{16}$". 6 oz.

41 D4101	W22AHSX32	115 AC	500	17.30	15.57	14.71	13.84	12.98
41 D4104	W22HSX146	24 DC	375	17.05	15.35	14.49	13.64	12.79

[D] TYPE W33H SEALED SUBMINIATURE DC RELAYS

Sealed relays with 5-amp silver alloy contacts. *DPDT units have 8-pin glass insulated solder hook terminal header; †4PDT have 14-pin header. Nominal power required, 3-watts. Have three #4-40 mounting studs. Size, $1\frac{41}{64}$x$1\frac{11}{32}$x$\frac{31}{32}$". 5 oz.

41 D4107	W33HSX178	12 DC*	75	13.21	11.89	11.23	10.57	9.91
41 D4108	W33HSX179	24 DC*	280	13.26	11.93	11.27	10.61	9.95
41 D4111	W33HSX182	12 DC†	75	16.65	14.99	14.15	13.32	12.49
41 D4112	W33HSX183	24 DC†	280	16.70	15.03	14.20	13.36	12.53

[E] TYPE W88L CONTINUOUS-DUTY LATCHING RELAYS

Two 88-relays with independent operating coils and interlocking latch-in levers mounted on single base. Energizing one armature releases (resets) other. 10-amp silver alloy contacts. Nominal power AC units, 6 VA; DC, 3 w. $1\frac{15}{16}$x$1\frac{3}{4}$x$2\frac{11}{16}$". Av. shpg. wt., 6 oz.

4PDT ACTION

Stock No.	Mfr's Type W88-	Coil Volts	Ohms	EACH 1-9	10-24	25-49	50-99	100-249	250-499
41 D4349	ALX-3	24 AC	...	10.60	9.54	9.01	8.48	7.95	7.42
41 D4350	ALX-4	115 AC	...	10.60	9.54	9.01	8.48	7.95	7.42
41 D4352	LX-2	12 DC	50	9.65	8.68	8.20	7.72	7.24	6.76
41 D4353	LX-3	24 DC	200	9.65	8.68	8.20	7.72	7.24	6.76
41 D4354	LX-4	110 DC	400	10.85	9.76	9.22	8.68	8.14	7.60

6PDT ACTION

41 D4356	ALX-6	24 AC	...	12.80	11.52	10.88	10.24	9.60	8.96
41 D4357	ALX-7	115 AC	...	12.80	11.52	10.88	10.24	9.60	8.96
41 D4358	LX-5	6 DC	12	11.75	10.57	9.99	9.40	8.81	8.23
41 D4359	LX-6	12 DC	50	11.75	10.57	9.99	9.40	8.81	8.23
41 D4360	LX-7	24 DC	200	11.75	10.57	9.99	9.40	8.81	8.23

[F] TYPE W88D HEAVY-DUTY POWER RELAYS

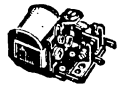
Positive wiping, 50-amp double-break contacts. SPST, normally open, action. Nominal power: AC units, 3 VA; DC, 1.5 w. Solder terminals; #6-32 mtg. hole, locating lug. $1\frac{7}{16}$x$1\frac{1}{4}$x$1\frac{13}{16}$". Wt., 4 oz.

41 D4084	ADX-1	24 AC	...	5.15	4.64	4.38	4.12	3.86	3.61
41 D4085	ADX-2	115 AC	...	5.25	4.73	4.46	4.20	3.94	3.68
41 D4088	DX-2	12 DC	100	4.65	4.19	3.95	3.72	3.49	3.26
41 D4089	DX-3	24 DC	400	4.70	4.23	4.00	3.76	3.53	3.29

Phone or Wire for Prices on Magnecraft Relays in Quantities Larger Than Shown

Special and General-Purpose Relays SIGMA

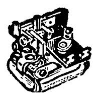
TYPE 4 PLATE-CIRCUIT RELAYS



DC relays for 20 mw applications. For vacuum tube plate circuits, transistor circuits with high idle current and applications requiring high release or stable trip values. 2-amp SPDT contacts. Type 4F unenclosed; for screw mtg.; solder terminal and coil lead conn. 1 5/32x1 5/8x1½". Shpg. wt., 3 oz. Type 4R not illus. has aluminum dust cover; 5-pin plug-in mounting. U.L. Listed. For use in burglary protection equipment. 1½x1½x2 9/16". Wt., 5 oz.

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6377	4F-1000-S/SIL	4.5	6.50	6.17	5.85	5.20	4.55
41 D 6378	4F-2500-S/SIL	3.0	6.50	6.17	5.85	5.20	4.55
41 D 6379	4F-5000-S/SIL	2.0	6.85	6.50	6.17	5.48	4.80
41 D 5285	4F-8000-S/SIL	1.6	7.10	6.74	6.39	5.68	4.97
41 D 6127	4F-10,000-S/SIL	1.4	7.10	6.74	6.39	5.68	4.97
41 D 6264	4R-1000-S/SIL	4.5	8.90	8.45	8.01	7.12	6.23
41 D 6429	4R-5000-S/SIL	2.0	9.20	8.74	8.28	7.36	6.44
41 D 6467	4R-8000-S/SIL	1.6	9.45	8.98	8.51	7.56	6.62
41 D 6470	4R-10,000-S/SIL	1.4	9.45	8.98	8.51	7.56	6.62

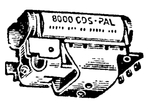
TYPE 5 EXTRA-SENSITIVE RELAYS



SPDT general purpose DC relays. Withstand shocks to 100g. Silver contacts rated 1 amp except *.25 amp. U.L. Listed for use in burglary protection equipment. Type 5F has screw mtg.; solder term. 1 11/16x1¾x1 5/16". Shpg. wt., 3 oz. Type 5R, not illus. has aluminum dust cover; 5-pin plug-in mtg. 1½x1½x2¼". Shpg. wt., 5 oz.

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6380	5F-1000-S/SIL	2.3	9.25	8.79	8.33	7.40	6.48
41 D 6412	5F-1000-SS/PAL	1.0*	10.50	9.98	9.45	8.40	7.35
41 D 6381	5F-2500-S/SIL	1.4	9.25	8.79	8.33	7.40	6.48
41 D 6382	5F-5000-S/SIL	1.0	9.90	9.40	8.91	7.92	6.93
41 D 6383	5F-10,000-S/SIL	0.7	10.85	10.30	9.77	8.68	7.60
41 D 6413	5F-10,000-SS/PAL	0.3*	12.10	11.50	10.89	9.68	8.47
41 D 6468	5F-16,000-S/SIL	0.55	11.70	11.11	10.53	9.36	8.19
41 D 6469	5R-1000-S/SIL	2.3	11.70	11.11	10.53	9.36	8.19
41 D 6481	5R-2500-S/SIL	1.4	11.70	11.11	10.53	9.36	8.19
41 D 6484	5R-5000-S/SIL	1.0	12.35	11.73	11.12	9.88	8.65
41 D 6869	5R-10,000-S/SIL	0.7	13.25	12.58	11.93	10.60	9.28
41 D 6881	5R-16,000-S/SIL	0.55	14.25	13.53	12.83	11.40	9.98

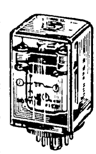
TYPE 26 MINIATURE RELAYS



Rugged DC relays with SPDT action and balanced armature construction. Offer long mechanical life and high release. Operating sensitivity: CDS, 4 mw; S, 5 mw. SIL in Type indicates silver contacts rated 1.0 amp at 28 VDC or 120 VAC; PAL, palladium, 0.5 amp. Withstand shock to 100g (non-operating). Tapped holes for screw mounting. 5 solder terminals. All are unenclosed. Size, 1x1⅞x1 1/16". Shpg. wt., 4 oz.

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-24	25-49	50-74	75-99	100-499
41 D 6904	26F-1000-S/SIL	2.3	9.45	8.98	8.51	8.03	7.09
41 D 5284	26F-8000-CDS/PAL	0.7	11.55	10.97	10.40	9.82	8.66

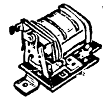
TYPE 48 LOW-COST SPDT RELAYS



Low-cost, sensitive relays, excellent for use with burglar, police and fire alarm systems. Operates from minimum of 5- or 10-milliwatt input. Bridge-type contact structure, with solid silver contacts. Compliant armature provides excellent contact wipe. Temperature range, —4°F to +158°F. Contacts rated 2 amps with pickup power of 10 milliwatts, except *1 amp, pickup power of 5 milliwatts. Type 48F is screw mounting open type, with 3 solder terminals, 2 coil leads, insulated base. 1 17/64x1 7/16x2 9/32". Shpg. wt., 3 oz. Type 48RO comes in a plastic dust cover with octal plug. 1 23/64x1 23/64x2 7/64". Shpg. wt., 4 oz.

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4830	48F-1000-G/SIL	3.2	5.90	5.61	5.31	4.72	4.13
41 D 4831	48F-2500-G/SIL	2.0	5.90	5.61	5.31	4.72	4.13
41 D 4832	48F-1000-S/SIL	2.3*	6.15	5.84	5.54	4.92	4.31
41 D 4833	48F-2500-S/SIL	1.4*	6.15	5.84	5.54	4.92	4.31
41 D 4834	48RO-1000-G/SIL	3.2	6.90	6.56	6.21	5.52	4.83
41 D 4835	48RO-2500-G/SIL	2.0	6.90	6.56	6.21	5.52	4.83
41 D 4836	48RO-1000-S/SIL	2.3*	7.15	6.79	6.44	5.72	5.01
41 D 4837	48RO-2500-S/SIL	1.4*	7.15	6.79	6.44	5.72	5.01

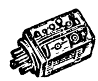
TYPE 41 SPDT RELAYS



DC types are for on-off or gradually changing signals; shaded-pole AC for high-speed keying. High release for circuits with high idle current. SPDT silver contacts 2 amps, except *5 amps, at 28 v., DC or 120 v. AC. AC sensitivity: ACS, .2VA; ACG, .4VA; DC sensitivity, 40 mw. Open types, 2¼x1¼x1 5/16". Wt., 3 oz. Enclosed, 1 21/64x1 21/64x2 3/64". U.L. and C.S.A. Listed. †Octal plug. ‡5-pin plug. Shpg. wt., 5 oz.

Stock No.	Mfr's Type and Coil Ohms	VAC or DC Ma	EACH 1-24	25-49	50-74	75-99	100-249
UNENCLOSED AC RELAYS—SOLDER TERMINALS							
41 D 5076	41FZ-10-ACG/BSL	6*	3.90	3.71	3.51	3.12	2.73
41 D 6392	41FZ-35-ACS/SIL	6	4.50	4.28	4.05	3.60	3.15
41 D 5078	41FZ-5000-ACG/BSL	115*	4.10	3.90	3.69	3.28	2.87
41 D 6394	41FZ-10000-ACS/SIL	115	5.00	4.75	4.50	4.00	3.50
UNENCLOSED DC RELAYS—SOLDER TERMINALS							
41 D 6397	41F-200-S/SIL	15.0	4.30	4.08	3.87	3.44	3.01
41 D 7009	41F-500-S/SIL	9.0	4.30	4.08	3.87	3.44	3.01
41 D 6398	41F-1000-S/SIL	6.5	4.30	4.08	3.87	3.44	3.01
41 D 6399	41F-5000-S/SIL	3.0	4.50	4.28	4.05	3.60	3.15
41 D 6400	41F-10000-S/SIL	2.0	4.75	4.51	4.28	3.80	3.33
ENCLOSED AC RELAYS—PLUG-IN							
41 D 6443	41RO7-5000-ACG/BSL	115*†	5.75	5.46	5.18	4.60	4.03
41 D 6444	4RZ-5000-ACG/BSL	115*‡	5.75	5.46	5.18	4.60	4.03
41 D 6445	41JO7-12000-ACS/SIL	150†	12.15	11.54	10.94	9.72	8.51
ENCLOSED DC RELAYS—OCTAL PLUG-IN							
41 D 6446	41RO-1000-S/SIL	6.5	6.15	5.84	5.54	4.92	4.31
41 D 6447	41RO-5000-S/SIL	3.0	6.30	5.99	5.67	5.04	4.41
41 D 6448	41RO-10000-S/SIL	2.0	6.60	6.27	5.94	5.28	4.62
41 D 6268	41RO6-1000-S/SIL	6.5	6.15	5.84	5.54	4.92	4.31
41 D 6269	41R06-2500-S/SIL	4.0	6.15	5.84	5.54	4.92	4.31
41 D 6270	41R06-5000-S/SIL	3.0	6.30	5.99	5.67	5.04	4.41

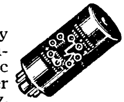
TYPE 42 DPDT RELAYS



Versatile, long-life, general purpose relays. Have octal plug-in bases and plastic dust covers. DC sensitivity: (S) 100 mw; (G) 200 mw. AC units, 0.30 VA for ACS types, 0.50 VA for ACG types. Withstand vibration, 10 g to 55 cps; shock 100 g (non-operating). Contacts 5 amps @ 28 VDC, 120 VAC. exc. †2 amps. 1 21/64x1 21/64x2". Wt., 5 oz.

Stock No.	Mfr's Type and Coil Ohms	Coil VAC or Ma DC	EACH 1-24	25-49	50-74	75-99	100-249
AC RELAYS							
41 D 6401	42ROZ-8-ACG/SIL	6	6.55	6.22	5.89	5.24	4.59
41 D 6239	42ROZ-50-ACG/SIL	12	6.55	6.22	5.89	5.24	4.59
41 D 6403	42ROZ-200-ACG/SIL	24	6.55	6.22	5.89	5.24	4.59
41 D 6404	42ROZ-4000-ACG/SIL	115	6.55	6.22	5.89	5.24	4.59
41 D 6449	42RO6Z-4000-ACG/SIL	115	6.55	6.22	5.90	5.24	4.59
41 D 6450	42JOZ-4000-ACG/SIL	115	11.25	10.69	10.13	9.00	7.88
41 D 6907	42ROZ-7000-ACS/SIL	115†	7.80	7.41	7.02	6.24	5.46
TYPE 42 DC RELAYS							
41 D 6408	42RO-200-G/SIL	32	6.55	6.22	5.90	5.24	4.59
41 D 7696	42RO-500-G/SIL	20	6.55	6.22	5.90	5.24	4.59
41 D 6409	42RO-1000-G/SIL	14	6.55	6.22	5.90	5.24	4.59
41 D 6244	42RO-2500-G/SIL	9	6.55	6.22	5.90	5.24	4.59
41 D 6410	42RO-5000-G/SIL	6.5	6.80	6.46	6.12	5.44	4.76
41 D 6411	42RO-10000-G/SIL	4.5	7.00	6.65	6.30	5.60	4.90
41 D 6128	42RO-12000-G/SIL	4.0	7.30	6.93	6.57	5.84	5.11
41 D 6451	42RO6-500-G/SIL	20	6.55	6.22	5.90	5.24	4.59
41 D 6452	42RO6-1000-G/SIL	14	6.55	6.22	5.90	5.24	4.59
41 D 6453	42RO6-1000-S/SIL	10†	7.20	6.84	6.48	5.76	5.04
41 D 6454	42RO6-2500-G/SIL	9	6.55	6.22	5.90	5.24	4.59
41 D 6455	42RO6-5000-G/SIL	6.5	6.80	6.46	6.12	5.44	4.76
41 D 6456	42RO6-10000-G/SIL	4.5	7.00	6.65	6.30	5.60	4.90
41 D 6457	42RO-150-S/SIL	26†	7.20	6.84	6.48	5.76	5.04
41 D 6458	42RO-500-S/SIL	14†	7.20	6.84	6.48	5.76	5.04
41 D 6459	42RO-1000-S/SIL	10†	7.20	6.84	6.48	5.76	5.04
41 D 6460	42RO-2500-S/SIL	6.2†	7.20	6.84	6.48	5.76	5.04
41 D 6461	42RO-5000-S/SIL	4.5†	7.45	7.08	6.71	5.96	5.22
41 D 6462	42RO-10000-S/SIL	3.1†	7.70	7.32	6.93	6.16	5.39

TYPE 72 HIGH-SPEED POLAR RELAYS

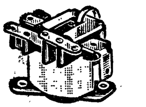


For high speed switching, pulse repeating, telegraphy to 500 pulses/sec. Extremely sensitive. SPDT contacts rated .06-amp, ind. load. Removable plastic cover. Dual coil. †Current in one coil to trip either direction. 2⅝x1 7/16". *TCP Contacts. Shpg. wt., 4 oz.

Stock No.	Mfr's Type and Coil Ohms	Ma DC†	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6247	72AOZ-160-TG*	3.6	33.00	31.35	29.70	26.40	23.10
41 D 6912	72AOZ-160-TS*	1.4	33.00	31.35	29.70	26.40	23.10
41 D 6249	72AOZ-4000-TS*	0.28	34.10	32.39	30.69	27.28	23.87

SIGMA General-Purpose Relays

TYPE 11 LOW-COST RELAYS



Small general-purpose DC or shaded pole AC relays. DC types are designed for on-off circuits or circuits with gradually changing current; AC for on-off only. SPDT silver contacts rated at 1 amp at 28 v., DC or 120 v., AC. Designed to withstand up to 10g vibration or 75g shock, non-operating. Sensitivity, DC relays 50 mw; AC relays 0.3 VA. Operating temperature range, —40° to +122°F. All types are U.L. and C.S.A. Listed. 2-hole screw mounting with solder terminals, except *shoulder lug mtg., printed circuit terminals. Size, 1¹⁄₁₆x1³⁄₁₆x1⁷⁄₃₂". Shpg. wt., 3 oz.

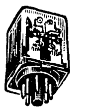
TYPE 11F-G/SIL DC RELAYS

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-99	EACH 100-499
41 D 7681	11F-250-G/SIL	14.0	1.95	1.76
41 D 7683	11F-550-G/SIL	9.5	1.95	1.76
41 D 5068	11F-1000-G/SIL	7.0	1.95	1.76
41 D 5070	11F-1500-G/SIL	5.8	1.95	1.76
41 D 5069	11F-2300-G/SIL	4.6	1.95	1.76
41 D 5074	11F-6000-G/SIL	2.9	2.15	1.94
41 D 5075	11F-9000-G/SIL	2.4	2.35	2.12
41 D 6419	11FP-1000-G/SIL*	7.0	2.05	1.85
41 D 6420	11FP2300-G/SIL*	4.6	2.05	1.85

TYPE 11FZ-ACS/SIL AC RELAYS

Stock No.	Mfr's Type and Coil Ohms	V. AC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6547	11FZ-25-ACS/SIL	6	3.05	2.89	2.74	2.44	2.14
41 D 6568	11FZ9000-ACS/SIL	115	3.60	3.42	3.24	2.88	2.52

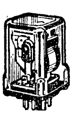
TYPE 46B HEAVY-DUTY DPDT RELAYS



Rugged relays for machine-tool control and other heavy duty applications. Self-wiping silver cadmium oxide contacts rated 500,000 operations on 10-amp 120 v. AC load; 10,000,000 operations on 1-amp 28 v. DC load. Dielectric strength, 1500 VDC/1000 VRMS @ 25°C. Ins. res., 1000 megohms min @ 500 VDC. Op. temp., —85° to +158°F. U.L. and C.S.A. Listed. Octal base. 2⁵⁄₆₄x1¹³⁄₃₂x 1¹³⁄₃₂". Shpg. wt., 5 oz.

Stock No.	Mfrs' Type and Coil Ohms	Coil V.	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6291	46BROZ-43 ACL-SCO	24AC	6.05	5.75	5.45	4.84	4.24
41 D 6294	46BROZ-1100 ACL-SCO	120AC	6.05	5.75	5.45	4.84	4.24
41 D 6295	46BROZ-4500 ACL-SCO	240AC	6.45	6.13	5.81	5.16	4.52
41 D 6284	46BRO-180 LG-SCO	12DC	6.00	5.70	5.40	4.80	4.20
41 D 6285	46BRO-630 LG-SCO	24DC	6.00	5.70	5.40	4.80	4.20
41 D 6287	46BRO-2800 LG-SCO	48DC	6.20	5.89	5.58	4.96	4.34
41 D 6288	46BRO-17000 LG-SCO	120DC	6.60	6.27	5.94	5.28	4.62

TYPE 50 GENERAL-PURPOSE RELAYS



Enclosed Type

Open Type

Compact, low cost multipole relays provide efficient switching of 5 to 10 amp industrial loads. For actuating small solenoids or other relays. Silver cadmium oxide (SCO) contacts rated 10 amps. Nominal power: AC, 2.2 VA and DC, 1.5 watts. Temp. range: 50F, +14°F to +158°F; 50R0, to +131°F. Size: 50F, 1⁵⁄₁₆x1¹¹⁄₆₄x1¹⁵⁄₁₆"; 50R0, 1³⁄₈x 1³⁄₈x2³⁄₃₂". Wt.: 50F, 2 oz.; 50R0, 3 oz.

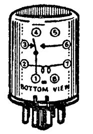
OPEN TYPE WITH SOLDER TERMINALS

Stock No.	Type SCO and Coil Volts	Coil Ohms	Action	EACH 1-24	25-49	50-74	75-99	100-249	250-499
41 D 6471	50F1-115AC	2300	SPDT	3.20	3.04	2.88	2.56	2.24	2.08
41 D 6472	50F1-24DC	430	SPDT	3.15	2.99	2.84	2.52	2.21	2.05
41 D 6473	50F2-24AC	95	DPDT	3.95	3.75	3.56	3.16	2.77	2.57
41 D 6474	50F2-115AC	2300	DPDT	3.95	3.75	3.56	3.16	2.77	2.57
41 D 6475	50F2-12DC	95	DPDT	3.60	3.42	3.24	2.88	2.52	2.34
41 D 6476	50F2-24DC	430	DPDT	3.60	3.42	3.24	2.88	2.52	2.34
41 D 6477	50F3-24AC	95	3PDT	4.40	4.18	3.96	3.52	3.08	2.86
41 D 6478	50F3-115AC	2300	3PDT	4.40	4.18	3.96	3.52	3.08	2.86
41 D 6479	50F3-12DC	95	3PDT	4.05	3.85	3.65	3.24	2.84	2.63
41 D 6480	50F3-24DC	430	3PDT	4.05	3.85	3.65	3.24	2.84	2.63

ENCLOSED PLUG-IN TYPE

Stock No.	Type SCO and Coil Volts	Coil Ohms	Action	1-24	25-49	50-74	75-99	100-249	250-499
41 D 6485	50R01-115AC	2300	SPDT	5.40	5.13	4.86	4.32	3.78	3.51
41 D 6486	50R01-24DC	430	SPDT	5.30	5.04	4.77	4.24	3.71	3.45
41 D 6487	50R02-24AC	95	DPDT	6.05	5.75	5.45	4.84	4.24	3.93
41 D 6488	50R02-115AC	2300	DPDT	6.05	5.75	5.45	4.84	4.24	3.93
41 D 6489	50R02-12DC	95	DPDT	6.00	5.70	5.40	4.80	4.20	3.90
41 D 6490	50R02-24DC	430	DPDT	6.00	5.70	5.40	4.80	4.20	3.90
41 D 6491	50R03-24AC	95	3PDT	7.00	6.65	6.30	5.60	4.90	4.55
41 D 6492	50R03-115AC	2300	3PDT	7.00	6.65	6.30	5.60	4.90	4.55
41 D 6493	50R03-12DC	95	3PDT	6.95	6.60	6.26	5.56	4.87	4.52
41 D 6494	50R03-24DC	430	3PDT	6.95	6.60	6.26	5.56	4.87	4.52

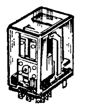
NEW TYPE 59 SPDT SNAP-SWITCH DC RELAYS



Low cost, dependable snap-switch relay for commercial use where space is limited. Snap-switch contact assembly provides positive operation wheter input signal changes slowly or abruptly. Pin-hinge armature construction for mechanical life of 1 million oper. Contacts rated 2 amps. Sens, 300 mw. Type 59A has dust cover, octal plug; 1⁵⁄₁₆" dia. x1¹⁹⁄₃₂"; wt., 1½ oz. 59F is open, screw mtg., 2⁹⁄₃₂x1⅛x1³⁄₆₄"; wt., 0.8 oz.

Stock No.	Mfr's Type and Coil Voltage	Coil Ohms	EACH 1-99	100-499	500-2499
41 D 6515	59A01D-6DC	120	3.55	3.19	2.48
41 D 6516	59A01D-12DC	465	3.55	3.19	2.48
41 D 6517	59A01D-24DC	1800	3.55	3.19	2.48
41 D 6518	59F1D-6DC	120	2.05	1.84	1.43
41 D 6519	59F1D-12DC	465	2.05	1.84	1.43
41 D 6520	59F1D-24DC	1800	2.05	1.84	1.43

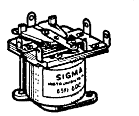
NEW TYPE 62 UNIVERSAL PLUG-IN DC RELAYS



Universal mounting with high stability at moderate loads and long life. Interchangeable with similar commercial relays. Relays plug into solder or P.C. term. sockets (below). Contacts rated 2 amps. Sensitivity, 700 mw except 6PDT, 1.4 watts. Temp.: +14 to +158°F. Plastic dust cover, stud mtg. 1⁹⁄₃₂x1³⁄₁₆x¾". Wt. 1 oz.

Stock No.	Mfr's Type and Coil Volts	Coil Ohms	Action	EACH 1-24	25-49	50-74	75-99	100-249	250-499
41 D 6600	62R2-12DC	185	DPDT	3.60	3.42	3.24	2.88	2.52	2.34
41 D 6601	62R2-24DC	700	DPDT	3.60	3.42	3.24	2.88	2.52	2.34
41 D 6602	62R2-110DC	15000	DPDT	5.20	4.94	4.68	4.16	3.64	3.38
41 D 6603	62R4-12DC	185	4PDT	3.90	3.71	3.51	3.12	2.73	2.54
41 D 6604	62R4-24DC	700	4PDT	3.90	3.71	3.51	3.12	2.73	2.54
41 D 6605	62R4-110DC	15000	4PDT	5.50	5.23	4.95	4.40	3.85	3.58
41 D 6606	62R6-12DC	90	6PDT	5.40	5.13	4.86	4.32	3.78	3.51
41 D 6607	62R6-24DC	430	6PDT	5.40	5.13	4.86	4.32	3.78	3.51
41 D 6608	62R6-110DC	15000	6PDT	6.75	6.41	6.08	5.40	4.73	4.39
41 D 6609	AD22 2-Sold. Term Socket			.60	.57	.54	.48	.42	.39
41 D 6534	AD23 2-P P.C. Socket			.60	.57	.54	.48	.42	.39
41 D 6610	AD24 4-Sold. Term. Socket			.65	.62	.59	.52	.46	.42
41 D 6535	AD25 4-P P.C. Socket			.65	.62	.59	.52	.46	.42
41 D 6611	AD26 6-Sold. Term. Socket			1.00	.95	.90	.80	.70	.65
41 D 6536	AD27 6-P P.C. Socket			1.00	.95	.90	.80	.70	.65

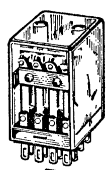
NEW TYPE 65 COMMERCIAL DPDT RELAYS

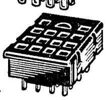


Compact commercial relay gives positive reponse to low power signals. High adjustment stability, 5 million oper. mechanical life. Ideal for slide projectors, toys, games. Contacts rated 1 amp. Sensitivity, 90 mw. 65F1 is screw mtg. with solder term. ⁶³⁄₆₄x1¹⁄₁₆x1³⁄₁₆". 65FP1 has terminals for printed circuit, 1¼x1¹⁄₁₆x1³⁄₁₆". Wt. 1 oz.

Stock No.	Mfr's Type and Coil Volts	Coil Ohms	EACH 1-99	100-499	500-2499
41 D 6612	65F1-12DC	1640	1.50	1.35	1.05
41 D 6613	65F1-24DC	6560	1.50	1.35	1.05
41 D 6614	65FP1-12DC	1640	1.60	1.44	1.12
41 D 6615	65FP1-24DC	1640	1.60	1.44	1.12

NEW TYPE 67 AC AND DC 4PDT RELAYS





Socket

- Full 3 Ampere Rating AC or DC
- Choice of Sockets—Standard or Printed Circuit

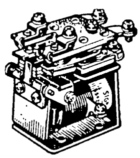
Rugged miniature 4PDT relay is available for either AC or DC operation. Similar to Type 62 (above) but with in-line rather than stacked contacts and choice of sockets for either standard solder terminals or printed circuit terminals. Contacts rated 3 amperes, for both AC and DC types. Sensitivity, 1.2 VA for AC types, 900 milliwatts for DC types. Temperature range, —4°F to +140° F. Comes complete with plastic dust cover, designed for stud mounting with 14-prong plug. Order type AD28 or AD29 socket separately (below). Size 1⁵⁄₁₆x 1⁷⁄₆₄x⁵⁵⁄₆₄". Shpg. wt,. 1½ oz.

Stock No.	Mfr's Type and Coil Volts	Coil Ohms	EACH 1-24	25-49	50-74	75-99	100-249	250-499
41 D 6616	67R4-12AC	43	5.50	5.23	4.95	4.40	3.85	3.58
41 D 6617	67R4-24AC	160	5.50	5.23	4.95	4.40	3.85	3.58
41 D 6618	67R4-115 AC	3900	5.85	5.58	5.27	4.68	4.10	3.80
41 D 6619	67R4-6DC	40	4.40	4.18	3.96	3.52	3.08	2.86
41 D 6620	67R4-12DC	160	4.40	4.18	3.96	3.52	3.08	2.86
41 D 6621	67R4-24DC	650	4.40	4.18	3.96	3.52	3.08	2.86
41 D 6622	67R4-48DC	2600	4.60	4.37	4.14	3.68	3.22	2.99
41 D 6623	67R4-110DC	11000	5.10	4.85	4.59	4.08	3.57	3.32
41 D 6624	AD28 Solder Term. Socket	Each........60 any quantity						
41 D 6625	AD29 Printed Circ. Skt.	Each........60 any quantity						

Specify Mfr's Type No. and Stock No. When Ordering Relays

Power and High-Performance Relays SIGMA

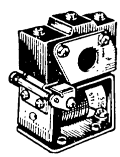
NEW TYPE 55 AC/DC POWER RELAYS



Rugged and reliable open type relays for continuous heavy duty use. Available in DPDT, 3PDT and 4PDT types. Multiple switching of resistive loads up to 15 amperes at 230 VAC, or up to 10 amperes at 28 VDC. Handle up to 60-ampere inrush current without contact welding. Mechanical life expectance, at least 5 million operations. Temperature range, +14°F to +158°F. All types are screw mounted, with solder terminals. Size: Type 55F2 DPDT, 2 1/16x 2 1/16x2 15/64"; Type 55F3 3PDT, 2 11/64x1 15/16x1 15/16"; Type 55F4 4PDT, 2 25/64x2 3/32x2 21/32". Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type and Coil Volts	Coil Ohm	Action	EACH 1-24	25-49	50-74	75-99	100-249	250-499
41 D 6626	55F2-115AC	635	DPDT	7.50	7.13	6.75	6.00	5.25	4.88
41 D 6627	55F2-230AC	3150	DPDT	7.50	7.13	6.75	6.00	5.25	4.88
41 D 6628	55F2-12DC	80	DPDT	7.25	6.89	6.53	5.80	5.08	4.71
41 D 6629	55F2-24DC	327	DPDT	7.25	6.89	6.53	5.80	5.08	4.71
41 D 6630	55F2-110DC	6250	DPDT	8.75	8.31	7.88	7.00	6.13	5.69
41 D 6631	55F3-115AC	332	3PDT	8.50	8.08	7.65	6.80	5.95	5.53
41 D 6632	55F3-230AC	1560	3PDT	8.50	8.08	7.65	6.80	5.95	5.53
41 D 6633	55F3-12DC	70	3PDT	8.25	7.84	7.43	6.60	5.78	5.36
41 D 6636	55F3-24DC	274	3PDT	8.25	7.84	7.43	6.60	5.78	5.36
41 D 6637	55F3-110DC	5500	3PDT	9.75	9.26	8.78	7.80	6.83	6.34
41 D 6638	55F4-115AC	224	4PDT	10.00	9.50	9.00	8.00	7.00	6.50
41 D 6639	55F4-230AC	980	4PDT	10.00	9.50	9.00	8.00	7.00	6.50
41 D 6640	55F4-12DC	51	4PDT	9.50	9.03	8.55	7.60	6.65	6.18
41 D 6644	55F4-24DC	230	4PDT	9.50	9.03	8.55	7.60	6.65	6.18
41 D 6645	55F4-110DC	4210	4PDT	11.00	10.45	9.90	8.80	7.70	7.15

NEW TYPE 57 SNAP-ACTION POWER RELAY

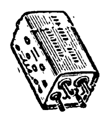


Designed for single or multipole switching of 10 to 15 ampere loads. Ideal for industrial use with solenoids and fractional horsepower motors. Open construction, screw mounted with screw terminals. Contact assembly is a totally enclosed snap-action precision switch, providing positive response to slowly changing signals; isolated for reliable 3-phase switching of 5 to 15 amp loads. Contacts rated 15 amps at 230 VAC, resistive; 6 amps at 28 VDC. Temp. range, +14°F to +158°F. Size: Type 57F1 SPDT, 2 17/32x2 1/32x2 7/32"; Type 57F2 DPDT, 2 23/32x2 1/32x2 13/32"; Type 57F3 3PDT, 2 13/16x2 1/32x2 31/64". Av. shpg. wt., 9 oz.

Stock No.	Mfr's Type and Coil Volts	Coil Ohms	Action	EACH 1-24	25-49	50-74	75-99	100-499
41 D 6650	57F1-115AC	635	SPDT	8.00	7.60	7.20	6.80	6.00
41 D 6652	57F1-230AC	3150	SPDT	8.00	7.60	7.20	6.80	6.00
41 D 6653	57F1-12DC	96	SPDT	7.75	7.36	6.98	6.59	5.81
41 D 6654	57F1-24DC	384	SPDT	7.75	7.36	6.98	6.59	5.81
41 D 6655	57F1-110DC	6250	SPDT	9.25	8.79	8.33	7.86	6.94
41 D 6656	57F2-115AC	332	DPDT	9.75	9.26	8.78	8.29	7.31
41 D 6658	57F2-230AC	1560	DPDT	9.75	9.26	8.78	8.29	7.31
41 D 6659	57F2-12DC	72	DPDT	9.50	9.02	8.55	8.08	7.13
41 D 6660	57F2-24DC	274	DPDT	9.50	9.02	8.55	8.08	7.13
41 D 6662	57F2-110DC	5500	DPDT	11.00	10.45	9.90	9.35	8.25
41 D 6663	57F3-115AC	224	3PDT	11.50	10.93	10.35	9.78	8.63
41 D 6664	57F3-230AC	980	3PDT	11.50	10.93	10.35	9.78	8.63
41 D 6665	57F3-12DC	62	3PDT	11.25	10.69	10.13	9.56	8.44
41 D 6666	57F3-24DC	250	3PDT	11.25	10.69	10.13	9.56	8.44
41 D 6667	57F3-110DC	4210	3PDT	12.75	12.11	11.48	10.84	9.56

HIGH-PERFORMANCE RELAYS

TYPE 22 HERMETICALLY SEALED DC RELAYS



Miniature hermetically sealed DC relays feature balanced armature construction plus high immunity to vibration. Resist 10 g to 300 cps vibration, 100 g shock. Sensitive and stable, ideal for airborne and ground based military equipment requiring high reliability. Non-polarized. Offers high 33% drop-out of pickup current. Sensitivity: SPDT, 20 milliwatts; DPDT, 40 milliwatts. Silver contacts are rated 2 amperes at 28 VDC or 120 VAC. Temperature range, —65°C to +125°C. All types are stud mounting. Available with solder terminals or 9-pin plug. Size, 1 25/32x1x1". Shpg. wt., 4 oz.

SPDT ACTION—HOOK SOLDER TERMINALS

Stock No.	Mfr's Type and Coil Ohms	Ma DC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 7686	22RJC-500-G/SIL	6.3	13.00	12.35	11.70	10.40	9.10
41 D 6384	22RJC-1000-G/SIL	4.5	13.00	12.35	11.70	10.40	9.10
41 D 6385	22RJC-2500-G/SIL	2.8	13.50	12.83	12.15	10.80	9.45
41 D 6386	22RJC-5000-G/SIL	2.0	14.00	13.30	12.60	11.20	9.80
41 D 6387	22RJC-8000-G/SIL	1.6	14.50	13.78	13.05	11.60	10.15

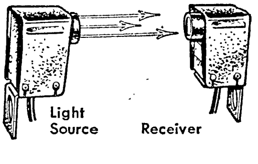
DPDT ACTION—HOOK SOLDER TERMINALS

41 D 7689	22RJCC-500-G/SIL	9.0	14.50	13.78	13.05	11.60	10.15
41 D 6388	22RJCC-1000-G/SIL	6.3	14.50	13.78	13.05	11.60	10.15
41 D 6389	22RJCC-2500-G/SIL	4.0	15.00	14.25	13.50	12.00	10.50
41 D 6390	22RJCC-5000-G/SIL	2.8	15.50	14.73	13.95	12.40	10.85
41 D 6391	22RJCC-8000-G/SIL	2.3	16.00	15.20	14.40	12.80	11.20
41 D 7690	22RJCC-12000-G/SIL	1.8	17.50	16.62	15.75	14.00	12.25

DPDT ACTION—9-PIN PLUG-IN TYPES

41 D 7702	22JNCC-2500-G/SIL	4.0	15.35	14.58	13.82	12.28	10.75
41 D 7703	22JNCC-5000-G/SIL	2.8	15.85	15.06	14.27	12.68	11.10

MODEL 8PL2 PHOTORELAY RECEIVER AND LIGHT SOURCE



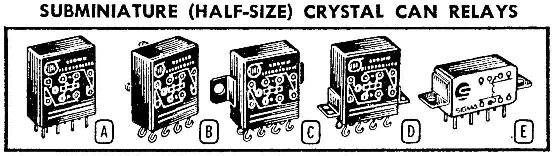
Compact, dependable control system designed for easy installation and trouble-free operation. Consists of a photorelay receiver and a light source. Switches up to 3-amp, 120 v. AC resistive load at least 2 times a second, with receiver and light source up to 12 feet apart. Can be connected so that no current flows until light beam is broken, or for current flow with light on photocell. Angle brackets on each unit permit easy alignment of units to each other. Device to be switched (counting mechanism, alarm, etc.) is simply plugged into receiver. Units are in gray enamel finish, dust-cover housings. Sizes, 6 7/8x2 1/2x3 1/2", each unit. For 110-120 v., 50-60 cycle AC.

41 D 6250. Model 8PL2 Receiver and Light Source. Wt., 5 lbs. . . 48.40

41 D 6253. Model 8L2 Light Source Only. Wt., 3 lbs. 17.00

41 D 6255. Model 8P2 Receiver Only. Wt., 3 lbs. 31.40

SUBMINIATURE (HALF-SIZE) CRYSTAL CAN RELAYS



Exceed MIL-R-5757D. 26.5 VDC nom. except §12 VDC. 2 amp contacts. Herm. sealed. *Dual coil .10 terminals except † 9, #8. Letter "R" in Type No. have solder terminals, others pin. 0.8x0.9x0.4" except Type 36, 0.8x0.41x0.41". .65-.7 oz. exc. 36, .35 oz.

SERIES 32 DPDT LATCHING (Rated 9 Ma DC)

Stock No.	Mfr's Type and Coil Ohms	Fig.	EACH 1-24	25-49	50-74	75-99	100-249	250-499
41 D 6668	32JD-1200-GD/SIL	A	26.50	25.18	23.85	21.20	18.55	17.23
41 D 6669	32RJKD-1200-GD/SIL	B	26.50	25.18	23.85	21.20	18.55	17.23
41 D 6670	32RJPD-1200-GD/SIL	C*	26.50	25.18	23.85	21.20	18.55	17.23
41 D 6671	32RJP-3100-G/SIL	C#	23.50	22.33	21.15	18.80	16.45	15.23

SERIES 33 DPDT (Rated 9.2 Ma DC)

41 D 6672	33J-1200-VG/SIL	A†	22.00	20.90	19.80	17.60	15.40	14.30
41 D 6673	33RJK-1200-VG/SIL	B#	22.00	20.90	19.80	17.60	15.40	14.30
41 D 6674	33RJL-1200-VG/SIL	D#	22.00	20.90	19.80	17.60	15.40	14.30
41 D 6675	33RJP-1200-VG/SIL	C#	22.00	20.90	19.80	17.60	15.40	14.30

SERIES 34 DPDT LATCHING (Rated +1.8 Ma, ±3.2 Ma DC)

41 D 6571	34RJP2-6300-G/SCN+	C	21.10	20.05	18.99	16.88	14.77	13.72
41 D 6572	34JP2D-4000-GD/SCN±	C*	22.00	20.90	19.80	17.60	15.40	14.30

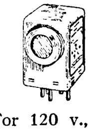
SERIES 35 DPDT (Rated +6.5 Ma, ±13.5 Ma DC) #8 term.

41 D 6573	35JP2-1000-VG/SCN+	C §	18.00	17.10	16.20	14.40	12.60	11.70
41 D 6574	35RJL-4000-VG/SCN±	D	18.00	17.10	16.20	14.40	12.60	11.70
41 D 6575	35RJP2-4000-VG/SCN±	C	18.00	17.10	16.20	14.40	12.60	11.70

SERIES 36 DPDT HALF SIZE (Rated 13.5 Ma DC) #8 term.

41 D 6576	36J-700-G/SMN	E/A	15.20	14.40	13.68	12.16	10.64	9.88
41 D 6577	36JP2-700-G/SMN	E/C	15.20	14.40	13.68	12.16	10.64	9.88
41 D 6578	36RJP2-700-G/SMN	E/C	15.20	14.40	13.68	12.16	10.64	9.88

TYPE 8R PHOTORELAYS



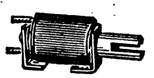
Compact photoelectric controls using CdS photocells. Tubeless; have 5-pin plug-in bases. For "light-no light" conditions, require 5 ft.-candles to operate. Type 8RCO1A releases at 0.1 footcandle; 8RCO2A releases at 0.5 footcandle. 3-amp SPDT silver contacts. 2 9/32x1 9/16x1 9/16". With aluminum dust covers. For 120 v., 50-60 cycle AC. Wt., 6 oz.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-74	75-99	100-249
41 D 6108	8RCO1A	18.15	17.24	16.34	14.52	12.71
41 D 6251	8RCO2A	18.75	17.81	16.88	15.00	13.13

Guardian Solenoids and Stepping Relays

INDUSTRIAL AC AND DC SOLENOIDS

Intermittent-duty types should not be energized for more than 5 consecutive minutes. Continuous-duty types will not rise more than 85° C above 24° C ambient. Plunger has slotted end with 1/8" diameter hole for coupling. Av. shpg. wt., 10 oz.



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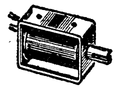

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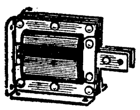

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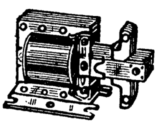

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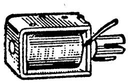

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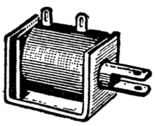

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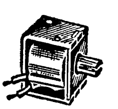

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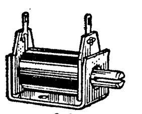


34

AC TYPES (Specify Type No., Volts and Duty)

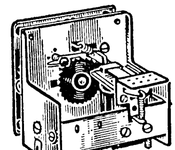
Stock No.	Mfr's Type	Volts	Duty	Ohms	Adj. Stroke Inches	Max. Lift Oz.	Size Inches H	W	D	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5890	1A1	115	Inter.	300	1/8-1/2	8	1 1/16	15/16	1 3/4	3.15	2.84	2.68	2.52	2.21
41 D 5891	1A1	115	Cont.	675	1/8-3/8	3	1 1/16	15/16	1 3/4	3.15	2.84	2.68	2.52	2.21
41 D 5154	2	115	Inter.	60	1/8-7/8	27	1 5/8	1 7/16	1 9/16	3.68	3.31	3.13	2.94	2.58
41 D 5155	2	115	Cont.	166	1/8-7/8	10.5	1 5/8	1 7/16	1 9/16	3.68	3.31	3.13	2.94	2.58
41 D 6076	2HD	115	Inter.	39	1/8-5/8	60	1 11/16	1 7/16	1 25/32	8.66	7.79	7.36	6.93	6.66
41 D 6077	2HD	115	Cont.	113	1/8-5/8	19	1 11/16	1 7/16	1 25/32	8.66	7.79	7.36	6.93	6.66
41 D 5892	4	115	Inter.	37	1/8-1	24	1 5/8	1 7/16	2	4.20	3.78	3.57	3.36	2.94
41 D 5893	4	115	Cont.	133	1/8-1	8	1 5/8	1 7/16	2	4.20	3.78	3.57	3.36	2.94
41 D 7547	11	24	Inter.	5.1	1/8-1	20	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 7548	11	24	Cont.	12	1/8-1	8	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 7549	11	115	Inter.	125	1/8-1	20	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 7550	11	115	Cont.	300	1/8-1	8	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 5828	12	115	Inter.	100	1/8-1	42	1 7/16	1 3/16	1 5/8	4.46	4.01	3.79	3.57	3.12
41 D 5829	12	115	Cont.	150	1/8-7/8	42	1 7/16	1 3/16	1 5/8	4.46	4.01	3.79	3.57	3.12
41 D 5894	14	115	Inter.	11	1/8-1 1/2	110	2 1/16	1 7/16	2 7/16	6.04	5.44	5.13	4.83	4.23
41 D 5895	14	115	Cont.	18	1/8-1 1/2	65	2 1/16	1 7/16	2 7/16	6.04	5.44	5.13	4.83	4.23
41 D 5156	16	115	Inter.	41	1/8-3/4	92	1 7/16	1 1/8	1 5/8	3.68	3.31	3.13	2.94	2.58
41 D 5885	16	115	Cont.	85	1/8-5/8	54	1 7/16	1 1/8	1 5/8	3.68	3.31	3.13	2.94	2.58
41 D 7551	16	230	Inter.	200	1/8-3/4	92	1 7/16	1 1/8	1 5/8	3.94	3.55	3.35	3.15	2.76
41 D 6320	16	230	Cont.	350	1/8-5/8	54	1 7/16	1 1/8	1 5/8	3.94	3.55	3.35	3.15	2.76
41 D 5157	18	115	Inter.	8.8	1/8-1	304	2 1/16	1 13/16	2 1/2	4.99	4.49	4.24	3.99	3.49
41 D 5886	18	115	Cont.	19.7	1/8-1	145	2 1/16	1 13/16	2 1/2	4.99	4.49	4.24	3.99	3.49
41 D 7552	18	230	Inter.	45	1/8-1	304	2 1/16	1 13/16	2 1/2	5.25	4.73	4.46	4.20	3.68
41 D 6321	18	230	Cont.	78	1/8-1	145	2 1/16	1 13/16	2 1/2	5.25	4.73	4.46	4.20	3.68
41 D 7553	24	115	Inter.	310	1/16-5/8	19	59/64	27/32	1 1/4	3.41	3.07	2.90	2.73	2.39
41 D 7554	24	115	Cont.	500	1/16-5/8	12	59/64	27/32	1 1/4	3.41	3.07	2.90	2.73	2.39
41 D 6088	28	24	Inter.	7.5	1/16-1/2	33	1 3/16	15/16	1 1/8	3.15	2.84	2.68	2.52	2.21
41 D 6089	28	24	Cont.	17.4	1/16-1/2	20	1 3/16	15/16	1 1/8	3.15	2.84	2.68	2.52	2.21
41 D 6092	28	115	Inter.	220	1/16-1/2	33	1 3/16	15/16	1 1/8	3.41	3.07	2.90	2.73	2.39
41 D 6093	28	115	Cont.	400	1/16-1/2	20	1 3/16	15/16	1 1/8	3.41	3.07	2.90	2.73	2.39
41 D 6074	34	115	Inter.	400	1/16-1/2	16	1 7/64	3/4	1 1/8	2.31	2.08	1.96	1.85	1.62
41 D 6075	34	115	Cont.	865	1/16-1/2	9	1 7/64	3/4	1 1/8	2.31	2.08	1.96	1.85	1.62

DC TYPES (Specify Type No., Volts and Duty)

Stock No.	Mfr's Type	Volts	Duty	Ohms	Adj. Stroke Inches	Max. Lift Oz.	Size Inches H	W	D	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7406	2HD	24	Inter.	20	1/8-3/4	120	1 11/16	1 7/16	1 25/32	8.93	8.04	7.59	7.14	6.25
41 D 7407	2HD	24	Cont.	60	1/8-3/4	66	1 11/16	1 7/16	1 25/32	8.93	8.04	7.59	7.14	6.25
41 D 7559	4	24	Inter.	15	1/8-1	57	1 5/8	1 7/16	2	4.20	3.78	3.57	3.36	2.94
41 D 7560	4	24	Cont.	50	1/8-7/8	20	1 5/8	1 7/16	2	4.20	3.78	3.57	3.36	2.94
41 D 7561	4	115	Inter.	346	1/8-1	57	1 5/8	1 7/16	2	4.46	4.01	3.79	3.57	3.12
41 D 7562	4	115	Cont.	1210	1/8-7/8	20	1 5/8	1 7/16	2	4.46	4.01	3.79	3.57	3.12
41 D 7408	4HD	24	Inter.	14	1/8-3/4	156	1 5/8	1 7/16	2 1/64	6.41	5.77	5.35	5.13	4.49
41 D 7409	4HD	24	Cont.	50	1/8-3/4	86	1 5/8	1 7/16	2 1/64	6.41	5.77	5.35	5.13	4.49
41 D 5595	11	6	Inter.	2	1/8-7/8	39	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 6318	11	6	Cont.	5	1/8-5/8	26	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 5596	11	24	Inter.	32	1/8-7/8	39	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 6319	11	24	Cont.	72	1/8-5/8	26	1 3/16	1 27/32	1 5/16	3.15	2.84	2.68	2.52	2.21
41 D 7563	22	6	Inter.	4.7	1/16-3/8	24	3/4	3/4	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 7564	22	6	Cont.	9	1/16-1/4	15	3/4	3/4	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 7565	22	24	Inter.	60	1/16-3/8	24	3/4	3/4	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 7566	22	24	Cont.	144	1/16-1/4	15	3/4	3/4	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6094	28	6	Inter.	3.3	1/16-1/2	41	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6095	28	6	Cont.	7.7	1/16-3/8	35	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6096	28	12	Inter.	13	1/16-1/2	41	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6097	28	12	Cont.	27	1/16-3/8	35	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6098	28	24	Inter.	50	1/16-1/2	41	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 6099	28	24	Cont.	104	1/16-3/8	35	1 3/16	15/16	1 1/8	2.94	2.65	2.50	2.35	2.06
41 D 7402	34	6	Inter.	4.3	1/16-7/16	21	1 7/64	1 1/8	3/4	2.31	2.08	1.96	1.85	1.62
41 D 7403	34	6	Cont.	9.1	1/16-1/4	8.5	1 7/64	1 1/8	3/4	2.31	2.08	1.96	1.75	1.62
41 D 7404	34	24	Inter.	66	1/16-7/16	21	1 7/64	1 1/8	3/4	2.31	2.08	1.96	1.85	1.62
41 D 7405	34	24	Cont.	145	1/16-1/4	8.5	1 7/64	1 1/8	3/4	2.31	2.08	1.96	1.85	1.62

AC AND DC STEPPING RELAYS

Intermittent-duty, 115-v. AC stepping relays except §24 VDC. All are direct drive units with switching completed on energization. Bridging contacts rated at 1 1/2 amps, 115 v. 60 cycle noninductive load. All rated at 10% duty cycle out of each hour; max. single period, 5 minutes. Will operate at 15% below or 10% above rated voltage. IR-PC and IR-MC are continuous-rotation types, constructed with micro-finished shaft and oilite shaft bearing to assure permanent lubrication. IR-PER and MER are electrical-reset types, with steel box-type frame. IR-RAS and IR-MAS are add-and-subtract steppers. *Shows active contacts, including zero position. †Zero-position switch only. Shpg. wt., 2 lbs.



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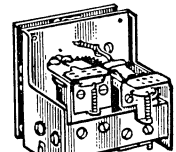
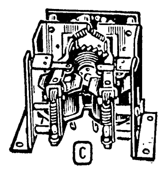


B

Stock No.	Mfr's Type	Fig.	No. Pts.	*Contacts	Size (HxWxD)	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7542	IR-PC	A	40	40	3 1/32x3 3/8x3 3/8"	19.95	17.96	16.96	15.96	13.99
41 D 7543	IR-MC	....	24	24	2 3/16x3x3 1/4"	14.75	13.28	12.54	11.80	10.33
41 D 7544	IR-PER	B	40	36	3 9/16x3 3/8x3"	26.25	23.63	22.31	21.00	18.37
41 D 5282	MER	D	24	22	2 3/16x3 5/16x2 3/16"	15.75	14.18	13.39	12.60	11.03
41 D 5283	§MER	D	24	22	2 3/16x3 5/16x2 3/16"	15.75	14.18	13.39	12.60	11.03
41 D 7546	IR-RAS	C	40	38	3x4 1/8x3 5/8"	26.25	23.63	22.31	21.00	18.37
41 D 7545	IR-MAS	....	30	†	1 15/16x3 1/8x3 1/4"	17.35	15.62	14.75	13.88	12.15



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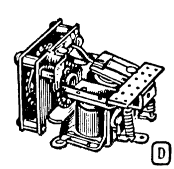
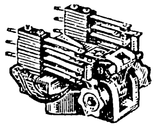


D

Guardian AC and DC Relays

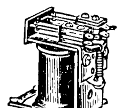
660 SERIES AC IMPULSE RATCHET RELAYS



Small, rugged ratchet type impulse relays for on/off control of lighting, motors, etc. Strong cast-aluminum base will not flex when mounted on an irregular surface. Equipped with balanced bearings, cam and drive mechanism. Available up to 4PDT. Highly reliable; expected life over 1,000,000 steps. Each impulse reverses contacts. Up to 10 steps per second possible. Heavy-duty silver contacts rated 12½ amps at 115 v., 60 cycle AC resistive. Intermittent-duty coil for 110-120 v., 50-60 cycle AC. Size, 2¹⁄₁₆x3x1¾". **Coil voltage is indicated by last digits of Mfr's Type.** Shpg. wt., 8 oz.

Stock No.	Type and Coil Voltage	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7850	660-C-24AC	SPDT	6.85	6.17	5.82	5.48	4.80
41 D 7631	660-C-115AC	SPDT	6.85	6.17	5.82	5.48	4.80
41 D 7851	665-C-24DC	SPDT	6.85	6.17	5.82	5.48	4.80
41 D 7852	660-2C-24AC	DPDT	7.40	6.66	6.29	5.92	5.18
41 D 7632	660-2C-115AC	DPDT	7.40	6.66	6.29	5.92	5.18
41 D 7853	665-2C-24DC	DPDT	7.40	6.66	6.29	5.92	5.18
41 D 7854	660-4C-24AC	4PDT	10.75	9.68	9.14	8.60	7.53
41 D 7855	660-4C-115AC	4PDT	10.75	9.68	9.14	8.60	7.53
41 D 7856	665-4C-24DC	4PDT	10.75	9.68	9.14	8.60	7.53

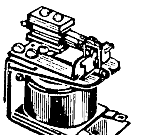
PLATE CIRCUIT RELAYS



General-purpose DPDT plate circuit relay with extra long coil for greater sensitivity. Adaptable to voltage operating as well as sensitive plate circuit control. Coil impregnated for reliability and long life. Average power requirement, 0.2 watt. Fine silver contacts rated 10 amps. 2⅛x2x1½". Wt., 6 oz.

Stock No.	Mfr's Type	Coil Ohms	Ma DC	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7599	IR-625-2.5	2500	9	4.45	4.01	3.78	3.56	3.12
41 D 7600	IR-625-5	5000	6.3	4.75	4.28	4.04	3.80	3.33
41 D 7601	IR-625-10	10,000	4.5	5.80	5.22	4.93	4.64	4.06

MIDGET, INTERLOCKING AND 32-POLE RELAYS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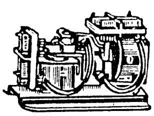
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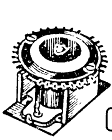

C

[A] **Midget Latching Relays.** Feature single-coil construction. Designed for positive on-off control of positioning devices, remote controls, lighting circuits, and similar industrial applications. Contacts are rated 5 amperes. Snap-action switch mechanism operates on impulses as short as 20 milliseconds. Contacts hold in the last position of switch when coil is de-energized. For 115 volts, 60 cycle AC. Size, 1⅝x1⅛x2¹⁄₁₆". Shpg. wt., 4 oz.

Stock No.	Type IR-	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7540	610L-A115	SPST	4.45	4.01	3.78	3.56	3.12
41 D 7541	610L-C115	SPDT	4.75	4.28	4.04	3.80	3.33

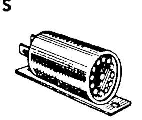
[B] **Type IR-1200/1200-4C-115 AC Interlocking Relay.** Electrically pulse-operated with mechanical hold and electrical release. Has 4PDT 10-amp contacts. For 115 v., 60 cy. AC. 1¹⁄₁₆x1¾x2⅞". 6 oz.

41 D 7539. 1-24 .... Each 10.40
25-49 .... Each 9.36 50-99 .... Each 8.84
100-249 .... Each 8.32 250-499 .... Each 7.28

[C] **Type IR-805-32P 32-Pole DC Relay.** Group-selector 24-volt DC relay simultaneously makes up to 32 circuits common on energization. Effectively insulated from ground. Rugged phenolic plunger housing. Coil resistance, 72 ohms. Size, 2⁷⁄₃₂x1¹⁷⁄₃₂x2⅛". 6 oz.

41 D 7602. 1-24 .... Each 5.00
25-49 .... Each 4.50 50-99 .... Each 4.25
100-249 .... Each 4.00 250-499 .... Each 3.50

ROTOMITE DC STEPPING RELAYS

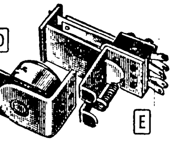


Small size enables use in business machines, vending, counting, sorting, model trains, etc. Completely enclosed. Contact ratings at 115 v., 60 cycles: 3 amps resistive, 1 amp inductive; rotate continuously up to 20 steps per second. Expected life over 1 million operations. 2x1³⁄₁₆" dia. 5 oz.

Stock No.	Type IR-705-	No. Pos.	V. DC	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7705	12P-6D	12	6	6.60	5.94	5.61	5.28	4.62
41 D 7706	12P-12D	12	12	6.60	5.94	5.61	5.28	4.62
41 D 7708	12P-24D	12	24	6.60	5.94	5.61	5.28	4.62

200 SERIES RELAY ASSEMBLIES

D



E

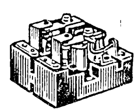
Separate coils (D) and contact assemblies (E) for building your own relays. (Use Contact Switch Parts, below to add poles.) Rated at 115 VAC, noninductive. Plate relays: *5K, 15 ma; **10K, 10 ma. Standard contact assembly size, 2⅞x1⅛x1¾". †Midget; size, 2¹⁄₁₆x1⅛x1½". Wt., 3 oz.

Stock No.	Mfr's Type	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5709	200-6A	6 AC	1.85	1.67	1.57	1.48	1.30
41 D 5710	200-12A	12 AC	1.85	1.67	1.57	1.48	1.30
41 D 5711	200-24A	24 AC	1.85	1.67	1.57	1.48	1.30
41 D 5712	200-115A	115 AC	2.15	1.94	1.83	1.72	1.51
41 D 5888	200-230A	230 AC	2.85	2.57	2.42	2.28	2.00
41 D 5713	200-6D	6 DC	2.00	1.80	1.70	1.60	1.40
41 D 5714	200-12D	12 DC	2.00	1.80	1.70	1.60	1.40
41 D 5715	200-24D	24 DC	2.00	1.80	1.70	1.60	1.40
41 D 5717	200-110D	110 DC	2.65	2.39	2.25	2.12	1.86
41 D 5779	200-5000D	*	2.30	2.07	1.96	1.84	1.61
41 D 5109	200-10000D	**	2.65	2.39	2.25	2.12	1.86

[E] CONTACT SWITCH ASSEMBLIES

Stock No.	Mfr's Type	Contacts Action	Amps	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5707	200-1	SPDT	8	1.60	1.44	1.36	1.28	1.12
41 D 5708	200-2	DPDT	8	2.10	1.89	1.79	1.68	1.47
41 D 5724	200-4	DPDT	12.5	2.35	2.12	2.00	1.88	1.65
41 D 5889	200-5	4PDT	8	3.70	3.33	3.15	2.96	2.59
41 D 5718	200-M1	SPDT	10†	1.50	1.35	1.28	1.20	1.05
41 D 5719	200-M2	DPDT	10†	1.85	1.67	1.57	1.48	1.30
41 D 5826	200-M5	4PDT	8†	3.00	2.70	2.55	2.40	2.10

2200 AND 2210 SERIES AC POWER RELAYS



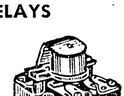
Heavy-duty. For motor starting, heater loads and other uses. Contacts rated at 25 amps, continuous duty at 230 v. AC with 75% power factor load. Require 9.5 volt-amperes. Series 2200, 3⅜x2½x2³⁄₁₆". Series 2210 (n.o.), 2¹¹⁄₁₆x2½x2³⁄₁₆". U.L. Listed. **Mfr's Type indicates contact action and coil voltage.** Wt., 12 oz.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
41 D 6185	2210U-DPST-6	5.75	5.18	4.89	4.60	4.03
41 D 6186	2210U-DPST-24	5.75	5.18	4.89	4.60	4.03
41 D 6187	2210U-DPST-115	5.75	5.18	4.89	4.60	4.03
41 D 6188	2210U-DPST-230	6.10	5.49	5.19	4.88	4.27
41 D 5083	2200U-DPDT-6	6.75	6.08	5.74	5.40	4.73
41 D 5084	2200U-DPDT-24	6.75	6.08	5.74	5.40	4.73
41 D 5085	2200U-DPDT-115	6.75	6.08	5.74	5.40	4.73
41 D 5086	2200U-DPDT-230	7.25	6.53	6.16	5.80	5.08

CS-2200 Switch Parts. Assemblies for above 2200 Series DPDT relays. "Left" or "right"—as viewed at armature end, contacts up. Wt., 5 oz.

Stock No.	Description	EACH 1-24	25-49	50-99	100-249	250-499
41 D 5563	Left Assembly	1.95	1.76	1.66	1.56	1.37
41 D 5564	Right Assembly	1.95	1.76	1.66	1.56	1.37

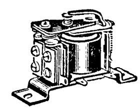
SERIES 2400 ECONOMY AC POWER RELAYS



DPDT contacts are rated 15 amps at 115 volts, 60 cycle AC; 1 h.p. at 115/230 volts AC. **Coil voltage indicated by last digits of Mfr's Type.** *Auxiliary SPDT contacts, rated 10 amps, which may be added to relays. Screw terminals. Two ³⁄₁₆" mounting holes on 1⅞" ctrs. 3⁵⁄₁₆x2½x2¹⁄₁₆". U.L. and C.S.A. Listed. 8 oz.

Stock No.	Mfr's Type and Voltage	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7698	2400U-DPDT-6	6.25	5.63	5.31	5.00	4.38
41 D 7699	2400U-DPDT-24	6.25	5.63	5.31	5.00	4.38
41 D 7700	2400U-DPDT-115	6.25	5.63	5.31	5.00	4.38
41 D 7701	2400U-DPDT-230	6.50	5.85	5.53	5.20	4.55
41 D 4150	2400-SPDT-Aux*	1.35	1.22	1.15	1.08	.95

HEAVY-DUTY SPST AC RELAYS

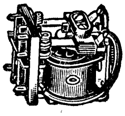


For switching currents up to 20 amps @ 230 volts, 60 cycle AC, noninductive load. Phenolic contact mounting block has ⁵⁄₁₆" dual contacts. Phenolic is tested at 1500 v. breakdown to ground. Silver-alloy contacts are SPST, n.o. With hardware. 3x1⅞x1¾". 6 oz.

Stock No.	Type and Coil Volts	Coil Ohms	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7567	IR-220-A24AC	25	4.50	4.05	3.83	3.60	3.15
41 D 7568	IR-220-A115AC	600	5.05	4.55	4.29	4.04	3.54
41 D 7569	IR-220-A230AC	2500	5.55	5.00	4.72	4.44	3.09

Guardian General-Purpose Relays

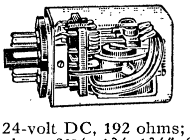
MEDIUM-POWER RELAYS



For communications, remote control, selectors, switching devices, etc. **Last digits of Mfr's Type indicate coil voltage.** Built to meet U.L. specifications. Rated 10 amps, 115 v., 60-cycle AC non-inductive load. Solder lug terminals molded in phenolic block. Size, 1⅝x1x¼". Shpg. wt., 3 oz.

Stock No.	Mfr's Type and Voltage	Action	EACH 1-24	25-49	50-99	100-249	250-499
41 D6215	1200-C-115AC	SPDT	3.50	3.15	2.98	2.80	2.45
41 D6238	1205-C-24DC	SPDT	3.20	2.88	2.72	2.56	2.24
41 D7603	1200-2C-6AC	DPDT	3.75	3.38	3.19	3.00	2.63
41 D7605	1200-2C-24AC	DPDT	3.75	3.38	3.19	3.00	2.63
41 D7607	1200-2C-115AC	DPDT	3.75	3.38	3.19	3.00	2.63
41 D7611	1205-2C-24DC	DPDT	3.40	3.06	2.89	2.72	2.38
41 D6223	1205-2C-110DC	DPDT	3.75	3.38	3.19	3.00	2.63
41 D7606	1200-3C-24AC	3PDT	4.25	3.83	3.61	3.40	2.98
41 D7608	1200-3C-115AC	3PDT	4.25	3.83	3.61	3.40	2.98
41 D7612	1205-3C-24DC	3PDT	3.85	3.47	3.27	3.08	2.70

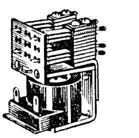
ENCLOSED PLUG-IN RELAYS



DPDT types have 8-pin octal plug; 3PDT types, 11-pin plug. Contacts rated 10 amps @ 115 v., 60 cycle AC non-inductive. **Last digits of Mfr's Type indicate coil voltage.** 6-volt AC types have 2-ohm coil resistance; 6-volt DC, 12 ohms; 24-volt AC, 33 ohms; 24-volt DC, 192 ohms; 110-volt DC, 5042 ohms; 115-volt AC, 1000 ohms. 2²³⁄₃₂x1⅜x1⅜". Shpg. wt., 4 oz.

41 D 7615	1210-2C-24AC	DPDT	6.00	5.40	5.10	4.80	4.20
41 D 7617	1210-2C-115AC	DPDT	6.00	5.40	5.10	4.80	4.20
41 D 7621	1215-2C-24DC	DPDT	6.00	5.40	5.10	4.80	4.20
41 D 7616	1210-3C-24AC	3PDT	7.50	6.75	6.38	6.00	5.25
41 D 6229	1210-3C-115AC	3PDT	7.50	6.75	6.38	6.00	5.25
41 D 6231	1210-3C-230AC	3PDT	7.75	6.98	6.59	6.20	5.43
41 D 6232	1215-3C-24DC	3PDT	7.50	6.75	6.38	6.00	5.25

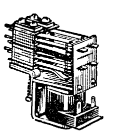
ALL-PURPOSE RELAYS



Provide unusually heavy power control for their compact size. All are rated 10 amps at 115 v., 60 cycle AC., except 4PDT types, rated 8 amps. 1-hole base mounting. **Last digits of Type indicate coil voltage.** SPST normally open. AC-type U.L. Listed. Size, 1¹¹⁄₁₆x1½x1". Shpg. wt., 4 oz.

41 D 7570	640-A-6AC	SPST	2.75	2.48	2.34	2.20	1.93
41 D 7574	640-A-24AC	SPST	2.75	2.48	2.34	2.20	1.93
41 D 7578	640-A-115AC	SPST	2.75	2.48	2.34	2.20	1.93
41 D 7591	645-A-24DC	SPST	2.75	2.48	2.34	2.20	1.93
41 D 7595	645-A-110DC	SPST	3.25	2.93	2.76	2.60	2.28
41 D 7575	640-C-24AC	SPDT	3.00	2.70	2.55	2.40	2.10
41 D 7579	640-C-115AC	SPDT	3.00	2.70	2.55	2.40	2.10
41 D 7592	645-C-24DC	SPDT	3.00	2.70	2.55	2.40	2.10
41 D 7572	640-2C-6AC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7576	640-2C-24AC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7580	640-2C-115AC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7585	645-2C-6DC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7589	645-2C-12DC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7593	645-2C-24DC	DPDT	3.25	2.93	2.76	2.60	2.28
41 D 7577	640-4C-24AC	4PDT	4.75	4.28	4.04	3.80	3.33
41 D 7581	640-4C-115AC	4PDT	4.75	4.28	4.04	3.80	3.33
41 D 7594	645-4C-24DC	4PDT	4.75	4.28	4.04	3.80	3.33
41 D 7598	645-4C-110DC	4PDT	5.00	4.50	4.25	4.00	3.50

15-AMP ALL-PURPOSE COMPACT RELAYS

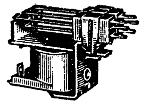


- **AC and DC Types; Up to 4PDT**
- **One Type Can Fill Almost All Needs**

Compact, reliable, low cost units. Factory adjusted and tested, ready for use. Silver contacts rated at 15 amps, 115 v., 60 cycle non-inductive load. AC coils listed will operate at —15% rated voltage; won't overheat at +20% voltage; DC coils, +10%, —20%. Power required: AC—6 VA, 60 cycles AC; DC—1.5 watts min and 3 watts max. Single screw center-hole mounting for ease of assembly (8-32 tap). Solder lug terminals. **Last digits in Mfr's Type indicate coil voltage.** Size, 2⁹⁄₁₆x2²⁹⁄₃₂x1³⁄₃₂". AC-type U.L. Listed. Shpg. wt., 5 oz.

41 D 7078	240-A-24AC	SPST	3.00	2.70	2.55	2.40	2.10
41 D 7079	240-A-115AC	SPST	3.00	2.70	2.55	2.40	2.10
41 D 7081	245-A-12DC	SPST	3.00	2.70	2.55	2.40	2.10
41 D 7082	245-A-24DC	SPST	3.00	2.70	2.55	2.40	2.10
41 D 7084	240-2C-24AC	DPDT	3.75	3.37	3.18	3.00	2.62
41 D 7085	240-2C-115AC	DPDT	3.75	3.37	3.18	3.00	2.62
41 D 7087	245-2C-12DC	DPDT	3.75	3.37	3.18	3.00	2.62
41 D 7088	245-2C-24DC	DPDT	3.75	3.37	3.18	3.00	2.62
41 D 7090	240-4C-24AC	4PDT	5.50	4.75	4.67	4.40	3.85
41 D 7091	240-4C-115AC	4PDT	5.50	4.75	4.67	4.40	3.85
41 D 7093	245-4C-12DC	4PDT	5.50	4.75	4.67	4.40	3.85
41 D 7094	245-4C-24DC	4PDT	5.50	4.75	4.67	4.40	3.85

SERIES 900 DPDT 10-AMP RELAYS



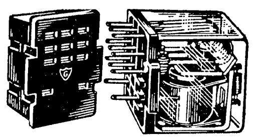
Low-cost DPDT relays featuring a trouble-free design that is based upon a minimum number of parts. All contacts are rated 10 amps at 115 volts, AC resistive. One-piece switch mounting clips and return springs, molded bobbins and coil covers, keyed and locked lifters. All relays are U.L. Listed. 1¹¹⁄₁₆x2¹¹⁄₁₆x1⁵⁄₆₄". Shpg. wt., 5 oz.

Stock No.	Coil Volts	Stock No.	Coil Volts	EACH 1-9	10-24	25-49
41 D 5315	24 AC	41 D 5332	6 DC	1.75	1.66	1.49
41 D 5319	115 AC	41 D 5337	12 DC	1.75	1.66	1.49
41 D 5326	230 AC	41 D 5338	24 DC	1.75	1.66	1.49

Bulk Pkg. of 50. Get bigger savings when you buy Series 900 Relays in bulk packages of 50 each. Relays in bulk packages come nested in convenient "Form Fitted" assembly line trays. Wt., 19 lbs.

Stock No.	Coil Volts	PKG. OF 50 EACH	2-Up	Stock No.	Coil Volts	PKG. OF 50 EACH	2-Up
41 D 5345	24 AC	70.00	61.50	41 D 5348	6 DC	70.00	61.50
41 D 5346	115 AC	70.00	61.50	41 D 5395	12 DC	70.00	61.50
41 D 5347	230 AC	70.00	61.50	41 D 5396	24 DC	70.00	61.50

LOW-COST ENCLOSED RELAYS



Feature terminals that can be used as solder lug, socket plug-in, or with AMP 110 Faston quick-connect series. Contacts rated 10 amps at 115 VAC, non-inductive. 1-piece switch reduces contact resistance. 1⁵⁄₃₂x1¹¹⁄₁₆x1⁹⁄₁₆". U.L. Listed. Less socket, below. 3 oz.

DPDT ACTION

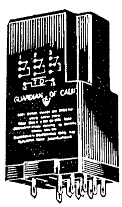
Stock No.	Type IR-	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7410	1220-2C-6A	6 AC	4.00	3.60	3.40	3.20	2.80
41 D 7413	1220-2C-24A	24 AC	4.00	3.60	3.40	3.20	2.80
41 D 7416	1220-2C-115A	115 AC	4.00	3.60	3.40	3.20	2.80
41 D 7412	1225-2C-12D	12 DC	4.00	3.60	3.40	3.20	2.80
41 D 7414	1225-2C-24D	24 DC	4.00	3.60	3.40	3.20	2.80

3PDT ACTION

Stock No.	Type IR-	Coil Volts	EACH 1-24	25-49	50-99	100-249	250-499
41 D 7422	1220-3C-24A	24 AC	4.50	4.05	3.83	3.60	3.15
41 D 7425	1220-3C-115A	115 AC	4.50	4.05	3.83	3.60	3.15
41 D 7426	1220-3C-230A	230 AC	4.75	4.28	4.04	3.80	3.33
41 D 7420	1225-3C-12D	12 DC	4.50	4.05	3.83	3.60	3.15
41 D 7423	1225-3C-24D	24 DC	4.50	4.05	3.83	3.60	3.15

Phenolic Relay Sockets. For use with solder lug or AMP Fasten 110 terminals. Shpg. wt., 2 oz.
41 D 7427. 1-9........Each .60 10-Up................Each .55

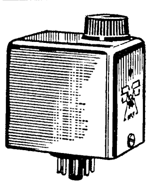
SOLID-STATE AC AND DC TIME DELAY RELAYS



Solves problems of operation control, recycling, safety delays, programmed sequences. Welded 3PDT encapsulated timing module handles 10 amp resistive load. Has 15-turn pot with accuracy of ±5% over combined voltage and temperature range (—40°F, +150°F), for setting and resetting. Recycle time is 50 milliseconds; repeatability, ±1%. DC units are polarity protected. Faston 110 mounting, see socket above. Chart included shows No. turns for required delay. 3x1.678x1.391". Wt., 5 oz.

Stock No.	Mfr's Type	Volt	Delay Sec.	EACH 1-49	50-99	100-249
41 D 5144	TD-63C15	115VAC	1-15	29.70	26.73	24.03
41 D 5145	TD-33C15	24DC	1-15	24.20	21.88	19.69
41 D 5146	TD-63C60	115VAC	10-60	30.06	27.54	24.79
41 D 5147	TD-33C60	24VDC	10-60	25.19	22.67	20.40
41 D 5148	TD-63C180	115VAC	50-180	36.08	33.16	29.84
41 D 5149	TD-33C180	24VDC	50-180	32.09	29.78	26.90

ECONOMY TIME DELAY RELAY



2PDT 5-amp relay operating from 115 VAC ±10% 50-60 cycles. Recycle time, 100 milliseconds; repeatability, 5% of nominal setting; accuracy, 10% of nominal setting. 10-turn pot adjusts from .5 to 30 seconds. Temperature range, —10°F to +100°F. Plug-in octal mounting. Chart included shows number of turns for required time delay. Size 3x2.062x2.625". Shpg. wt., 8 oz.

41 D 5150. Type TDO-62C30-115A..............1-49, Each 16.32
50-99, Each..........15.69 100-249, Each..............14.12

T-Bar® and Military Relays, Switches

ELECTRONIC CONTROLS INC. RELAYS AND SWITCHES

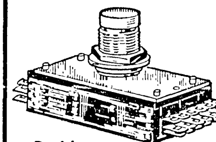
SPECIFICATIONS

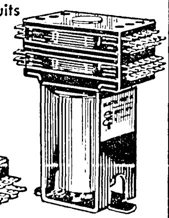
CONTACT RATINGS. Non-inductive: 150 watts, 3 amps make-or-break, 500 watts, 5 amps carry

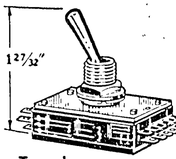
CONTACT LIFE. (in cycles): Mechanical: Min. 20,000,000; Electrical: From a minimum of 20,000,000 at 100 mils to a minimum of 100,000 at 3 amps, 150 watts resistive

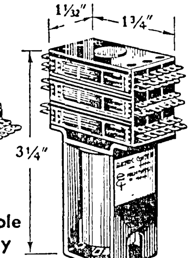
CONTACT MATERIAL: Gold-bonded fine Silver
CONTACT FORM: "C" double throw
OPERATE AND RELEASE TIMES. Less than 30 milliseconds
DIELECTRIC. Terminal-to-Case: 1000 VAC @ st. sea level and 20° C
TEMPERATURE RANGE. —55° C to +85° C
TERMINALS: Solder.

- Switch More Circuits in Less Space
- Control Up to 48 Circuits
- Contacts in Dust-Free Case


Pushbutton


24-Pole Relay


Toggle



36-Pole Relay

SERIES 801 T-BAR RELAYS

These relays and switches offer outstanding reliability. High dielectric case provides protection against dust and humidity for the contacts. T-Bar relay contacts are made of gold-bonded fine silver providing many years of service. Av. wt., 10 oz.

Stock No.	Mfr's Type	Coil VDC	Coil Ohms	Coil Amps	Watts @ Nom. Volts	Cont. Arr.	EACH 1-24	25-49	50-74	75-99
41 D 4616	801-4C24	24	193.0	.124	2.98	4PDT	8.58	8.14	7.73	7.35
41 D 4617	801-8C12	12	49.1	.244	2.96	8PDT	12.46	11.86	11.46	10.89
41 D 4618	801-8C24	24	193.0	.124	2.98	8PDT	11.33	10.78	10.42	9.90
41 D 4619	801-8C110	110	3963.0	.028	3.05	8PDT	11.33	10.78	10.42	9.90
41 D 4620	801-12C12	12	49.1	.244	2.96	12PDT	14.40	13.67	13.01	12.34
41 D 4621	801-12C24	24	193.0	.124	2.98	12PDT	13.09	12.43	11.83	11.22
41 D 4622	801-12C110	110	3963.0	.028	3.05	12PDT	13.09	12.43	11.83	11.22
41 D 4623	801-24C12	12	45.0	.267	3.19	24PDT	25.89	24.62	23.42	22.26
41 D 4624	801-24C24	24	174.0	.138	3.32	24PDT	23.54	22.38	21.29	20.24
41 D 4625	801-24C28	28	227.0	.123	3.44	24PDT	23.54	22.38	21.29	20.24
41 D 4626	801-24C110	110	3450.0	.032	3.54	24PDT	23.54	22.38	21.29	20.24
41 D 4627	801-36C12	12	28.0	.429	5.16	36PDT	34.89	33.15	31.46	29.89
41 D 4628	801-36C24	24	111.0	.216	5.15	36PDT	31.72	30.14	28.60	27.17
41 D 4629	801-36C28	28	150.0	.187	5.23	36PDT	31.72	30.14	28.60	27.17
41 D 4630	801-36C110	110	2355.0	.047	5.18	36PDT	31.72	30.14	28.60	27.17
41 D 4590	801-48C12	12	22	.545	6.54	48PDT	43.99	41.79	39.71	37.71
41 D 4591	801-48C24	24	94	.255	6.12	48PDT	43.99	41.79	39.71	37.71

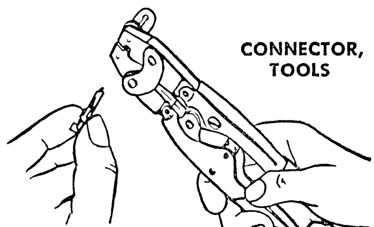
SERIES 802 BAT-HANDLE TOGGLE SWITCHES Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-74	75-99
41 D 5512	802-4C	4PDT	7.74	7.37	7.00	6.66
41 D 5513	802-8C	8PDT	9.81	9.32	8.86	8.42
41 D 6514	802-12C	12PDT	10.87	10.33	9.80	9.31
41 D 5515	802-24C	24PDT	21.32	20.28	19.26	18.33
41 D 5516	802-36C	36PDT	29.50	28.04	26.58	25.26
41 D 4592	802-48C	48PDT	53.10	48.00	43.00	38.70
41 D 4593	802-60C	60PDT	66.60	60.00	54.00	48.50
41 D 4594	802-72C	72PDT	80.00	72.00	65.00	59.00
41 D 4595	802-84C	84PDT	93.00	83.60	75.50	68.00
41 D 4596	802-96C	96PDT	106.00	95.50	86.00	77.50
41 D 4597	802-108C	108PDT	120.00	108.00	97.00	87.80

SERIES 803 MOMENTARY PUSHBUTTON SWITCHES Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Action	EACH 1-24	25-49	50-74	75-99
41 D 5517	803-4C	4PDT	6.12	5.81	5.52	5.25
41 D 5518	803-8C	8PDT	8.18	7.77	7.39	7.03
41 D 5519	803-12C	12PDT	9.24	8.78	8.33	7.92
41 D 5520	803-24C	24PDT	19.69	18.73	17.79	16.94
41 D 5521	803-36C	36PDT	27.87	26.49	25.10	23.87

CONNECTOR, TOOLS

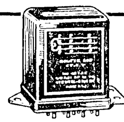

8601-51 CRIMPING TOOL

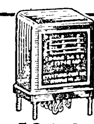
88601 T-Bar Connector. Snap-in terminals for wire. Wires are first crimped to snap-in terminals using tool (below). #20, 22 or 24 stranded wire with max. insulation dia. of .074". Shpg. wt., 2 oz.
41 D 5524. 1-23 .... Each 1.25
24-449 .... Each 1.15

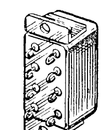
41 D 5522. 8601-51 Crimping Tool.... 35.00
41 D 5523. 8601-61 Extraction Tool.... 7.50

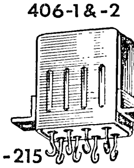
STRUTHERS-DUNN AEROSPACE AND MILITARY RELAYS

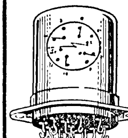
Used for guided missile and similar applications. **FC-1** has solder-hook-terminals; **FC-1-P** has plug-in terminals. Shock; 50g for 11 ms. Vibration: 15g to 2000 cycles. Operate/Release; 10 ms max. Bounce; 2 ms max. **FC-4-250** and **FC-6-250**: Shock; 50g for 11 ms. Vibration; 15g to 2000 cycles. Operate/Release; 10 ms max. on FC-4-250, 15 ms on FC-6-250. Bounce; 300 ms max. **FC-215**: Shock; 50g for 11 ms. Vibration; 20g to 2000 cycles. Operate/Release; 15 ms max. Bounce; 2 ms max. **FC-400** and **FC-406** Dual coils, balanced armatures, and bifurcated contacts. Plug-in terminals on Type FC-400-4 and on Type FC-406-4. Solder-hook-terminals on others. Shock: 25g for 11 ms. Vibration: 10g to 1500 cycles. Operate/Release; 20 ms for DC types, 20 ms for AC types. Bounce; .0005 sec. All are 26.5 v. except *115 VAC. †Temperature ranges: MIL-R-5757 types, —65° C to +125° C; MIL-R-6106 types, —70° C to +120° C.

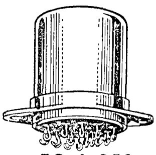

FC 400 & 406-4


FC 400 & 406-1 & -2


FC-1


FC-215


FC-4-250

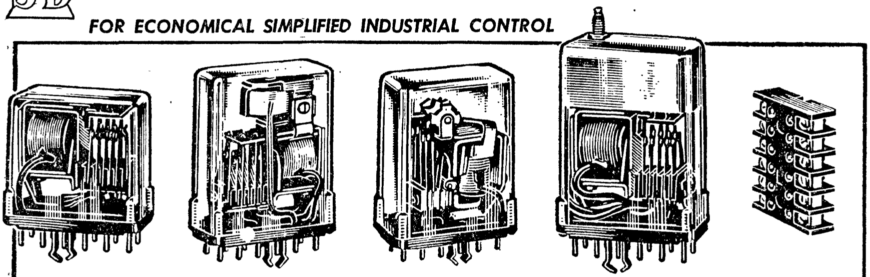

FC-6-250

Stock No.	Type FC-	†Government Designation	Con. Argmt.	Con. Amp.	Weight	EACH 1-49	50-99	100-249	250-499
41 D 4300	FC-1	MIL-R-5757	2PDT	2	1 oz.	14.00	13.00	12.00	11.00
41 D 4301	1-P	MIL-R-5757	2PDT	2	1 oz.	14.00	13.00	12.00	11.00
41 D 4302	4-250	RY4LB3B3L01 (MIL-R-5757/7)	4PDT	2	3 oz.	16.60	16.10	15.60	14.60
41 D 4303	6-250	RY4LC3B3L01 (MIL-R-5757/1)	6PDT	2	3.5 oz.	17.60	17.10	16.60	15.60
41 D 4304	215	MIL-R-5757	2PDT	10	2 oz.	12.00	11.50	11.00	10.50

Stock No.	Type FC-	†Government Designation	Con. Argmt.	Con. Amp.	Weight	EACH 1-499	500-999	1000-Up
41 D 4305	400-1	MS-25271-D1 (MIL-R-6106)	4PDT	10	6 oz.	16.50	16.00	15.25
41 D 4306	*400-2	MS-25271-A1 (MIL-R-6106)	4PDT	10	6 oz.	22.85	22.35	21.65
41 D 4308	*400-4	MS-25327-A1 (MIL-R-6106)	4PDT	10	6 oz.	24.50	24.00	23.25
41 D 4309	406-1	MS-25269-D1 (MIL-R-6106)	6PDT	5	6 oz.	18.75	18.25	17.50
41 D 4310	*406-2	MS-25269-A1 (MIL-R-6106)	6PDT	5	6 oz.	26.90	26.40	25.65
41 D 4312	*406-4	MS-25329-A1 (MIL-R-6106)	6PDT	5	6 oz.	25.75	25.25	24.50

Dunco Plug-In and Military Relays

FOR ECONOMICAL SIMPLIFIED INDUSTRIAL CONTROL



219BBXP 255XCXP 211XBXP 235AAXP Socket

DUNCO PLUG-INS

Plug-in bases for simplified construction. Transparent plastic covers provide effective insulation, mechanical protection, and facilitate inspection. Have 12-pin mounting plugs for insertion into heavy-duty Dunco #27390 sockets below. Friction springs on plugs polarize relays with respect to sockets, and prevent them from jarring loose. Have 150 v. electrical spacings of 1/4" over the surface and 1/8" through air; dielectric test, 1500 volts.

TYPE 219 FRAME AUXILIARY DPDT RELAYS

Have 10-amp contacts. Draw 80 ma with armature open (cold); 45 ma with armature sealed (hot). Approx. 60 cycle impedance is 2600 ohms (hot). Approx. cold resistance, 430 ohms. Operate time, 15 msec. max.; release time, 15 msec. max. 20,000,000 cycle no-load life. Operate at 85% nominal voltage; withstand 10% over voltage without damage. Base, 2 5/8x1 15/32"; height, 2 19/32" (less pins). 7 oz.

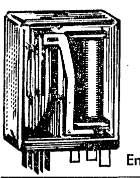
Stock No.	Mfr's Type 219-	DPDT Contacts, Plus	Volts	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4200	XBXP	....	115 AC	11.00	10.45	9.90	8.80	7.70
41 D 4766	BBXP	2 NO	24 AC	13.20	12.54	11.88	10.56	9.24
41 D 4201	BBXP	2 NO	115 AC	13.20	12.54	11.88	10.56	9.24
41 D 4764	BBXP	2 NO	24 DC	13.20	12.54	11.88	10.56	9.24
41 D 4765	BBXP	2 NO	115 DC	13.20	12.54	11.88	10.56	9.24
41 D 4769	ABAP	1 NO; 1 NC	24 AC	13.20	12.54	11.88	10.56	9.24
41 D 4202	ABAP	1 NO; 1 NC	115 AC	13.20	12.54	11.88	10.56	9.24
41 D 4767	ABAP	1 NO; 1 NC	24 DC	13.20	12.54	11.88	10.56	9.24
41 D 4768	ABAP	1 NO; 1 NC	115 DC	13.20	12.54	11.88	10.56	9.24

TYPE 235AAXP FRAME TIME-DELAY 115 VAC RELAYS

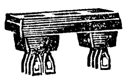
Type 219 standard frame relay (above) plus static timing element. Timing function performed by high quality epoxy encapsulated solid state network which triggers relay end of preset time. Time delay is screwdriver adjustable over relay's entire 90:1 time range. Contacts: SPDT and 1 NO. Size: base, 2 5/8x1 15/32"; height, 3 3/4" (less pins and adj. stud). Shpg. wt., 11 oz.

Stock No.	Time Range	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4211	0.2 to 18 sec.	52.50	49.88	47.25	42.00	36.75
41 D 4212	2.0 to 180 sec.	52.50	49.88	47.25	42.00	36.75

214 FRAME AC, DC RELAYS



Enclosed

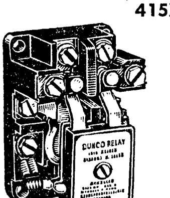


Open Type

Low-cost compact Series 214 relays for general-purpose use. Outstanding contact reliability. Contacts rated 5 amps at 115 VAC. Coils: 115 VAC, 17 ma, 2000 ohms; 24 VDC, 50 ma, 480 ohms. Overall size: open type, 1 11/16x1 3/16x1 7/8"; plastic enclosed, 2 3/4x1 3/8" square. Wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4753	214XBX	115 AC	DPDT	3.10	2.95	2.79	2.48	2.17
41 D 4754	214XBX	24 DC	DPDT	3.10	2.95	2.79	2.48	2.17
41 D 4755	214XCX	115 AC	3PDT	3.50	3.33	3.15	2.80	2.45
41 D 4756	214XCX	24 DC	3PDT	3.50	3.33	3.15	2.80	2.45
ENCLOSED TYPE								
41 D 4757	214XBX48P	115 AC	DPDT	5.00	4.75	4.50	4.00	3.50
41 D 4758	214XBX48P	24 DC	DPDT	5.00	4.75	4.50	4.00	3.50
41 D 4759	214XCX48P	115 AC	3PDT	6.00	5.70	5.40	4.80	4.20
41 D 4760	214XCX48P	24 DC	3PDT	6.00	5.70	5.40	4.80	4.20

415XBX SMALL POWER RELAY



Designed for control of instruments, small motors, solenoid valves, heating elements and similar applications. Heavy-duty DPDT contacts. Direct replacement for Ward Leonard 105; Square D Class 8501, Type C; and ASCO 216. Silver cadmium oxide, single-break contacts arranged for optimum wiping action. Coil is epoxy encapsulated for environmental protection; 115 v., 50-60 cycle AC. Contact rating: 15 amps at 115 VAC, resistive; 10 amps at 230 VAC, resistive. Size: base, 1 7/8x 2 3/4"; ht., 1 3/4". Shpg. wt., 8 oz.

41 D 4203. 1-24......Each 6.50 25-49..............Each 6.18
50-74...Each 5.85 75-99...Each 5.20 100-249........Each 4.55

211XBXP FRAME SEQUENCE DPDT RELAY

DPDT relay that provides exceptional sequence versatility, and features a double cam movement on each step. Cam rotates half a step when coil is energized and completes step when de-energized. 8-tooth ratchet. Contacts transfer on each impulse; are rated 5 amps @ 115 v., AC and 24 v., DC; 0.5 amp 115 v., DC. Base, 1 15/32x 2 5/8"; height, 3 3/4" (less pins). Shpg. wt., 9 oz.

Stock No.	Volts	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4763	24 AC	22.80	21.66	20.52	18.24	15.96
41 D 4210	115 AC	22.80	21.66	20.52	18.24	15.96
41 D 4761	24 DC	22.80	21.66	20.52	18.24	15.96
41 D 4762	115 DC	22.80	21.66	20.52	18.24	15.96

TYPE 255 FRAME LATCH RELAYS

Plug-in mechanical latch, electrical reset relays. Combine standard Type 219 frame (left) with latching frame; same specs as Type 219. Adjustable rigid metal structure assures latching to main armature. Base, 2 5/8x1 15/32"; ht., 3 3/4" (less pins). 10 oz.

Stock No.	Type 225-	Contact Form	Volts	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4204	XBXP	DPDT	115 AC	22.00	20.90	19.80	17.60	15.40
41 D 4772	XCXP	3PDT	24 AC	24.20	22.99	21.78	19.36	16.94
41 D 4205	XCXP	3PDT	115 AC	24.20	22.99	21.78	19.36	16.94
41 D 4770	XCXP	3PDT	24 DC	24.20	22.99	21.78	19.36	16.94
41 D 4771	XCXP	3PDT	115 DC	24.20	22.99	21.78	19.36	16.94
41 D 4207	BXBP	2NO;2NC	115 AC	24.20	22.99	21.78	19.36	16.94

TYPE 27390 12-PIN SOCKET

Heavy-duty socket for all 12-pin relays on this page and plastic enclosure below. Front-connected screws have clamp plates for up to 2 No. 14 wires. Base, 2 3/16x2 5/8"; height, 27/32". Shpg. wt., 3 oz.

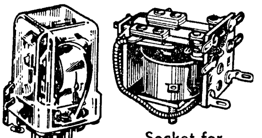
41 D 4213..2.00

PLASTIC RELAY ENCLOSURES

Make your own plug-in type enclosure for experimental circuits, timing devices, etc. Feature same construction as enclosures used in plug-in relays shown on this page. Fit Type 27390 Socket above. Case is sturdy, clear thermoplastic with molded phenolic base, 2 5/8x1 15/32". Twelve usable pins, with 10-amp rating. Polarized by mounting clip. All necessary hardware is included. Shpg. wt., 4 oz.

41 D 4214. Type CX 3671. 2 19/32" high, less pins..........Each 2.25
41 D 4215. Type CX 3672. 3 3/4" high, less pins..........Each 2.35

SERIES 280 LIGHT-DUTY ENCLOSED RELAYS WITH WIRE-IN/PLUG-IN VERSATILITY



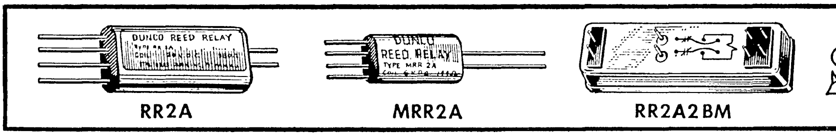
Plug-In Socket for Wire-In

Compact, stud-mounted relay can be wired permanently into circuit, or becomes plug-in type by adding socket. Solder-tab terminals fit directly into spring clips in socket. Gold-plated relay terminals, socket terminals, socket inserts for low resistance. Dust-tight removable housing of polycarbonate plastic. Contact rating, 2 amps resistive or 1 amp inductive, 29 VDC or 115 VAC. Insulation resistance, 1000 megohms. Dielectric strength, 500 v. rms across contact gaps; 1000 v. rms across insulated parts. Coil resistance, 700 ohms. Life: mechanical, 50,000,000 operations; electrical, 1,000,000 operations at rated loads. Type 280XBX is DPDT; Type 280XDX is 4PDT. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Coil DC Voltage Nom.	Min.	Max.	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4748	280XBX	24	12	30	3.30	3.14	2.97	2.64	2.31
41 D 4750	280XDX	24	16	30	3.70	3.52	3.33	2.96	2.59
41 D 4751	31705	DPDT Socket			.50	.48	.45	.40	.35
41 D 4752	31706	4PDT Socket			.60	.57	.54	.48	.42

Dunco Reed and 600-Volt Relays, Timers

- Standard and Miniature Reed Relays
- 4 and 15-watt ratings
- Wide variety or contact forms
- Choice of molded or printed circuit type



RR2A MRR2A RR2A2BM

STANDARD RR REED RELAYS

Maximum Contact Rating: 15 watts; 250 volts or 1 amp. Contact Resistance: 0.05 ohm, maximum. Internal Atmosphere: dry, inert gas. Life Expectancy (Operations): 20,000,000 @ maximum rating; 100,000,000 @ ½ maximum rating; 200,000,000 @ dry circuit levels. Minimum Breakdown: 400 v. AC rms. Operating Power (approx.): .5 watts/pole (nom.); .2 watts/pole (min.). Contact Form Indicated by Mfr's Type Number: Example: Suffix 1A indicates 1 Form A contact: Suffix 2A2B indicates 2 Form A and 2 Form B contacts. Type RRLM-1C-M is single coil bistable, magnetic latching, 1 Form C contact; RRLM-1C-M102 is same, but double coil. Size: RR-1A, .655″ dia. x 1.875″; RR-2A, .670x.840x1.875″; RR-4A-F, .810x1.385x1.875″; RR-1A1B-M, .800x.550x2.313″; RR-2A2B-M, 1.200x.550x2.313″; RR-1C-M, RRLM-1C-M and RRLM-1C-M102, .600x.550x2.313″.

MOLDED SHIELDED REEDS. Encapsulated, wire-lead reed relays with wrap around magnetic shielding. Fast-acting—operate in 1.5 to 2.5 msec. Insulation resistance, 500,000 megohms minimum. 4 oz.

Stock No.	Mfr's Type and Contact Form	Coil V	Ohms	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4216	RR-1A	6	90	2.90	2.75	2.61	2.32	2.03
41 D 4218	RR-1A	12	360	2.90	2.75	2.61	2.32	2.03
41 D 4219	RR-1A	24	1440	2.90	2.75	2.61	2.32	2.03
41 D 4221	RR-2A	6	36	4.50	4.28	4.05	3.60	3.15
41 D 4222	RR-2A	12	145	4.50	4.28	4.05	3.60	3.15
41 D 4223	RR-2A	14	580	4.50	4.28	4.05	3.60	3.15
41 D 4225	RR-4A-F	12	95	7.80	7.41	7.02	6.24	5.49
41 D 4226	RR-4A-F	24	380	7.80	7.41	7.02	6.24	5.49

PRINTED CIRCUIT SHIELDED REEDS. Completely enclosed in steel housing, unaffected by external fields. —55° C to +85° C. Shock test, 50g. Insulation res., 10,000 meg. Non-magnetic tin-coated #22 gauge copper wire terminals are easy to insert and solder to PC boards. Supplied with hold down wires. 8 oz.

Stock No.	Mfr's Type and Contact Form	Coil V	Ohms	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4247	RR-1A1B-M	12	144	6.40	6.08	5.76	5.12	4.48
41 D 4248	RR-1A1B-M	24	576	6.40	6.08	5.76	5.12	4.48
41 D 4251	RR-2A2B-M	24	288	11.20	10.64	10.08	8.96	7.84
41 D 4260	RR-1C-M	6	288	11.50	10.93	9.20	9.20	8.05
41 D 4261	RR-1C-M	12	1152	11.50	10.93	9.20	9.20	8.05
41 D 4262	RR-1C-M	24	4600	11.50	10.93	9.20	9.20	8.05
41 D 4265	RRLM-1C-M	24	4600	10.70	10.16	9.63	9.63	7.49
41 D 4267	RRLM-1C-M102	12	480	11.50	10.93	9.20	9.20	8.05
41 D 4268	RRLM-1C-M102	24	1920	11.50	10.93	9.20	9.20	8.05

MINIATURE MRR REED RELAYS

Maximum Rating: 4 watts. Contact Resistance: 0.2 ohm, maximum. Internal Atmosphere: dry, inert gas. Life Expectancy (Operations): 10,000,000 @ max. rating; 20,000,000 @ ½ max. rating; 200,000,000 @ dry circuit levels. Minimum Breakdown: 250 v. AC rms. Operating Power (approx.): 125 mw/pole (nominal); 80 mw/pole minimum. Contact Form: Indicated by Manufacturer's Type Number: Example: Suffix 1A indicates 1 Form A contact; 1A1B indicates 1 Form A and one Form B contacts. Final suffix M indicates printed circuit type shielded reeds. Size: MRR-1A, .425″ dia. x 1.062″; MRR-2A, .425x.515x1.062″; MRR-4A, .535x.810x1.062″; all other types, .500x.500x1.125″.

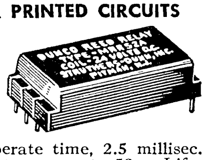
MOLDED SHIELDED REEDS. Extremely fast-acting miniature relays—operate in 1-2.5 msec. Release time is less than 0.3 msec. Insulation resistance is 500,000 megs. Shpg. wt., 2 oz.

Stock No.	Mfr's Type and Contact Form	Coil V	Ohms	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4227	MRR-1A	6	288	3.80	3.61	3.42	3.05	2.66
41 D 4228	MRR-1A	12	1152	3.80	3.61	3.42	3.04	2.66
41 D 4206	MRR-1A	24	4600	5.60	5.32	5.04	4.48	3.92
41 D 4229	MRR-2A	6	144	5.60	5.32	5.04	4.48	3.92
41 D 4230	MRR-2A	12	576	5.60	5.32	5.04	4.48	3.92
41 D 4208	MRR-2A	24	2300	7.00	6.65	6.30	5.60	4.90
41 D 4231	MRR-4A	6	74	9.60	9.12	8.64	7.68	6.72
41 D 4232	MRR-4A	12	288	9.60	9.12	8.64	7.68	6.72
41 D 4209	MRR-4A	24	1152	9.60	9.12	8.64	7.68	6.72

PRINTED CIRCUIT SHIELDED REEDS. Ultra-compact, to meet the requirements of increased component density on printed circuit boards. Contact rating, 4 watts.

Stock No.	Mfr's Type and Contact Form	Coil V	Ohms	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4273	MRR-1A-M	6	144	5.20	4.94	4.68	4.16	3.64
41 D 4274	MRR-1A-M	12	576	5.20	4.94	4.68	4.16	3.64
41 D 4275	MRR-1A-M	24	2304	5.20	4.94	4.68	4.16	3.64
41 D 4276	MRR-1B-M	6	144	5.40	5.13	4.86	4.32	3.78
41 D 4277	MRR-1B-M	12	576	5.40	5.13	4.86	4.32	3.78
41 D 4278	MRR-1B-M	24	2304	5.40	5.13	4.86	4.32	3.78
41 D 4280	MRR-1A1B-M	12	288	7.00	6.65	6.30	5.60	4.90
41 D 4281	MRR-1A1B-M	24	1152	7.00	6.65	6.30	5.60	4.90
41 D 4283	MRR-2A-M	12	288	6.20	5.89	5.58	4.96	4.34
41 D 4284	MRR-2A-M	24	1152	6.20	5.89	5.58	4.96	4.34

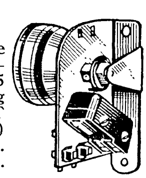
SUBMINIATURE REED RELAYS FOR PRINTED CIRCUITS



Thinnest 2 and 4-pole reed relays yet developed. Fit tight against mtg. board, stand only 0.350″ high. Electromagnetically shielded internally and encapsulated into rigid, homogeneous structures. Standard 0.172″ grid-spaced right angle leads make incorrect insertion impossible. Contact rating, 10 watts. Operate time, 2.5 millisec. Temp. range, 0°C to +50°C. Shock resistance, up to 50 g. Life: 200,000,000 oper. at dry circuit levels; 10,000,000 at maximum rating. Insulation resistance, 1000 megohms. Type MRRS2S is DPST, normally open. Type MRRS4A is 4PDT, normally open. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Coil DC Volts Nom.	Oper.	Ohms	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4288	MRRS2A	12	9.6	380	5.50	5.23	4.95	4.40	3.85
41 D 4289	MRRS2A	24	19.2	1340	5.50	5.23	4.95	4.40	3.85
41 D 4290	MRRS4A	12	9.6	125	7.00	6.65	6.30	5.60	4.90
41 D 4291	MRRS4A	24	19.2	500	7.00	6.65	6.30	5.60	4.90

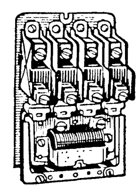
REPEATING-RECYCLING MOTOR TIMERS



TYPE APSY1. Round-and-round Repeating type with 1 min. total cycle. 50/50 split adj. cams operate SPDT contacts. 10 amps @ 115 v. AC; 5 amps @ 230 v. AC (½ hp). TYPE PSAP4. Recycling type with adj. "On" time delay (5-45 sec.). SPDT contact transfers at pre-set time. 10 amps (½ hp) @ 115/230 v. AC, 12 v. DC; 1½ amps at 24 v. DC; .2 amp @ 125 v. DC; .1 amp @ 250 v. DC. Motors rated 60 cycles, 115 v. AC. Av. wt., 1 lb.

Stock No.	Mfr's Type	Size	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4823	APSY1	2³⁄₁₆x2¼″	22.00	20.90	19.80	17.60	15.40
41 D 4824	PSAP4	3¹¹⁄₁₆x2⅛″	19.90	18.91	17.91	15.92	13.93

SERIES MC 600-VOLT RELAY



SPECIFICATIONS

Contact Ratings: 10 amps to 600 v. AC; 6 amps at 115 v. DC, 1 amp at 230 v, DC (N.O.); 5 amps at 115 v. DC, lamps at 230 v. DC (N.C.). Operate Time (AC): Approx. 30 ms. Release Time: 20 ms. Coils: Cont. duty; need 100 VA open, 30 VA sealed. Insulation: Class A, 2500 v. AC. diel. test. Size: 601-8, 5¹¹⁄₁₆x5⅛x3³⁄₃₂″; others, 5⁵⁄₁₆x3¼x3³⁄₃₂″. Vert. mtg.

Type MCL AC-Latch Relay. Modular construction, with mechanical latch, electrical reset. When operating coil is energized, roller engages a metal latch on relay yoke. Armature stays closed even with power failure or vibration. Energizing the latch coil releases roller and main armature drops out. Typical uses include: logic functions involving "memory"; when control circuits must function through circuit or power failure; to hold contacts open or closed for long periods without using coil power; when AC hum is objectionable. Silver-to-silver wiping contacts, solenoid operated. *For purchaser's use only; not for resale. Av. shpg. wt., 3 lbs.

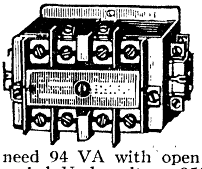
Stock No.	Mfr's Type	Cont. Norm. Open	Closed	AC Volts	EACH *User	OEM
41 D 4685	601L-H-2SO	2	0	110	29.00	20.88
41 D 4686	601L-H-2SO	2	0	220	29.00	20.88

Type MC Single-Contact Relay. As above, without latching. High speed, for controlling any type load. Magnet assemblies and coils interchangeable; add or change contacts fast. Quiet, self-aligning armatures; nylon guides. Visual checkout. Av. shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Cont. Norm. Open	Closed	AC Volts	EACH *User	OEM
41 D 4679	601-4-4SO	4	0	115	20.00	14.40
41 D 4680	601-4-4SO	4	0	230	20.00	14.40
41 D 4681	601-8-4S4	4	4	115	33.00	23.76
41 D 4682	601-8-4S4	4	4	230	33.00	23.76
41 D 4683	601-8-6S2	6	2	115	33.00	23.76
41 D 4684	601-8-6S2	6	2	230	33.00	23.76
41 D 4826	001 Repl. Contact Kit, N.O.				3.00	......
41 D 4827	002 Repl. Contact Kit, N.C.				3.00	......

Motor Starters, Contactors, Midget Relays

6000 SERIES 20 AND 30-AMPERE AC MAGNETIC CONTACTORS



Take less than 11 sq. in. panel space: vertical or horizontal mounting. Isolated double-break contacts. Molded continuous-duty coils need 94 VA with open armature, 16 VA sealed. Undervoltage, 85% of rated voltage; overvoltage, 110%. Class A insul., 2500 v. test. †8 Hour Rating: Size 0, Open 20 amps, Encl. 18 amps; Size 1, Open 30 amps, Encl. 27 amps. HWD, 4¹³⁄₃₂x3¾x2¹³⁄₁₆". *Purchaser's use, not for resale. 4 lbs.

3-POLE CONTACTORS—Ratings Shown for 2-3 Phase

Size †	Volts 60 Hz	OPEN TYPE Stock No.	Mfr's Type	PRICE EACH *User	OEM	ENCLOSED TYPE 1 Stock No.	Mfr's Type	PRICE EACH *User	OEM
0	110/115	41 D 4691	6000-30101	29.00	20.88	41 D 4687	6000-31101	31.00	22.32
1	110/115	41 D 4692	6001-30101	34.00	24.48	41 D 4688	6001-31101	36.00	25.92
0	208/220	41 D 4693	6000-30201	29.00	20.88	41 D 4689	6000-31201	31.00	22.32
1	208/220	41 D 4631	6001-30201	34.00	24.48	41 D 4690	6001-31201	36.00	25.92
4-POLE CONTACTORS—Ratings Shown for 2 Phase, 4 Wire									
0	110	41 D 4636	6000-40101	37.00	26.64	41 D 4632	6000-41101	39.00	28.08
1	110	41 D 4637	6001-40101	42.00	30.24	41 D 4633	6001-41101	44.00	31.68
0	208/220	41 D 4638	6000-40201	37.00	26.64	41 D 4634	6000-41201	39.00	28.08
1	208/220	41 D 4639	6001-40201	42.00	30.24	41 D 4635	6001-41201	44.00	31.68

6000 SERIES 20 AND 30-AMP AC MAGNETIC NON-REVERSING STARTERS

Used for 2 or 3-wire control; includes maintaining contact for 3-wire control for positive low-voltage protection. §Horizontal types take 2 overload relays. If 3rd overload is needed, it must be mounted on control panel. HWD, 3¾x7⅞x4⁹⁄₁₆". †Vertical—3rd overload relay can be added to base plate. HWD, 6⅝x3¾x4⁹⁄₁₆". ‡Type 1 General-Purpose Enclosure accepts vertical configuration only. With master reset button, knockout on enclosure. HWD, 10⁹⁄₆₄x6³¹⁄₃₂x5½". See next page for heaters, extra relays. Av. wt., 6 lbs.

3-POLE, 2 OR 3-PHASE, With Two Overload Relays (*Purchaser's use, not for resale)

Volts at 60 Cycles	Amperes	Size	OPEN TYPE (Horizontal§) Stock No.	Mfr's Type	OPEN TYPE (Vertical†) Stock No.	Mfr's Type	PRICE EACH Either Type *User	OEM	TYPE 1 ENCLOSURE (General-Purpose‡) Stock No.	Mfr's Type	PRICE EACH *User	OEM
110	20	0	41 D 4640	6010-3H101	41 D 4644	6010-3V101	35.50	25.56	41 D 4725	6010-31101	37.50	27.00
110	30	1	41 D 4641	6011-3H101	41 D 4645	6011-3V101	40.50	29.16	41 D 4726	6011-31101	42.50	30.60
208	20	0	41 D 4642	6010-3H201	41 D 4646	6010-3V201	35.50	25.56	41 D 4727	6010-31201	37.50	27.00
220	30	1	41 D 4643	6011-3H201	41 D 4647	6011-3V201	40.50	29.16	41 D 4728	6011-31201	42.50	30.60

ACCESSORIES FOR SERIES 6000 CONTACTORS, STARTERS

Type 6M71 Overload Relay. Thermal inverse time-delay with manual reset button. Less heater (below). Heaters for 40°C rise motors. Allow a maximum of about 125% of rated motor current; for 140% of rated motor current, use one size larger. For 50°C rise motors, use one size smaller. If ambient temperature at motor exceeds that at controller by 10°C, use one size smaller. Shpg. wt., 8 oz.
41 D 4732..Each 4.50

Type 6M81 "Start-Stop" Pushbutton. Fits Type 1 enclosure. With hardware for easy installation. Shpg. wt., 8 oz.
41 D 4733..Each 6.00

Type 6M82 "Hand-Off-Auto" Selector Switch. Fits Type 1 enclosure. With hardware for easy installation. Shpg. wt., 8 oz.
41 D 4734..Each 6.00

Type 6M60 Normally Open Auxiliary Contacts. Rated 3 amps normal, 30 amps inrush at 110-125 v. AC. Wt., 4 oz.
41 D 4729..Each 4.00

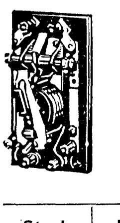
41 D 4828. Type 1 General-Purpose Enclosure. 3 lbs.......Each 7.00

HEATERS FOR OVERLOAD RELAYS

Mfr's Type	Full-Load Amps Min.	Max.	Trip Amps	Mfr's Type	Full-Load Amps Min.	Max.	Trip Amps
W-7	1.0	1.14	1.25	W-27	6.7	7.14	8.4
W-8	1.2	1.31	1.5	W-50	7.15	7.99	8.8
W-10	1.32	1.5	1.65	W-51	8.0	9.1	10.0
W-12	1.52	1.73	1.9	W-52	9.4	10.24	11.75
W-14	1.84	2.0	2.3	W-53	10.25	11.7	12.8
W-16	2.24	2.39	2.8	W-55	11.85	13.5	14.8
W-18	2.4	2.73	3.0	W-57	13.6	15.1	17.0
W-20	3.2	3.62	4.0	W-58	15.2	17.3	19.0
W-22	4.0	4.39	5.0	W-100	17.0	19.99	22.0
W-23	4.4	5.0	5.5	W-101	20.0	22.7	25.0
W-25	5.6	6.35	7.0	W-103	25.6	28.0	32.0

41 D 4825 C. Specify Mfr's Type when ordering..........Each 1.50

B11 MIDGET-FRAME SEQUENCE RELAYS



Miniature relays have DPST, cam-operated contacts that continuously repeat a predetermined sequence, stepped from one position to the next by impulse to the coil. Type B11BXX relay contacts open and close together; Type B11AXA relay contacts open and close alternately. Contact ratings: 6 amps at 24 or 115 v. AC or 24 v. DC; 3 amps at 230 v. AC; 0.5 amp at 115 v. DC. Both relay types have six #6-32 stud terminals, front-connected for easy accessibility. Specify coil voltage when ordering. Size, 2x3¹³⁄₁₆". Av. wt., 1 lb.

Stock No.	Mfr's Type	Volts AC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4799	B11BXX	115	22.00	20.90	19.80	17.60	15.40
41 D 4800	B11BXX	230	22.00	20.90	19.80	17.60	15.40
41 D 4801	B11AXA	115	22.00	20.90	19.80	17.60	15.40
41 D 4802	B11AXA	230	22.00	20.90	19.80	17.60	15.40

STANDARD MIDGET RELAYS

Dependable relays for control circuits and for operating small motors, heaters, lights. Contact resistive ratings: 6 amps at 24 or 115 v. AC or 24 v. DC; 3 amps at 230 v. AC; 0.5 amp at 115 v. DC. Inrush on motor or lamp loads should not exceed 20 amps. Type B1HXX has 4 #6-32 front-connected stud terminals; Type B1XAX has 5; Type B1XBX has 8; Type A1XCX has 11. All have insulation spacing in accordance with U.L. requirements for 300 volts. All metal parts have cadmium plating and chromate finish. Size: B1 Series, 1⅞x2¾"; A1XCX, 2½x3½". Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	V AC	Contact Action	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4775	B1HXX	24	DB-NO	8.10	7.70	7.29	6.48	5.67
41 D 4776	B1HXX	115	DB-NO	8.10	7.70	7.29	6.48	5.67
41 D 4777	B1HXX	230	DB-NO	8.10	7.70	7.29	6.48	5.67
41 D 4778	B1XAX	24	SPDT	8.90	8.46	8.01	7.12	6.23
41 D 4779	B1XAX	115	SPDT	8.90	8.46	8.01	7.12	6.23
41 D 4780	B1XAX	230	SPDT	8.90	8.46	8.01	7.12	6.23
41 D 4781	B1XBX	24	DPDT	11.40	10.83	10.26	9.12	7.98
41 D 4782	B1XBX	115	DPDT	11.40	10.83	10.26	9.12	7.98
41 D 4783	B1XBX	230	DPDT	11.40	10.83	10.26	9.12	7.98
41 D 4784	A1XCX	24	3PDT	15.40	14.63	13.86	12.32	10.78
41 D 4785	A1XCX	115	3PDT	15.40	14.63	13.86	12.32	10.78
41 D 4786	A1XCX	230	3PDT	15.40	14.63	13.86	12.32	10.78

FRAME 51 MIDGET MECHANICAL LATCH RELAYS

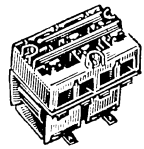
For logic functions involving memory, independent operation of control circuits, elimination of AC hum and prolonged open or closed contacts without using coil power. Contacts, after activation by impulse to main coil, remain in energized position until reset electrically. Contact ratings: 6 amps at 24 or 115 v. AC or 24 v. DC; 3 amps at 230 v. AC; 0.5 amp at 115 v. DC. Coils approx. 6 VA AC; 3 watts DC; continuous duty. Insulation meets U.L. requirements for 300 v. Types 51BXX46 and 51AXA46 have 8 #6-32 stud term.; Type 51XBX46, 10; Type 51BXB46, 12. Size: 51BXX46 and 51AXA46, 2⅜x3¼"; 51XBX46 and 51BXB46, 2⅜x5⁷⁄₁₆". Shpg. wt., 1½ lbs.

41 D 4787	51BXX46	24	DP-NO	16.50	15.68	14.85	13.20	11.55
41 D 4788	51BXX46	115	DP-NO	16.50	15.68	14.85	13.20	11.55
41 D 4789	51BXX46	230	DP-NO	16.50	15.68	14.85	13.20	11.55
41 D 4790	51AXA46	24	1NO-1NC	16.50	15.68	14.85	13.20	11.55
41 D 4791	51AXA46	115	1NO-1NC	16.50	15.68	14.85	13.20	11.55
41 D 4792	51AXA46	230	1NO-1NC	16.50	15.68	14.85	13.20	11.55
41 D 4793	51XBX46	24	DPDT	27.50	26.13	24.75	22.00	19.25
41 D 4794	51XBX46	115	DPDT	27.50	26.13	24.75	22.00	19.25
41 D 4795	51XBX46	230	DPDT	27.50	26.13	24.85	22.00	19.25
41 D 4796	51BXB46	24	2NO-2NC	27.50	26.13	24.75	22.00	19.25
41 D 4797	51BXB46	115	2NO-2NC	27.50	26.13	24.75	22.00	19.25
41 D 4798	51BXB46	230	2NO-2NC	27.50	26.13	24.75	22.00	19.25

Struthers-Dunn and Ebert Relays

STRUTHERS-DUNN RELAYS

TYPE 275KXX REVERSING CONTACTOR



Compact relay has simplified clapper armature with 3-point suspensions. Uses 50% less coil power than solenoid type contactors. Two 3-pole contactors on common frame, interlocked to prevent simultaneous closure. Rated ¾ hp at 120 v. single phase; 1 hp at 120 v., 2-3 phase, 240/480 v., 1-2-3 phase. Size, 3⅛x2$^{3}/_{16}$x2⅞". U.L. and C.S.A. Listed. Shpg. wt., 1 lb.

Stock No.	Coil (VAC)	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4738	24	15.00	14.25	13.50	12.00	10.50
41 D 4739	120	15.00	14.25	13.50	12.00	10.50
41 D 4740	230	15.00	14.25	13.50	12.00	10.50

Electrical Interlock. Converts Types 27KXX to 27KXX74.
41 D 4747. 1-24......Each 3.00 25-49..............Each 2.85
50-74....Each 2.70 75-99....Each 2.40 100-249....Each 2.10

HEAVY-DUTY MOTOR-REVERSING POWER CONTACTOR

Type B175KXX. Controls reversal of single-phase AC, polyphase AC, and DC motors. Two 3-pole solenoid-operated contactors mounted on common frame, mechanically interlocked to prevent simultaneous closure. Double-break silver contacts rated 2 hp at 110-220 v., 2-3 phase; 3 hp at 440-550 v., 2-3 phase; 1½ hp at 230 v., 1 hp at 115 v. single phase. 5¼x4$^{7}/_{16}$x2½". U.L., C.S.A. Listed. Shpg. wt., 2¾ lbs.

41 D 4735	24	25.00	23.75	22.50	20.00	17.50
41 D 4736	115	25.00	23.75	22.50	20.00	17.50
41 D 4737	230	25.00	23.75	22.50	20.00	17.50

TYPE 48 REVERSING POWER CONTACTORS

Single-unit versions of Type B175KXX. Contacts are single-throw, normally open. Double-break silver contact in melamine arc chutes. Contact ratings: 1½ hp (15 amps) at 230 v., single phase; 1 hp (15 amps) at 115 v., single phase. U.L. and C.S.A. Listed. Terminals accessible from front. Size: Type 48KXX, 5⅛x2$^{13}/_{16}$x2½", Shpg. wt., 1¼ lbs.; 48LXX, 5⅛x3⅝x2½", Shpg. wt., 1½ lbs.

Stock No.	Mfr's Type	Coil (VAC)	Poles	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4741	48KXX	24	3	14.30	13.59	12.87	11.44	10.01
41 D 4742	48KXX	115	3	14.30	13.59	12.87	11.44	10.01
41 D 4743	48KXX	230	3	14.30	13.59	12.87	11.44	10.01
41 D 4744	48LXX	24	4	16.50	15.68	14.85	13.20	11.55
41 D 4745	48LXX	115	4	16.50	15.68	14.85	13.20	11.55
41 D 4746	48LXX	230	4	16.50	15.68	14.85	13.20	11.55

STANDARD INDUSTRIAL POWER RELAYS

Single-coil with heavy duty contacts that transfer when coil is energized. For supervisory, interlocking, power transfer. Coils rated 15 VA AC, 7 watts DC. Contact ratings: Single-break type, 30 amps at 24, 115, 230 v. AC or 24 v. DC; 3 amps at 115 v. DC; ¾ amp at 230 v. DC; double-break, 30 amps at 24, 115, 230 v. AC or 24 v. DC; 6 amps at 115 v. DC; 3 amps at 230 v. DC. *U.L. Listed. Stud terminals. Size: Type 84XBX, 3x6¼"; others, 3x4¼". Wt., 1 lb.

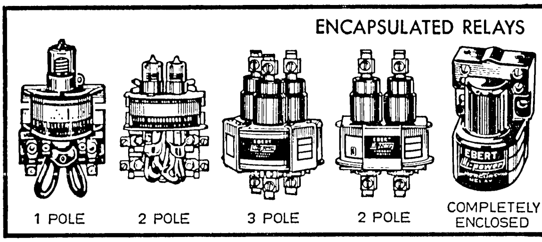
Stock No.	Mfr's Type	Volts AC	Contact Action	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4803	*A8HXX	115	DB-NO	14.30	13.59	12.87	11.44	10.01
41 D 4804	*A8HXX	230	DB-NO	14.30	13.59	12.87	11.44	10.01
41 D 4805	*8BXX	115	DP-NO	18.70	17.77	16.83	14.96	13.09
41 D 4806	*8BXX	230	DP-NO	18.70	17.77	16.83	14.96	13.09
41 D 4807	*8AXA	115	1NO-1NC	18.70	17.77	16.83	14.96	13.09
41 D 4808	*8AXA	230	1NO-1NC	18.70	17.77	16.83	14.96	13.09
41 D 4811	*A8CXX	115	3P-NO	21.20	20.14	19.08	16.96	14.84
41 D 4812	*A8CXX	230	3P-NO	21.20	20.14	19.08	16.96	14.84
41 D 4809	84XBX	115	DPDT	24.10	22.90	21.69	19.28	16.87
41 D 4810	84XBX	230	DPDT	24.10	22.90	21.69	19.28	16.87

C85 FRAME POWER SEQUENCE RELAYS

DPST, cam-operated silver contacts repeat a pre-determined sequence continuously, stepped from one position to the next by impulse to relay coil. *Contacts open and close together; †Contacts open and close alternately. Contact ratings: 20 amps at 24 and 115 v. AC, 24 v. DC; 10 amps at 230 v. AC; 1 amp at 115 v. DC; ¼ amp at 230 v. DC. 8-tooth ratchets. Coil: 18 VA AC, 14 w. DC. 3x5". 1 lb.

Stock No.	Type C85-	V AC	EACH 1-24	25-49	50-74	75-99	100-249
41 D 4817	*BXX	115	34.90	33.16	31.41	27.92	24.43
41 D 4818	*BXX	230	34.90	33.16	31.41	27.92	24.43
41 D 4819	†AXA	115	34.90	33.16	31.41	27.92	24.43
41 D 4820	†AXA	230	34.90	33.16	31.41	27.92	24.43

EBERT MERCURY PLUNGER RELAYS



MINIATURE POWER RELAYS—20 AMPS—115 VAC

Compact units capable of handling loads nearly twice that or ordinary armature-type units of equal size. Hermetically sealed, mercury-to-mercury contacts. No contacts to pit, stick or corrode. Full rating with inductive or resistive loads. Coil current, .042 amp, single pole; .080 amp, 2-pole. MR-10, 3x1⅞x1½"; MR-12, 4x1⅞x1½"; MR-14, 4½x3x1⅞". For 115 v., 50-60 Hz AC.

Stock No.	Type	Description	EACH	2-49, EA.	50-99, EA.
58 D 8681Z	MR-10	Single pole, NO	10.89	8.36	7.76
58 D 8682Z	MR-12	Single pole, NC	11.99	9.19	8.47
58 D 8684Z	MR-14	2-pole, both NO	20.63	16.34	14.63
58 D 8683Z	MR-14	2-pole,1 NO/1 NC	21.07	16.99	15.29

STANDARD DUTY—35 AMPS—115 VAC

Rated 35 amps (per pole) at 115 v. AC. Coil Operating Current: EM-1, .050 amp; EM-2, .050 amp; EM-4, .120 amp; EM-7, .220 amp. EM-1, 4¾x2⅝x2½"; EM-4, 5⅜x3⅜x2½"; EM-7, 6¼x4x3⅜". For 115 v., 50-60 Hz AC. U.L. Listed.

Stock No.	Type	Description	EACH	2-9, EA.	10-49, EA.
58 D 8688 Z	EM-1	Single pole, NO	15.35	11.28	10.45
58 D 8691 Z	EM-4	2-pole, both NO	25.30	19.80	18.59
58 D 8693 Z	EM-4	2-pole, 1 NO/1NC	27.28	21.56	20.19
58 D 8695 Z	EM-7	3-pole, all NO	33.27	26.07	24.42

HEAVY-DUTY—60 AMPS—115 VAC

Type HD-1 rated 60 amps for 115 v., and 35 amps for 230 v., 60 cycle AC. Type HD-4 2-pole relay; each pole, 60 amps at 115 v., and 35 amps at 230 v. Type HD-7 3-pole relay; each pole, 60 amps at 115 v., and 35 amps at 230 v. For 115 v., 60 Hz AC only. All U.L. Listed. Sizes: *2⅜x5¼x3¾"; †2⅜x5¾x3¾"; §3⅜x6⅝x4".

58 D 8100 Z	HD-1	Single pole, NO*	17.32	13.64	12.81
58 D 8102 Z	HD-4	2-pole, both NO†	31.95	24.31	23.05
58 D 8119 Z	HD-7	3-pole, all NO§	42.57	32.72	31.07

"100" RELAY—100 AMPS—115 VAC

Front-mounted load and coil terminals. Rated 100 amps at 115 v., AC or 12 kw resistive load capacity. Coil operating current, .260 amps. 7x3½x3⅜". For 115 v. 60 Hz AC.

58 D 8124 Z	100	Single pole, NO	35.75	27.22	25.85

NEW "HI-POWER" ENCAPSULATED RELAYS

High performance relays have hermetically sealed steel shells with ceramic lined electrode chamber, epoxy insulation. Similar to above relays, but with higher current capacity, maximum reliability. Impervious to physical or thermal shock, moisture and dirt. Types S and T completely encapsulated for extreme environments.

TYPE A—25 AMPS MINIATURE POWER—120 VAC

Sizes: A-1, 4¼x3x2¼"; A-11, 4¼x4¼x2½".

Stock No.	Mfr's Type	Description	EACH 1-9	10-99	100-249
58 D 8131 Z	A-1	Single pole, NO	13.80	12.50	11.90
58 D 8132 Z	A-11	2-pole, both NO	24.65	22.20	21.10

TYPE B—50 AMPS STANDARD DUTY—120 VAC

Sizes: B-1, 4¾x3x2¼"; B-11, 4¾x4¼x2½"; B-111, 4¾x4¼x3½".

58 D 8133 Z	B-1	Single pole, NO	17.50	15.95	15.20
58 D 8134 Z	B-11	2-pole, both NO	29.75	26.90	25.55
58 D 8135 Z	B-111	3-pole, both NO	41.05	36.95	35.10

TYPE H—100 AMPS HEAVY DUTY—120 VAC

Sizes: H-1, 7½x4x3½"; H-11, 7½x6½x4".

58 D 8136 Z	H-1	Single pole, NO	47.70	42.95	40.80
58 D 8137 Z	H-11	2-pole, both NO	78.90	71.00	67.45

TYPE S (25 AMP) AND T (50 AMP) COMPLETELY ENCAPSULATED

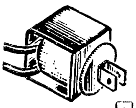
Epoxy case, sealed; molded term. S-1, 3½x1¾x1⅝"; T-1, 3⅞x2x1⅞"

58 D 8138 Z	S-1	Single pole, NO	16.30	14.70	14.00
58 D 8139 Z	T-1	Single pole, NO	19.90	17.95	17.10

Ebert Mercury Relays Listed Above Are Shipped by Express Only

Dormeyer Solenoids

Figures A and B are Super-D box-frame solenoids: quiet, cool operation; greater heat dissipation; high seating pull; anti-residual spring; phenolic bobbin; high temperature rating. Figures C and D are Super-U folded-frame light-duty solenoids for use where quiet seating pull is not vital. Figures E and F are C-1 general-purpose solenoids: zinc-dichromate coating; moisture-resistant or moisture-proof coils; high temperature rating. Figure G is Super-T laminated solenoid: zinc-dichromate coating; bakelite bobbin; stainless-steel anti-residual spring. Figure H is C-1 machine-tool laminated solenoid for heavy-duty service; zinc-dichromate coating. Figure J types are compact, low-cost tubulars: simplified stud mount with anti-turn feature; low residual force; stainless-steel plunger cavity; friction reducing coating on plungers. Av. shpg. wt., 1½ lbs.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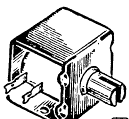
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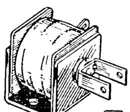
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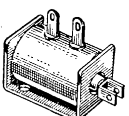
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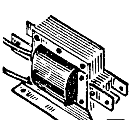
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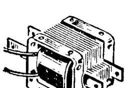
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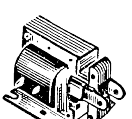
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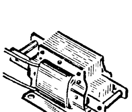
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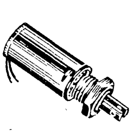
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AC TYPES (Specify Mfr's Type No., Volts, and Duty) *Intermittent. †Continuous. §Push-Pull.

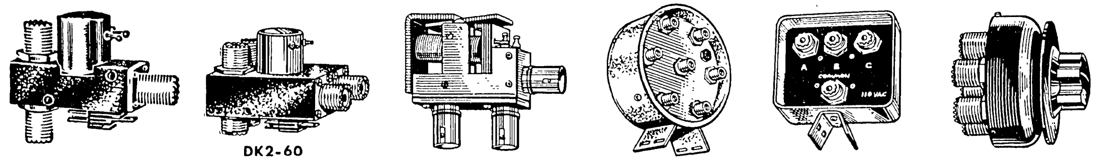
Stock No.	Mfr's Type	Fig.	V.	Ohms	A.	Max. Stroke (In.)	Max. Lift (Oz.)	HxWxD	EACH 1-24	25-49	50-99	100-249	250-499	500-999
42 D 7000	B18-507-A-3	A	*115	964	.07	¼	19	¾x¾x49/64"	2.59	2.42	1.95	1.62	1.23	1.04
42 D 7001	B18-7-A-3	A	†115	1500	.04	¼	13	¾x¾x49/64"	2.59	2.42	1.95	1.62	1.23	1.04
42 D 7002	B20-501-A-1	B	*115	338	.12	½	32	15/16x13/16x1 9/64"	2.81	2.65	2.12	1.77	1.34	1.12
42 D 7003	B20-1-A-1	B	†115	580	.03	½	13	15/16x13/16x1 9/64"	2.81	2.65	2.12	1.77	1.34	1.12
42 D 7005	B21-1-A-1	B	†115	234	.10	⅝	32	1 5/16x1 5/16x1 13/64"	3.07	2.87	2.31	1.87	1.45	1.23
42 D 7006	B22-501-A-1	B	*115	45	.43	1	72	1 15/32x1 5/16x1 39/64"	4.02	3.77	3.02	2.51	1.92	1.61
42 D 7007	B22-1-A-1	B	†115	119	.12	1	29	1 15/32x1 5/16x1 39/64"	4.02	3.77	3.02	2.51	1.92	1.61
42 D 7010	B24-501-A-1	B	*115	67.2	.33	1¼	23	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7011	B24-1-A-1	B	†115	173	.11	1¼	16	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7014	C9-519-A-14	C	*115	74	.37	½	80	1 13/32x1⅜x1 1/16"	2.18	1.91	1.69	1.37	1.05	.91
42 D 7015	C9-19-A-14	C	†115	172	.13	½	50	1 13/32x1⅜x1 1/16"	2.23	1.95	1.67	1.39	1.07	.93
42 D 7016	C15-519-A-14	C	*115	220	.18	½	55	1x1 1/16x1 9/64"	2.01	1.76	1.51	1.26	.97	.84
42 D 7017	C15-19-A-14	C	†115	350	.1	½	32	1x1 1/16x1 9/64"	2.05	1.80	1.54	1.28	.99	.86
42 D 7018	388-1	C	†115	113	.245	½	72	1 13/32x1⅜x1 27/32"	2.22	1.96	1.67	1.40	1.07	.94
42 D 7019	389-1	C	*115	79	.360	½	80	1 13/32x1⅜x1 27/32"	2.18	1.92	1.64	1.37	1.05	.91
42 D 7020	430-1	D	†115	500	.083	½	16	⅞x¾x1⅝"	1.97	1.72	1.47	1.24	.95	.79
42 D 7078	431-1	D	*115	291	.174	½	35	⅞x¾x1⅝"	1.99	1.69	1.45	1.22	.93	.77
42 D 7080	433-1	D	†24	20.16	.38	½	16	⅞x¾x1⅝"	1.81	1.59	1.35	1.13	.87	.72
42 D 7025	1-1	E	*115	21	.55	1	144	2 3/32x1 25/32x2½"	5.24	4.91	3.93	3.28	2.49	2.10
42 D 7026	6-1	E	†115	51	.23	1	64	2 3/32x1 25/32x2½"	5.24	4.91	3.93	3.28	2.49	2.10
42 D 7027	11-1	E	*115	1.7	2.7	1½	800	3 1/16x2¼x3⅝"	9.35	8.77	7.01	5.85	4.44	3.74
42 D 7081	10-1	E	†115	6.4	.63	1½	288	3 1/16x2¼x3⅝"	9.35	8.77	7.01	5.85	4.44	3.74
42 D 7082	447-1	E	*115	1	4.2	2	800	3 1/16x2⅝x3⅝"	11.21	10.51	8.40	7.00	5.33	4.48
42 D 7030	158-1	E	†115	3.54	.8	2	256	3 1/16x2⅝x3⅝"	11.21	10.51	8.40	7.00	5.33	4.48
42 D 7033	§16-1	E	*115	23	.56	1	112	2 3/32x1 25/32x2½"	6.17	5.79	4.62	3.86	2.94	2.47
42 D 7034	§14-1	E	†115	56	.21	1	96	2 3/32x1 25/32x2½"	6.17	5.79	4.62	3.86	2.94	2.47
42 D 7035	§149-1	F	*115	1.94	2.9	2	768	3¼x2 11/16x3¼"	14.06	13.18	10.55	8.79	6.67	5.62
42 D 7036	§45-1	F	†115	7.1	.68	2	320	3¼x2 11/16x3¼"	14.06	13.18	10.55	8.79	6.67	5.62
42 D 7037	§446-1	F	*115	1.07	3.8	2	608	3¼x3 1/16x3¼"	16.58	15.55	12.44	10.37	7.90	6.63
42 D 7038	§229-1	F	†115	3.95	1.42	2	224	3¼x3 1/16x3¼"	16.58	15.55	12.44	10.37	7.90	6.63
42 D 7039	1000-M-1	G	†115	88	13	¾	80	1 7/16x1 7/16x2¼"	4.41	4.13	3.30	2.76	2.20	1.86
42 D 7084	1500-M-1	G	*115	57.2	.38	¾	112	1 7/16x1 7/16x2¼"	4.41	4.13	3.30	2.76	2.20	1.86
42 D 7041	1001-M-1	G	†220	35.4	.065	¾	80	1 7/16x1 7/16x2¼"	4.57	4.28	3.42	2.86	2.28	1.92
42 D 7086	2005-M-1	G	†115	20.5	.41	1 1/16	176	2 1/16x1 13/16x3"	5.40	5.11	4.12	3.39	2.70	2.30
42 D 7044	2255-M-1	G	*115	18.3	.54	1 1/16	192	2 1/16x1 13/16x3"	5.26	4.99	4.01	3.28	2.60	2.19
42 D 7045	2006-M-1	G	†220	81.6	.20	1 1/16	176	2 1/16x1 13/16x3"	5.56	5.26	4.24	3.49	2.79	2.36
42 D 7047	2536-M-1	G	†115	14.9	.45	1 1/16	256	2 1/16x2 1/16x3"	6.54	6.12	4.90	4.09	3.26	2.72
42 D 7048	2786-M-1	G	*115	11.7	.77	1 1/16	392	2 1/16x2 1/16x3"	6.15	5.73	4.59	3.87	3.08	2.59
42 D 7087	3000-M-1	G	†115	6.2	.60	1⅜	352	2 15/16x2⅜x3 13/16"	8.37	7.84	6.30	5.27	4.18	3.56
42 D 7051	3500-M-1	G	*115	4.8	1.15	1⅜	416	2 15/16x2⅜x3 13/16"	7.63	7.11	5.66	4.79	3.80	3.22
42 D 7052	3001-M-1	G	†220	26.1	.30	1⅜	352	2 15/16x2⅜x3 13/16"	8.37	7.84	6.30	5.27	4.18	3.56
42 D 7053	§7110-2A	H	*110	14.9	.85	1 3/32	208	2 3/32x2 3/16x4 3/16"	10.07	9.45	7.55	6.29	4.78	4.03

DC TYPES (Specify Mfr's Type No., Volts, and Duty) *Intermittent. †Continuous. ‡Pulse.

Stock No.	Mfr's Type	Fig.	V.	Ohms	A.	Max. Stroke (In.)	Max. Lift (Oz.)	HxWxD	EACH 1-24	25-49	50-99	100-249	250-499	500-999
42 D 7088	B18-760-A-3	A	*12	24.2	.50	¼	14	¾x¾x59/64"	2.59	2.42	1.95	1.62	1.23	1.04
42 D 7056	B18-259-A-3	B	†24	119	.2	¼	11	¾x¾x59/64"	2.59	2.42	1.95	1.62	1.23	1.04
42 D 7057	B18-759-A-3	B	*24	93.5	.26	¼	14	¾x¾x49/64"	2.59	2.42	1.95	1.62	1.23	1.04
42 D 7059	B21-754-A-1	B	*12	7	1.7	⅝	72	1 5/16x1 5/16x1 13/64"	3.07	2.87	2.31	1.87	1.45	1.23
42 D 7060	B22-754-A-1	B	*12	5.3	2.3	1	144	1 15/32x1 5/16x1 39/64"	4.02	3.77	3.02	2.51	1.92	1.61
42 D 7062	B24-255-A-1	B	†6	4	1.5	1¼	60	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7063	B24-755-A-1	B	*6	1.6	3.8	1¼	96	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7064	B24-754-A-1	B	*12	6.3	1.9	1¼	96	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7065	B24-253-A-1	B	†24	60	.4	1¼	60	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7066	B24-753-A-1	B	*24	25.4	.95	1¼	96	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7067	B24-251-A-1	B	†115	1348	.09	1¼	60	1 5/16x1 5/16x2"	3.79	3.56	2.84	2.37	1.81	1.51
42 D 7069	B25-754-A-1	B	*12	5.7	2.1	2	104	1 15/32x1 5/16x2½"	5.50	5.14	4.12	3.43	2.61	2.19
42 D 7089	C8-772-A-14	C	*12	14.8	.81	½	26	13/16x¾x1⅛"	1.76	1.54	1.32	1.10	.85	.74
42 D 7071	C8-271-A-14	C	†24	126	.19	½	13	13/16x¾x1⅛"	1.83	1.60	1.38	1.16	.88	.77
42 D 7073	C8-269-A-14	C	†115	2400	.05	½	13	13/16x¾x1⅛"	1.88	1.65	1.41	1.18	.91	.79
42 D 7074	C8-769-A-14	C	*115	1500	.08	½	26	13/16x¾x1⅛"	1.79	1.57	1.34	1.12	.86	.75
42 D 7075	C9-772-A-14	C	*12	9	1.34	½	50	1 13/32x1⅜x1 1/16"	1.99	1.74	1.49	1.24	.96	.83
42 D 7076	C15-772-A-14	C	*12	12.4	.97	½	35	1 9/64x1 1/16x1 9/64"	1.82	1.60	1.37	1.14	.88	.76
42 D 7090	P2-1L	J	†12	39	.33	¼	11	1x½" dia.	4.31	3.77	3.24	2.70	2.16	1.81
42 D 7091	P2-2L	J	†24	167.5	.15	¼	11	1x½" dia.	4.31	3.77	3.24	2.70	2.16	1.81
42 D 7092	P2-101L	J	*12	30.5	.42	¼	15	1x½" dia.	4.31	3.77	3.24	2.70	2.16	1.18
42 D 7093	P2-201L	J	‡12	6.85	1.85	5/16	24	1x½" dia.	4.31	3.77	3.24	2.70	2.16	1.81
42 D 7094	P2-202L	J	‡24	30.5	.83	5/16	24	1x½" dia.	4.31	3.77	3.24	2.70	2.16	1.81
42 D 7095	P4-1L	J	†12	23.25	.55	½	45	1½x¾" dia.	5.17	4.53	3.89	3.23	2.49	2.17
42 D 7096	P4-2L	J	†24	99	.26	½	45	1½x¾" dia.	5.17	4.53	3.89	3.23	2.49	2.17
42 D 7097	P4-101L	J	*12	15.25	.83	⅝	55	1½x¾" dia.	5.17	4.53	3.89	3.23	2.49	2.17
42 D 7098	P4-201L	J	‡12	3.6	3.5	⅝	76	1½x¾" dia.	5.17	4.53	3.89	3.23	2.49	2.17
42 D 7099	P4-202L	J	‡24	15.25	1.7	⅝	70	1½x¾" dia.	5.17	4.53	3.89	3.23	2.49	2.17
42 D 7100	P6-1L	J	†12	19.5	.65	⅝	100	2x1" dia.	6.30	5.52	4.74	3.94	3.04	2.66
42 D 7101	P6-2L	J	†24	82	.31	⅝	100	2x1" dia.	6.30	5.52	4.74	3.94	3.04	2.66
42 D 7102	P6-101L	J	*12	8.4	1.5	⅝	125	2x1" dia.	6.30	5.52	4.74	3.94	3.04	2.66
42 D 7103	P6-201L	J	‡12	3.3	3.9	⅝	150	2x1" dia.	6.30	5.52	4.74	3.94	3.04	2.66
42 D 7104	P6-202L	J	‡24	14.25	1.8	⅝	150	2x1" dia.	6.30	5.52	4.74	3.94	3.04	2.66

Coaxial Relays and Motor Controller

DOW KEY COAXIAL RELAYS



DK60-G2C | DK2-60 DK2-60B | DK61-BNC | DK71 | DK72 | DK78

DK60 Series. Heavy-duty SPDT 50-ohm coaxial relays. Up to one kilowatt. VSWR less than 1.15:1 from DC to 500 mc. DK60-G and DK60-G2C feature patented automatic receiver-protecting connector for positive isolation of RF from receiver—greater than 100 db isolation between receiver and transmitter lines from 0-500 mc. DK60-2C and DK60-G2C include external DPDT contacts for aux. circuits (rated 5 amps @ 110 VAC). 2¾x3¾x1⅛". Wt., 10 oz.

DK2-60. A DPDT coaxial switch for switching two coaxial lines simultaneously. Frequency range, 0-500 mc; power rating, to 1 kw; VSWR, less than 1.15:1 from 0-500 mc; isolation, greater than 30 db @ 500 mc; loss, less than 0.03 db @ 30 mc; life, over 1 million operations. 50-ohm imp. 2¾x3¾x1¾". Wt., 12 oz.

DK2-60B. As above but internally connected in de-energized position. Ideal for switching power amplifier between exciter and antenna. DK2-60-2C, DK2-60B-2C include external DPDT contacts to switch auxiliary circuits (rated 5 amps @ 110 VAC). 12 oz.

DK61 Series. High-performance SPDT type. Range, DC-1000 mc. VSWR, 1.1:1 @ 400 mc. Crosstalk down more than 40 db @ 400 mc. Capacity, 100 watts. Plated per MIL QQS-365; QQS-416. Temp. range, —55° to +125°C. Life, over 500,000 operations. Time: less than 15 ms. 1¼x⅝x1$\frac{19}{32}$". Wt., 6 oz.

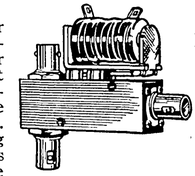
DK71. SP6T weatherproof. Remote switching of RF. Common connector switches direct to 1 or combination of 6-positions. Range, 0-500 mc; rating, 1 kw; VSWR, 1.1:1 at 100 mc; isolation 40 db at 100 mc; life, greater than 1,000,000 times. 50-ohm imp. 5¾" dia., 2¼" deep. Mounting strap, 7-pin male connector. 3 lbs.

DK72. SP3T. As above except 3 pos. 4x3½x2⅝" Mtg. bkt. 1½ lbs.

DK78. Manual series of coaxial switches (not wafer switches) features excellent RF characteristics. RF rating: 1 kw to 500 mc. VSWR: 1.05:1 at 150 mc. Isolation: 50 db at 500 mc; 80 db at 30 mc. Operating temp. —55° to +85°C. Coaxial connectors are silver-plated; contacts are made of fine silver. Black anodized body. Requires one $\frac{7}{16}$"-diameter hole and one $\frac{5}{32}$"-diameter hole for mounting. Imp., 50 ohms. *Type DK78-T is transfer-crossover switch. With dial plates and knobs. 3" dia.; 1⅛" deep. Wt., 12 oz.

Stock No.	Mfr's Type	Con-nectors	Coil Volts	EACH 1-4	5-9	10-24	25-49
41 D 6114	DK60	UHF	12 DC	12.45	11.83	11.20	10.58
41 D 6113	DK-60	UHF	28 DC	12.45	11.83	11.20	10.58
41 D 6115	DK60	UHF	115 AC	12.45	11.83	11.20	10.58
41 D 5953	DK60-G	UHF	12 DC	13.70	13.02	12.33	11.65
41 D 5954	DK-60G	UHF	28 DC	13.70	13.02	12.33	11.65
41 D 5955	DK60-G	UHF	115 AC	13.70	13.02	12.33	11.65
41 D 6118	DK60-G2C	UHF	12 DC	15.65	14.87	14.08	13.30
41 D 6112	DK60-G2C	UHF	28 DC	15.65	14.87	14.08	13.30
41 D 6119	DK60-G2C	UHF	115 AC	15.65	14.87	14.08	13.30
41 D 6116	DK60-2C	UHF	12 DC	14.35	13.64	12.92	12.20
41 D 6123	DK60-2C	UHF	28 DC	14.35	13.64	12.92	12.20
41 D 6117	DK60-2C	UHF	115 AC	14.35	13.64	12.92	12.20
41 D 6124	DK2-60	UHF	12 DC	19.00	18.05	17.10	16.15
41 D 6149	DK2-60	UHF	115 AC	19.00	18.05	17.10	16.15
41 D 6125	DK2-60B	UHF	12 DC	19.00	18.05	17.10	16.15
41 D 5956	DK2-60B	UHF	115 AC	19.00	18.05	17.10	16.15
41 D 5941	DK2-60-2C	UHF	12 DC	20.95	19.90	18.86	17.81
41 D 5942	DK2-60-2C	UHF	115 AC	20.95	19.90	18.86	17.81
41 D 5943	DK2-60B-2C	UHF	12 DC	20.95	19.90	18.86	17.81
41 D 5944	DK2-60B-2C	UHF	115 AC	20.95	19.90	18.86	17.81
41 D 6148	DK61-BNC	BNC	28 DC	26.50	25.18	23.85	22.53
41 D 5958	DK71	UHF	24 AC	49.50	47.02	44.55	42.07
41 D 5957	DK71	UHF	115 AC	49.50	47.02	44.55	42.07
41 D 5967	DK72	UHF	12 DC	22.95	21.80	20.65	19.50
41 D 5980	DK72	UHF	28 DC	22.95	21.80	20.65	19.50
41 D 5965	DK72	UHF	24 AC	22.95	21.80	20.65	19.50
41 D 5960	DK72	UHF	115 AC	22.95	21.80	20.65	19.50

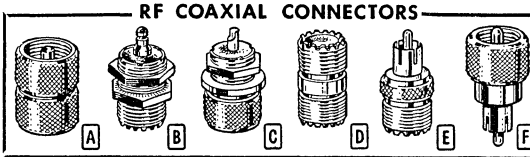
Stock No.	Mfr's Type	Con-nectors	Action	EACH 1-4	5-9	10-24	25-49
41 D 5900	DK78-2	UHF	SPDT	12.75	12.11	11.48	10.84
41 D 5901	DK78-3	UHF	SP3T	12.75	12.11	11.48	10.84
41 D 5902	DK78-6	UHF	SP6T	15.75	14.97	14.20	13.39
41 D 5904	DK78-T	UHF	*T-C	15.75	14.97	14.20	13.39
41 D 5880	DK78-2	BNC	SPDT	15.75	14.97	14.20	13.39
41 D 5881	DK78-3	BNC	SP3T	15.75	14.97	14.20	13.39
41 D 5882	DK78-6	BNC	SP6T	21.75	20.66	19.58	18.49
41 D 5883	DK78-T	BNC	*T-C	18.75	17.81	16.88	15.94



DK77 Series. Miniature SPDT relays adaptable to mobile installations and other switching applications. Have BNC connectors. Frequency: DC, to 1000 mc. Power rating: up to 250 watts. VSWR: 1.1:1 at 400 mc. Crosstalk: 35 db at 400 mc. Insertion loss: less than .03 db at 500 mc. Life expectancy is over 1,000,000 operations. 50-ohm impedance. —55° to 85°C operating temperature range. Operating time: less than 15 ms. Models with 1C in Mfr's Type have bifurcated SPDT auxiliary contacts rated 5 amps at 110 VAC resistive. 2⅜x2⅛x$\frac{11}{16}$" with connectors. Wt., 5 oz.

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-99	100-249	250-499	500-999
41 D 5910	DK77	12DC	7.50	7.10	6.72	5.53	5.29	5.00	4.75
41 D 5911	DK77	28DC	7.50	7.10	6.72	5.53	5.29	5.00	4.75
41 D 5914	DK77-1C	12DC	8.55	8.10	7.65	6.30	6.03	5.85	5.40
41 D 5919	DK77-1C	28DC	8.55	8.10	7.65	6.30	6.03	5.85	5.40

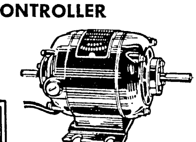
RF COAXIAL CONNECTORS



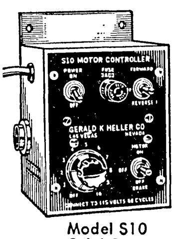
For above relays. (m) male; (f) female. Wt., 1 oz.

Stock No.	Type DK-	Fig.	Description	EACH 1-9	10-24	25-49	50-99
41 D 5946	F-2	A	(m) UHF to (m) UHF	.95	.86	.81	.67
41 D 5903	60-P	B	(f) UHF panel mtg.	.70	.63	.60	.49
41 D 5905	201	C	(m) UHF panel mtg.	1.25	1.13	1.07	.88
41 D 5906	202	D	(f) UHF to (f) UHF	.85	.78	.72	.60
41 D 5907	210	E	(f) UHF to (m) phono	1.25	1.13	1.07	.88
41 D 5908	211	F	(m) UHF to (m) phono	1.25	1.13	1.07	.88

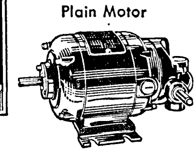
G.K. HELLER MOTORS AND CONTROLLER



Plain Motor



Model S10 Solid-State Controller



Right-Angle Gear Motor

S10 Controller and 2T60 Plain Motor. Shunt-wound 1/40 hp motor with full-wave filtered DC from SCR circuit. 100-3000 rpm speed with stepless continuous control. Torque, 11.2 in./oz. at any speed. Switches: power off/on lowspeed/on high speed; forward/off/reverse(automatic dynamic braking of motor in off position). $\frac{5}{16}$" shaft extends 1" from both ends of open, fan-ventilated motor. Controller, 4x5x3"; motor, 4½x3$\frac{7}{16}$x3$\frac{21}{32}$". Controller for 115 v., 50-60 cycle single-phase AC. Wt., 10 lbs.

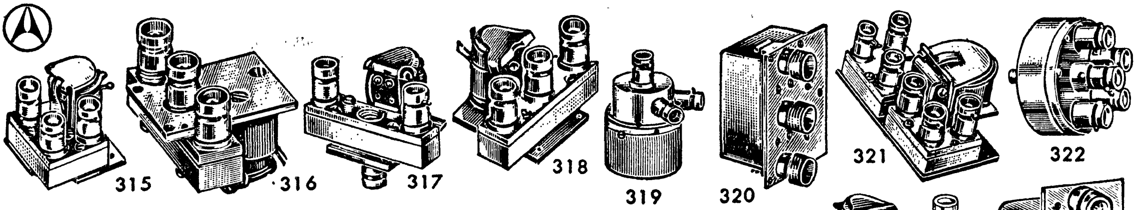
41 D 7170.................................**Both for 75.00**

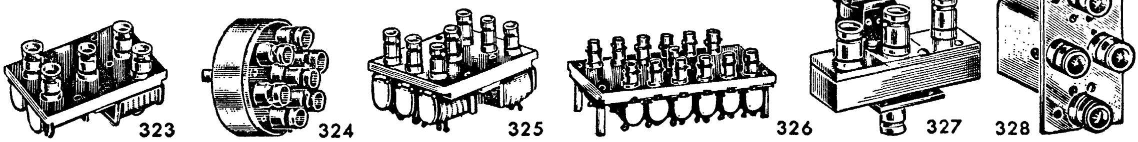
S10 Controller and 2T60 Gear Motor. 1/40 hp, right angle. $\frac{5}{16}$" ball-bearing armature shaft extends 1$\frac{5}{16}$" from one end for mounting pulley. Gear motor is enclosed and dust proof for long-life, except for cable bushing. All-bronze heavy-duty construction of gear trains. Gear shafts have precision sleeve bearing, with grease seals. Gear head is easily adjustable to choice of any 12 positions. Size, 3$\frac{21}{32}$x3$\frac{7}{16}$x6$\frac{1}{16}$". Controller for 115 v., 50-60 cycle single-phase AC.

41 D 7171 C. Specify Choice of Gear Ratio: 6, 10, 18 or 30 to 1. Shpg. wt., 10 lbs.........................**Both for 93.00**

41 D 7172 C. Specify Choice of Gear Ratio: 36, 60, 100, 300, 540, 900 or 1110 to 1. Shpg. wt., 10 lbs.....................**Both for 96.00**

Amphenol Coaxial Relays and Synchronous Motors

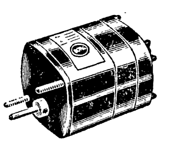




Precision coax units. Maximum time to operate and release is 20 milliseconds. Gold-plated, fine silver contacts assure reliable low-level operation. Minimum life expectancy is 1,000,000 cycles, when switch is operated at speeds of less than 10 cps. Switches are impedance matched to 50-ohm cable, though loss is negligible with 75-ohm cable. Operation is break-before-make. Units meet applicable portions of military connector specs as follows: BNC, MIL-C-3608; N, MIL-C-71; C, MIL-C-3989. All materials used are corrosion resisting types or are suitably plated to withstand the 48-hour test condition "B" requirement of MIL-STD-202.

Stock No.	Mfr's Type	Termination	Function	Connectors	Freq. (Mc)	Power (W)	Coil Volts	Coil Ohms	Wt., Oz.	EACH 1-4	5-9	10-24	25-49	50-99
41 D 7801	315-010002-3	Open	SPDT	BNC	1000	100	26 DC	280	4	23.00	19.09	16.45	14.49	12.77
41 D 7803	316-010082-3	Short	SPDT	BNC	2750	100	26 DC	280	4½	25.70	21.34	18.38	16.20	14.27
41 D 7804	316-010082-6	Short	SPDT	BNC	2750	100	120 DC	7000	4½	25.70	21.34	18.38	16.20	14.27
41 D 7805	316-010102-8	Short	SPDT	BNC	2750	100	115 AC	550	6½	27.70	23.00	19.81	17.46	15.38
41 D 7807	316-010744 3	Short	SPDT	N	4000	500	26 DC	200	12	29.70	24.66	21.24	18.72	16.49
41 D 7806	316-010732-8	Short	SPDT	N	4000	500	115 AC	550	12	27.70	23.00	19.81	17.46	15.38
41 D 7810	317-010202-3	Short	SPDT	BNC	2750	100	26 DC	280	4½	25.70	21.34	18.38	16.20	14.27
41 D 7811	317-010215-8	Short	SPDT	BNC	2750	100	115 AC	550	6½	27.70	23.00	19.81	17.46	15.38
41 D 7812	317-010242-3	Short	SPDT	N	4000	100	26 DC	280	5	25.70	21.34	18.38	16.20	14.27
41 D 7814	317-010255-8	Short	SPDT	N	4000	100	115 AC	550	7	27.70	23.00	19.81	17.46	15.38
41 D 7816	317-010363-8	Short	SPDT	UHF	....	100	115 AC	550	7	27.70	23.00	19.81	17.46	15.38
41 D 7820	318-010381-0	Short	SPDT	BNC	2750	100	lever manual	......	4½	25.70	21.34	18.38	16.20	14.27
41 D 7821	318-010382-3	Short	SPDT	BNC	2750	100	26 DC	280	4½	25.70	21.34	18.38	16.20	14.27
41 D 7822	318-010395-8	Short	SPDT	BNC	2750	100	115 AC	550	6½	27.70	23.00	19.81	17.46	15.38
41 D 7823	318-010407-3	Open	SPDT	BNC	2750	100	26 DC	280	4½	25.70	21.34	18.38	16.20	14.27
41 D 7824	318-010662-0	Short	SPDT	N	4000	500	lever manual	......	12	25.70	21.34	18.38	16.20	14.27
41 D 7825	318-011165-3	Res.	SPDT	BNC	2750	100	26 DC	280	4½	29.70	24.66	21.24	18.72	16.49
41 D 7828	318-011576-8	Res.	SPDT	BNC	2750	100	115 AC	550	6½	31.70	26.32	22.67	19.98	17.60
41 D 7832	319-011141-0	Open	SPDT	BNC	1000	100	rotary manual	......	4½	42.00	34.86	30.03	26.46	23.31
41 D 7833	320-010931-3	Open	SPDT	N	1200	1000	26 DC	200	20	55.80	46.32	39.90	35.16	30.97
41 D 7835	321-011062-0	Open	DPDT	BNC	1000	100	lever manual	......	8	39.20	32.54	28.03	24.70	21.76
41 D 7834	321-011064-3	Open	DPDT	BNC	1000	100	26 DC	200	10	35.40	29.39	25.32	22.31	19.65
41 D 7836	322-011431-0	Open	1P4T	BNC	2750	100	rotary manual	......	11	57.00	47.31	40.76	35.91	31.64
41 D 7837	323-011506-3	Short	1P4T	BNC	900	100	26 DC	280	14	50.80	42.17	36.33	32.01	28.20
41 D 7838	323-011651-3	Open	1P4T	BNC	900	100	26 DC	280	14	50.80	42.17	36.33	32.01	28.20
41 D 7839	324-011442-0	Open	1P6T	BNC	2750	100	rotary manual	......	12	59.70	49.56	42.69	37.62	33.14
41 D 7840	325-011635-3	Short	1P6T	BNC	900	100	26 DC	280	21	64.00	53.12	45.76	40.32	35.52
41 D 7842	325-011641-3	Open	1P6T	BNC	900	100	26 DC	280	21	64.00	53.12	45.76	40.32	35.52
41 D 7843	326-011507-3	Short	1P12T	BNC	200	100	26 DC	280	43	134.00	111.22	95.81	84.42	74.37
41 D 7845	327-010582-3	....	Transfer	BNC	1000	100	26 DC	280	10½	35.70	29.64	25.53	22.50	19.82
41 D 7847	328-011005-3	....	Transfer	N	1500	100	26 DC	280	12	49.70	41.26	35.54	31.32	27.59

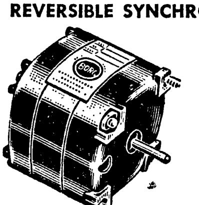
1003-4Sy 4-POLE REVERSIBLE SYNCHRONOUS MOTORS



Totally enclosed, permanent capacitor types. Reverse with a DPDT switch. Die-cast rotor mounted on ball bearings. Gear train has precision-cut spur gears. Starting torque minimum of double rated synchronous torque. Require 0.8-mfd, 220 VAC capacitor (not included—see below right). Rated 8.7 watts on 115 volts. For 110 or 220 v., 50-60 cycle AC. On 50 cycles output speed ⅚ listed speed. 2⁹⁄₁₆x2⁹⁄₁₆"; 2⅞" long. Av. shpg. wt., 3 lbs.

Stock No.	Output Speed	Gear Ratio	Torque Oz.-In.	EACH 1-9	10-24	25-99	100-199
41 D 6676	300 rpm	6:1	1.3	31.96	28.78	26.95	25.47
41 D 6683	225 rpm	8:1	1.7	31.96	28.78	26.96	25.47
41 D 6684	180 rpm	10:1	2.1	31.96	28.78	26.95	25.47
41 D 6685	150 rpm	12:1	2.5	31.96	28.78	26.95	25.47
41 D 6686	120 rpm	15:1	3.2	33.26	29.94	28.04	26.50
41 D 6687	100 rpm	18:1	3.8	33.26	29.94	28.04	26.50
41 D 6689	60 rpm	30:1	7.0	33.26	29.94	28.04	26.50
41 D 6691	30 rpm	60:1	14.0	33.26	29.94	28.04	26.50
41 D 6693	18 rpm	100:1	23.0	35.87	32.29	30.25	28.58
41 D 6695	10 rpm	180:1	41.0	35.87	32.29	30.25	28.58
41 D 6697	6 rpm	300:1	69.0	37.11	33.41	31.29	29.57
41 D 6698	5 rpm	360:1	83.0	37.11	33.41	31.29	29.57
41 D 6699	3 rpm	600:1	138.0	37.11	33.41	31.29	29.57
41 D 6715	2 rpm	900:1	150.0	37.11	33.41	31.29	29.57
41 D 6716	1 rpm	1800:1	138.0	37.11	33.41	31.29	29.57

REVERSIBLE SYNCHRONOUS MOTORS (Without Gear Train)



Rugged Construction

Precision fractional horsepower motors without gear train. Feature same totally enclosed design and construction as the Amphenol-Borg motors at left. Reverse with a DPDT switch. Type 1001-4Sy and 1005-4Sy require use of an 0.8-mfd, 220 VAC capacitor; Type 1005-2Sy requires 1.6-mfd, 220 VAC capacitor (not supplied, see listing below). Starting torque on all models is at least twice the rated synchronous torque; average of 3 to 4 times actual rating. Motors: *4-pole with 4 leads; †2-pole with 3 leads. Dimensions: 2³⁄₁₆x2⁹⁄₁₆"; 1001-4-Sy is 2" long; others are 2¼" long. For 110 or 220 v., 50-60 cycle AC. ‡60 cycle input. Av. shpg. wt., 3 lbs.

Stock No.	Mfr's Type	‡RPM	Torque Oz.-In.	EACH 1-9	10-24	25-99	100-999
41 D 6717	1001-4Sy*	1800	.30	25.10	22.60	21.16	20.00
41 D 6718	1005-4Sy*	1800	.56	25.17	22.66	21.22	20.05
41 D 6719	1005-2Sy†	3600	.38	23.65	21.29	19.94	18.84

MOTOR CAPACITORS

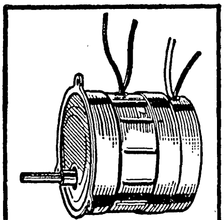
For motors above. Av. shpg. wt., 6 oz.

Stock No.	Capacitor	For Motor Types	EACH 1-9	10-49
41 D 6818	0.8 mfd, 220 v. AC	1003-4Sy, 1001-4Sy, 1005-4Sy	1.07	.89
41 D 6846	1.6 mfd, 220 v. AC	1005-2Sy	1.56	1.30

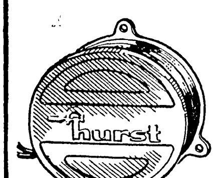
hurst

HURST SYNCHRONOUS MOTORS

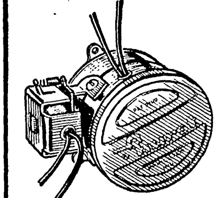
Rugged synchronous motors for continuous-duty applications. In output speeds from 1 to 3600 rpm for alarm systems, extra-large clocks, displays, railroad signaling, process controls, code signal devices, time switches, etc. Will not overheat during continuous duty or in a stalled position. *Specifications common to all motors:* Operating temperatures, −40° C to 105° C; power required, 5 watts, 95-130 v., 60 cycle AC; shaft, stainless steel 3/16" dia. x 1" long, flattened. Long-lasting bronze bearings, hardened steel pinions and wheel shafts. Brass gears lubricated for lifetime service. Completely enclosed, cadmium-plated cases. Mtg., three #6 holes spaced 120°. Torque equals 1 RPM rating, divided by speed. **Specify both Stock No. and output speed desired when ordering.** Av. shpg. wt., 1 lb.



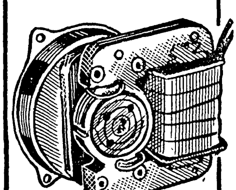
CA



DA
SM



PC-DA PC-SM
AR-DA AR-SM



EA

DA Series. 120 inch-ounce at 1 rpm. Instantly reversible (with SPDT switch). Highly accurate both clockwise and counter-clockwise. 100g shock resistance. Vibration resistant, accurate synchronization of 10-55 cps at 0.065" excursion. Highly effective magnetic shielding. Case, 2 1/2" dia. x 1 3/4". Shpg. wt., 1 1/4 lbs. *Specify speed desired when ordering.* ***Specify 1, 2, 4, 6, 8, 10, 12, 20, 30, 60, and 120 rpm.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D 7150 C	1-120	14.60	13.14	12.48	11.86	11.27

PC-DA Positive-Clutch Series. Basic reversible DA motor as described above, with positive clutch and instantaneous brake. Starts in 10 milliseconds—stops 60 rpm shaft in 6°, 1 rpm in 1/10°. Shpg. wt., 1 1/2 lbs. *Specify speed desired when ordering.* ***Specify 1, 2, 4, 6, 8, 10, 12, 20, 30, 60, and 120 rpm when ordering.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D 7151 C	1-120	20.18	18.16	17.25	16.39	15.57

SM Series. 40 inch-ounce at 1 rpm. Rugged, shaded-pole unidirectional motor with clockwise rotation. Instant start at full torque. Has 100g shock resistance. Vibration resistant—accurate synchronization at 10-55 cps at 0.065" excursion. Case is 1 3/4x2 1/2" dia. Shpg. wt., 1 lb. *Specify speed desired when ordering.* ***Specify 1/2, 1, 2, 3, 4, 5, 6, 10, 15, 30 and 60 rpm when ordering.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D 7152 C	1/2-60	12.28	11.05	10.50	9.98	9.48

PC-SM Positive-Clutch Series. Basic SM motor as described above with positive clutch and instantaneous brake. Starts in 10 milliseconds or less—stops 60 rpm shaft in 6°; 1 rpm in 1/10°. Shpg. wt., 1 1/4 lbs. *Specify speed desired when ordering.* ***Specify 1/2, 1, 2, 3, 4, 5, 6, 10, 15, 30, and 60 rpm.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D 7153 C	1/2-60	17.86	16.07	15.27	14.50	13.78

EA Series. 150 inch-ounce at 1 rpm. Open frame, shaded pole. Completely accurate, cool-running timing motor with clockwise rotation. Case measures, 1 5/8x2 5/8x2 1/2". Has 3/32x1" output shaft. 1 1/4 lbs. *Specify speed desired when ordering.* ***Specify 1, 2, 4, 6, 8, 10, 12, 20, 30, 60, 120, and 3600 rpm.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D 7155 C	1-120	9.35	8.41	7.99	7.59	7.21
41 D 7156	3600	6.93	6.24	5.93	5.63	5.35

CA Series. 100 inch-ounce at 1 rpm. Instantly reversible (with SPDT switching), completely accurate both clockwise and counter-clockwise. Case dimensions, 2 1/2" dia. x 2 1/8". Includes capacitor. Shpg. wt., 1 1/4 lbs. *Specify speed desired when ordering.* ***Specify 1/3, 1/2, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 25, 30, 32, 33 1/3, 40, 48, 50, 60, 64, 80, 100, 120, 150, 160, 200, 240, 400, 600, 800, and 1000 rpm when ordering.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
41 D7154C	1/3-1000	12.51	11.26	10.70	10.17	9.67

AR-DA Series. 100 inch-ounce, reversible. **AR-SM Series.** 40 inch-ounce unidirectional. Each is an automatic reset motor when a return-spring is attached to the output shaft. When clutch is de-energized, the shaft is free for manual or automatic reset. Clutch mechanism is fully lubricated and completely enclosed. AR series is designed for heavy-duty use and will easily handle full torque on model SM and DA. Size and appearance same as PC series. Accurate within 1/5 second at 1 rpm, more accurate at higher speeds. Maximum error in seconds. 1.5625 divided by the rpm. Case 2 1/2" dia. x 2 1/16". Clutch actuator, 7/8" height x 1 3/16" width. Shpg. wt., 1 1/2 lbs. *Specify speed desired when ordering.* ***Specify 1, 4, 6, 10, 30, and 60 rpm when ordering.**

Stock No.	*rpm	EACH 1-9	10-24	25-49	50-99	100-249
AR-DA SERIES (REVERSIBLE)						
41 D 7157 C	1-60	23.80	21.42	20.35	19.33	18.36
AR-SM SERIES (UNIDIRECTIONAL)						
41 D 7158 C	1-60	21.50	19.35	18.38	17.46	16.59

ITT CONTACT PROTECTORS

Reduce current surges. Effective protection for relay contacts controlling inductive circuits. Suppress arcing and RF transients. Consist of selenium rectifier cells back-to-back and in one compact tubular unit. Negligible effect on circuit operation. Pigtail leads. For loads operating up to 40 times per second and drawing up to 600 ma operating current. Av. shpg. wt., 1 oz.

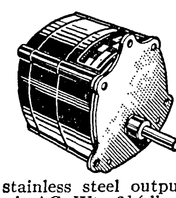
Stock No.	Voltage Range	Max. Ma	Size	EACH 1-24	25-99	100-499	500-999
41 D 6257	0-26 AC	200	25/64x5/8"	.90	.72	.54	.45
41 D 6328	23-44 DC	250	25/64x5/8"	.90	.72	.54	.45
41 D 6258	45-66 DC	250	25/64x3/4"	1.08	.87	.65	.54
41 D 6296	67-88 DC	250	25/64x3/4"	1.08	.87	.65	.54
41 D 6297	89-110 DC	250	25/64x3/4"	1.08	.87	.65	.54
41 D 6326	105-130 AC	200	25/64x15/16"	1.42	1.14	.85	.71
41 D 6298	111-132 DC	250	25/32x15/16"	1.26	1.01	.76	.63
41 D 6299	133-154 DC	250	25/32x15/16"	1.26	1.01	.76	.63
41 D 6314	0-26 AC	400	1/2x5/8"	.94	.75	.56	.47
41 D 6330	23-44 DC	600	1/2x5/8"	.94	.75	.56	.47
41 D 6348	45-66 DC	600	1/2x3/4"	1.14	.91	.68	.57
41 D 6356	89-110 DC	600	1/2x3/4"	1.14	.91	.68	.57
41 D 6327	105-130 AC	400	1/2x15/16"	1.58	1.27	.95	.79
41 D 6368	133-154 DC	600	1/2x15/16"	1.38	1.11	.83	.69

ADAPTER PLATE FOR HURST MODEL GA MOTORS

Installs on mounting face of GA Model instrument motors with three #8-32 F. H. M. screws, nuts, and lockwashers. Permits output shaft and mounting stud locations to match many motors. **41 D 7163.** Shpg. wt., 4 oz. . . . . **Each .75**

MODEL GA 600 INCH-OUNCE REVERSIBLE H/S MOTORS

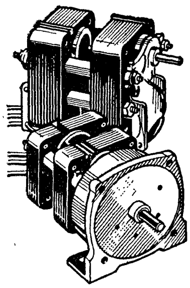
- **Low Unit Price Includes Motor Capacitor**
- **Provides Approximately 4 Times the Torque Output of Comparable Case-Size Motors**



Two-phase continuous duty hysteresis synchronous instrument motors with reversible operation. Have superior pull-in torque characteristics. Hysteresis design permits indefinite stalling without motor damage or overheating. Special Journal Bearings eliminate lubrication maintenance. Totally enclosed Lexan motor housing. No. 416 stainless steel output shaft. Include 1.2 mfd capacitor. 115v, 60-cycle AC. Wt., 2 1/4 lbs.

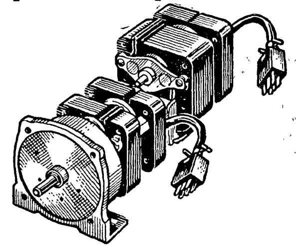
Stock No.	Speed rpm	Torque (Oz.-In.)	EACH 1-9	10-24	25-49	50-74	75-99	100-249
41 D 7162 C	3600	.6	20.40	19.38	18.36	17.34	16.32	14.28
41 D 7161 C	300	2.0	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	225	2.7	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	180	3 3	26.46	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	150	4.0	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	120	5.0	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	100	6.0	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7161 C	60	10.0	26.45	25.13	23.81	22.49	21.17	18.52
41 D 7160 C	30	20.0	28.65	27.22	25.79	24.36	22.93	20.07
41 D 7160 C	18	33.0	28.65	27.22	25.79	24.36	22.93	20.07
41 D 7159 C	10	60.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	6	100.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	5	120.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	4	150.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	3	200.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	2	300.0	30.50	28.98	27.46	25.94	24.42	21.37
41 D 7159 C	1	600.0	30.50	28.98	27.46	25.94	24.42	21.37

R.M.S. Motors and Amperite Delay Relays



R.M.S LOW-COST SHADED-POLE AC MOTORS

CONSTANT AND VARIABLE-SPEED TYPES



For hundreds of applications! Ideal for vending, photocopy, display, cycle controllers, remote-control devices, motorized valves, business machines. Linear torque output. Mount in any position with no lubricant loss. No fan required. Permanently lubricated; sintered-bronze bearings; no commutators or brushes; impedance protected. 155° insulation; gear-case lubrication good from —65 to 300°F. Variable-speed motors provide linear torque over 10 to 1 speed variation. **Variable types require Speed Control Box below to vary speed.** All motors listed for operation from 115 volts, 50-60 cycle AC. Av. motor shpg. wt., 3 lbs.

CONSTANT-SPEED MOTORS

3000-RPM CLOCKWISE UNIDIRECTIONAL

Stock No.	Mfr's Type	Torque in. Oz.	EACH 1-9	10-24	25-49	50-99	100-249	250-499
41 D 4512	M4RK	.8	4.00	3.60	3.40	3.20	3.00	2.80
41 D 4513	M5RK	1.0	4.20	3.78	3.57	3.36	3.15	2.94
41 D 4514	M6RK	1.6	4.50	4.05	3.82	3.60	3.37	3.15
41 D 4515	M8RK	2.4	4.90	4.41	4.16	3.92	3.67	3.43
41 D 4516	M10RK	3.2	5.50	4.95	4.67	4.40	4.12	3.85

3000-RPM REVERSIBLE

Stock No.	Mfr's Type	Torque in. Oz.	EACH 1-9	10-24	25-49	50-99	100-249	250-499
41 D 4517	M4PK	.8	9.40	8.46	7.99	7.52	7.05	6.58
41 D 4518	M5PK	1.0	9.80	8.82	8.33	7.84	7.35	6.86
41 D 4519	M6PK	1.6	10.40	9.36	8.84	8.32	7.80	7.28
41 D 4520	M8PK	2.4	11.20	10.08	9.52	8.96	8.40	7.84
41 D 4521	M10PK	3.2	12.40	11.16	10.54	9.92	9.30	8.68

CONSTANT-SPEED GEAR MOTORS

SPECIFY MFR'S TYPE WHEN ORDERING (PRICES BELOW)

RPM	Torque In. Oz.	Mfr's Type: Clockwise	Counter Clockwise	Reversible
1	800	BG5R1K	BG5L1K	BG5P1K
2	800	BG5R2K	BG5L2K	BG5P2K
3	750	BG5R3K	BG5L3K	BG5P3K
4	560	BG5R4K	BG5L4K	BG5P4K
5	450	BG5R5K	BG5L5K	BG5P5K
6	375	BG5R6K	BG5L6K	BG5P6K
8	280	BG5R8K	BG5L8K	BG5P8K
10	225	BG5R10K	BG5L10K	BG5P10K
15	450	BG8R15K	BG8L15K	BG8P15K
20	300	BG8R20K	BG8L20K	BG8P20K
30	200	BG8R30K	BG8L30K	BG8P30K
60	100	BG8R60K	BG8L60K	BG8P60K
100	60	BG8R100K	BG8L100K	BG8P100K
200	30	BG8R200K	BG8L200K	BG8P200K
300	20	BG8R300K	BG8L300K	BG8P300K

PRICES OF GEAR MOTORS

SPECIFY TYPE AND RPM FROM ABOVE (CCW, Counter Clockwise)

Stock No.	Rotation	EACH 1-9	10-24	25-49	50-99	100-249	250-499
41 D 4522 C	Clockwise	14.80	13.32	12.58	11.84	11.10	10.36
41 D 4523 C	CCW	14.80	13.32	12.58	11.84	11.10	10.36
41 D 4524 C	Reversible	22.40	20.16	19.04	17.92	16.80	15.68

VARIABLE-SPEED MOTORS

300-3000 RPM CLOCKWISE UNIDIRECTIONAL (PRICES BELOW)

Stock No.	Mfr's Type	Torque In. Oz.	Stock No.	Mfr's Type	Torque In. Oz.
41 D 4500	M5RC4BK	.75	41 D 4501	M8RC5BK	1.75

300-3000 RPM REVERSIBLE MOTORS (PRICES BELOW)

Stock No.	Mfr's Type	Torque In. Oz.	Stock No.	Mfr's Type	Torque In. Oz.
41 D 4502	M5PCBK	.75	41 D 4503	M8PCBK	1.75

PRICES (EACH) OF 300-3000 RPM MOTORS ABOVE

Type	1-9	10-24	25-49	50-99	100-249	250-499
M5RC4BK	8.45	7.60	7.18	6.76	6.33	5.91
M8RC5BK	9.20	8.28	7.82	7.36	6.90	6.44
M5PCBK	13.90	12.51	11.81	11.12	10.42	9.73
M8PCBK	15.45	13.90	13.13	12.36	11.58	10.81

VARIABLE-SPEED GEAR MOTORS

CLOCKWISE UNIDIRECTIONAL (PRICES BELOW)

Stock No.	Mfr's Type	Torque in. Oz.	Speed in RPM
41 D 4504	BG8R400C5BK	10	400-40
41 D 4505	BG8R100C5BK	40	100-10
41 D 4506	BG8R10C5BK	400	10-1

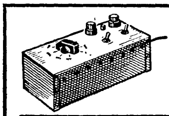
REVERSIBLE (PRICES BELOW)

Stock No.	Mfr's Type	Torque in. Oz.	Speed in RPM
41 D 4507	BG8P400CBK	10	400-40
41 D 4508	BG8P100CBK	40	100-10
41 D 4509	BG8P10CBK	400	10-1

PRICES (EACH) OF GEAR MOTORS

SPECIFY MFR'S TYPE AND RPM FROM TABLES ABOVE

Rotation	1-24	25-49	50-99	100-249	250-499
Unidirectional	19.75	18.76	17.78	16.79	15.80
Reversible	24.00	22.80	21.60	20.40	19.20



SPEED CONTROL BOX FOR USE WITH ABOVE MOTORS

SCVBK controls unidirectional motors; SCPVBK, reversible. 3⅝x7¼x2½". 9 lbs.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
41 D 4510	SCVBK	29.10	27.65	26.19	24.74	23.28
41 D 4511	SCPVBK	31.10	29.55	27.99	26.44	24.88

AMPERITE THERMAL DELAY RELAYS


A


B

Relay heaters operate from either AC or DC power—contacts close for NO types (Normally Open) or open for C types (Normally Closed) after heaters have been energized for delay period shown in table, below. Hermetically sealed in glass envelope with octal mounting base or 9-pin miniature tube shell. Heater draws 2 watts and may be operated continuously. SPST contact ratings: 3 amps @ 115 v. AC; 1 amp @ 220 v. AC.

Voltage breakdown ratings: contacts, 800 volts; heater-to contact, 800 volts; except *250 volts contact and 500 volts heater-to-contact ratings for units with delays of 10 seconds or less. Ambient temperature range: —55° to +70° C. Tolerance: ±30%. Octal base size: 1 9/32" diameter; 2⅞" high less prongs. 9-pin miniature: ¾" diameter; 2⅝" high. **Specify Type Number as well as Stock Number when ordering.** Octal, 4 oz.; 9-pin, 2 oz.

[A] OCTAL BASE TUBE SHELL

Delay Seconds	Type NO. Normally Open 6.3 v.	26 v.	115 v.	Type C. Normally Closed 6.3 v.	26 v.	115 v.
2*	6N02	26N02	115N02	6C2	26C2	115C2
3*	6N03	26N03	115N03	6C3	26C3	115C3
5*	6N05	26N05	115N05	6C5	26C5	115C5
10*	6N010	26N010	115N010	6C10	26C10	115C10
15	6N015	26N015	115N015	6C15	26C15	115C15
20	6N020	26N020	115N020	6C20	26C20	115C20
30	6N030	26N030	115N030	6C30	26C30	115C30
45	6N045	26N045	115N045	6C45	26C45	115C45
60	6N060	26N060	115N060	6C60	26C60	115C60
75	6N075	26N075	115N075	6C75	26C75	115C75
90	6N090	26N090	115N090	6C90	26C90	115C90
120	6N0120	26N0120	115N0120	6C120	26C120	115C120
150	6N0150	26N0150	115N0150	6C150	26C150	115C150
180	6N0180	26N0180	115N0180	6C180	26C180	115C180

41 D 5295 C.......................................Each 2.40

[B] MINIATURE 9-PIN TUBE SHELL

Delay Seconds	Type NO. Normally Open 6.3 v.	26 v.	115 v.	Type C. Normally Closed 6.3 v.	26 v.	115 v.
2*	6N02T	26N02T	115N02T	6C2T	26C2T	115C2T
3*	6N03T	26N03T	115N03T	6C3T	26C3T	115C3T
5*	6N05T	26N05T	115N05T	6C5T	26C5T	115C5T
10*	6N010T	26N010T	115N010T	6C10T	26C10T	115C10T
15	6N015T	26N015T	115N015T	6C15T	26C15T	115C15T
20	6N020T	26N020T	115N020T	6C20T	26C20T	115C20T
30	6N030T	26N030T	115N030T	6C30T	26C30T	115C30T
45	6N045T	26N045T	115N045T	6C45T	26C45T	115C45T
60	6N060T	26N060T	115N060T	6C60T	26C60T	115C60T
75	6N075T	26N075T	115N075T	6C75T	26C75T	115C75T
90	6N090T	26N090T	115N090T	6C90T	26C90T	115C90T
120	6N0120T	26N0120T	115N0120T	6C120T	26C120T	115C120T

41 D 5296 C.......................................Each 2.40

Allied carries a complete line of relays for every purpose and need.

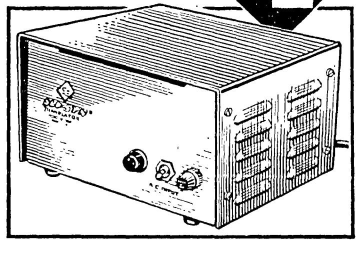
Superior Electric Industrial Automation Aids

SLO-SYN TRANSLATORS

ST-250B AND ST-1800. Pulse-to-step converters for use with appropriate bifilar-type synchronous motors (see listings below). Used in programmed positioning, indexing, digital counters, programmed mixing, remote meter indication, and many other applications. Convert low-level signal impulses or square waves into the correct switching sequence needed to drive motor at 200 discrete steps per revolution. 12 lbs.

SLO-SYN PRESET INDEXERS

SP250-4 AND SP1800-4. (Not illus.) Ideally suited for control of indexing operations in applications using synchronous motors for positioning. Any indexing movement desired can be set on control panel. Automatically provides correct switching sequence required to drive motor needed number of 1.8° steps. Can be made to cycle automatically. Capable of controlling indexing movements up to 9999 steps. Wt., 15 lbs.



ST-250B AND ST-1800

- Programmed Positioning
- Remote Positioning
- Indexing and Indicating Operations

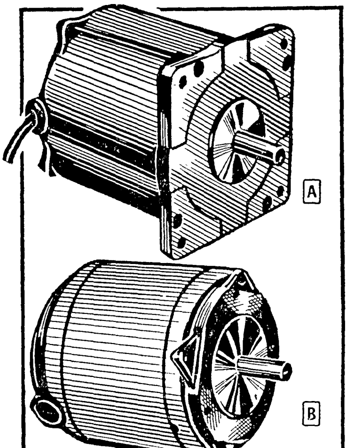
Stock No.	Mfr's Type	Power Input @120 v., AC	EACH 1-5	6-24	25-99
41 D 5403 X	ST250B	0.5 amps	325.00	292.50	276.25
41 D 5404 X	ST1800	1.0 amps	375.00	337.50	318.75
41 D 5416 X	SP250-4	0.75 amps	725.00	652.50	616.25
41 D 5417 X	SP1800-4	1.25 amps	775.00	697.50	658.75

BP262G19 2-Ohm Dropping Resistor. 25W. For ST-250B and SP250-4 with SS50-1009 motor. Note: two are required for ST1800 and SP1800-4 with HS50 motor.
41 D 5442. 1-5........Each 2.00 6-24........Each 1.80 25-99........Each 1.70

41 D 5447. BM102088G5 1-Ohm Dropping Resistor. 50W. For ST-1800 and SP1800-4 with SS250-1027 and SS400-1002 motors. 1-5..Each 2.50 6-24...Each 2.25 25-99...Each 2.13

SLO-SYN BIFILAR DC MOTORS

Synchronous motors for DC stepping applications where the use of push-pull circuitry and a center-tapped power supply is not possible, or where increased torque at high stepping-speeds is required. Only a single-ended power source and SPDT switching is necessary. *Indicates BM102088G5 dropping resistor (above) is required when motor is to be used with translator or indexer. †Indicates BP262G19 dropping resistor (above) is required when used in conjunction with translator or indexer.



Maintenance-free constant-speed motors with high torque, instant stop-start-reverse characteristics. For remote control, numerical control systems, and automatic equipment.

USE WITH ST-250B AND SP250-4

Stock No.	Mfr's Type	Fig.	DC Volts	Amps Per Winding	Size (in.)	Wt. Lbs.	EACH 1-5	6-24	25-99
41 D 5410	SS50-1009†	A	5.5	1.3	2½x3⅜	3½	61.00	54.90	51.85
41 D 5411	SS150-1010	A	10.0	1.25	4⅞x4¼	8	70.00	63.00	59.50
41 D 5412	SS250-1002	A	9.0	1.55	4⅞x4¼	8	90.00	81.00	76.50
USE WITH ST-1800 AND SP1800-4									
41 D 5413	SS250-1027*	B	4.6	3.1	4⅞x4¼	8	90.00	81.00	76.50
41 D 5426 X	SS400-1021	B	5.3	3.4	6¾x4¾	15	125.00	112.50	106.25
41 D 5427 U	SS1800-1007	B	11.5	3.9	9½x6½	45	290.00	261.00	246.50
41 D 5415 U	X1000-1002	A	10.0	3.6	7¼x6½	25	220.00	198.00	187.00
41 D 5406	HS50	A	3.0	4.0	3 11/16x3⅜	5	80.00	72.00	68.00

SLO-SYN INSTANT-REVERSING AC SYNCHRONOUS MOTORS

For heavy-duty continuous control uses requiring reversible motor. Basic speed, 72 rpm at 120 v., 60 cps except †200 rpm. *Square design, explosion proof, 60 cps only.

Stock No.	Mfr's Type	Fig.	Torque Oz.-In.	Max. Amps	Size L x Dia.	Wt. Lbs.	EACH 1-5	6-24	25-99
41 D 5421	SS25	A	25	0.1	2¼x2 7/32"	1½	40.00	36.00	34.00
41 D 5458	SS50	A	50	0.3	2½x3⅜"	3½	36.00	32.40	30.60
41 D 5977	SS150	B	150	0.4	4⅞x4¼"	8	45.00	40.50	38.25
41 D 5405	SS250	B	250	0.6	4⅞x4¼"	8	65.00	58.50	55.25
41 D 5401 X	SS400	B	400	0.6	6¾x4¼"	15	100.00	90.00	85.00
41 D 5402 U	X1000*	A	1000	3.0	7¼x6½"	25	195.00	175.50	165.75
41 D 5420 U	SS1800	A	1800	4.0	9½x6½"	45	265.00	238.50	225.25
41 D 5407	TS50†	A	50	0.3	3 11/16x3⅜"	5	55.00	49.50	46.75

SLO-SYN PLANETARY GEAR AND RC MOTORS

As above except types with suffix P have speed-reducing planetary gear assemblies; types with suffix RC have built-in resistor capacitor networks; P-RC types have both. Typical applications for "Slo-Syn" motors include remote control of rheostats, potentiometers and selector switches; camera focusing; process timing; machine tool carriage feeds; assembly line parts positioning and countless other automatic and semiautomatic operations. Approximate speed for motor with P1 assembly, 16.6 rpm (ratio 4⅓); P2, 3.3 (ratio 21⅔); P3, 0.665 (ratio 108⅓). Exact speed may be calculated from basic motor speed (72 rpm) and ratio. To determine shipping weights, use weight indicated for motor in table above and add 1 lb. for RC type, 2 lbs. for P type, and 3 lbs. for P-RC type.

Stock No.	Mfr's Type	Torque (Oz.-In.)	Size Lx Dia.	EACH 1-5	6-24	25-99
41 D 5451	SS50-P1	120	2⅞x3⅜"	46.00	41.40	39.10
41 D 5452	SS50-P2	600	2⅞x3⅜"	46.00	41.40	39.10
41 D 5453	SS50-P3	2000	3 3/16x3⅜"	56.00	50.40	47.60
41 D 5454	SS50-RC	50	5 5/32x3⅜"	45.00	40.50	38.25
41 D 5455	SS50-P1RC	120	5 19/32x3⅜"	55.00	49.50	46.75
41 D 5456	SS50-P2RC	600	5 19/32x3⅜"	55.00	49.50	46.75
41 D 5457	SS50-P3RC	2000	5 29/32x3⅜"	65.00	58.50	55.25

Stock No.	Mfr's Type	Torque (Oz.-In.)	Size Lx Dia.	EACH 1-5	6-24	25-99
41 D 5459 X	SS150-P1	400	6¼x4¼"	55.00	49.50	46.75
41 D 5460 X	SS150-P2	2000	6¼x4¼"	55.00	49.50	46.75
41 D 5461	SS150-RC	150	7½x4¼"	54.00	48.60	45.90
41 D 5462 X	SS150-P2RC	400	8⅞x4¼"	64.00	57.60	54.40
41 D 5463	SS250-P1	650	6¼x4¼"	75.00	67.50	63.75
41 D 5466 X	SS400-P1	1000	6¼x4¼"	115.00	103.50	97.75

RESISTORS FOR ABOVE

Fixed, wirewound resistors for use with capacitors (right), for application in phase shifting networks for motors listed in tables above (except RC types which have network built in). Tol., ±5%. 2 oz.

Stock No.	Mfr's Type	Use With Motor	Ohms	Watts	EACH 1-5	6-24	25-99
41 D 5422	R-SS25	SS25	500	5	1.00	.90	.85
41 D 5984	R-SS50/SS150	SS50/SS150	250	25	1.25	1.13	1.06
41 D 5439	R-SS250/SS400	SS250/SS400	150	50	2.50	2.25	2.12
41 D 5440	R-X1000	X1000	65	160	3.50	3.15	2.98
41 D 5423	R-SS1800	SS1800	40	300	6.50	5.85	5.52
41 D 5438	R-TS50	TS50	300	25	1.25	1.13	1.06

CAPACITORS FOR ABOVE

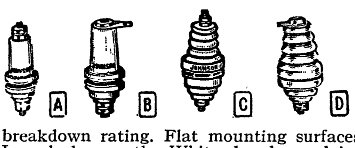
Can-type electrolytics for use in phase shifting networks for motors listed above (except RC types which have network built in). Rated at 330 volts, AC. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Use With Motor	Mfd	EACH 1-5	6-24	25-99
41 D 5424	C-SS25	SS25	.75	3.00	2.70	2.55
41 D 5494	C-SS50	SS50	2.6	4.50	4.05	3.82
41 D 5987	C-SS150/-TS50	SS150/-TS50	3.75	3.50	3.15	2.97
41 D 5443	C-SS250/SS400	SS250/SS400	6.5	4.50	4.05	3.82
41 D 5441	C-X1000	X1000	30.0	19.50	17.75	16.58
41 D 5425	C-SS1800	SS1800	60.0	24.00	22.00	21.00

E. F. Johnson, H. H. Smith Insulators—Coil Forms

E. F. JOHNSON HEAVILY GLAZED INSULATORS AND BUSHINGS

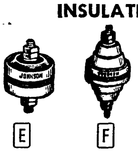
THRU-PANEL INSULATORS



Thru-panel, high voltage insulators are compression mounted by means of a stud throughout length. Extrusion of insulator base extends mounting hole increasing breakdown rating. Flat mounting surfaces with cushion washer. Long leakage paths. White glazed porcelain except †steatite. *Type Nos. with suffix -2 have banana jack plus lug-type terminal. Jacks take Johnson 108-740 or other .175″ dia. banana plugs. Av., 12 oz.

Stock No.	Mfr's Type	Fig.	Top Ht.	Panel Hole	Hard-Ware	EACH 1-49	50-99	100-499
47 D 6200	135-40†	A	1¼″	7/16″	10-32	.45	.41	.37
47 D 6202	135-42†	A	7/8″	13/32″	10-32	.44	.40	.37
47 D 6203	135-42-2	B	7/8″	13/32″	*	.52	.47	.43
47 D 6205	135-44†	A	5/8″	5/16″	6-32	.33	.30	.27
47 D 6206	135-45	C	1⅜″	½″	10-32	.61	.56	.51
47 D 6210	135-46	A	2¾″	11/16″	¼-20	1.60	1.47	1.34
47 D 6211	135-47	A	4½″	31/32″	¼-20	2.75	2.53	2.32
47 D 6215	135-48	C	2″	11/16″	10-32	1.00	.91	.84
47 D 6216	135-48-2	D	2″	11/16″	*	1.12	1.03	.94

INSULATED THRU-PANEL BUSHING ASSEMBLIES



Used in transmitter and antenna installations. Serve as antenna terminals on transmitters, and as high-voltage terminals on heavy-duty power supplies. Max. Dia.: Types 135-50 and 135-55, ¾″; 135-51, 1¼″; 135-52, 1¾″. All types consist of a pair of identical steatite insulators, cushion washers, hardware. 8 oz.

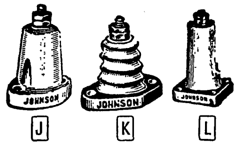
47 D 6217	135-50	F	½″	15/32″	6-32	.40	.36	.33
47 D 6219	135-51	F	13/16″	27/32″	10-32	.59	.54	.49
47 D 6220	135-52	F	1⅛″	17/32″	¼″-20	.89	.81	.75
47 D 6223	135-55	E	¼″	15/32″	6-32	.33	.30	.27

ULTRA-STEATITE CONE INSULATORS

(Not illus.) Non-ribbed high-grade steatite insulators. For mounting coils, capacitors, etc. Threads tapped directly into the steatite. Width shown is max. (base). With 2 nickel-plated brass machine screws and washers, cork cushion washer. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Height	Width	EACH 1-49	50-99	100-499
47 D 6224	135-500	5/8″	5/8″	.23	.21	.18
47 D 6231	135-501	1″	¾″	.34	.31	.28
47 D 6232	135-502	1½″	1″	.54	.49	.45
47 D 6233	135-503	2″	1⅛″	.80	.73	.67
47 D 6234	135-504	3″	1½″	1.38	1.27	1.16

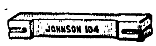
STAND-OFF INSULATORS



All are high-glaze porcelain types except †high-glaze steatite. Ideal for RF applications—feature long leakage path, low capacity, high moisture resistance and breakage-resistant bases. Nickel-plated brass hardware includes screw, flat washer, 2 nuts. Types 135-60, -62 and -65 are ribbed; others have smooth surfaces. All have 2-hole mtg. bases except *Types 135-60 and -62 which are similar to Fig. K but have square bases with 4 mtg. holes. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Body Ht.	Hard-ware	EACH 1-49	50-99	100-499
47 D 6235	135-20†	J	1 9/16″	10-32	.33	.30	.27
47 D 6237	135-22†	J	1″	8-32	.22	.20	.18
47 D 6239	135-24†	J	5/8″	6-32	.18	.16	.15
47 D 6240	135-60	*	4½″	¼-20	1.20	1.10	1.01
47 D 6241	135-62	*	2¾″	¼-20	.66	.60	.55
47 D 6242	135-65	K	1⅜″	10-32	.35	.32	.29
47 D 6248	135-66	L	2¾″	¼-20	.87	.80	.73
47 D 6251	135-67	L	4½″	¼-20	1.25	1.15	1.05

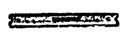
PORCELAIN ANTENNA STRAIN INSULATORS



Have heavily porcelain-glazed surfaces to prevent moisture absorption, and nickel-plated brass hardware suitable for exposed applications. Type 136-107 is wet process, glazed 1″ diameter round design with 800 lbs. breaking stregnth. 136-104 is dry process, glazed 5/8″ square design with 400 lbs. breaking strength. Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Size	EACH 1-49	50-99	100-499
47 D 6254	136-104	4″ long by 5/8″ square	.30	.27	.25
47 D 6255	136-107	7″ long by 1″ diameter	1.38	1.27	1.16

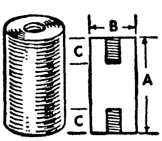
PORCELAIN ANTENNA-FEEDER SPREADERS



Feeder insulators of high-grade, low-absorption porcelain for lowest leakage loss. All are designed for open-wire antenna feeders and transmission lines with impedances of approximately 200 to 600 ohms. Unglazed-porcelain bars with a ⅜x½″ cross-section treated with "Silaneal," a silicone product resistant to moisture. Surfaces suitable for exposed applications. In choice of 3 lengths. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Length	EACH 1-49	50-99	100-499
47 D 6257	136-122	2″	.19	.17	.16
47 D 6258	136-124	4″	.30	.27	.25
47 D 6259	136-126	6″	.49	.45	.41

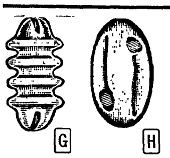
H. H. SMITH CERAMIC STAND-OFF INSULATORS



Commerical-grade threaded insulators to suit a wide variety of RF applications. Grade L-5 ceramic is employed with outside highly glazed to prevent absorption of moisture and avoid leakage losses. All except Type 2640 are threaded at both ends to accept 6-32 or ¼-20 machine screws. Type 2640 is threaded throughout. Av., 3 oz.

Stock No.	Mfr's Type	Dimensions A	B	C	Thread	PER PKG. OF 10 1-9	10-49	50-99
47 D 4347	2640	¼″	¼″	Thru	6-32	1.26	1.13	1.05
47 D 4348	2641	½″	¼″	5/32″	6-32	1.32	1.19	1.10
47 D 4349	2642	⅜″	⅜″	5/32″	6-32	1.38	1.24	1.15
47 D 4350	2643	½″	⅜″	3/16″	6-32	1.44	1.30	1.20
47 D 4351	2644	½″	½″	9/64″	6-32	1.50	1.35	1.25
47 D 4352	2645	¾″	½″	¼″	6-32	1.60	1.44	1.33
47 D 4353	2646	1″	½″	⅜″	6-32	1.50	1.35	1.25
47 D 4355	2647	1½″	½″	9/16″	6-32	2.10	1.89	1.81
47 D 4356	2648	2½″	½″	½″	6-32	3.00	2.70	2.49
47 D 4357	2649	2½″	¾″	¾″	¼-20	3.60	3.24	2.99
47 D 4358	2650	4″	¾″	¾″	¼-20	5.00	4.50	4.15

PORCELAIN ANTENNA INSULATORS



G Ribbed Insulator. 2½″ long. Use as end insulators with antennas. 4 per package.
47 D 6051. 1-9 Packages........Per Pkg. .33
10-49 Packages...............Per Pkg. .30
50-99 Packages...............Per Pkg. .28
100-499 Packages.............Per Pkg. .26

H Egg Insulator. White ceramic strain insulator for breaking guy wires into non-resonant lengths. 1¾x⅞″ dia. 4 per package.
47 D 6052. 1-9 Pkgs..Per Pkg. .40 10-49 Pkgs.........Per Pkg. .37
50-99 Pkgs..........Per Pkg. .34 100-499 Pkgs.......Per Pkg. .32

POLYSTYRENE COIL FORMS

Selection of forms for winding RF coils of nearly all types. Feature low loss, high dielectric polystyrene construction—produce coils of exceptional stability. Excellent for plug-in type regenerative receiver coils; plate, grid or tank coils in VFO's; grid-dip meter coils; etc. Forms with 4, 5, and 6 prongs fit standard tube sockets; 5 prong miniature form fits Amphenol Type 78-S5S sockets. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Prongs	Size L x Dia.	EACH 1-99	100-499	500-999	1000-Up
47 D 6693	24-5H	5 min.	1 9/16x¾″	.28	.25	.23	.21
47 D 6695	24-4P	4 std.	2¼x1¼″	.37	.33	.30	.28
47 D 6696	24-5P	5 std.	2¼x1¼″	.27	.24	.22	.20
47 D 6697	24-6P	6 std.	2¼x1¼″	.40	.36	.33	.30

MILLEN LOW-LOSS MICA-FILLED COIL FORMS

TYPE 45004 FORMS

Low-loss molded mica-filled coil form with phenolic base. Four-prong type. Excellent for use by the experimenter and builder in construction of shortwave receivers, low-power transmitters, and similar applications. Guide funnel makes for easy threading of leads through pins. Size: 1″ diameter; 1 13/32″ winding length; 2 3/16″ overall. 2 oz.
47 D 3217..51

TYPE 45005 FORMS

Identical to Type 45004 listed above, but has 5 prongs.
47 D 3218..51

TYPE 45000 FORMS

Same as Type 45004, but without any prongs. Screw mountings.
47 D 3219..39

Allied can supply items on this page at factory OEM prices. Inquire for prices on quantities greater than those indicated.

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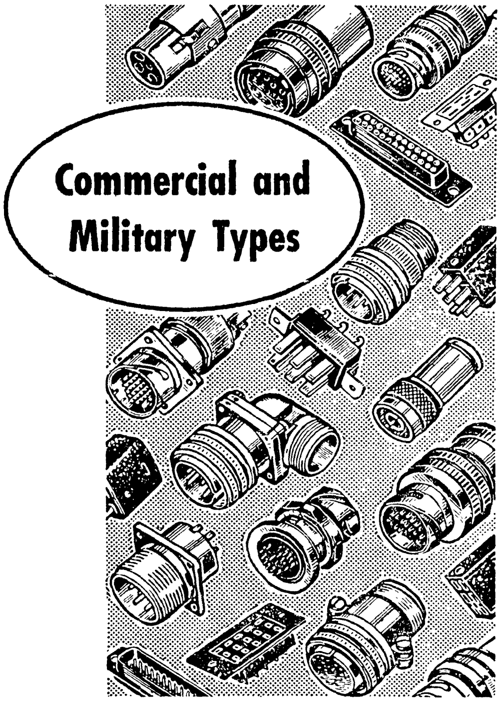

STOCKED IN DEPTH

Every Connector Listed in This Catalog Is Included in Allied's Vast Stock

SAME-DAY SHIPMENT

FACTORY OEM PRICES

14 SALES OFFICES

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(See Page Facing Inside Front Cover for Locations)

QUICK-REFERENCE INDEX TO CONNECTORS IN THIS CATALOG

Mfr's Type	MIL Spec	OEM Prices Up To	Page
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Series 26		249	262
Series 27, 31*		2499	255, 257
Series 57		249	260
Series 61		2499	262
Series 67		199	253, 254
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Series 86		2499	261, 263
Series 91		999	261, 263
Series 115		99	254
Series 126		249	261
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Series 165		99	261
Series 220,221,222,223,225	C-8384B	2499	259
Series 3100A, 3101A, 3102A, 3106A, 3106B, 3108A, 3108B	C-5015D	999	248-252
Series 5116, Quick Crimp BNC RF Series*		999	255

*Connectors with prefix UG, CW, PL, SO, M are under MIL Specs

Mfr's Type	MIL Spec	OEM Prices Up To	Page
AUGAT 8000, 8004, 8058, 8060, 8075, 8076, 8089, 8092, 8095, 8100 Series		999	290, 315
CANNON XLR Series		99	264
CINCH-JONES			
Series 2, 13		999	274
Series 17		199	272
Series 37		499	269
Series 81		999	274
Series 101		499	268
Series 140, 141, 142		999	271, 272
Series 150		999	270
Series 160, 161, 162, 170		499	272
Series 170, 171, 172, 173		999	271
Series 202, 250, 251, 252, 250-251 MIL	M-C-21097B	999	270
Series 300, 400		499	268, 269
Series 500, 540, 541, 542		499	271
Series 2400		499	269
Series D	M-14F,STD-202A	499	270
ELCO			
Series 5006, 5007, 5009		249	267
Series 5011, 5023, 5101		249	265
Series 5200		249	265
Series 6007		249	267
Series 7000, 7009, 7012, 7014, 7015, 7020		999	265
Series 7008, 7022		249	264
Series 7023, 7024, 7038		249	267
Series 7038 MIL, 8016, 8017	C-21097/20	249	266
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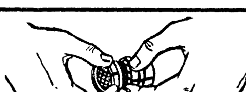
Contact Strips		833	265
Audio Series		249	264
Varicon Rack and Panel		499	264
E.F. JOHNSON		999	282
KINGS RF*		499	258
MALLORY Series 55, 75, 85, 100, 700, A, LA, SC		499	279
MUELLER		999	275
POMONA		249	289, 304
H.H. SMITH		2499	272-274, 279-281, 283, 284, 287, 288, 299, 302
SWITCHCRAFT	J-641, J-641(1), J-641(A), J-642, P, 642, JJ-048, PJ-291, PJ-636	999	276-278
TRIAD P.C. Boards		. . .	308
USECO Series 1200, 1300, 1400, 1700, 2000, 2500, 4400		14,900	300, 301
VACO		Any	303, 304
VECTOR		999	298, 304, 307, 309, 310

AMPHENOL MS CONNECTORS ASSEMBLED TO YOUR ORDER



Fast Delivery is Insured When Our Assembly Dept. Makes Up and Positions to Your Specifications Any MS Amphenol Connectors Listed in This Catalog.

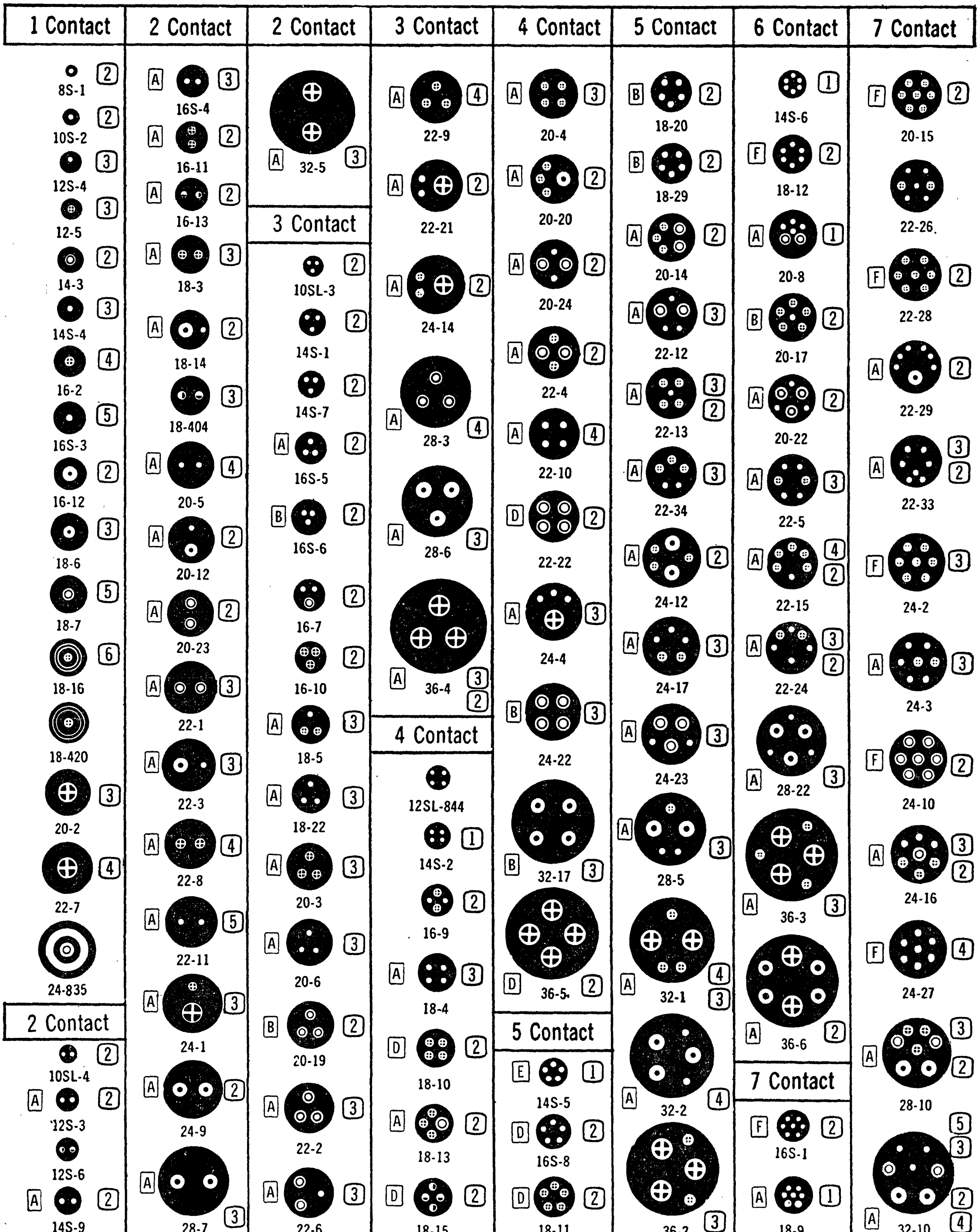
Amphenol MS Connector Insert Arrangements

SERVICE RATINGS

SERVICE	1	2	3	4	5	6
Max. Operating Sea Level Volts DC	250	700	1250	1750	2450	4200
Max. Operating Sea Level Volts AC (rms)	200	500	900	1250	1750	3000

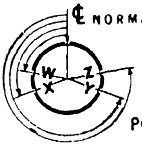
CURRENT RATINGS

CONTACT SIZE	20	16	12	8	4	0
AMPERES	10	22	41	73	135	245



See Following Pages for Amphenol MS Connector Listings

Amphenol MS Connector Insert Arrangements



FRONT VIEW OF POSITIONS

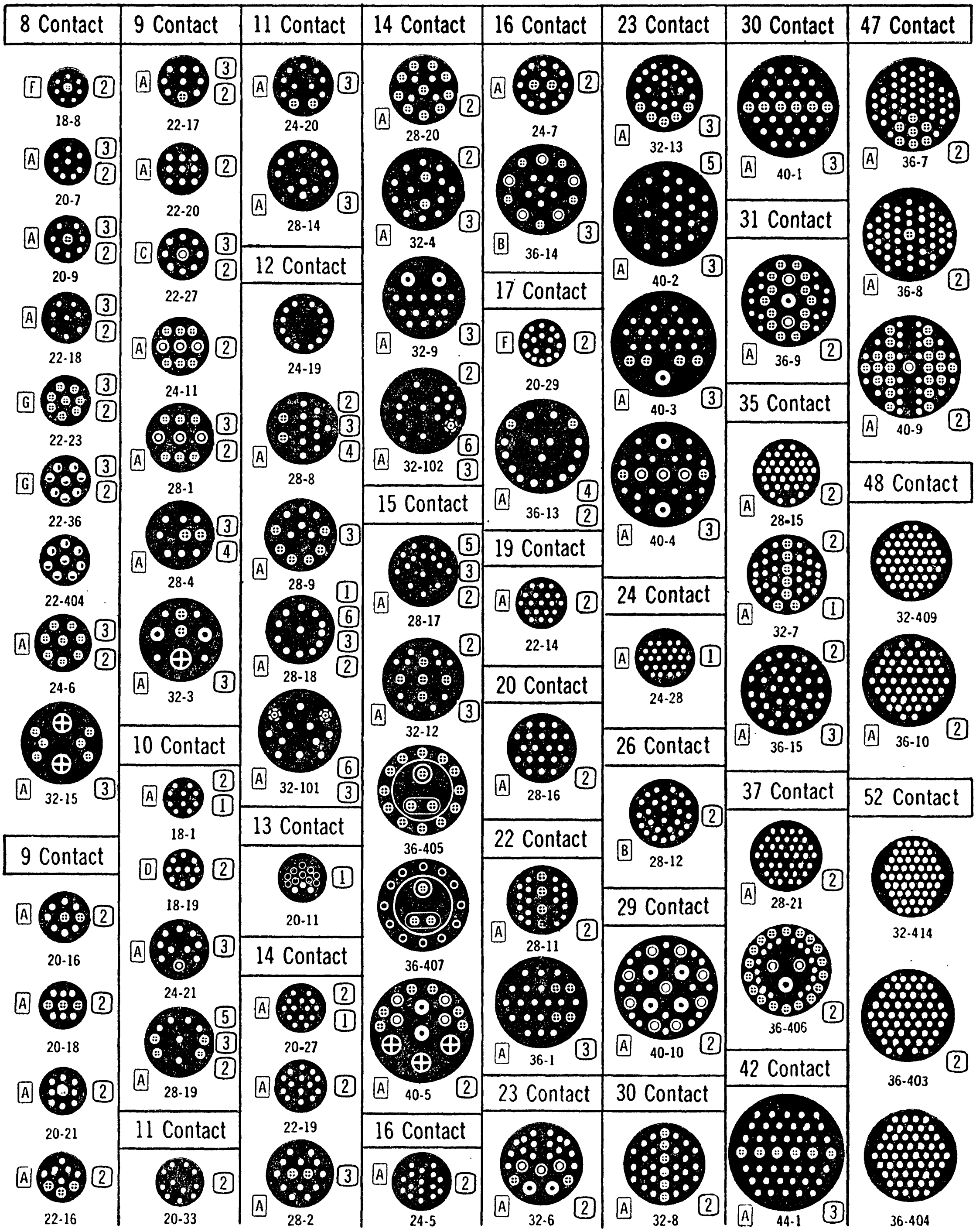
See Pages 248-252 for Connector Listings. Contact sizes correspond in number coding to wire sizes.

CODE OF WIRE SIZES

20	16	12, 8	4	0	COAX	IRON	CONSTANTAN

ALTERNATE INSERT POSITIONS AVAILABLE

A W, X, Y or Z	C W, Y or Z	E X	G W or Y
B W, X or Y	D X or Y	F W or Z	

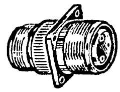


Amphenol MS Receptacles . . .

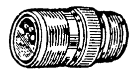
Explanation of Series Nos. E.g.: 3102A-18-11P. "A" stands for solid shell ("B" split shell). "18" indicates shell size in 16ths of 1". "P"—pin; "S"—socket type. Mates for 3100A, 3101A and 3102A are directly opposite, on facing page. Require cable clamp (see page 252) except 3102A. Contacts are silver plated, and solder cups tinned. Aluminum shells with cadmium plate and O.D. conversion. Meet MIL-C-5015D.

HOW TO ORDER
Specify Stock Number, then add connector Type Number. For example, 47 D 7000C (stock no.)—3100A-8S-1P (type no.).

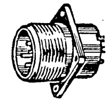
Positions W, X, Y, Z Available from Stock as indicated, below. 5¢ Extra Per Connector



3100A Wall Receptacle



3101A Cable Receptacle



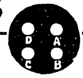
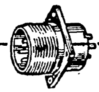
3102A Box Receptacle

Shell Style Insert	No. Contacts	Positions				MS 3100A EACH				MS 3101A EACH				MS 3102A EACH			
		W	X	Y	Z	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999
8S-1P	1					1.31	1.09	.97	.87	1.26	1.05	.93	.84	.84	.70	.62	.56
8S-1S	1					1.29	1.08	.95	.86	1.25	1.04	.92	.83	.83	.69	.61	.55
10S-2P	1					1.16	.96	.85	.77	.99	.83	.73	.66	.59	.49	.43	.39
10S-2S	1					1.16	.96	.85	.77	.99	.83	.73	.66	.59	.49	.43	.39
10SL-3P	3					1.01	.84	.74	.67	.96	.80	.71	.64	.71	.59	.52	.47
10SL-4P	2					.93	.78	.69	.62	.87	.73	.64	.58	.63	.53	.47	.42
12-5P	1					1.17	.98	.87	.78	1.32	1.10	.98	.88	.71	.59	.52	.47
12-5S	1					1.35	1.13	1.00	.90	1.50	1.25	1.11	1.00	.89	.74	.65	.59
12S-2P	2					1.04	.86	.77	.69	1.16	.96	.85	.77	.66	.55	.49	.44
12S-2S	2					1.10	.91	.81	.73	1.20	1.00	.89	.80	.71	.59	.52	.47
12S-3P	2	X	X	X	X	.96	.80	.71	.64	1.08	.90	.80	.72	.59	.49	.43	.39
12S-3S	2	X	X	X	X	1.01	.84	.74	.67	1.13	.94	.83	.75	.63	.53	.47	.42
12S-4P	1					1.04	.86	.77	.69	1.16	.96	.85	.77	.66	.55	.49	.44
12S-4S	1					1.01	.84	.74	.67	1.13	.94	.83	.75	.63	.53	.47	.42
12SL-844P	4					......	......	......	......	......	......	......	......	1.32	1.10	.98	.88
14S-1P	3					1.05	.88	.78	.70	1.28	1.06	.94	.85	.68	.56	.50	.45
14S-1S	3					1.11	.93	.82	.74	1.32	1.10	.98	.88	.72	.60	.53	.48
14S-2P	4					1.05	.88	.78	.70	1.28	1.06	.94	.85	.68	.56	.50	.45
14S-2S	4					1.16	.96	.85	.77	1.37	1.14	1.01	.91	.78	.65	.58	.52
14S-5P	5	X			X	1.19	.99	.88	.79	1.41	1.18	1.04	.94	.81	.68	.60	.54
14S-5S	5	X			X	1.22	1.01	.90	.81	1.44	1.20	1.07	.96	.84	.70	.62	.56
14S-6P	6					1.31	1.09	.97	.87	1.52	1.26	1.12	1.01	.93	.78	.69	.62
14S-6S	6					1.31	1.09	.97	.87	1.52	1.26	1.12	1.01	.93	.78	.69	.62
14S-7P	3					1.05	.88	.78	.70	1.28	1.06	.94	.85	.68	.56	.50	.45
14S-7S	3					1.11	.93	.82	.74	1.32	1.10	.98	.88	.72	.60	.53	.48
14S-9P	2	X	X	X	X	1.01	.84	.74	.67	1.22	1.01	.90	.81	.63	.53	.47	.42
14S-9S	2	X	X	X	X	1.04	.86	.77	.69	1.26	1.05	.93	.84	.66	.55	.49	.44
16-9P	4					1.38	1.15	1.02	.92	1.62	1.35	1.20	1.08	.99	.83	.73	.66
16-9S	4					1.47	1.23	1.09	.98	1.70	1.41	1.25	1.13	1.08	.90	.80	.72
16-10P	3					1.31	1.09	.97	.87	1.53	1.28	1.13	1.02	.92	.76	.68	.61
16-10S	3					1.55	1.29	1.14	1.03	1.79	1.49	1.32	1.19	1.16	.96	.85	.77
16-11P	2	X	X	X	X	1.19	.99	.88	.79	1.43	1.19	1.05	.95	.80	.66	.59	.53
16-11S	2	X	X	X	X	1.38	1.15	1.02	.92	1.62	1.35	1.20	1.08	.99	.83	.73	.66
16-13P	2	X	X	X	X	3.62	3.01	2.68	2.41	3.84	3.20	2.84	2.56	3.23	2.69	2.39	2.15
16-13S	2	X	X	X	X	4.23	3.53	3.13	2.82	4.46	3.71	3.30	2.97	3.83	3.19	2.83	2.55
16S-1P	7	X		X		1.31	1.09	.97	.87	1.47	1.23	1.09	.98	.89	.74	.65	.59
16S-1S	7	X		X		1.38	1.15	1.02	.92	1.55	1.29	1.14	1.03	.98	.81	.72	.65
16S-4P	2	X	X	X	X	1.22	1.01	.90	.81	1.38	1.15	1.02	.92	.81	.68	.60	.54
16S-4S	2	X	X	X	X	1.26	1.05	.93	.84	1.43	1.19	1.05	.95	.84	.70	.62	.56
16S-5P	3	X	X	X	X	1.22	1.01	.90	.81	1.38	1.15	1.02	.92	.81	.68	.60	.54
16S-5S	3	X	X	X	X	1.29	1.08	.95	.86	1.46	1.21	1.08	.97	.87	.73	.64	.58
16S-8P	5		X	X		1.26	1.05	.93	.84	1.43	1.19	1.05	.95	.84	.70	.62	.56
16S-8S	5		X	X		1.32	1.10	.98	.88	1.49	1.24	1.10	.99	.92	.76	.68	.61
18-1P	10	X	X	X	X	1.65	1.38	1.22	1.10	1.94	1.61	1.43	1.29	1.17	.98	.87	.78
18-1S	10	X	X	X	X	1.86	1.55	1.38	1.24	2.15	1.79	1.59	1.43	1.38	1.15	1.02	.92
18-3P	2	X	X	X	X	1.32	1.10	.98	.88	1.61	1.34	1.19	1.07	.84	.70	.62	.56
18-3S	2	X	X	X	X	1.55	1.29	1.14	1.03	1.83	1.53	1.35	1.22	1.08	.90	.80	.72
18-4P	4	X	X	X	X	1.35	1.13	1.00	.90	1.64	1.36	1.21	1.09	.87	.73	.64	.58
18-4S	4	X	X	X	X	1.47	1.23	1.09	.98	1.76	1.46	1.30	1.17	.99	.83	.73	.66
18-5P	3	X	X	X	X	1.82	1.51	1.34	1.21	2.10	1.75	1.55	1.40	1.34	1.11	.99	.89
18-5S	3	X	X	X	X	1.55	1.29	1.14	1.03	1.83	1.53	1.35	1.22	1.08	.90	.80	.72
18-8P	8	X			X	1.64	1.36	1.21	1.09	1.92	1.60	1.42	1.28	1.16	.96	.85	.77
18-8S	8	X			X	1.79	1.49	1.32	1.19	2.07	1.73	1.53	1.38	1.31	1.09	.97	.87
18-9P	7	X	X	X	X	1.59	1.33	1.18	1.06	1.86	1.55	1.38	1.24	1.11	.93	.82	.74
18-9S	7	X	X	X	X	1.77	1.48	1.31	1.18	2.04	1.70	1.51	1.36	1.29	1.08	.95	.86
18-10P	4		X	X		1.50	1.25	1.11	1.00	1.79	1.49	1.32	1.19	1.02	.85	.75	.68
18-10S	4		X	X		1.88	1.56	1.39	1.25	2.16	1.80	1.60	1.44	1.41	1.18	1.04	.94
18-11P	5		X	X		1.67	1.39	1.23	1.11	1.95	1.63	1.44	1.30	1.19	.99	.88	.79
18-11S	5		X	X		1.86	1.55	1.38	1.24	2.15	1.79	1.59	1.43	1.38	1.15	1.02	.92
18-12P	6	X			X	1.58	1.31	1.17	1.05	1.85	1.54	1.37	1.23	1.10	.91	.81	.73
18-12S	6	X			X	1.71	1.43	1.27	1.14	2.00	1.66	1.48	1.33	1.25	1.04	.92	.83
18-15P	4		X	X		6.29	5.24	4.65	4.19	6.57	5.48	4 86	4.38	5.81	4.84	4.30	3.87
18-15S	4		X	X		7.41	6.18	5.48	4.94	7.70	6.41	5.69	5.13	6.93	5.78	5.13	4.62
18-16P	1					1.52	1.26	1.12	1.01	1.80	1.50	1.33	1.20	1.04	.86	.77	.69
18-16S	1					1.79	1.49	1.32	1.19	2.07	1.73	1.53	1.38	1.31	1.09	.97	.87
20-4P	4	X	X	X	X	1.62	1.35	1.20	1.08	1.91	1.59	1.41	1.27	1.17	.98	.87	.78
20-4S	4	X	X	X	X	1.86	1.55	1.38	1.24	2.15	1.79	1.59	1.43	1.43	1.19	1.05	.95
20-7P	8	X	X	X	X	1.62	1.35	1.20	1.08	1.91	1.59	1.41	1.27	1.17	.98	.87	.78
20-7S	8	X	X	X	X	1.83	1.53	1.35	1.22	2.12	1.76	1.57	1.41	1.38	1.15	1.02	.92
20-8P	6	X	X	X	X	1.95	1.63	1.44	1.30	2.24	1.86	.165	1.49	1.50	1.25	1.11	1.00
20-8S	6	X	X	X	X	2.31	1.93	1.71	1.54	2.60	2.16	1.92	1.73	1.86	1.55	1.38	1.24

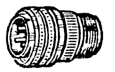
and Mating Plugs

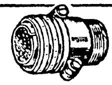
SIMPLIFIED ORDERING

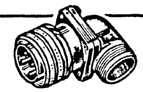
Select desired insert (pg. 246-247), then shell style; receptacles on opposite page. Mating plugs, below. Paired-off listing places mating plugs and receptacles on the same line.

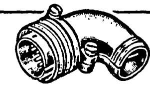
Insert 18-4  — Panel Recept. MS 3102A-18-4P  — Straight Plug MS-3106A-18-4S  — Cable Clamp MS 3057-10A 

4 No. 16 contacts, 22 amps, 900 VAC → Pin Contacts Cold Circuit → Socket Contacts Hot Circuit → Clamps on Page 252


3106A


3106B


3108A


3108B

Shell Style Insert	Series 3106A EACH				Series 3106B EACH				Series 3108A EACH				Series 3108B EACH			
	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999
8S-1S	1.13	.94	.83	.75	......	......	......	......	1.52	1.26	1.12	1.01	......	......	......	......
8S-1P	1.14	.95	.84	.76	......	......	......	......	1.53	1.28	1.13	1.02	......	......	......	......
10S-2S	1.01	.84	.74	.67	......	......	......	......	1.71	1.43	1.27	1.14	1.05	.88	.78	.70
10S-2P	1.01	.84	.74	.67	......	......	......	......	1.71	1.43	1.27	1.14	1.05	.88	.78	.70
10SL-3S	.95	.79	.70	.63	......	......	......	......	1.74	1.45	1.29	1.16	1.19	.99	.88	.79
10SL-4S	.98	.81	.72	.65	......	......	......	......	1.77	1.48	1.31	1.18	1.22	1.01	.90	.81
12-5S	1.35	1.13	1.00	.90	......	......	......	......	2.16	1.80	1.60	1.44	1.46	1.21	1.08	.97
12-5P	1.17	.98	.87	.78	......	......	......	......	1.98	1.65	1.47	1.32	1.28	1.06	.94	.85
12S-2S	1.14	.95	.84	.76	......	......	......	......	2.15	1.79	1.59	1.43	1.49	1.24	1.10	.99
12S-2P	1.10	.91	.81	.73	......	......	......	......	2.10	1.75	1.55	1.40	1.44	1.20	1.07	.96
12S-3S	1.05	.88	.78	.70	......	......	......	......	2.07	1.73	1.53	1.38	1.41	1.18	1.04	.94
12S-3P	1.01	.84	.74	.67	......	......	......	......	2.01	1.68	1.49	1.34	1.35	1.13	1.00	.90
12S-4S	1.05	.88	.78	.70	......	......	......	......	2.07	1.73	1.53	1.38	1.41	1.18	1.04	.94
12S-4P	1.10	.91	.81	.73	......	......	......	......	2.10	1.75	1.55	1.40	1.44	1.20	1.07	.96
12SL-844S	2.45	2.04	1.81	1.63	......	......	......	......	3.69	3.08	2.73	2.46	......	......	......	......
14S-1S	1.17	.98	.87	.78	1.46	1.21	1.08	.97	1.98	1.65	1.47	1.32	1.25	1.04	.92	.83
14S-1P	1.13	.94	.83	.75	1.41	1.18	1.04	.94	1.94	1.61	1.43	1.29	1.19	.99	.88	.79
14S-2S	1.22	1.01	.90	.81	1.50	1.25	1.11	1.00	2.03	1.69	1.50	1.35	1.29	1.08	.95	.86
14S-2P	1.13	.94	.83	.75	1.41	1.18	1.04	.94	1.94	1.61	1.43	1.29	1.19	.99	.88	.79
14S-5S	1.29	1.08	.95	.86	1.58	1.31	1.17	1.05	2.10	1.75	1.55	1.40	1.35	1.13	1.00	.90
14S-5P	1.26	1.05	.93	.84	1.53	1.28	1.13	1.02	2.07	1.73	1.53	1.38	1.32	1.10	.98	.88
14S-6S	1.37	1.14	1.01	.91	1.65	1.38	1.22	1.10	2.18	1.81	1.61	1.45	1.44	1.20	1.07	.96
14S-6P	1.37	1.14	1.01	.91	1.65	1.38	1.22	1.10	2.18	1.81	1.61	1.45	1.44	1.20	1.07	.96
14S-7S	1.17	.98	.87	.78	1.46	1.21	1.08	.97	1.98	1.65	1.47	1.32	1.25	1.04	.92	.83
14S-7P	1.13	.94	.83	.75	1.41	1.18	1.04	.94	1.94	1.61	1.43	1.29	1.19	.99	.88	.79
14S-9S	1.11	.93	.82	.74	1.38	1.15	1.02	.92	1.92	1.60	1.42	1.28	1.17	.98	.87	.78
14S-9P	1.08	.90	.80	.72	1.35	1.13	1.00	.90	1.88	1.56	1.39	1.25	1.14	.95	.84	.76
16-9S	1.67	1.39	1.23	1.11	......	......	......	......	2.81	2.34	2.08	1.87	1.80	1.50	1.33	1.20
16-9P	1.59	1.33	1.18	1.06	......	......	......	......	2.73	2.28	2.02	1.82	1.71	1.43	1.27	1.14
16-10S	1.76	1.46	1.30	1.17	......	......	......	......	2.90	2.41	2.14	1.93	1.88	1.56	1.39	1.25
16-10P	1.50	1.25	1.11	1.00	......	......	......	......	2.64	2.20	1.95	1.76	1.64	1.36	1.21	1.09
16-11S	1.59	1.33	1.18	1.06	......	......	......	......	2.73	2.28	2.02	1.82	1.71	1.43	1.27	1.14
16-11P	1.38	1.15	1.02	.92	......	......	......	......	2.52	2.10	1.86	1.68	1.52	1.26	1.12	1.01
16-13S	4.43	3.69	3.27	2.95	......	......	......	......	5.57	4.64	4.12	3.71	4.56	3.80	3.37	3.04
16-13P	3.81	3.18	2.82	2.54	......	......	......	......	4.95	4.13	3.66	3.30	3.95	3.29	2.92	2.63
16S-1S	1.46	1.21	1.08	.97	1.76	1.46	1.30	1.17	2.81	2.34	2.08	1.87	1.65	1.38	1.22	1.10
16S-1P	1.37	1.14	1.10	.91	1.67	1.39	1.23	1.11	2.73	2.28	2.02	1.82	1.58	1.31	1.17	1.05
16S-4S	1.32	1.10	.98	.88	1.62	1.35	1.20	1.08	2.67	2.23	1.98	1.78	1.52	1.26	1.12	1.01
16S-4P	1.29	1.08	.95	.86	1.59	1.33	1.18	1.06	2.64	2.20	1.95	1.76	1.49	1.24	1.10	.99
16S-5S	1.35	1.13	1.00	.90	1.65	1.38	1.22	1.10	2.70	2.25	2.00	1.80	1.55	1.29	1.14	1.03
16S-5P	1.29	1.08	.95	.86	1.59	1.33	1.18	1.06	2.64	2.20	1.95	1.76	1.49	1.24	1.10	.99
16S-8S	1.38	1.15	1.02	.92	1.68	1.40	1.24	1.12	2.75	2.29	2.03	1.83	1.59	1.33	1.18	1.06
16S-8P	1.32	1.10	.98	.88	1.62	1.35	1.20	1.08	2.67	2.23	1.98	1.78	1.52	1.26	1.12	1.01
18-1S	2.04	1.70	1.51	1.36	2.48	2.06	1.83	1.65	3.57	2.98	2.64	2.38	2.36	1.96	1.74	1.57
18-1P	1.83	1.53	1.35	1.22	2.27	1.89	1.86	1.51	3.35	2.79	2.48	2.23	2.15	1.79	1.59	1.43
18-3S	1.74	1.45	1.29	1.16	2.16	1.80	1.60	1.44	3.26	2.71	2.41	2.17	2.04	1.70	1.51	1.36
18-3P	1.50	1.25	1.11	1.00	1.94	1.61	1.43	1.29	3.02	2.51	2.23	2.01	1.82	1.51	1.34	1.21
18-4S	1.65	1.38	1.22	1.10	2.09	1.74	1.54	1.39	3.17	2.64	2.34	2.11	1.97	1.64	1.45	1.31
18-4P	1.53	1.28	1.13	1.02	1.97	1.64	1.45	1.31	3.06	2.55	2.26	2.04	1.85	1.54	1.37	1.23
18-5S	1.74	1.45	1.29	1.16	2.16	1.80	1.60	1.44	3.26	2.71	2.41	2.17	2.04	1.70	1.51	1.36
18-5P	2.00	1.66	1.48	1.33	2.43	2.03	1.80	1.62	3.51	2.93	2.60	2.34	2.31	1.93	1.71	1.54
18-8S	1.97	1.64	1.45	1.31	2.40	2.00	1.78	1.60	3.48	2.90	2.58	2.32	2.28	1.90	1.69	1.52
18-8P	1.82	1.51	1.34	1.21	2.25	1.88	1.67	1.50	3.33	2.78	2.46	2.22	2.13	1.78	1.58	1.42
18-9S	1.95	1.63	1.44	1.30	2.37	1.98	1.75	1.58	3.47	2.89	2.56	2.31	2.27	1.89	1.68	1.51
18-9P	1.77	1.48	1.31	1.18	2.19	1.83	1.62	1.46	3.29	2.74	2.43	2.19	2.09	1.74	1.54	1.39
18-10S	2.07	1.73	1.53	1.38	2.49	2.08	1.84	1.66	3.59	2.99	2.65	2.39	2.37	1.98	1.75	1.58
18-10P	1.68	1.40	1.24	1.12	2.12	1.76	1.57	1.41	3.20	2.66	2.36	2.13	2.00	1.66	1.48	1.33
18-11S	2.04	1.70	1.51	1.36	2.48	2.06	1.83	1.65	3.57	2.98	2.64	2.38	2.36	1.96	1.74	1.57
18-11P	1.85	1.54	1.37	1.23	2.28	1.90	1.69	1.52	3.36	2.80	2.49	2.24	2.16	1.80	1.60	1.44
18-12S	1.91	1.59	1.41	1.27	2.33	1.94	1.72	1.55	3.42	2.85	2.53	2.28	2.21	1.84	1.63	1.47
18-12P	1.76	1.46	1.30	1.17	2.18	1.81	1.61	1.45	3.27	2.73	2.42	2.18	2.07	1.73	1.53	1.38
18-15S	7.59	6.33	5.62	5.06	8.03	6.69	5.94	5.35	9.11	7.59	6.74	6.07	7.91	6.59	5.85	5.27
18-15P	6.47	5.39	4.78	4.31	6.90	5.75	5.11	4.60	7.98	6.65	5.91	5.32	6.78	5.65	5.02	4.52
18-16S	1.97	1.64	1.45	1.31	2.40	2.00	1.78	1.60	3.48	2.90	2.58	2.32	2.28	1.90	1.69	1.52
18-16P	1.70	1.41	1.25	1.13	2.13	1.78	1.58	1.42	3.23	2.69	2.39	2.15	2.01	1.68	1.49	1.34
20-4S	2.16	1.80	1.60	1.44	2.40	2.00	1.78	1.60	3.92	3.26	2.90	2.61	2.48	2.06	1.83	1.65
20-4P	1.92	1.60	1.42	1.28	2.15	1.79	1.59	1.43	3.66	3.05	2.71	2.44	2.24	1.86	1.65	1.49
20-7S	2.13	1.78	1.58	1.42	2.36	1.96	1.74	1.57	3.89	3.24	2.87	2.59	2.45	2.04	1.81	1.63
20-7P	1.92	1.60	1.42	1.28	2.15	1.79	1.59	1.43	3.66	3.05	2.71	2.44	2.24	1.86	1.65	1.49
20-8S	2.61	2.18	1.93	1.74	2.84	2.36	2.10	1.89	4.35	3.63	3.22	2.90	2.93	2.44	2.16	1.95
20-8P	2.25	1.88	1.67	1.50	2.48	2.06	1.83	1.65	3.99	3.33	2.95	2.66	2.57	2.14	1.90	1.71

Amphenol MS Receptacles . . .

HOW TO ORDFR. Specify Stock No., then connector Type No. Example: 47 D 7000 C (stock no.)—3100A-20-9P (type no.)

Shell Style Insert	No. of Contacts	Positions				Series 3100A EACH				Series 3101A EACH				Series 3102A EACH			
		W	X	Y	Z	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999
20-9P	8	X	X	X	X	1.95	1.63	1.44	1.30	2.24	1.86	1.65	1.49	1.50	1.25	1.11	1.00
20-9S	8	X	X	X	X	2.19	1.83	1.62	1.46	2.48	2.06	1.83	1.65	1.76	1.46	1.30	1.17
20-14P	5	X	X	X	X	2.03	1.69	1.50	1.35	2.31	1.93	1.71	1.54	1.59	1.33	1.18	1.06
20-14S	5	X	X	X	X	2.63	2.19	1.94	1.75	2.91	2.43	2.15	1.94	2.18	1.81	1.61	1.45
20-15P	7	X			X	1.79	1.49	1.32	1.19	2.07	1.73	1.53	1.38	1.34	1.11	.99	.89
20-15S	7	X			X	2.52	2.10	1.86	1.68	2.81	2.34	2.08	1.87	2.09	1.74	1.54	1.39
20-16P	9	X	X	X	X	1.76	1.46	1.30	1.17	2.03	1.69	1.50	1.35	1.31	1.09	.97	.87
20-16S	9	X	X	X	X	2.10	1.75	1.55	1.40	2.37	1.98	1.75	1.58	1.65	1.38	1.22	1.10
20-17P	6	X	X	X		1.95	1.63	1.44	1.30	2.24	1.86	1.65	1.49	1.50	1.25	1.11	1.00
20-17S	6	X	X	X		2.24	1.86	1.65	1.49	2.51	2.09	1.85	1.67	1.79	1.49	1.32	1.19
20-18P	9	X	X	X	X	1.98	1.65	1.47	1.32	2.27	1.89	1.68	1.51	1.53	1.28	1.13	1.02
20-18S	9	X	X	X	X	2.19	1.83	1.62	1.46	2.48	2.06	1.83	1.65	1.76	1.46	1.30	1.17
20-21P	9	X	X	X	X	1.80	1.50	1.33	1.20	2.09	1.75	1.54	1.39	1.35	1.13	1.00	.90
20-21S	9	X	X	X	X	2.01	1.68	1.49	1.34	2.30	1.91	1.70	1.53	1.58	1.31	1.17	1.05
20-22P	6	X	X	X	X	2.27	1.89	1.68	1.51	2.54	2.11	1.88	1.69	1.82	1.51	1.34	1.21
20-22S	6	X	X	X	X	2.69	2.24	1.99	1.79	2.97	2.48	2.20	1.98	2.25	1.88	1.67	1.50
20-23P	2	X	X	X	X	1.82	1.51	1.34	1.21	2.10	1.75	1.55	1.40	1.37	1.14	1.01	.91
20-23S	2	X	X	X	X	2.18	1.81	1.61	1.45	2.46	2.05	1.82	1.64	1.74	1.45	1.29	1.16
20-24P	4	X	X	X	X	1.95	1.63	1.44	1.30	2.24	1.86	1.65	1.49	1.50	1.25	1.11	1.00
20-24S	4	X	X	X	X	2.33	1.94	1.72	1.55	2.61	2.18	1.93	1.74	1.88	1.56	1.39	1.25
20-27P	14	X	X	X	X	1.83	1.53	1.35	1.22	2.12	1.76	1.57	1.41	1.38	1.15	1.02	.92
20-27S	14	X	X	X	X	2.18	1.81	1.61	1.45	2.46	2.05	1.82	1.64	1.74	1.45	1.29	1.16
20-29P	17	X			X	1.98	1.65	1.47	1.32	2.27	1.89	1.68	1.51	1.53	1.28	1.13	1.02
20-29S	17	X			X	2.40	2.00	1.78	1.60	2.67	2.23	1.98	1.78	1.95	1.63	1.44	1.30
20-33P	11					2.00	1.66	1.48	1.33	2.28	1.90	1.69	1.52	1.55	1.29	1.14	1.03
20-33S	11					2.19	1.83	1.62	1.46	2.48	2.06	1.83	1.65	1.76	1.46	1.30	1.17
22-2P	3	X	X	X	X	2.18	1.81	1.61	1.45	2.36	1.96	1.74	1.57	1.62	1.35	1.20	1.08
22-2S	3	X	X	X	X	2.61	2.18	1.93	1.74	2.79	2.33	2.06	1.86	2.04	1.70	1.51	1.36
22-4P	4	X	X	X	X	2.21	1.84	1.63	1.47	2.40	2.00	1.78	1.60	1.65	1.38	1.22	1.10
22-4S	4	X	X	X	X	2.82	2.35	2.09	1.88	3.00	2.50	2.22	2.00	2.27	1.89	1.68	1.51
22-5P	6	X	X	X	X	1.98	1.65	1.47	1.32	2.16	1.80	1.60	1.44	1.43	1.19	1.05	.95
22-5S	6	X	X	X	X	2.49	2.08	1.84	1.66	2.67	2.23	1.98	1.78	1.94	1.61	1.43	1.29
22-9P	3	X	X	X	X	1 80	1.50	1.33	1.20	1.98	1.65	1.47	1.32	1.25	1.04	.92	.83
22-9S	3	X	X	X	X	2.27	1.89	1.68	1.51	2.45	2.04	1.81	1.63	1.70	1.41	1.25	1.13
22-10P	4	X	X	X	X	1.76	1.46	1.30	1.17	1.94	1.61	1.43	1.29	1.19	.99	.88	.79
22-10S	4	X	X	X	X	1.95	1.63	1.44	1.30	2.13	1.78	1.58	1.42	1.38	1.15	1.02	.92
22-11P	2	X	X	X	X	1.62	1.35	1.20	1.08	1.80	1.50	1.33	1.20	1.05	.88	.78	.70
22-11S	2	X	X	X	X	1.85	1.54	1.37	1.23	2.03	1.69	1.50	1.35	1.29	1.08	.95	.86
22-12P	5	X	X	X	X	2.19	1.83	1.62	1.46	2.37	1.98	1.75	1 58	1.64	1.36	1.21	1.09
22-12S	5	X	X	X	X	2.79	2.33	2.06	1.86	2.97	2.48	2.20	1.98	2.24	1.86	1.65	1.49
22-14P	19	X	X	X	X	2.19	1.83	1.62	1.46	2.37	1.98	1.75	1.58	1.64	1.36	1.21	1.09
22-14S	19	X	X	X	X	2.63	2.19	1.94	1.75	2.81	2.34	2.08	1.87	2.07	1.73	1.53	1.38
22-15P	6	X	X	X	X	2.21	1.84	1.63	1.47	2.40	2.00	1.78	1.60	1.65	1.38	1.22	1.10
22-15S	6	X	X	X	X	2.63	2.19	1.94	1.75	2.81	2.34	2.08	1.87	2.07	1.73	1.53	1.38
22-17P	9	X	X	X	X	2.03	1.69	1.50	1.35	2.21	1.84	1 63	1.47	1.47	1.23	1.09	.98
22-17S	9	X	X	X	X	2.43	2.03	1.80	1.62	2.61	2.18	1.93	1.74	1.86	1.55	1.38	1.24
22-18P	8	X	X	X	X	1.88	1.56	1.39	1.25	2.07	1.73	1.53	1.38	1.32	1.10	.98	.88
22-18S	8	X	X	X	X	2.04	1.70	1.51	1.36	2.24	1.86	1.65	1.49	1.49	1 24	1.10	.99
22-19P	14	X	X	X	X	2.51	2.09	1.85	1.67	2.69	2.24	1.99	1.79	1.95	1.63	1.44	1.30
22-19S	14	X	X	X	X	2.49	2.08	1.84	1.66	2.67	2.23	1.98	1.78	1.94	1.61	1.43	1.29
22-22P	4		X	X		2.58	2.15	1.91	1.72	2.76	2.30	2.04	1.84	2.01	1.68	1.49	1.34
22-22S	4		X	X		3.15	2.63	2.33	2.10	3.33	2.78	2.46	2.22	2.60	2.16	1.92	1.73
22-23P	8	X		X		2.33	1.94	1.72	1.55	2.51	2.09	1.85	1.67	1.77	1.48	1.31	1.18
22-23S	8	X		X		2.99	2.49	2.21	1.99	3.17	2.64	2.34	2.11	2.43	2.03	1.80	1.62
22-36P	8	X		X		10.34	8.61	7.65	6.89	10.52	8.76	7.78	7.01	9.77	8.14	7.23	6.51
22-36S	8	X		X		11.33	9.44	8.38	7.55	11.51	9.59	8.51	7.67	10.76	8.96	7.96	7.17
24-2P	7	X			X	2.43	2.03	1 80	1 62	2.64	2.20	1.95	1.76	1.85	1.54	1.37	1.23
24-2S	7	X			X	2.90	2.41	2.14	1.93	3.11	2.59	2.30	2.07	2.31	1.93	1.71	1.54
24-5P	16	X	X	X	X	2.66	2.21	1.96	1.77	2.87	2.39	2.12	1.91	2.09	1.74	1.54	1.39
24-5S	16	X	X	X	X	2.73	2.28	2.02	1.82	2.94	2.45	2.18	1.96	2.15	1.79	1.59	1.43
24-6P	8	X	X	X	X	2.49	2.08	1.84	1.66	2.70	2.25	2.00	1.80	1.92	1.60	1.42	1.28
24-6S	8	X	X	X	X	3.26	2.71	2.41	2.17	3.47	2.89	2.56	2.31	2.67	2.23	1.98	1.78
24-7P	16	X	X	X	X	2.46	2.05	1.82	1.64	2.67	2.23	1.98	1.78	1.88	1.56	1.39	1.25
24-7S	16	X	X	X	X	2.85	2.38	2.11	1.90	3.08	2.56	2.28	2.05	2.28	1.90	1.69	1.52
24-10P	7	X			X	3.50	2.91	2.59	2.33	3.72	3.10	2.75	2.48	2.93	2.44	2.16	1.95
24-10S	7	X			X	4.71	3.93	3.49	3.14	4.92	4.10	3.64	3.28	4.13	3.44	3.05	2.75
24-11P	9	X	X	X	X	3.08	2.56	2.28	2.05	3.29	2.74	2.43	2.19	2.49	2.08	1.84	1.66
24-11S	9	X	X	X	X	3.83	3.19	2.83	2.55	4.05	3.38	3.00	2.70	3.26	2.71	2.41	2.17
24-12P	5	X	X	X	X	3.09	2.58	2.29	2.06	3.30	2.75	2.44	2.20	2.51	2.09	1.85	1.67
24-12S	5	X	X	X	X	3.75	3.13	2.78	2.50	3.96	3.30	2.93	2.64	3.17	2.64	2.34	2.11
24-20P	11	X	X	X	X	2.46	2.05	1.82	1.64	2.67	2.23	1.98	1.78	1.88	1.56	1.39	1.25
24-20S	11	X	X	X	X	2.52	2.10	1.86	1.68	2.75	2.29	2.03	1.83	1.95	1.63	1.44	1.30
24-27P	7	X			X	2.24	1.86	1.65	1.49	2.45	2.04	1.81	1.63	1.65	1.38	1.22	1.10
24-27S	7	X			X	2.31	1.93	1.71	1.54	2.52	2.10	1.86	1.68	1.75	1.45	1.29	1.16
24-28P	24	X	X	X	X	2.66	2.21	1.96	1.77	2.87	2.39	2.12	1.91	2.09	1.74	1.54	1.39
24-28S	24	X	X	X	X	3.14	2.61	2.32	2.09	3.35	2.79	2.48	2.23	2.57	2.14	1.90	1.71
28-2P	14	X	X	X	X	2.66	2.21	1.96	1.77	3.06	2.55	2.26	2.04	1.91	1.59	1.41	1.27
28-2S	14	X	X	X	X	2.94	2.45	2.18	1.96	3.33	2.78	2.46	2.22	2.18	1.81	1.61	1.45
28-9P	12	X	X	X	X	2.84	2.36	2.10	1.89	3.24	2.70	2.40	2.16	2.09	1.74	1.54	1.39
28-9S	12	X	X	X	X	3.18	2.65	2.35	2.12	3.59	2.99	2.65	2.39	2.43	2.03	1.80	1.62

See Page 252 For Cable Clamps and Accessories

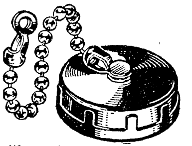
. . . and Mating Plugs

HOW TO ORDER. Specify Stock No. (47 D 7000 C), then connector Type No. Example: 47 D 7000 C (stock no.)—3106A-20-9S (type no.)

Shell Style Insert	Series 3106A EACH				Series 3106B EACH				Series 3108A EACH				Series 3108B EACH			
	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999	1-9	10-49	50-99	100-999
20-9S	2.49	2.08	1.84	1.66	2.73	2.28	2.02	1.82	4.25	3.54	3.14	2.83	2.81	2.34	2.08	1.87
20-9P	2.25	1.88	1.67	1.50	2.48	2.06	1.83	1.65	3.99	3.33	2.95	2.66	2.57	2.14	1.90	1.71
20-14S	2.93	2.44	2.16	1.95	3.15	2.63	2.33	2.10	4.67	3.89	3.45	3.11	3.24	2.70	2.40	2.16
20-14P	2.33	1.94	1.72	1.55	2.57	2.14	1.90	1.71	4.08	3.40	3.02	2.72	2.64	2.20	1.95	1.76
20-15S	2.82	2.35	2.09	1.88	3.06	2.55	2.26	2.04	4.58	3.81	3.39	3.05	3.14	2.61	2.32	2.09
20-15P	2.09	1.74	1.54	1.39	2.31	1.93	1.71	1.54	3.83	3.19	2.83	2.55	2.40	2.00	1.78	1.60
20-16S	2.40	2.00	1.78	1.60	2.63	2.19	1.94	1.75	4.14	3.45	3.06	2.76	2.70	2.25	2.00	1.80
20-16P	2.04	1.70	1.51	1.36	2.28	1.90	1.69	1.52	3.80	3.16	2.81	2.53	2.36	1.96	1.74	1.57
20-17S	2.52	2.10	1.86	1.68	2.76	2.30	2.04	1.84	......	......	......	......	......	......	......	......
20-17P	2.25	1.88	1.67	1.50	2.48	2.06	1.83	1.65	......	......	......	......	......	......	......	......
20-18S	2.49	2.08	1.84	1.66	2.73	2.28	2.02	1.82	4.25	3.54	3.14	2.83	2.81	2.34	2.08	1.87
20-18P	2.28	1.90	1.69	1.52	2.51	2.09	1.85	1.67	4.02	3.35	2.97	2.69	2.60	2.16	1.92	1.73
20-21S	2.31	1.93	1.71	1.54	2.54	2.11	1.88	1.69	......	......	......	......	......	......	......	......
20-21P	2.10	1.75	1.55	1.40	2.33	1.94	1.72	1.55	......	......	......	......	......	......	......	......
20-22S	2.99	2.49	2.21	1.99	3.23	2.69	2.39	2.15	......	......	......	......	......	......	......	......
20-22P	2.57	2.14	1.90	1.71	2.79	2.33	2.06	1.86	......	......	......	......	......	......	......	......
20-23S	2.48	2.06	1.83	1.65	2.70	2.25	2.00	1.80	4.23	3.53	3.13	2.82	2.79	2.33	2.06	1.86
20-23P	2.12	1.76	1.57	1.41	2.34	1.95	1.73	1.56	3.86	3.21	2.85	2.57	2.43	2.03	1.80	1.62
20-24S	2.63	2.19	1.94	1.75	2.85	2.38	2.11	1.90	......	......	......	......	......	......	......	......
20-24P	2.25	1.88	1.67	1.50	2.48	2.06	1.83	1.65	......	......	......	......	......	......	......	......
20-27S	2.48	2.06	1.83	1.65	2.70	2.25	2.00	1.80	4.23	3.53	3.13	2.82	2.79	2.33	2.06	1.86
20-27P	2.13	1.78	1.58	1.42	2.36	1.96	1.74	1.57	3.89	3.24	2.87	2.59	2.45	2.04	1.81	1.63
20-29S	2.69	2.24	1.99	1.79	2.93	2.44	2.16	1.95	4.44	3.70	3.29	2.96	3.00	2.50	2.22	2.00
20-29P	2.28	1.90	1.69	1.52	2.51	2.09	1.85	1.67	4.02	3.35	2.97	2.68	2.60	2.16	1.92	1.73
20-33S	2.49	2.08	1.84	1.66	2.73	2.28	2.02	1.82	4.25	3.54	3.14	2.83	2.81	2.34	2.08	1.87
20-33P	2.30	1.91	1.70	1.53	2.52	2.10	1.86	1.68	4.05	3.38	3.00	2.70	2.61	2.18	1.93	1.74
22-2S	2.97	2.48	2.20	1.98	3.24	2.70	2.40	2.16	4.65	3.88	3.44	3.10	3.14	2.61	2.32	2.09
22-2P	2.54	2.11	1.88	1.69	2.81	2.34	2.08	1.87	4.23	3.53	3.13	2.82	2.70	2.25	2.00	1.80
22-4S	3.18	2.65	2.35	2.12	3.45	2.88	2.55	2.30	4.88	4.06	3.61	3.25	3.35	2.79	2.48	2.23
22-4P	2.58	2.15	1.91	1.72	2.84	2.36	2.10	1.89	4.26	3.55	3.15	2.84	2.75	2.29	2.03	1.83
22-5S	2.85	2.38	2.11	1.90	3.12	2.60	2.31	2.08	4.55	3.79	3.36	3.03	3.02	2.51	2.23	2.01
22-5P	2.34	1.95	1.73	1.56	2.61	2.18	1.93	1.74	4.02	3.35	2.97	2.68	2.51	2.09	1.85	1.67
22-9S	2.63	2.19	1.94	1.75	2.90	2.41	2.14	1.93	......	......	......	......	......	......	......	......
22-9P	2.16	1.80	1.60	1.44	2.43	2.03	1.80	1.62	......	......	......	......	......	......	......	......
22-10S	2.31	1.93	1.71	1.54	2.58	2.15	1.91	1.72	......	......	......	......	......	......	......	......
22-10P	2.12	1.76	1.57	1.41	2.37	1.98	1.75	1.58	......	......	......	......	......	......	......	......
22-11S	2.21	1.84	1.63	1.47	2.48	2.06	1.83	1.65	3.90	3.25	2.89	2.60	2.37	1.98	1.75	1.58
22-11P	1.98	1.65	1.47	1.32	2.25	1.88	1.67	1.50	3.66	3.05	2.71	2.44	2.15	1.79	1.59	1.43
22-12S	3.15	2.63	2.33	2.10	3.42	2.85	2.53	2.28	4.83	4.03	3.57	3.22	3.32	2.76	2.45	2.21
22-12P	2.57	2.14	1.90	1.71	2.82	2.35	2.09	1.88	4.25	3.54	3.14	2.83	2.73	2.28	2.02	1.82
22-14S	2.99	2.49	2.21	1.99	3.26	2.71	2.41	2.17	4.67	3.89	3.45	3.11	3.15	2.63	2.33	2.10
22-14P	2.57	2.14	1.90	1.71	2.82	2.35	2.09	1.88	4.25	3.54	3.14	2.83	2.73	2.28	2.02	1.82
22-15S	2.99	2.49	2.21	1.99	3.26	2.71	2.41	2.17	......	......	......	......	......	......	......	......
22-15P	2.58	2.15	1.91	1.72	2.84	2.36	2.10	1.89	......	......	......	......	......	......	......	......
22-17S	2.79	2.33	2.06	1.86	3.06	2.55	2.26	2.04	4.47	3.73	3.31	2.98	2.96	2.46	2.19	1.97
22-17P	2.40	2.00	1.78	1.60	2.66	2.21	1.96	1.77	4.08	3.40	3.02	2.72	2.57	2.14	1.90	1.71
22-18S	2.42	2.01	1.79	1.61	2.67	2.23	1.98	1.78	4.10	3.41	3.03	2.73	2.58	2.15	1.91	1.72
22-18P	2.25	1.88	1.67	1.50	2.51	2.09	1.85	1.67	3.93	3.28	2.91	2.62	2.42	2.01	1.79	1.61
22-19S	2.85	2.38	2.11	1.90	3.12	2.60	2.31	2.08	4.55	3.79	3.36	3.03	3.02	2.51	2.23	2.01
22-19P	2.87	2.39	2.12	1.91	3.14	2.61	2.32	2.09	4.56	3.80	3.37	3.04	3.03	2.53	2.24	2.02
22-22S	3.51	2.93	2.60	2.34	3.78	3.15	2.80	2.52	5.21	4.34	3.85	3.47	3.68	3.06	2.72	2.45
22-22P	2.94	2.45	2.18	1.96	3.20	2.66	2.36	2.13	4.62	3.85	3.42	3.08	3.11	2.59	2.30	2.07
22-23S	3.35	2.79	2.48	2.23	3.62	3.01	2.68	2.41	5.04	4.20	3.73	3.36	3.51	2.93	2.60	2.34
22-23P	2.69	2.24	1.99	1.79	2.96	2.46	2.19	1.97	4.38	3.65	3.24	2.92	2.85	2.38	2.11	1.90
22-36S	11.69	9.74	8.65	7.79	11.94	9.95	8.84	7.96	13.37	11.14	9.89	8.91	11.85	9.88	8.77	7.90
22-36P	10.70	8.91	7.91	7.13	10.95	9.13	8.10	7.30	12.38	10.31	9.16	8.25	10.86	9.05	8.04	7.24
24-2S	3.27	2.73	2.42	2.18	3.51	2.93	2.60	2.34	5.33	4.44	3.94	3.55	3.36	2.80	2.49	2.24
24-2P	2.81	2.34	2.08	1.87	3.06	2.55	2.26	2.04	4.88	4.06	3.61	3.25	2.91	2.43	2.15	1.94
24-5S	3.11	2.59	2.30	2.07	3.35	2.79	2.48	2.23	5.16	4.30	3.82	3.44	3.20	2.66	2.36	2.13
24-5P	3.03	2.53	2.24	2.02	3.29	2.74	2.43	2.19	5.10	4.25	3.77	3.40	3.14	2.61	2.32	2.09
24-6S	3.63	3.03	2.69	2.42	3.89	3.24	2.87	2.59	......	......	......	......	......	......	......	......
24-6P	2.87	2.39	2.12	1.91	3.12	2.60	2.31	2.08	......	......	......	......	......	......	......	......
24-7S	3.24	2.70	2.40	2.16	3.48	2.90	2.58	2.32	5.30	4.41	3.92	3.53	3.33	2.78	2.46	2.22
24-7P	2.84	2.36	2.10	1.89	3.09	2.58	2.29	2.06	4.91	4.09	3.63	3.27	2.94	2.45	2.18	1.96
24-10S	5.09	4.24	3.76	3.39	5.33	4.44	3.94	3.55	7.14	5.95	5.28	4.76	5.18	4.31	3.83	3.45
24-10P	3.89	3.24	2.87	2.59	4.13	3.44	3.05	2.75	5.94	4.95	4.40	3.96	3.98	3.31	2.94	2.65
24-11S	4.22	3.51	3.12	2.81	4.46	3.71	3.30	2.97	6.27	5.23	4.64	4.18	4.31	3.59	3.19	2.87
24-11P	3.45	2.88	2.55	2.30	3.69	3.08	2.73	2.46	5.51	4.59	4.07	3.67	3.56	2.96	2.63	2.37
24-12S	4.13	3.44	3.05	2.75	4.38	3.65	3.24	2.92	6.20	5.16	4.58	4.13	4.23	3.53	3.13	2.82
24-12P	3.47	2.89	2.56	2.31	3.72	3.10	2.75	2.48	5.54	4.61	4.10	3.69	3.57	2.98	2.64	2.38
24-20S	2.91	2.43	2.15	1.94	3.15	2.63	2.33	2.10	4.97	4.14	3.67	3.31	3.00	2.50	2.22	2.00
24-20P	2.84	2.36	2.10	1.89	3.09	2.58	2.29	2.06	4.91	4.09	3.63	3.27	2.94	2.45	2.18	1.96
24-27S	2.69	2.24	1.99	1.79	2.94	2.45	2.18	1.96	4.76	3.96	3.52	3.17	2.79	2.33	2.06	1.86
24-27P	2.61	2.18	1.93	1.74	2.85	2.38	2.11	1.90	4.67	3.89	3.45	3.11	2.70	2.25	2.00	1.80
24-28S	3.51	2.93	2.60	2.34	3.77	3.14	2.79	2.51	5.58	4.65	4.13	3.72	3.62	3.01	2.68	2.41
24-28P	3.03	2.53	2.24	2.02	3.29	2.74	2.43	2.19	5.10	4.25	3.77	3.40	3.14	2.61	2.32	2.09
28-2S	3.50	2.91	2.59	2.33	3.50	2.91	2.59	2.33	5.48	4.56	4.05	3.65	3.44	2.86	2.54	2.29
28-2P	3.23	2.69	2.39	2.15	3.23	2.69	2.39	2.15	5.21	4.34	3.85	3.47	3.15	2.63	2.33	2.10
28-9S	3.75	3.13	2.78	2.50	3.75	3.13	2.78	2.50	5.73	4.78	4.24	3.82	3.68	3.06	2.72	2.45
28-9P	3.41	2.84	2.52	2.27	3.41	2.84	2.52	2.27	5.39	4.49	3.98	3.59	3.33	2.78	2.46	2.22

The Above Connectors Are Illustrated on Page 249

Amphenol MS Connectors and Accessories



DUST CAPS

Threaded for all Amphenol receptacles listed.

MS Type	Fits Shell
9760-12	10S, 10SL
9760-12	12, 12S, 12SL
9760-14	14, 14S
9760-16	16, 16S
9760-18	18
9760-20	20
9760-22	22
9760-24	24
9760-28	28
9760-32	32
9760-36	36

PRICE EACH

Type 9760	1-49	50-99	100-999
-10	.50	.41	.33
-12	.56	.46	.37
-14	.60	.50	.40
-16	.66	.55	.44
-18	.78	.65	.52
-20	.86	.71	.57
-22	.98	.81	.75
-24	1.14	.95	.76
-28	1.37	1.14	.91
-32	1.59	1.32	1.06
-36	1.76	1.46	1.17

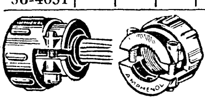
HOW TO ORDER. Specify Stock No. (47 D 7000 C then connector Type No.
Example: 47 D 7000 C (stock no.)—3100A-28-11P (type no.)

MS RECEPTACLES

Shell Insert	Position W	X	Y	Z	Series 3100A EACH 1-9	10-49	50-99	100-999	Series 3101A EACH 1-9	10-49	50-99	100-999	Series 3102A EACH 1-9	10-49	50-99	100-999
28-11P	X	X	X	X	3.08	2.56	2.28	2.05	3.47	2.89	2.56	2.31	2.31	1.93	1.71	1.54
28-11S	X	X	X	X	3.63	3.03	2.69	2.42	4.02	3.35	2.97	2.68	2.87	2.39	2.12	1.91
28-12P	X	X	X		3.11	2.59	2.30	2.07	3.50	2.91	2.59	2.33	2.34	1.95	1.73	1.56
28-12S	X	X	X		3.69	3.08	2.73	2.46	4.10	3.41	3.03	2.73	2.94	2.45	2.18	1.96
28-15P	X	X	X	X	3.60	3.00	2.66	2.40	3.99	3.33	2.95	2.66	2.84	2.36	2.10	1.89
28-15S	X	X	X	X	4.14	3.45	3.06	2.76	4.55	3.79	3.36	3.03	3.39	2.83	2.51	2.26
28-16P	X	X	X	X	3.23	2.69	2.39	2.15	3.62	3.01	2.68	2.41	2.46	2.05	1.82	1.64
28-16S	X	X	X	X	3.48	2.90	2.58	2.32	3.89	3.24	2.87	2.59	2.73	2.28	2.02	1.82
28-17P	X	X	X	X	2.63	2.19	1.94	1.75	3.02	2.51	2.23	2.01	1.86	1.55	1.38	1.24
28-17S	X	X	X	X	3.20	2.66	2.36	2.13	3.60	3.00	2.66	2.40	2.45	2.04	1.81	1.63
28-18P	X	X	X	X	2.99	2.49	2.21	1.99	3.39	2.83	2.51	2.26	2.24	1.86	1.65	1.49
28-18S	X	X	X	X	3.24	2.70	2.40	2.16	3.63	3.03	2.69	2.42	2.48	2.06	1.83	1.65
28-20P	X	X	X	X	3.20	2.66	2.36	2.13	3.60	3.00	2.66	2.40	2.45	2.04	1.81	1.63
28-20S	X	X	X	X	3.51	2.93	2.60	2.34	3.92	3.26	2.90	2.61	2.76	2.30	2.04	1.84
28-21P	X	X	X	X	3.63	3.03	2.69	2.42	4.02	3.35	2.97	2.68	2.87	2.39	2.12	1.91
28-21S	X	X	X	X	4.28	3.56	3.16	2.85	4.67	3.89	3.45	3.11	3.51	2.93	2.60	2.34
32-7P	X	X	X	X	4.67	3.89	3.45	3.11	4.83	4.03	3.57	3.22	3.60	3.00	2.66	2.40
32-7S	X	X	X	X	5.37	4.48	3.97	3.58	5.54	4.61	4.10	3.69	4.29	3.58	3.17	2.86
32-13P	X	X	X	X	3.77	3.14	2.79	2.51	3.93	3.28	2.91	2.62	2.69	2.24	1.99	1.79
32-13S	X	X	X	X	4.25	3.54	3.14	2.83	4.41	3.68	3.26	2.94	3.17	2.64	2.34	2.11
36-7P	X	X	X	X	5.94	4.95	4.40	3.96	6.24	5.20	4.62	4.16	4.55	3.79	3.36	3.03
36-7S	X	X	X	X	6.59	5.49	4.87	4.39	6.89	5.74	5.09	4.59	5.18	4.31	3.83	3.45
36-10P	X	X	X	X	5.45	4.54	4.03	3.63	5.75	4.79	4.25	3.83	4.05	3.38	3.00	2.70
36-10S	X	X	X	X	6.21	5.18	4.60	4.14	6.50	5.41	4.81	4.33	4.80	4.00	3.55	3.20
36-405P					8.72	7.26	6.45	5.81	9.02	7.51	6.67	6.01	7.31	6.09	5.41	4.87
36-405S					11.01	9.18	8.15	7.34	11.31	9.43	8.37	7.54	9.60	8.00	7.10	6.40

MS MATING PLUGS

Shell Insert	Position W	X	Y	Z	Series 3106A EACH 1-9	10-49	50-99	100-999	Series 3106B EACH 1-9	10-49	50-99	100-999	Series 3108A EACH 1-9	10-49	50-99	100-999	Series 3108B EACH 1-9	10-49	50-99	100-999
28-11S	X	X	X	X	4.19	3.49	3.10	2.79	4.19	3.49	3.10	2.79	6.17	5.14	4.56	4.11	4.13	3.44	3.05	2.75
28-11P	X	X	X	X	3.63	3.03	2.69	2.42	3.63	3.03	2.69	2.43	5.61	4.68	4.15	3.74	3.57	2.98	2.64	2.38
28-12S	X	X	X		4.26	3.55	3.15	2.84	4.26	3.55	3.15	2.84	6.24	5.20	4.62	4.16	4.19	3.49	3.10	2.79
28-12P	X	X	X		3.66	3.05	2.71	2.44	3.66	3.05	2.71	2.44	5.64	4.70	4.17	3.76	3.60	3.00	2.66	2.40
28-15S	X	X	X	X	4.71	3.93	3.49	3.14	4.71	3.93	3.49	3.14	6.69	5.58	4.95	4.46	4.64	3.86	3.43	3.09
28-15P	X	X	X	X	4.16	3.46	3.07	2.77	4.16	3.46	3.07	2.77	6.14	5.11	4.54	4.09	4.10	3.41	3.03	2.73
28-16S	X	X	X	X	4.05	3.38	3.00	2.70	4.05	3.38	3.00	2.70	6.03	5.03	4.46	4.02	3.98	3.31	2.94	2.65
28-16P	X	X	X	X	3.78	3.15	2.80	2.52	3.78	3.15	2.80	2.52	5.76	4.80	4.26	3.84	3.72	3.10	2.75	2.48
28-17S	X	X	X	X	3.77	3.14	2.79	2.51	3.77	3.14	2.79	2.51	5.75	4.79	4.25	3.83	3.69	3.08	2.73	2.46
28-17P	X	X	X	X	3.18	2.65	2.35	2.12	3.18	2.65	2.35	2.12	5.16	4.30	3.82	3.44	3.12	2.60	2.31	2.08
28-18S	X	X	X	X	3.80	3.16	2.81	2.53	3.80	3.16	2.81	2.53	5.78	4.81	4.27	3.85	3.74	3.11	2.76	2.49
28-18P	X	X	X	X	3.56	2.96	2.63	2.37	3.56	2.96	2.63	2.37	5.54	4.61	4.10	3.69	3.48	2.90	2.58	2.32
28-20S	X	X	X	X	4.08	3.40	3.02	2.72	4.08	3.40	3.02	2.72	6.06	5.05	4.48	4.04	4.01	3.34	2.96	2.67
28-20P	X	X	X	X	3.77	3.14	2.79	2.51	3.77	3.14	2.79	2.51	5.75	4.79	4.25	3.83	3.69	3.08	2.73	2.46
28-21S	X	X	X	X	4.83	4.03	3.57	3.22	4.83	4.03	3.57	3.22	6.81	5.68	5.04	4.54	4.77	3.98	3.53	3.18
28-21P	X	X	X	X	4.19	3.49	3.10	2.79	4.19	3.49	3.10	2.79	6.17	5.14	4.56	4.11	4.13	3.44	3.05	2.75
32-7S	X	X	X	X	6.06	5.05	4.48	4.04	6.00	5.00	4.44	4.00	8.67	7.23	6.42	5.78	6.23	5.19	4.61	4.15
32-7P	X	X	X	X	5.37	4.48	3.97	3.58	5.31	4.43	3.93	3.54	7.97	6.64	5.89	5.31	5.54	4.61	4.10	3.69
32-13S	X	X	X	X	4.94	4.11	3.65	3.29	4.89	4.08	3.62	3.26	7.55	6.29	5.58	5.03	5.10	4.25	3.77	3.40
32-13P	X	X	X	X	4.46	3.71	3.30	2.97	4.41	3.68	3.26	2.94	7.07	5.89	5.23	4.71	4.62	3.85	3.42	3.08
36-7S	X	X	X	X	8.91	7.43	6.59	5.94	6.99	5.83	5.17	4.66	10.05	8.38	7.44	6.70	7.32	6.10	5.42	4.88
36-7P	X	X	X	X	8.27	6.89	6.12	5.51	6.36	5.30	4.71	4.24	9.41	7.84	6.96	6.27	6.69	5.58	4.95	4.46
36-10S	X	X	X	X	8.54	7.11	6.32	5.69	6.62	5.51	4.90	4.41	9.68	8.06	7.16	6.45	6.95	5.79	5.14	4.63
36-10P	X	X	X	X	7.77	6.48	5.75	5.18	5.87	4.89	4.34	3.91	8.91	7.43	6.59	5.94	6.20	5.16	4.58	4.13
36-405S					13.34	11.11	9.87	8.98	11.42	9.51	8.45	7.61	.....	.....	.....	.....	.....	.....	.....	.....
36-405P					11.04	9.20	8.17	7.36	9.12	7.60	6.75	6.08	.....	.....	.....	.....	.....	.....	.....	.....



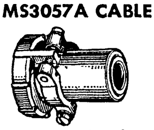
Stepdown   Regular

CABLE CLAMP

Series 3057. Supports cable at plug or receptacle. Aluminum. *Stepdown type.

MS Type	Fits Shell	EACH 1-49	50-99	100-999
3057-3	8S, 10S	.56	.46	.37
3057-4	10SL,12,12S	.57	.48	.38
3057-6	12SL,14,14S	.57	.48	.38
3057-8	16, 16S	.59	.49	.39
3057-10	18	.71	.59	.47
97-3057-10-6*	18	.77	.64	.51
3057-12	20, 22	.75	.63	.50
97-3057-12-6*	20, 22	.81	.68	.54
3057-16	24, 28	.92	.76	.61
3057-20	32	1.13	.94	.75
3057-24	36	1.56	1.20	1.04
3057-28	40	1.94	1.61	1.29

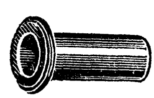
MS3057A CABLE CLAMP AND BOOT



Both cable halves move, automatically centering cable. AN3420 boot for support and weatherproofing connector. Extra boots may be used for small cable O.D.

MS Type	Fits Shell	EACH 1-9	10-49	50-99	100-999
3057-4A	10SL, 12, 12S	.69	.62	.55	.45
3057-6A	12SL, 14, 14S	.69	.62	.55	.45
3057-8A	16, 16S	.72	.63	.56	.46
3057-10A	18	.79	.69	.62	.52
3057-12A	20, 22	.87	.77	.68	.56
3057-16A	24, 28	1.18	1.02	.92	.76
3057-20A	32	1.39	1.21	1.07	.89
3057-24A	36	1.79	1.46	1.29	1.15

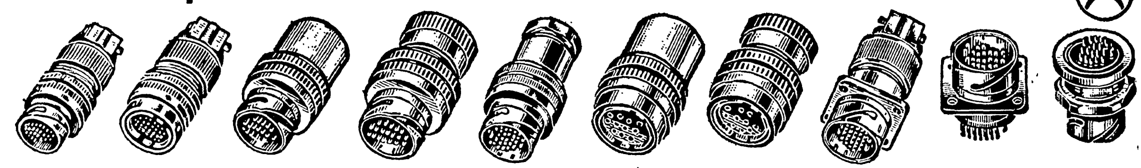
AN3420 TELESCOPING BOOTS



Boots telescope within each other for use with cable that is too small in relation to the MS connector used. Weatherproof ends.

Type No.	Cable O. D.	EACH 1-9	10-49	50-99	100-999
9779-513-3	0.130	.09	.08	.07	.06
9779-513-4	0.220	.09	.08	.07	.06
9779-513-6	0.312	.10	.09	.08	.07
9779-513-8	0.437	.12	.09	.08	.07
9779-513-10	0.562	.15	.12	.11	.10
9779-513-12	0.625	.15	.12	.11	.10
9779-513-16	0.750	.19	.15	.14	.12
9779-513-20	0.937	.28	.23	.20	.18
9779-513-24	1.250	.34	.27	.24	.22

Amphenol 67 Series MinniE® Connectors



67-01C 67-06C 67-01P 67-01E 67-06J 67-06P 67-06E 67-00C 67-02E 67-03E

Miniature bayonet quick-disconnect connectors. Three bayonet pins prevent wobble. Stainless-steel inclined spring-loaded slots. E, P, and H types meet E specs of MIL-C-5015. E and P not derated at 70,000 ft. X and W alternate positions available except hermetics. No. 20 contacts 7.5 amps; No. 16, 17.0 amps. All 500 VRMS at sea level except 14-5, Series, 600 V. See next page for positions.

How to Order: Specify Stock No., then Connector Type No. Example; 47 D 7000 C (Stock No.)—67-00C12-7P (Type No.)

Function—Second Digit of Type	Shell—First Letter of Type
00—Panel Jack	C—With Clamp For Wire Bundle
01—Cable Receptacle	E—Environmental
02—Panel Receptacle	H—Hermetically Sealed
03—One Hole Receptacle, Rear Mtd.	J—Jacketed Cable, Waterproof Clamp
04—One Hole Receptacle, Front Mtd.	
06—Cable Plug	P—Potting, Includes Potting Form

SIZE 12

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
00C12-7P		7		9.06	7.93	6.80
00C12-7S		7		10.54	9.22	7.91
00E12-7P		7		9.68	8.47	7.26
00E12-7S		7		11.16	9.77	8.37
00P12-7P		7		7.62	6.67	5.72
00P12-7S		7		9.10	7.96	6.83
01C12-7P		7		9.00	7.88	6.75
01C12-7S		7		10.48	9.17	7.86
01E12-7P		7		9.62	8.42	7.22
01E12-7S		7		11.10	9.71	8.33
01P12-7P		7		7.56	6.62	5.67
01P12-7S		7		9.04	7.91	6.78
02E12-7P		7		5.54	4.85	4.16
02E12-7S		7		7.02	6.14	5.27
03E12-7P		7		6.30	5.51	4.73
03E12-7S		7		7.78	6.81	5.84
06C12-7P		7		8.56	7.49	6.42
06C12-7S		7		10.06	8.80	7.55
06E12-7P		7		9.18	8.03	6.89
06E12-7S		7		10.68	9.35	8.01
06J12-7P		7		7.32	6.41	5.49
06J12-7S		7		8.14	7.12	6.11
06P12-7P		7		7.12	6.23	5.34
06P12-7S		7		8.62	7.54	6.47
00C12-60P	3			8.96	7.84	6.72
00C12-60S	3			9.78	8.56	7.34
00E12-60P	3			9.68	8.47	7.26
00E12-60S	3			10.50	9.19	7.88
00P12-60P	3			7.52	6.58	5.64
00P12-60S	3			8.34	7.30	6.26
01C12-60P	3			8.90	7.79	6.68
01C12-60S	3			9.72	8.51	7.29
01E12-60P	3			9.62	8.42	7.22
01E12-60S	3			10.44	9.14	7.83
01P12-60P	3			7.46	6.53	5.60
01P12-60S	3			8.28	7.25	6.21
02E12-60P	3			5.42	4.74	4.07
02E12-60S	3			6.30	5.51	4.73
03E12-60P	3			6.18	5.41	4.64
03E12-60S	3			13.24	11.59	9.93
06C12-60P	3			8.46	7.40	6.35
06C12-60S	3			9.30	8.14	6.98
06E12-60P	3			9.18	8.03	6.89
06E12-60S	3			10.02	8.77	7.52
06J12-60P	3			7.32	6.41	5.49
06J12-60S	3			8.14	7.12	6.11
06P12-60P	3			7.02	6.14	5.27
06P12-60S	3			7.84	6.86	5.88

SIZE 14

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
00C14-5P		5		9.12	7.98	6.84
00C14-5S		5		10.00	8.75	7.50
00E14-5P		5		9.18	8.03	6.89
00E14-5S		5		10.06	8.80	7.55
00P14-5P		5		6.94	6.07	5.21
00P14-5S		5		7.80	6.83	5.85
01C14-5P		5		8.36	7.32	6.27
01C14-5S		5		9.22	8.07	6.92
01E14-5P		5		8.42	7.37	6.32
01E14-5S		5		9.30	8.14	6.98
01P14-5P		5		6.18	5.41	4.64
01P14-5S		5		7.04	6.16	5.28
02E14-5P		5		4.88	4.27	3.66
02E14-5S		5		5.74	5.02	4.31
03E14-5P		5		5.40	4.73	4.05
03E14-5S		5		6.26	5.48	4.70
06C14-5P		5		8.16	7.14	6.12
06C14-5S		5		9.02	7.89	6.77
06E14-5P		5		8.22	7.19	6.17
06E14-5S		5		9.08	7.95	6.81
06J14-5P		5		8.52	7.46	6.39

SIZE 14 (Cont'd)

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
06J14-5S		5		9.40	8.23	7.05
06P14-5P		5		5.98	5.23	4.49
06P14-5S		5		6.84	5.99	5.13
00C14-9P		9		9.52	8.33	7.14
00C14-9S		9		10.72	9.38	8.04
00E14-9P		9		9.90	8.66	7.43
00E14-9S		9		11.10	9.71	8.33
00P14-9P		9		7.34	6.42	5.51
00P14-9S		9		8.52	7.46	6.39
01C14-9P		9		8.76	7.67	6.57
01C14-9S		9		9.94	8.70	7.46
01E14-9P		9		8.82	7.72	6.62
01E14-9S		9		10.02	8.77	7.52
01P14-9P		9		6.58	5.76	4.94
01P14-9S		9		7.76	6.79	5.82
02E14-9P		9		5.30	4.64	3.98
02E14-9S		9		6.48	5.67	4.86
03E14-9P		9		5.80	5.08	4.35
03E14-9S		9		7.00	6.13	5.25
06C14-9P		9		8.54	7.47	6.41
06C14-9S		9		9.74	8.52	7.31
06E14-9P		9		8.94	7.82	6.71
06E14-9S		9		10.14	8.87	7.61
06J14-9P		9		8.92	7.81	6.69
06J14-9S		9		10.12	8.86	7.59
06P14-9P		9		6.36	5.57	4.77
06P14-9S		9		7.56	6.62	5.67
00C14-12P		12		9.60	8.40	7.20
00C14-12S		12		11.04	9.66	8.28
00E14-12P		12		9.46	8.28	7.10
00E14-12S		12		10.90	9.54	8.18
00P14-12P		12		7.42	6.49	5.57
00P14-12S		12		8.86	7.75	6.65
01C14-12P		12		8.84	7.74	6.63
01C14-12S		12		10.28	9.00	7.71
01E14-12P		12		8.70	7.61	6.53
01E14-12S		12		10.14	8.87	7.61
01P14-12P		12		6.66	5.83	5.00
01P14-12S		12		8.10	7.09	6.08
02E14-12P		12		5.34	4.67	4.01
02E14-12S		12		7.14	6.25	5.36
03E14-12P		12		5.86	5.13	4.40
03E14-12S		12		7.66	6.70	5.75
04H14-12P		12		22.34	19.55	16.76
04H14-12P (105)		12		12.14	10.62	9.11
06C14-12P		12		8.64	7.56	6.48
06C14-12S		12		10.08	8.82	7.56
06E14-12P		12		8.48	7.42	6.36
06E14-12S		12		9.92	8.68	7.44
06J14-12P		12		9.00	7.88	6.75
06J14-12S		12		10.44	9.14	7.83
06P14-12P		12		6.44	5.64	4.83
06P14-12S		12		7.88	6.90	5.91
00C14-61P		8	1	10.50	9.19	7.88
00C14-61S		8	1	14.12	12.36	10.59
00E14-61P		8	1	10.96	9.59	8.22
00E14-61S		8	1	14.56	12.74	10.92
00P14-61P		8	1	8.32	7.28	6.24
00P14-61S		8	1	11.92	10.43	8.94
01C14-61P		8	1	9.74	8.52	7.31
01C14-61S		8	1	13.34	11.67	10.01
01E14-61P		8	1	10.20	8.93	7.65
01E14-61S		8	1	13.80	12.08	10.35
01P14-61P		8	1	7.56	6.62	5.67
01P14-61S		8	1	11.16	9.77	8.37
02E14-61P		8	1	6.28	5.50	4.71
02E14-61S		8	1	9.90	8.66	7.43
03E14-61P		8	1	6.80	5.95	5.10
03E14-61S		8	1	10.42	9.12	7.82
06C14-61P		8	1	9.54	8.35	7.16

SIZE 14 (Cont'd)

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
06C14-61S		8	1	13.14	11.50	9.86
06E14-61P		8	1	10.00	8.75	7.50
06E14-61S		8	1	13.60	11.90	10.20
06J14-61P		8	1	9.90	8.66	7.43
06J14-61S		8	1	13.52	11.83	10.14
06P14-61P		8	1	7.36	6.44	5.52
06P14-61S		8	1	10.96	9.59	8.22
00C14-63P	5			9.70	8.49	7.28
00C14-63S	5			10.96	9.59	8.22
00E14-63P	5			9.86	8.63	7.40
00E14-63S	5			11.12	9.73	8.34
00P14-63P	5			7.52	6.58	5.64
00P14-63S	5			8.78	7.68	6.59
01C14-63P	5			8.94	7.82	6.71
01C14-63S	5			10.20	8.93	7.65
01E14-63P	5			9.10	7.96	6.83
01E14-63S	5			10.36	9.07	7.77
01P14-63P	5			6.96	6.09	5.22
01P14-63S	5			8.00	7.00	6.00
02E14-63P	5			5.46	4.78	4.10
02E14-63S	5			6.72	5.88	5.04
03E14-63P	5			5.98	5.23	4.49
03E14-63S	5			7.24	6.34	5.43
06C14-63P	5			8.74	7.65	6.56
06C14-63S	5			10.00	8.75	7.50
06E14-63P	5			8.90	7.79	6.68
06E14-63S	5			10.16	8.89	7.62
06J14-63P	5			9.10	7.96	6.83
06J14-63S	5			10.36	9.07	7.77
06P14-63P	5			6.56	5.74	4.92
06P14-63S	5			8.02	7.02	6.02

SIZE 18

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
00C18-24P		24		10.08	8.82	7.56
00C18-24S		24		13.52	11.83	10.14
00E18-24P		24		11.10	9.71	8.33
00E18-24S		24		14.54	12.72	10.91
00P18-24P		24		8.18	7.16	6.14
00P18-24S		24		11.62	10.17	8.72
01C18-24P		24		9.36	8.19	7.02
01C18-24S		24		12.80	11.20	9.60
01E18-24P		24		10.38	9.08	7.79
01E18-24S		24		13.82	12.09	10.37
01P18-24P		24		7.46	6.53	5.60
01P18-24S		24		10.90	9.54	8.18
02E18-24P		24		6.60	5.78	4.95
02E18-24S		24		9.92	8.68	7.44
03E18-24P		24		7.16	6.27	5.37
03E18-24S		24		10.52	9.21	7.89
06C18-24P		24		9.36	8.19	7.02
06C18-24S		24		12.80	11.20	9.60
06E18-24P		24		10.38	9.08	7.79
06E18-24S		24		13.82	12.09	10.37
06J18-24P		24		8.14	7.12	6.11
06J18-24S		24		11.58	10.13	8.69
06P18-24P		24		7.46	6.53	5.60
06P18-24S		24		10.90	9.54	8.18
00C18-62P		19	1	11.38	9.96	8.54
00C18-62S		19	1	18.56	16.24	13.92
00E18-62P		19	1	13.20	11.55	9.90
00E18-62S		19	1	20.40	17.85	15.30
00P18-62P		19	1	9.48	8.30	7.11
00P18-62S		19	1	16.66	14.58	12.50
01C18-62P		19	1	10.66	9.33	8.00
01C18-62S		19	1	17.84	15.61	13.38
01E18-62P		19	1	12.48	10.92	9.36
01E18-62S		19	1	19.68	17.22	14.76
01P18-62P		19	1	8.76	7.67	6.57
01P18-62S		19	1	15.94	13.95	11.96
02E18-62P		19	1	7.46	6.53	5.60
02E18-62S		19	1	12.60	11.03	9.45
03E18-62P		19	1	8.04	7.04	6.03

Amphenol MinniE Connectors Continued on Next Page

Amphenol Series 67 MinniE Connectors

Be Sure to Specify Stock No. 47 D 7000 C. Then Add Connector Type Number.

SIZE 18 (Cont'd)

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
03E18-62S	...	19	1	13.18	11.53	9.89
06C18-62P	...	19	1	10.66	9.33	8.00
06C18-62S	...	19	1	17.84	15.61	13.38
06E18-62P	...	19	1	12.48	10.92	9.36
06E18-62S	...	19	1	19.68	17.22	14.76
06J18-62P	...	19	1	9.78	8.56	7.34
06J18-62S	...	19	1	16.98	14.86	12.74
06P18-62P	...	19	1	8.76	7.67	6.57
06P18-62S	...	19	1	15.94	13.95	11.96
00C18-64P	14	...	....	11.10	9.71	8.33
00C18-64S	14	...	....	12.08	10.57	9.06
00E18-64P	14	...	....	11.78	10.31	8.84
00E18-64S	14	...	....	12.76	11.17	9.57
00P18-64P	14	...	....	9.20	8.05	6.90
00P18-64S	14	...	....	10.18	8.91	7.64
01C18-64P	14	...	....	10.38	9.08	7.79
01C18-64S	14	...	....	11.36	9.94	8.52
01E18-64P	14	...	....	11.06	9.68	8.30
01E18-64S	14	...	....	12.04	10.54	9.03
01P18-64P	14	...	....	8.48	7.42	6.36
01P18-64S	14	...	....	9.46	8.28	7.10
02E18-64P	14	...	....	7.08	6.20	5.31
02E18-64S	14	...	....	8.12	7.11	6.09
03E18-64P	14	...	....	7.66	6.70	5.75
03E18-64S	14	...	....	8.70	7.61	6.53
06C18-64P	14	...	....	10.38	9.08	7.79
06C18-64S	14	...	....	11.36	9.94	8.52
06E18-64P	14	...	....	11.06	9.68	8.30
06E18-64S	14	...	....	12.04	10.54	9.03
06J18-64P	14	...	....	9.52	8.33	7.14
06J18-64S	14	...	....	10.48	9.17	7.86
06P18-64P	14	...	....	8.48	7.42	6.36
06P18-64S	14	...	....	9.46	8.28	7.10
00C18-65P	4	7	....	11.94	10.45	8.96
00C18-65S	4	7	....	11.38	9.96	8.54
00E18-65P	4	7	....	12.54	10.97	9.41
00E18-65S	4	7	....	11.96	10.47	8.97
00P18-65P	4	7	....	10.06	8.80	7.55
00P18-65S	4	7	....	9.48	8.30	7.11
01C18-65P	4	7	....	11.22	9.82	8.42
01C18-65S	4	7	....	10.66	9.33	8.00
01E18-65P	4	7	....	11.82	10.34	8.87
01E18-65S	4	7	....	11.24	9.84	8.43
01P18-65P	4	7	....	9.34	8.17	7.01
01P18-65S	4	7	....	8.76	7.67	6.57
02E18-65P	4	7	....	8.02	7.02	6.02
02E18-65S	4	7	....	7.44	6.51	5.58
03E18-65P	4	7	....	8.62	7.54	6.47
03E18-65S	4	7	....	8.02	7.02	6.02
06C18-65P	4	7	....	11.22	9.82	8.42
06C18-65S	4	7	....	10.66	9.33	8.00
06E18-65P	4	7	....	11.82	10.34	8.87
06E18-65S	4	7	....	11.24	9.84	8.43
06J18-65P	4	7	....	10.36	9.07	7.77
06J18-65S	4	7	....	9.78	8.56	7.34
06P18-65P	4	7	....	9.34	8.17	7.01
06P18-65S	4	7	....	8.76	7.67	6.57

SIZE 20

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
00C20-37P	...	37	....	14.24	12.46	10.68
00C20-37S	...	37	....	19.10	16.71	14.33
00E20-37P	...	37	....	14.60	12.78	10.95
00E20-37S	...	37	....	19.46	17.03	14.60
00P20-37P	...	37	....	12.14	10.62	9.11
00P20-37S	...	37	....	17.00	14.88	12.75
01C20-37P	...	37	....	15.46	13.53	11.60
01C20-37S	...	37	....	18.26	15.98	13.70
01E20-37P	...	37	....	13.76	12.04	10.32
01E20-37S	...	37	....	18.62	16.29	13.97
01P20-37P	...	37	....	11.28	9.87	8.46

SIZE 20 (Cont'd)

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
01P20-37S	...	37	....	16.22	14.19	12.17
02E20-37P	...	37	....	11.08	9.70	8.31
02E20-37S	...	37	....	14.58	12.76	10.94
03E20-37P	...	37	....	11.84	10.36	8.88
03E20-37S	...	37	....	15.38	13.46	11.54
06C20-37P	...	37	....	13.44	11.76	10.08
06C20-37S	...	37	....	18.30	16.01	13.73
06E20-37P	...	37	....	13.80	12.08	10.35
06E20-37S	...	37	....	18.66	16.33	14.00
06J20-37P	...	37	....	14.30	12.51	10.73
06J20-37S	...	37	....	19.16	16.77	14.37
06P20-37P	...	37	....	11.34	9.92	8.51
06P20-37S	...	37	....	16.20	14.18	12.15
00C20-66P	19	...	....	12.50	10.94	9.38
00C20-66S	19	...	....	15.68	13.72	11.76
00E20-66P	19	...	....	12.26	10.73	9.20
00E20-66S	19	...	....	15.42	13.49	11.57
00P20-66P	19	...	....	10.40	9.10	7.80
00P20-66S	19	...	....	13.58	11.88	10.19
01C20-66P	19	...	....	11.66	10.20	8.75
01C20-66S	19	...	....	14.84	12.99	11.13
01E20-66P	19	...	....	11.42	9.99	8.57
01E20-66S	19	...	....	14.58	12.76	10.94
01P20-66P	19	...	....	9.56	8.37	7.17
01P20-66S	19	...	....	12.74	11.15	9.56
02E20-66P	19	...	....	8.40	7.35	6.30
02E20-66S	19	...	....	7.98	6.98	5.99
03E20-66P	19	...	....	9.14	8.00	6.86
03E20-66S	19	...	....	12.34	10.80	9.26
06C20-66P	19	...	....	11.70	10.24	8.78
06C20-66S	19	...	....	14.88	13.02	11.16
06E20-66P	19	...	....	11.46	10.03	8.60
06E20-66S	19	...	....	14.62	12.79	10.97
06J20-66P	19	...	....	12.56	10.99	9.42
06J20-66S	19	...	....	15.74	13.77	11.81
06P20-66P	19	...	....	9.60	8.40	7.20
06P20-66S	19	...	....	12.78	11.18	9.59

SIZE 22

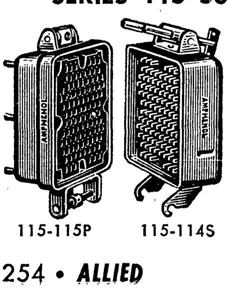
Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
00C22-48P	...	48	....	16.52	14.46	12.39
00C22-48S	...	48	....	22.62	19.79	16.97
00E22-48P	...	48	....	15.82	13.84	11.87
00E22-48S	...	48	....	21.92	19.18	16.44
00P22-48P	...	48	....	14.60	12.78	10.95
00P22-48S	...	48	....	20.70	18.11	15.53
01C22-48P	...	48	....	14.46	12.65	10.85
01C22-48S	...	48	....	20.56	17.99	15.42
01E22-48P	...	48	....	13.76	12.04	10.32
01E22-48S	...	48	....	19.86	17.38	14.90
01P22-48P	...	48	....	12.54	10.97	9.41
01P22-48S	...	48	....	18.64	16.31	13.98
02E22-48P	...	48	....	11.82	10.34	8.87
02E22-48S	...	48	....	17.66	15.45	13.25
03E22-48P	...	48	....	13.34	11.67	10.01
03E22-48S	...	48	....	19.18	16.78	14.39
06C22-48P	...	48	....	14.18	12.41	10.64
06C22-48S	...	48	....	20.24	17.71	15.18
06E22-48P	...	48	....	13.48	11.80	10.11
06E22-48S	...	48	....	19.58	17.13	14.69
06J22-48P	...	48	....	16.22	14.19	12.17
06J22-48S	...	48	....	22.30	19.51	16.73
06P22-48P	...	48	....	12.26	10.73	9.20
06P22-48S	...	48	....	18.36	16.07	13.77
00C22-67P	25	...	....	14.80	12.95	11.10
00C22-67S	25	...	....	19.02	16.64	14.27
00E22-67P	25	...	....	14.52	12.71	10.89
00E22-67S	25	...	....	18.74	16.40	14.06
00P22-67P	25	...	....	12.88	11.27	9.66
00P22-67S	25	...	....	17.10	14.96	12.83

SIZE 22 (Cont'd)

Type 67-	Contacts 16	Contacts 20	Contacts Coax	EACH 1-24	EACH 25-99	EACH 100-199
01C22-67P	25	...	....	12.74	11.15	9.56
01C22-67S	25	...	....	16.96	14.84	12.72
01E22-67P	25	...	....	12.46	10.90	9.35
01E22-67S	25	...	....	16.68	14.60	12.51
01P22-67P	25	...	....	10.82	9.47	8.12
01P22-67S	25	...	....	15.04	13.16	11.28
02E22-67P	25	...	....	9.78	8.56	7.34
02E22-67S	25	...	....	14.06	12.30	10.55
03E22-67P	25	...	....	11.34	9.92	8.51
03E22-67S	25	...	....	15.62	13.67	11.72
06C22-67P	25	...	....	12.44	10.89	9.33
06C22-67S	25	...	....	16.66	14.58	12.50
06E22-67P	25	...	....	12.18	10.66	9.14
06E22-67S	25	...	....	16.40	14.35	12.30
06J22-67P	25	...	....	14.48	12.67	10.86
06J22-67S	25	...	....	18.70	16.36	14.03
06P22-67P	25	...	....	10.52	9.21	7.89
06P22-67S	25	...	....	14.74	12.90	11.06
00C22-68P	2	36	....	15.66	13.70	11.75
00C22-68S	2	36	....	20.88	18.27	15.66
00E22-68P	2	36	....	15.64	13.69	11.73
00E22-68S	2	36	....	20.86	18.25	15.65
00P22-68P	2	36	....	13.74	12.02	10.31
00P22-68S	2	36	....	18.98	16.61	14.24
01C22-68P	2	36	....	13.60	11.90	10.20
01C22-68S	2	36	....	18.82	16.47	14.12
01E22-68P	2	36	....	13.58	11.88	10.19
01E22-68S	2	36	....	18.80	16.45	14.10
01P22-68P	2	36	....	11.68	10.22	8.76
01P22-68S	2	36	....	16.92	14.81	12.69
02E22-68P	2	36	....	10.88	9.52	8.16
02E22-68S	2	36	....	16.30	14.26	12.23
03E22-68P	2	36	....	12.40	10.85	9.30
03E22-68S	2	36	....	17.82	15.59	13.37
06C22-68P	2	36	....	13.30	11.64	9.98
06C22-68S	2	36	....	18.54	16.22	13.91
06E22-68P	2	36	....	13.28	11.62	9.96
06E22-68S	2	36	....	18.52	16.21	13.89
06J22-68P	2	36	....	15.34	13.42	11.51
06J22-68S	2	36	....	20.58	18.01	15.44
06P22-68P	2	36	....	11.40	9.98	8.55
06P22-68S	2	36	....	16.62	14.54	12.47
00C22-69P	2	40	....	16.20	14.18	12.15
00C22-69S	2	40	....	21.42	18.74	16.07
00E22-69P	2	40	....	15.82	13.84	11.87
00E22-69S	2	40	....	21.06	18.43	15.80
00P22-69P	2	40	....	14.28	12.50	10.71
00P22-69S	2	40	....	19.50	17.06	14.63
01C22-69P	2	40	....	14.14	12.37	10.61
01C22-69S	2	40	....	19.36	16.94	14.52
01E22-69P	2	40	....	13.76	12.04	10.32
01E22-69S	2	40	....	19.00	16.63	14.25
01P22-69P	2	40	....	12.22	10.69	9.17
01P22-69S	2	40	....	17.44	15.26	13.08
02E22-69P	2	40	....	11.38	9.96	8.54
02E22-69S	2	40	....	16.84	14.74	12.63
03E22-69P	2	40	....	12.92	11.31	9.69
03E22-69S	2	40	....	18.36	16.07	13.77
06C22-69P	2	40	....	13.84	12.11	10.38
06C22-69S	2	40	....	19.08	16.70	14.31
06E22-69P	2	40	....	13.48	11.80	10.11
06E22-69S	2	40	....	18.70	16.36	14.03
06J22-69P	2	40	....	15.88	13.90	11.91
06J22-69S	2	40	....	21.12	18.48	15.84
06P22-69P	2	40	....	11.92	10.43	8.94
06P22-69S	2	40	....	17.16	15.02	12.87

Alternate X and W positions are available at an additional cost of $0.20 extra per connector in quantities of 1-24; $0.18 extra in quantities of 25-99; and $0.15 in quantities of 100-199.

SERIES 115 50-CONTACT AND 100-CONTACT VISE-LOCKED CABLE CONNECTORS



115-115P 115-114S

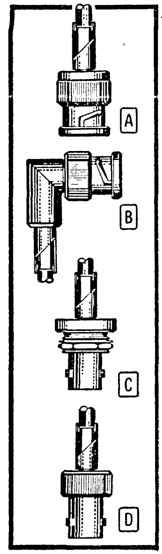
Accommodate 50 or 100 #16 wires. Vise action of screw lock provides leverage for attaching and detaching plug. Inserts have molded-in numbers to facilitate wiring and checking of circuits. Solder-cup contacts are free-floating for alignment in mating but cannot rotate. AN-type cable clamps with aluminum housings also listed. Approx. size of shells: 100-contact, 3½x3½x1¹¹⁄₃₂"; 50-contact, 2³¹⁄₃₂x2¼x1¹¹⁄₃₂". Rated at 750 v., 60 cycle AC max. at sea level. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Description and Number of Contacts	EACH 1-9	EACH 10-49
47 D 3017	115-30P-1000	Male Plug—100	27.65	25.14
47 D 3019	115-31S-1000	Female Receptacle—100	35.03	32.07
47 D 3021	115-32P	Male Receptacle—100	27.19	24.72
47 D 3020	115-32S	Female Plug—100	35.49	32.27
47 D 3022	115-114P	Male Plug—50	18.91	17.19
47 D 3024	115-115S	Female Receptacle—50	23.48	21.35
47 D 3031	115-115P	Male Receptacle—50	19.50	17.73
47 D 3030	115-114S	Female Plug—50	22.89	20.81
47 D 3032	115-949	Cable Clamp—100	7.64	6.95
47 D 3038	115-1391	Cable Clamp—50	4.88	4.44

Amphenol BNC and "Subminax" Connectors

CRIMP OR SOLDER "QUICK-CRIMP" BNC'S

Permits crimp or solder connection to cable. Even when center contact is crimped, connector maintains constant impedance. Costs are appreciably reduced because crimping cuts assembly time 66% or more. VSWR is identical to std. solder-type BNC's up to 10,000 mc. Connectors may be used with other than 50-ohm cable for nonimpedance match. Rated 500 v., max. Impedance, 50 ohms. VSWR, 1.25:1 max. (straight plug and jack). Cable retention equal to cable braid. Teflon dielectric. Bronze female and outer contact. Male contact and all other parts are brass. Center contacts gold plated; other parts silver plated. Sizes: plug, $1\frac{17}{64}$x$\frac{9}{16}$" dia.; right-angle plug, $1\frac{9}{16}$x$1\frac{1}{8}$x$\frac{9}{16}$" dia.; cable jack, $1\frac{11}{32}$x$\frac{9}{16}$" dia.; bulkhead jack, $1\frac{5}{16}$x$1\frac{1}{16}$" dia.—$\frac{1}{2}$" "D" mounting hole



Stock No.	Mfr's Type	Fig.	Sim. to UG/-U	Description	Use With Amphenol RG/U Cable	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 0423	36775	A	88E	Plug	58, 58A, 58C, 141	.88	.72	.60	.52	.46
47 D 0424	36875	A	88E	Plug	55, 55A, 142, 223	.88	.72	.60	.52	.46
47 D 0425	36800	D	89C	Cable Jack	58, 58A, 58C, 141	1.09	.90	.75	.65	.57
47 D 0427	34625	A	260B	Plug	71	.88	.72	.60	.52	.46
47 D 0428	68175	A	260B	Plug	59/A/B,62/A/C, 140	.88	.72	.60	.52	.46
47 D 0429	34650	D	261C	Cable Jack	71	1.09	.90	.75	....	....
47 D 0430	68150	D	261C	Cable Jack	59/A/B, 62/A/C, 140	1.17	.96	.80	.69	.61
47 D 0431	95700	C	909B	Blkhd. Jack	55, 55A, 142, 223	1.53	1.25	1.05	.91	.80
47 D 0433	95725	C	909B	Blkhd. Jack	58, 58A, 58C, 141	1.53	1.25	1.05	.91	.80
47 D 0434	95750	C	910B	Blkhd. Jack	59/A/B, 62/A/C, 140	1.53	1.25	1.05	.91	.80
47 D 0436	95775	C	910B	Blkhd. Jack	71	1.53	1.25	1.05	....	....
47 D 0437	95800	C	910B	Blkhd. Jack	122, 180A, 195, 21-597	1.53	1.25	1.05	.91	.80
47 D 0440	95575	B	913A	Angle Plug	55, 55A, 142, 223	3.05	2.51	2.10	1.82	1.60
47 D 0441	95600	B	913A	Angle Plug	58, 58A, 58C, 141	3.05	2.51	2.10	1.82	1.60
47 D 0442	95625	B	913A	Angle Plug	59/A/B, 62/A/C, 140	3.05	2.51	2.10	1.82	1.60
47 D 0443	95650	B	913A	Angle Plug	71	3.05	2.51	2.10	1.82	....
47 D 0444	95675	B	913A	Angle Plug	122, 180A, 195, 21-597	3.05	2.51	2.10	....	....
47 D 0445	36650	A	1033	Plug	122, 180A, 195, 21-597	1.02	.84	.70	.61	.54
47 D 0448	36675	D	1056	Cable Jack	122, 180A, 195, 21-597	1.17	.96	.80	....	....

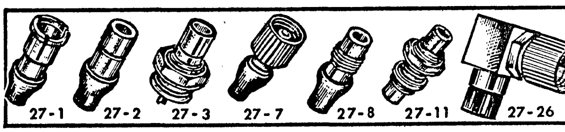
CRIMPING TOOLS FOR "QUICK-CRIMP" BNC CONNECTORS

Industrial crimping tools for above. Have extra long handles and narrow jaws of hardened steel. Spring-loaded ratchet action assures uniform, secure crimp in 10 seconds or less. Av. wt., 1 lb.

Stock No.	Type No.	Use With Amphenol RG/U Cable	EACH
47 D 2609	227-350	55, 55B, 58, 58A, 58C, 122, 141, 142, 180, 195, 223, 21-597; 421-637	97.00
47 D 2613	227-375	71, 59, 59A, 59B, 62, 62A, 62C, 140	97.00
47 D 3860	227-912	For crimping center contact of all above connectors	105.00

"SUBMINAX" SERIES 27 PUSH-ON AND SCREW-ON SUBMINIATURE RF CONNECTORS

Feature full-size electrical characteristics compressed into a space-saving and weight-saving design. For Amphenol subminiature coaxial cable. Low-resistance gold-plated bodies and contacts. Screw-on and push-on types cannot be intermixed; impedances must match. 50-ohm types except, *75 ohms. Require †227-900 or ‡227-901 tool below.



PUSH-ON TYPES

Stock No.	Mfr's Type	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 0470	27-1†	.85	.69	.58	.50	.44
47 D 0471	27-2†	.85	.69	.58	.50	.44
47 D 0472	27-3	1.03	.85	.71	.62	.54
47 D 0481	27-13*‡	.93	.77	.64	.56	.49
47 D 0458	27-15*	1.11	.91	.76	.66	.58
47 D 2792	27-16*‡	1.15	.94	.79	.69	.60

CRIMPING TOOLS FOR SERIES 27 CONNECTORS

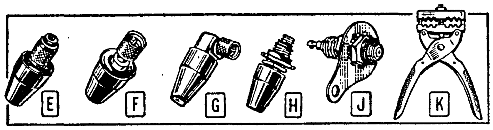
Stock No.	Mfr's Type	Use With Connectors	EACH
47 D 0467	227-900	Subminax Types followed by †	19.50
47 D 0468	227-901	Subminax Types followed by ‡	19.50

SCREW-ON TYPES

Stock No.	Mfr's Type	EACH 1-24-	25-99	100-499	500-999	1000-2499
47 D 0475	27-7†	.85	.69	.58	.50	.44
47 D 0476	27-8†	.66	.54	.45	.39	.35
47 D 0477	27-9	.85	.69	.58	.50	.44
47 D 0478	27-10†	.95	.78	.65	.56	.50
47 D 0479	27-11	1.35	1.11	.93	.81	....
47 D 0480	27-12	1.95	1.60	1.34	....	....
47 D 0496	27-26†	1.59	1.30	1.09	.94	.83
47 D 2645	27-34	1.86	1.53	1.28	1.11	.98
47 D 0461	27-19*‡	.90	.74	.62	.54	.48
47 D 0463	27-21*	1.09	.90	.75	.65	.57
47 D 0498	27-25*‡	1.67	1.37	1.15	1.00	.88

"SUBMINAX" SERIES 5116 CRIMP OR SOLDER SUBMINIATURE RF CONNECTORS

Feature captivated contacts for high resistance to cable strain due to mechanical stress, etc. Female contacts are beryllium copper with gold over silver plating; male contacts and all other metal parts are brass with gold over silver plating. Teflon dielectrics. Offer constant impedance, low VSWR, and low insertion loss. Interchangeable with other designs. Rated 500 volts, peak. Units in left-hand table have 50-ohm impedance; units in right-hand table have 95-ohm impedance except 037525 and 037725, 75 ohms.



Stock No.	Type 5116-	For RG Cable	Fig.	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2320	037475	178A, 178B, 196, 196A	F	1.82	1.49	1.25	1.08	.95
47 D 2321	037600		G	3.72	3.05	2.56	....	....
47 D 2322	037700		E	2.60	2.14	1.79	....	....
47 D 2323	037800		H	3.26	2.67	2.24	....	....
47 D 2324	058350		J	2.23	1.83	1.53	1.32	1.17
47 D 2325	037575	174, 316	F	1.86	1.53	1.28	1.11	.98
47 D 2328	037875	188, 188A	H	3.55	2.91	2.44	....	....

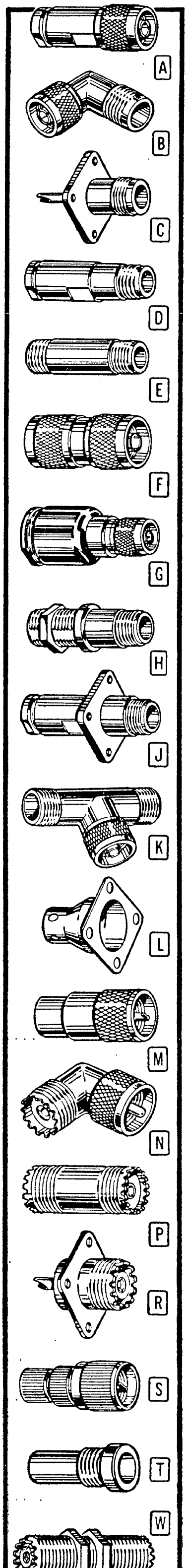
Stock No.	Type 5616-	For RG Cable	Fig.	EACH 1-24	25-99	100-499	500-999
47 D 2330	037525	179A, 179B	F	2.05	1.68	1.41	....
47 D 2332	037725	187A, 187B	E	2.88	2.36	1.98	....
47 D 2335	037550	180A, 180B	F	1.86	1.53	1.28	1.11
47 D 2336	037650	187A, 187B	G	3.90	3.20	2.68	2.32
47 D 2339	057400		J	2.33	1.91	1.60	1.38

K TYPE 227-911 CRIMPING TOOL FOR ABOVE CONNECTORS

Crimps all Series 5116 connectors. Handles all cable sizes. Designed for quick, easy operation—crimps cable braid to connector in seconds. Assures secure connection. Shpg. wt., 1 lb.

47 D 2340 .... 16.00

Amphenol Coaxial Connectors



SERIES 82 COAXIAL CONNECTORS

Highly dependable, weatherproof coaxial connectors. Meet government specifications.

TYPE N CONNECTORS. Low voltage. 50 ohms except *70.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2459	UG-18B/U	82-86	Plug	A	5, 6, 21	3.20	2.62	2.20	1.90	1.68
47 D 0313	UG-21B/U	82-61	Plug	A	8, 9, 10	1.28	1.05	.88	.76	.67
47 D 2602	UG-21C/U	82-96	Plug	A	8, 9, 10	2.91	2.39	2.00	1.73	1.52
47 D 2461	UG-21D/U	82-202	Plug	A	8, 9, 10	1.18	.97	.81	.70	.62
47 D 0314	UG-22B/U	82-62	Panel Jack	J	8, 9, 10	1.82	1.49	1.25	1.08	.95
47 D 2601	UG-22D/U	82-208	Panel Jack	J	8, 9, 10	2.62	2.15	1.80	1.56	1.37
47 D 0315	UG-23B/U	82-63	Jack	D	8, 9, 10	1.53	1.25	1.05	.91	.80
47 D 2600	UG-23D/U	82-209	Jack	D	8, 9, 10	1.60	1.31	1.10	.95	.84
47 D 0520	UG-27A/U	82-64	Angle Adapter	B	....	3.05	2.51	2.10	1.82	1.60
47 D 2462	UG-27B/U	82-98	Angle Adapter	B	....	4.21	3.46	2.90	2.51	2.21
47 D 2463	UG-27C/U	82-213	Angle Adapter	B	....	4.36	3.58	3.00	2.59	2.28
47 D 2464	UG-28A/U	82-99	"T" Adapter	K	....	4.58	3.76	3.15	2.72	2.40
47 D 0521	UG-29A/U	82-65	Adapter	E	....	2.04	1.67	1.40	1.21	1.07
47 D 2604	UG-29B/U	82-101	Adapter	E	....	2.25	1.85	1.55	1.34	1.18
47 D 0522	UG-30/U	82-66	Bulkhead Adapter	H	....	2.98	2.45	2.05	1.77	1.56
47 D 2108	UG-30D/U	91100	Bulkhead Adapter	H	....	......	......	......	......	......
47 D 2603	UG-57B/U	82-100	Adapter	F	....	3.13	2.56	2.15	1.86	1.64
47 D 0499	....	82-112*	Panel Receptacle	C	....	2.84	2.33	1.95	1.69	1.49
47 D 0529	UG-58A/U	82-97	Panel Receptacle	C	....	1.05	.86	.72	.63	.55
47 D 0312	UG-58/U	82-24*	Panel Receptacle	C	....	.98	.80	.67	.58	.51
47 D 0316	UG-94A/U	82-84*	Plug	A	11, 12, 13	2.62	2.15	1.80	1.56	1.37
47 D 2606	UG-95A/U	82-89	Jack	D	11, 12, 13	2.25	1.85	1.55	1.34	1.18
47 D 0519	UG-107A/U	82-36	"T" Adapter	K	....	6.90	5.66	4.75	4.10	3.61
47 D 0558	UG-107B/U	82-102	"T" Adapter	K	....	5.52	4.53	3.80	3.28	2.89
47 D 2116	UG-536/U	34000	Plug	A	58, 141	2.84	2.33	1.95	1.69	1.49
47 D 2117	UG-536B/U	34025	Plug	A	55, 58	1.44	1.18	.99	.86	.76
47 D 2118	UG-603A/U	34525	Plug	A	59, 62, 71	3.49	2.86	2.40	2.08	....
47 D 2465	UG-680/U	82-811	Plug	Z	....	2.40	1.97	1.65	1.43	1.26
47 D 2466	MX-913/U	82-106	Cap & Chain	....	....	.69	.56	.47	.41	.36
47 D 0559	UG-167A/U	82-104	Plug	G	17, 18	7.99	6.55	5.50	......	....
47 D 0560	UG-1185/U	82-312	Plug	A	8, 9, 87A	1.46	1.20	1.00	.87	.76
47 D 0561	UG-1186/U	82-313	Jack	D	8, 9, 87A	2.55	2.09	1.75	1.51	1.33
47 D 2467	....	82-835	Angle Plug	B	87A	4.07	3.34	2.80	2.42	2.13
47 D 2619	....	82-150	Cable Splice	....	8, 9, 17, 18	15.25	12.51	10.50	......	....

TYPE HN CONNECTORS. For high-voltage applications. 50 ohms.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	1-24	25-99	100-499	500-999	1000-2499
47 D 0375	UG-59A/U	82-38	Straight Plug	A	8, 9, 10	3.20	2.62	2.20	1.90	1.68
47 D 0317	UG-59B/U	82-804	Straight Plug	A	8, 9, 10	3.13	2.56	2.15	1.86	1.64
47 D 2468	UG-496/U	82-92	Panel Receptacle	C	....	2.25	1.85	1.55	1.34	1.18
47 D 0318	UG-560/U	82-805	Panel Receptacle	C	....	2.73	2.24	1.88	1.63	1.43
47 D 0563	UG-1213/U	82-320	Straight Plug	A	8, 9, 87A	5.35	4.39	3.68	3.18	2.80
47 D 0515	UG-1215/U	82-324	Panel Jack	J	8, 9, 87A	6.68	5.48	4.60	......	....
47 D 2470	....	82-833	Angle Plug	B	8, 9, 10	6.03	4.95	4.15	3.59	3.16
47 D 2610	....	82-816	Straight Plug	A	54A	3.20	2.62	2.20	1.90	1.68

TYPE C AND LC CONNECTORS. For high-voltage applications. 50 ohms.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	1-24	25-99	100-499	500-999	1000-2499
47 D 2471	UG-568/U	82-504	Panel Receptacle	Y	....	1.82	1.49	1.25	1.08	.95
47 D 0489	UG-573A/U	82-530	Plug	A	8, 9, 10	2.04	1.67	1.40	1.21	1.07
47 D 2612	UG-710A/U	82-531	Angle Plug	B	8, 9, 10	4.21	3.46	2.90	2.51	2.21

SERIES 83 UHF COAXIAL CONNECTORS

Meet government specs. *Polystyrene insulation. †Mica-filled insert. Non-constant impedance.

UHF SMALL SINGLE CONTACT. For any RF application.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	1-24	25-99	100-499	500-999	1000-2499
47 D 0357	UG-106/U M-360	83-1H	Hood	L	8, 9, 10, 11	.38	.31	.26	.23	.20
47 D 2450	UG-111/U	83-750	Plug	M	59, 62, 71	.76	.62	.52	.45	.40
47 D 0360	UG-175/U	83-185	Reducing Adapter	T	25, 55, 58	.16	.14	.11	.10	.09
47 D 0359	UG-176/U	83-168	Reducing Adapter	T	59, 62, 71	.16	.14	.11	.10	.09
47 D 0351	UG-177/U	83-765	Hood	L	29, 55, 58	.31	.25	.21	.19	.16
47 D 0373	UG-203/U, 49482	83-776	Plug	M	55, 59, 62, 71	1.09	.90	.75	.65	.57
47 D 0356	UG-363/U PL-274	83-1F*	Straight Adapter	W	....	2.25	1.85	1.55	1.34	1.18
47 D 0353	UG-646/U, M-359	83-1AP*	Angle Adapter	N	....	1.60	1.31	1.10	.95	.84
47 D 0354	M-358, 49119	83-1T*	"T" Adapter	K	....	2.84	2.33	1.95	1.69	1.49
47 D 2452	M-359A, 49192	83-58	Angle Adapter	N	....	2.07	1.70	1.42	1.23	1.08
47 D 0355	PL-258, 49191	83-1J*	Straight Adapter	P	....	1.01	.83	.69	.60	.53
47 D 0350	PL-259, 49190	83-1SP†	Plug	M	8-13, 63, 65	.54	.44	.37	.32	.29
47 D 2454	PL-259A, 49195	83-756	Plug	M	8-12	1.24	1.02	.85	.74	.65
47 D 0372	PL-259A, 49195	83-1SPN†	Plug	M	8-13, 63, 65	.88	.72	.60	.52	.46
47 D 0352	SO-239, 49194	83-1R†	Panel Receptacle	R	....	.53	.43	.36	.31	.28
47 D 2453	SO-239A	83-798	Panel Receptacle	R	....	1.14	.93	.78	.68	.60
47 D 0358	....	83-1AC	Cap & Chain	....	....	.66	.54	.45	.39	.35
47 D 2455	SO-239	83-1RTY†	Panel Receptacle	R	....	.67	.55	.46	.40	.35
47 D 2456	....	83-59	Angle Plug	....	8-13, 63, 65	2.86	2.35	1.97	1.70	1.50
47 D 2457	PL-259, 49190	83-822	Plug	M	8, 9	1.02	.84	.70	.61	.54

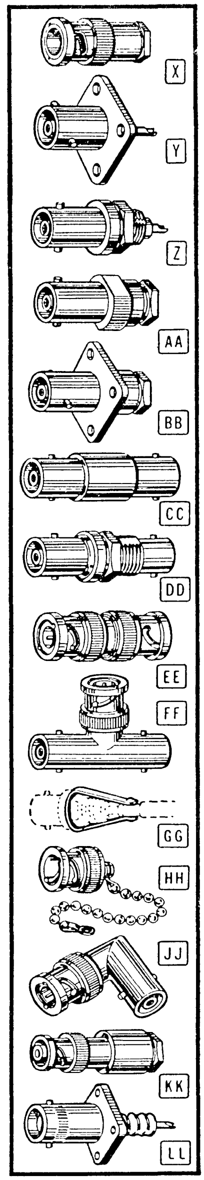
UHF SMALL TWIN CONTACT. For use with 2-conductor coax cables.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	1-24	25-99	100-499	500-999	1000-2499
47 D 0361	UG-102/U, PL-284	83-22SP	Plug	....	....	1.38	1.14	.95	.82	.73
47 D 0362	UG-103/U, SO-264	83-22R	Panel Receptacle	....	....	1.75	1.43	1.20	1.04	.92
47 D 0374	UG-104/U, PL-293	83-22AP	Angle Adapter	....	....	3.56	2.92	2.45	2.12	....
47 D 2458	....	83-65	Reducing Adapter	T	59, 62, 71	.21	.17	.14	.12	.11

SOLDERLESS TYPE UHF CONNECTORS.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	1-24	25-99	100-499	500-999	1000-2499
47 D 0509	....	83-850	Plug	S	11	2.11	1.73	1.45	1.26	....
47 D 0510	....	83-851	Plug	S	8	1.53	1.25	1.05	.91	.80

Amphenol Coaxial Connectors



SERIES 31 COAXIAL CONNECTORS

BNC TYPES. Small; weatherproof. Low-voltage single-contact types. Feature bayonet-lock coupling for quick connect and disconnect. 50-ohm impedance. Designed for use up to 10,000 mc, 500 volts. *Pressurized.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 0391	UG-88/U	31-002	Plug	X	55, 58	.72	.59	.49	.43	.38
47 D 2476	UG-88B/U	31-018	Plug	X	55, 58	.88	.72	.60	.52	.46
47 D 2477	UG-88C/U	31-202	Plug	X	55, 58	.86	.71	.59	.51	.45
47 D 0393	UG-89/U	31-005	Jack	AA	55, 58	1.17	.96	.80	.69	.61
47 D 2621	UG-89B/U	31-205	Jack	AA	55, 58	1.38	1.14	.95	.82	.73
47 D 2622	CW-159/U	31-017	Cap and Chain	HH	...	.86	.71	.59	.51	.45
47 D 2122	UG-185	4500	Panel Receptacle	Y	...	1.75	1.43	1.20	1.04	.92
47 D 2481	UG-254A/U	31-016*	Bulkhead Receptacle	Z	...	4.21	3.46	2.90	2.51	...
47 D 0396	UG-260/U	31-012	Plug	X	59, 62, 71	.79	.65	.54	.47	.41
47 D 2478	UG-260A/U	31-021	Plug	X	59, 62, 71	.88	.72	.60	.52	.46
47 D 2479	UG-260B/U	31-212	Plug	X	59, 62, 71	.96	.79	.66	.57	.51
47 D 2623	UG-261B/U	31-215	Jack	AA	59, 62, 71	2.18	1.79	1.50	1.30	1.14
47 D 0397	UG-261/U	31-015	Jack	AA	59, 62, 71	1.53	1.25	1.05	.91	.80
47 D 2625	UG-262B/U	31-211	Panel Jack	BB	59, 62, 71	2.47	2.03	1.70	1.47	...
47 D 0395	UG-262/U	31-011	Panel Jack	BB	59, 62, 71	1.67	1.37	1.15	1.00	.88
47 D 0492	UG-274/U	31-008	"T" Adapter	FF	...	2.33	1.91	1.60	1.38	1.22
47 D 2482	UG-274A/U	31-208	"T" Adapter	FF	...	3.34	2.74	2.30	1.99	1.75
47 D 0392	UG-290/U	31-003	Panel Receptacle	Y	...	1.06	.87	.73	.63	.56
47 D 2483	UG-290A/U	31-203	Panel Receptacle	Y	...	.86	.71	.59	.51	.45
47 D 2627	UG-291B/U	31-201	Panel Jack	BB	55, 58	2.18	1.79	1.50	1.30	1.14
47 D 0399	UG-291/U	31-001	Panel Jack	BB	55, 58	1.75	1.43	1.20	1.04	.92
47 D 0394	UG-306/U	31-009	Angle Adapter	JJ	...	2.40	1.97	1.65	1.43	1.26
47 D 2119	UG-414/U	47000	Panel Recept. Adapter	...	...	2.04	1.67	1.40	1.21	1.07
47 D 2485	UG-447/U	31-817	Panel Receptacle	Y	...	1.17	.96	.80	.69	.61
47 D 2486	UG-491A/U	31-218	Adapter	EE	...	2.33	1.91	1.60	1.38	1.22
47 D 0494	UG-492A/U	31-220	Bulkhead Adapter	DD	...	2.69	2.21	1.85	1.60	1.41
47 D 2131	UG-535/U	5675	Angle Panel Recept.	...	...	2.62	2.15	1.80	...	...
47 D 2132	UG-625/U	5575	Bulkhead Receptacle	Z	...	.82	.67	.56	.49	.43
47 D 2133	UG-625B/U	31-236	Bulkhead Receptacle	Z	...	.82	.67	.56	.49	.43
47 D 0398	UG-657/U	31-102	Bulkhead Receptacle	Z	...	1.27	1.04	.87	.75	.67
47 D 2487	UG-909/U	31-206	Bulkhead Jack	...	55, 58	1.38	1.14	.95	.82	.73
47 D 2488	UG-910/U	31-207	Bulkhead Jack	...	59, 62, 71	1.53	1.25	1.05	.91	.80
47 D 2137	UG-911A/U	31-237	Bulkhead Receptacle	Z	...	2.76	2.27	1.90	1.64	1.45
47 D 2138	UG-912/U	31-238	Bulkhead Receptacle	Z	...	2.25	1.85	1.55	1.34	1.18
47 D 2489	UG-913/U	31-204	Angle Plug	...	55, 58	3.56	2.92	2.45	2.12	1.87
47 D 2490	UG-914/U	31-219	Adapter	CC	...	1.22	1.00	.84	.73	.64
47 D 2134	UG-1033/U	84975	Plug	X	122	2.25	1.85	1.55	1.34	...
47 D 2491	UG-1094/U	31-221	Bulkhead Receptacle	Z	...	.72	.59	.49	.43	.38
47 D 2492	UG-1098/U	31-222	Angle Receptacle	...	...	2.55	2.09	1.75	1.51	1.33
47 D 0490	CW-123/U	31-006	Cap and Chain	HH	...	.58	.48	.40	.35	.31
47 D 2493	CW-123A/U	31-026	Cap and Chain	HH	...	.60	.49	.41	.36	.32
47 D 0491	CW-155/U	31-007	Cap Only	HH	...	.58	.48	.40	.35	.31
47 D 2495	...	31-304	Plug	X	...	1.60	1.31	1.10	.95	.84
47 D 2496	...	31-759	Grounding Lug	GG	...	.13	.11	.09	.08	.07
47 D 2628	...	31-105	Panel Receptacle	Y	...	1.38	1.14	.95	.82	.73
47 D 2629	...	31-301	Plug	X	55, 58C, 142	1.60	1.31	1.10	.95	.84
47 D 2630	...	31-850	Angle Plug	...	59, 62, 71	3.13	2.56	2.15	1.86	1.64
47 D 2153	...	8525	Angle Plug	...	55, 58	2.55	2.09	1.75	1.51	1.33

MHV MINIATURE HIGH VOLTAGE CONNECTORS. Single-contact types. Feature bayonet-lock coupling for quick connect and disconnect.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2398	UG-931/U	27000	Panel Receptacle	LL	58, 59	2.18	1.79	1.50	1.30	1.14
47 D 2399	UG-932/U	28000	Straight Plug	KK	58, 59	2.04	1.67	1.40	1.21	1.07

MB MINIATURE RF COAXIAL CONNECTORS

Low-cost coaxial connectors. All have bayonet lock. Maximum ratings: 500 mc., 500 volts, 400°F. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Description	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2581	45000	Plug for RG-58/U	1.11	.91	.76	.66	.....
47 D 2585	46025	Receptacle (Kel-F)	.83	.68	.57	.50	.44

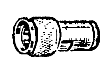
"BETWEEN-SERIES" ADAPTERS

Provide connection between various RF connector series. Non-constant impedance, but minimize electrical resistance. Av. wt., 3 oz.

Stock No.	Military No. UG-	Mfr's Type	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2480	201/U	31-830	2.33	1.91	1.60	1.38	1.22
47 D 2615	201A/U	31-216	1.62	1.33	1.11	.96	.85
47 D 0493	273/U	31-028	1.56	1.28	1.07	.93	.82
47 D 2484	349A/U	31-217	2.55	2.09	1.75	1.51	1.33
47 D 2617	565A/U	82-540	4.21	3.46	2.90	2.51	....
47 D 0046	....	27-28	1.15	.94	.79	.69	.60
47 D 2565	146/U	4400	2.98	2.45	2.05	1.77	1.56
47 D 2566	255/U	2900	2.84	2.33	1.95	1.69	1.49

TWINAX WEATHERPROOF RF CONNECTORS

95-ohm twin-conductor weatherproof polarized connectors, for use up to 200 mc. Fit RG-22/U. Military No.: *UG-421/U; †UG-422/U.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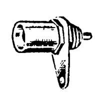
Stock No.	Mfr's Type	Description	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2588	6275*	RG-22/U plug	3.71	3.04	2.55	2.20	1.94
47 D 2589	6225†	Sq. flange socket.	3.17	2.60	2.18	1.89	1.66

COAXIAL RF PLUG-INS

Commonly used on drawer-type chassis for direct plug-in connections. Rated for 2000 volts. Plug and receptacle mount in 5/16" dia. hole. Military No.: *UG-1050/U; †UG-1051/U.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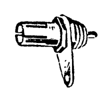
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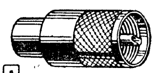
Stock No.	Mfr's Type	Contacts	EACH 1-24	25-99	100-499	500-999	1000-2499
47 D 2504	2225*	Male	.85	.69	.58	.50	.44
47 D 2505	2175†	Female	1.02	.84	.70	.61	.54
47 D 2578	2325	Rt.-angle hood	.66	.54	.45	.39	.....

KINGS RF Connectors and K-Grips

MIL SPEC RF CONNECTORS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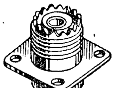
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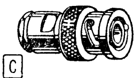
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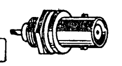
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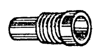
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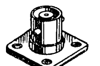
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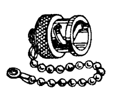
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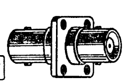
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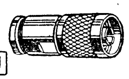
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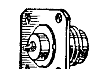
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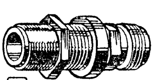
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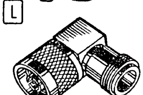
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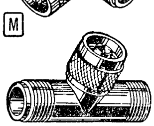
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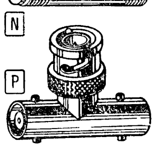
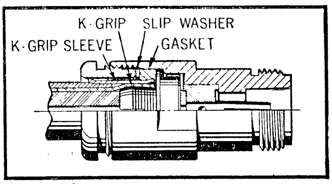

[P]

MIL spec. coax connectors. TR-4 (tarnish resistant) coated. Series HN, BNC, C, N weatherproof. Max. voltage: HN, 5000 v.; BNC, 500 v., N, 1500 v. BNC and C bayonet coupling types. Numbers in "Use with K-Grip" column, refer to keys in table at bottom of page.

Stock No.	Mfr's Type	MIL No.	Fig.	For RG/U Cable	Desc.	Series	Use with K-Grip	EACH 1-24	25-49	50-99	100-249	250-499
47 D 4400	KN-56-04	UG-18D/U	J	5,6,21,212	Plug	N		1.43	1.19	.99	.90	.82
47 D 4401	KN-57-02	UG-21B/U	J	8,9,11,213,214	Plug	N		1.22	1.02	.85	.77	.70
47 D 4402	KN-56-01	UG-21D/U	J	8,9,11,213,214	Plug	N	1,5,7	1.16	.97	.81	.74	.67
47 D 4403	KN-53-02	UG-21E/U	J	8,9,11,213,214	Plug	N	1,5,7	1.22	1.02	.85	.77	.70
47 D 4404	KN-13-01	UG-22E/U		8,9,11,213,214	Jack	N	1,5,7	1.60	1.33	1.11	1.01	.92
47 D 4405	KN-33-01	UG-23E/U		8,9,11,213,214	Jack	N	1,5,7	1.32	1.10	.92	.84	.76
47 D 4406	KN-97-01	UG-27B/U	M		Adapt.	N		2.62	2.18	1.82	1.65	1.50
47 D 4407	KN-98-01	UG-27C/U	M		Adapt.	N		2.28	1.90	1.58	1.44	1.31
47 D 4408	KN-94-04	UG-28A/U	N		Adapt.	N		2.95	2.46	2.05	1.86	1.69
47 D 4409	KN-97-03	UG-29B/U			Adapt.	N		1.42	1.18	.98	.89	.81
47 D 4410	KN-98-02	UG-30C/U	L		Adapt.	N		2.94	2.45	2.04	1.85	1.68
47 D 4411	KN-96-02	UG-30D/U	L		Adapt.	N		2.94	2.45	2.04	1.85	1.68
47 D 4412	KN-97-11	UG-57B/U			Adapt.	N		1.70	1.42	1.18	1.07	.97
47 D 4413	KN-74-01	UG-58A/U	K		Recept.	N		1.03	.86	.72	.65	.59
47 D 4414	KH-56-01	UG-59D/U		8,9,11,213,214	Plug	HN	1,5,7	3.32	2.77	2.64	2.40	2.18
47 D 4415	KH-53-01	UG-59E/U		8,9,11,213,214	Plug	HN	1,5,7	3.82	3.18	2.65	2.41	2.19
47 D 4416	KC-51-01	UG-88/U	C	55,58	Plug	BNC		.65	.54	.45	.41	.37
47 D 4417	KC-58-01	UG-88C/U	C	55,58,142,223	Plug	BNC	2,4	.66	.55	.46	.42	.38
47 D 4418	KC-56-01	UG-88D/U	C	55,58,142,223	Plug	BNC	2,4,6	.79	.66	.55	.50	.45
47 D 4419	KC-53-01	UG-88E/U	C	55,58,142,223	Plug	BNC	2,4,6	.79	.66	.55	.50	.45
47 D 4420	KC-37-01	UG-89B/U		55,58,142,223	Jack	BNC	2,4,6	.79	.66	.55	.50	.45
47 D 4421	KC-38-02	UG-89C/U		55,58,142,223	Jack	BNC	2,4,6	.79	.66	.55	.50	.45
47 D 4422	KN-97-02	UG-107B/U	N		Adapt.	N		3.18	2.65	2.21	2.01	1.83
47 D 4423	KC-81-01	CW-123A/U	G		Cap/Ch	BNC		.37	.31	.26	.24	.22
47 D 4424	KC-81-02	CW-155A/U			Cap	BNC		.31	.26	.22	.20	.18
47 D 4425	KU-91-02	UG-175/U	E	58	Adapt.	UHF		.14	.12	.10	.09	.08
47 D 4426	KU-91-03	UG-176/U	E	59,62,71	Adapt.	UHF		.14	.12	.10	.09	.08
47 D 4428	KN-94-05	UG-201A/U			Adapt.	BNC		1.45	1.21	1.01	.92	.84
47 D 4429	KU-71-02	SO-239	B	8,13,63,65	Recept.	UHF		.49	.41	.34	.31	.28
47 D 4430	KC-91-01	UG-255/U			Adapt.	BNC		2.16	1.80	1.50	1.36	1.24
47 D 4431	KU-51-01	PL-259	A	8-13,63,65	Plug	UHF		.49	.41	.34	.31	.28
47 D 4432	KV-94-06	UG-259A/U	A		Adapt.	LC,HN		6.67	5.56	4.63	4.21	3.83
47 D 4433	KC-51-02	UG-260/U	C	59,62,71,210	Plug	BNC		.70	.58	.48	.44	.40
47 D 4434	KC-57-02	UG-260B/U	C	59,62,71,210	Plug	BNC	3	.72	.60	.50	.45	.41
47 D 4435	KC-58-02	UG-260C/U	C	59,62,71,210	Plug	BNC	3	.89	.74	.62	.56	.51
47 D 4436	KC-56-02	UG-260D/U	C	59,62,71,210	Plug	BNC	3	.79	.66	.55	.50	.45
47 D 4437	KC-38-01	UG-261C/U		59,62,71,210	Jack	BNC	3	.82	.68	.57	.52	.47
47 D 4438	KC-18-01	UG-262C/U		59,62,71,210	Jack	BNC	3	1.09	.91	.76	.69	.63
47 D 4439	KC-91-02	UG-273/U			Adapt.	BNC		1.16	.97	.81	.74	.67
47 D 4440	KC-94-10	UG-274A/U	P		Adapt.	BNC		2.23	1.86	1.55	1.41	1.28
47 D 4441	KC-97-02	UG-274B/U	P		Adapt.	BNC		2.23	1.86	1.55	1.41	1.28
47 D 4442	KC-71-01	UG-290/U	F		Recept.	BNC		1.21	1.01	.84	.76	.69
47 D 4443	KC-74-04	UG-290A/U	F		Recept.	BNC		.77	.64	.53	.48	.44
47 D 4444	KC-94-01	UG-306A/U			Adapt.	BNC		2.32	1.93	1.61	1.46	1.33
47 D 4445	KN-94-09	UG-349A/U			Adapt.	BNC,N		1.94	1.62	1.35	1.23	1.12
47 D 4446	KC-98-01	UG-492C/U	H		Adapt.	BNC		2.39	1.99	1.66	1.51	1.37
47 D 4447	KC-96-01	UG-492D/U	H		Adapt.	BNC		2.39	1.99	1.66	1.51	1.37
47 D 4448	KN-57-05	UG-536B/U	J	55,58,142,223	Plug	N	2,4,6	1.31	1.09	.91	.83	.75
47 D 4449	KN-17-04	UG-556B/U		55,58,142,223	Jack	N	2,4	2.22	1.85	1.54	1.40	1.27
47 D 4454	KH-71-02	UG-560/U			Recept.	HN		2.62	2.18	1.82	1.65	1.50
47 D 4455	KD-94-01	UG-565A/U			Adapt.	C		2.71	2.26	1.88	1.71	1.55
47 D 4456	KD-94-03	UG-567A/U			Adapt.	C		3.50	2.92	2.42	2.20	2.00
47 D 4457	KD-56-03	UG-573B/U		8,9,11,213,214	Plug	C	1,5,7	2.26	1.88	1.57	1.43	1.30
47 D 4458	KN-54-15	UG-594A/U		8,11,213	Plug	N		4.45	3.71	3.09	2.81	2.55
47 D 4459	KC-77-01	UG-625B/U	D		Recept.	BNC		.67	.56	.47	.43	.39
47 D 4460	KC-71-09	UG-657/U	D		Recept.	BNC		1.14	.95	.79	.72	.65
47 D 4461	KN-74-04	UG-680A/U			Recept.	N		1.85	1.54	1.28	1.16	1.05
47 D 4462	KD-57-04	UG-710B/U		8,9,11,213,214	Plug	C	1,5,7	3.77	3.14	2.62	2.38	2.16
47 D 4463	KC-17-06	UG-909B/U		55,58,142,223	Jack	BNC	2,4	1.24	1.03	.86	.78	.71
47 D 4464	KC-17-07	UG-910B/U		59,62,71,210	Jack	BNC	3	1.24	1.03	.86	.78	.71
47 D 4465	KC-74-07	UG-911A/U	D		Recept.	BNC		1.72	1.43	1.19	1.08	.98
47 D 4466	KC-74-10	UG-912A/U	D		Recept.	BNC		1.72	1.43	1.19	1.08	.98
47 D 4467	KN-81-03	MX-913/U			Cap/Ch	N		.50	.42	.35	.32	.29
47 D 4468	KC-91-11	UG-914/U	H		Adapt.	BNC		1.08	.90	.75	.68	.62
47 D 4469	KC-79-02	UG-931/U			Recept.	MHV		1.60	1.33	1.11	1.01	.92
47 D 4470	KV-54-05	UG-932A/U		59,62,71,210	Plug	MHV	3	1.61	1.34	1.12	1.02	.93
47 D 4471	KC-74-06	UG-1094/U	D		Recept.	BNC		.65	.54	.45	.41	.37
47 D 4472	KC-74-12	UG-1094A/U	D		Recept.	BNC		.73	.61	.51	.46	.42
47 D 4473	KC-74-11	UG-1098A/U			Recept.	BNC		2.83	2.36	1.97	1.79	1.63
47 D 4474	KN-51-17	UG-1185/U	J	8,9,11,213,214	Plug	N	7,8	1.21	1.01	.84	.76	.69
47 D 4475	KN-54-14	UG-1185A/U	J	8,9,11,213,214	Plug	N	7,8	1.25	1.04	.87	.79	.72
47 D 4478	KH-51-01	UG-1213/U		8,9,87,115,213	Plug	HN	9	3.96	3.30	2.75	2.50	2.27



K-GRIPS FOR RF CONNECTORS

Advanced method for attaching RF connectors to coaxial cable. K-Grips are quickly assembled. Hold cable tightly, eliminate braid combing, hold dielectric securely in its proper position and simplify inspection. A different K-Grip is required for various sizes within a connector series. *Reference numbers used in RF connector table, above.

Stock No.	Mfr's Type	For RG/U Cable	Key *	EACH 1-99	100-249	250-499	500-999
47 D 4479	KS-89-04	8, 11, 213	1	.59	.52	.47	.43
47 D 4480	KS-89-05	58	2	.44	.39	.35	.32
47 D 4483	KS-89-06	59, 62, 210	3	.44	.39	.35	.32
47 D 4484	KS-89-17	55, 142, 223	4	.43	.37	.34	.31
47 D 4487	KS-89-24	9, 214	5	.65	.57	.52	.48
47 D 4488	KS-89-31	58	6	.55	.48	.44	.41
47 D 4491	KS-89-35	9, 214	7	.75	.66	.60	.55
47 D 4495	KS-89-46	115	8	1.22	1.08	.98	.90

Amphenol Poke-Home® Contacts and Shells

SERIES 220 "MICRO-RAC" CONNECTORS

52 or 104 contacts in smallest possible space. Float mounting; spring-loaded alignment posts. Polarized mono-block construction; contact identification numbers molded in. 52 contact size, 1.888" long by .677" wide; 1.492" mounting centers. 104 contact, 3.017 x .677"; 2.611" mounting centers. **Less contacts, right.** Av. wt., 1½ oz.

Stock No.	Mfr's Type	Con-tacts	Descrip-tion	EACH 1-9	10-49	50-99	100-249
47 D 2245	220-1N052	52	Plug	1.67	1.38	1.11	.95
47 D 2246	220-2N052	52	Receptacle	1.02	.83	.67	.58
47 D 2888	220-5	52	Cable Clamp	1.95	1.61	1.29	1.17
47 D 2256	220-1N104	104	Plug	1.95	1.59	1.38	1.10
47 D 2257	220-2N104	104	Receptacle	1.35	1.11	.91	.78
47 D 2889	220-6	104	Cable Clamp	2.00	1.66	1.33	1.19

SERIES 221 MICRO-MINIATURE STRIP CONNECTORS

Versatile connectors that give you new design freedom. Use full length as is, or cut with scissors to specific length. Almost any configuration can be produced quickly and easily by cutting and stacking strips. Two or more strips can be staked or epoxied together for multi-row connector. When stacked, layer to layer, contact centers are .100" for both connectors. Use guide pins at least every 3 inches for mating alignment as well as keying. Guide pins replace both a pin and socket contact; also one contact hole is utilized when staking or cutting connector. **Supplied less contacts and guide pins. See listing, right.** Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Con-tacts	Descrip-tion	Spac-ing	EACH 1-9	10-49	50-99	100-249
47 D 2197	221-1160	60	6" Plug	.100"	1.02	.85	.69	.58
47 D 2198	221-1260	60	6" Recept.	.100"	.70	.57	.46	.39
47 D 2199	221-2153	53	4" Plug	.075"	1.65	1.38	1.11	.94
47 D 2200	221-2253	53	4" Recept.	.075"	1.22	1.02	.83	.70

SERIES 222 "MIGHTY MITE" CIRCULAR CONNECTORS

Low-cost, highly reliable micro-miniature connectors for cable-to-cable or cable-to-chassis applications. Available in 19 to 61-contact sizes. .085" centers. Five keys are molded into connector to insure proper alignment. Contact identification numbers are also molded into the polycarbonate resin dielectric. 19-contact size, .621" dia. x 2.618" long; 31-contact, .746" x 2.948"; 61-contact, .966" x 3.530". **Less contacts, right.** Av. shpg. wt., 1½ oz.

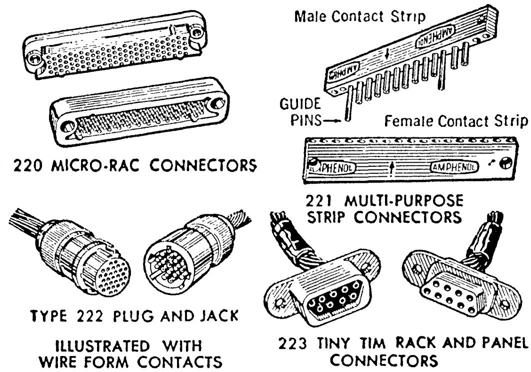
Stock No.	Mfr's Type	Con-tacts	Descrip-tion	EACH 1-9	10-49	50-99	100-249
47 D 2238	222-11N19	19	Plug	1.00	.83	.67	.57
47 D 2201	222-12N19	19	Receptacle	.80	.67	.54	.46
47 D 2144	222-518	19	Cable Clamp	1.68	1.39	1.13	.96
47 D 2202	222-11N31	31	Plug	1.00	.82	.66	.57
47 D 2206	222-12N31	31	Receptacle	.80	.66	.54	.46
47 D 2149	222-519	31	Cable Clamp	1.80	1.48	1.20	1.02
47 D 2207	222-11N61	61	Plug	1.08	.89	.72	.61
47 D 2208	222-12N61	61	Receptacle	.85	.71	.57	.49
47 D 2209	222-520	61	Cable Clamp	4.10	3.39	2.74	2.33

SERIES 223 "TINY TIM" RACK AND PANEL CONNECTORS

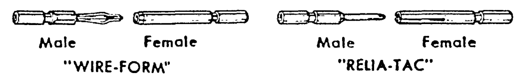
For circuit modules, either potted-in or surface mounted; micro-miniature cable-to-cable use. **Meet MIL-C-8384B.** Contact spacing, .100" centers on each row. Screw mount. **Less contacts, right.** 1½ oz.

Stock No.	Mfr's Type	Con-tacts	Descrip-tion	Mtg. Ctrs.	EACH 1-9	10-49	50-99	100-249
47 D 2261	223-1105	5	Plug	.593"	.60	.50	.41	.35
47 D 2262	223-1205	5	Recept.	.593"	.57	.48	.38	.33
47 D 2263	223-1109	9	Plug	.793"	.53	.44	.35	.30
47 D 2264	223-1209	9	Recept.	.793"	.57	.48	.38	.33
47 D 2265	223-1117	17	Plug	1.193"	.62	.52	.42	.36
47 D 2266	223-1217	17	Recept.	1.193"	.60	.49	.39	.34
47 D 2276	223-1125	25	Plug	1.593"	.55	.46	.37	.32

CHOOSE FROM THESE MICRO-MINIATURE SHELLS THEN PICK THE CONTACT YOU NEED



ALL CONNECTORS SUPPLIED LESS CONTACTS



SERIES 223 "TINY TIM" CONNECTORS (Cont'd)

Stock No.	Mfr's Type	Con-tacts	Descrip-tion	Mtg. Ctrs.	EACH 1-9	10-49	50-99	100-249
47 D 2277	223-1225	25	Recept.	1.593"	.60	.50	.41	.34
47 D 2278	223-1133	33	Plug	1.993"	.67	.55	.45	.38
47 D 2279	223-1233	33	Recept.	1.993"	.62	.50	.41	.35

INDIVIDUAL "WIRE-FORM" AND "RELIA-TAC" CONTACTS

For Series 220-223; rated 3 amps. Both types take 22, 24, 26 solid wire; 24, 26 stranded wire. Relia-Tac also takes 28 solid wire. Wire-Form male, gold-clad copper alloy wire members in copper sleeves; both male and female, electroless gold plated over copper. Size, .403 x .050". Relia-Tac, gold-over-nickel on copper alloy body. Male, .389 x .050"; female, .404 x .050". Guide pins fit either type. Relia-Tac does not mate with Wire-Form. Wt. per pk., 1 oz.

Stock No.	Mfr's Type	Description	PER PKG. OF 100 1-9	10-99	100-Up
47 D 2885	220-P01	Wire-Form Male	6.10	4.90	4.20
47 D 2291	220-S01	Wire-Form Female	2.80	2.20	1.90
47 D 2226	220-P02	Relia-Tac Male	3.70	2.90	2.50
47 D 2227	220-S02	Relia-Tac Female	8.90	7.10	6.10

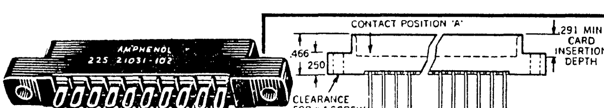
47 D 2210. 221-535 Universal Guide Pins........... Pkg. of 10 1.14

"WIRE-FORM" AND "RELIA-TAC" CONTACT TOOLS

Stock No.	Mfr's Type	Description	EACH
47 D 2188	294-188	Crimp Tool for Both Contacts	49.95
47 D 2183	294-123	Insertion Tool for Both Contacts	4.43
47 D 2184	294-137	Removal Tool for "Wire-Form"	8.32
47 D 2229	294-205	Removal Tool for "Relia-Tac"	8.32

SERIES 225 PRINTED CIRCUIT RECEPTACLES WITH EYELET OR STRAIGHT PIN TERMINATIONS

Gold-plated bifurcated ribbon contacts rated 5 amps at 600 v. AC rms. Have large mating surface to provide low contact resistance. .156" centers for .154 to .170" PC boards. Glass-filled diallyl phthalate. **Meet MIL-C-21097B.** No loss of contact position with polarizing key. Screw mount. .406" straight pin. *2 independent rows of contacts. †2 rows bridged together for single readout. Solder type terminations. Av. 2 oz.

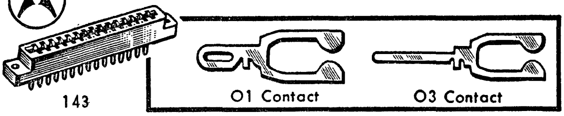


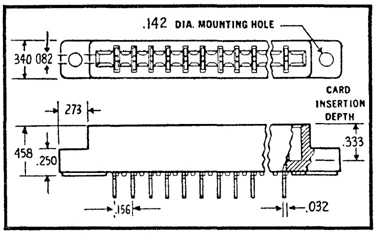
Stock No.	Type 225-	Con-tacts	Tail Style	EACH 1-49	50-99	100-249	250-999	1000-2499
47 D 2341	21021-101*	20	Eyelet	1.68	1.44	1.25	1.06	.96
47 D 2342	21521-101*	30	Eyelet	2.03	1.74	1.51	1.28	1.16
47 D 2343	21821-101*	36	Eyelet	2.56	2.19	1.90	1.61	1.46
47 D 2344	22221-101*	44	Eyelet	2.91	2.49	2.16	1.83	1.66
47 D 2345	22821-101*	56	Eyelet	3.99	3.42	2.96	2.51	2.28
47 D 2347	21021-103*	20	Pin	1.82	1.56	1.35	1.14	1.04
47 D 2348	21521-103*	30	Pin	2.31	1.98	1.72	1.45	1.32
47 D 2349	21821-103*	36	Pin	2.45	2.10	1.82	1.54	1.40
47 D 2377	22221-103*	44	Pin	3.15	2.70	2.34	1.98	1.80
47 D 2378	22821-103*	56	Pin	4.24	3.63	3.15	2.66	2.42

Stock No.	Type 225-	Con-tacts	Tail Style	EACH 1-49	50-99	100-249	250-999	1000-2499
47 D 2380	21031-101†	10	Eyelet	1.68	1.44	1.25	1.06	.96
47 D 2381	21531-101†	15	Eyelet	2.03	1.74	1.51	1.28	1.16
47 D 2382	21831-101†	18	Eyelet	2.52	2.16	1.87	1.58	1.44
47 D 2383	22231-101†	22	Eyelet	2.87	2.46	2.13	1.80	1.64
47 D 2384	22831-101†	28	Eyelet	3.96	3.39	2.94	2.49	2.26
47 D 2386	21031-103†	10	Pin	1.79	1.53	1.33	1.12	1.02
47 D 2387	21531-103†	15	Pin	2.31	1.98	1.72	1.45	1.32
47 D 2388	21831-103†	18	Pin	2.31	1.98	1.72	1.45	1.32
47 D 2389	22231-103†	22	Pin	3.12	2.67	2.31	1.96	1.78
47 D 2390	22831-103†	28	Pin	4.20	3.60	3.12	2.64	2.40

Amphenol PC, Rack & Panel, Miniature Connectors

SERIES 143 PRINTED CIRCUIT CONNECTORS

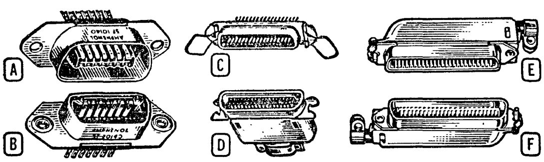




Mate with standard .054 to .070″ PC board and Series 133 plugs at right. Compact bodies are molded of diallyl phthalate dielectric. Excellent insertion characteristics. Long spring base of contact prevents "setting". Drop at 2 amps is approx. 5 millivolts. May be polarized by 143-953 key when used with 133 Series. Last 2 digits in Type No. indicate tail style. Type 01, eyelet contact; Type 03, .040x.400″ pin contact. Gold-flashed albaloy contacts. Rated 600 v. rms at 5 amps. Breakdown voltage, 5400 v. DC at sea level. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Contacts	EACH 1-49	50-99	100-249	250-999	1000-2499
47 D 1090	143-006-01	6	1.23	1.03	.86	.74	.64
47 D 0503	143-010-01	10	.83	.70	.58	.50	.44
47 D 2675	143-012-01	12	1.50	1.25	1.05	.90	.78
47 D 0500	143-015-01	15	1.08	.90	.76	.65	.57
47 D 0501	143-018-01	18	1.31	1.10	.92	.79	.69
47 D 0502	143-022-01	22	1.46	1.22	1.02	.88	.76
47 D 2850	143-006-03	6	1.29	1.08	.91	.78	.68
47 D 2851	143 010-03	10	.92	.77	.64	.55	.48
47 D 2852	143-012-03	12	1.60	1.34	1.12	.96	.84
47 D 2853	143-015-03	15	1.19	.99	.83	.71	.62
47 D 2854	143-018-03	18	1.44	1.20	1.00	.86	.75
47 D 2855	143-022-03	22	1.62	1.36	1.14	.98	.85
47 D 2676	143-953	Polar Key	.017	.017	.017	.017	....

SERIES 57 MICRO-RIBBON® MINIATURE CONNECTORS



Make possible routing of many circuits through one small connector. Inserts molded of diallyl phthalate with high-impact strength and excellent dielectric. Self-cleaning ribbon contacts gold-plated over silver. Float bushings allow .020″. Rated 5 amps, 700 v. DC.

A B Chassis-to-Chassis Connectors. Clear iridite-finished brass shells. Wire up to #22. Description above. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-249
47 D 0482	57-10140	14-Contact Plug	1.76	1.48	1.20	1.08
47 D 0485	57-20140	14-Contact Socket	1.80	1.52	1.23	1.11
47 D 0483	57-10240	24-Contact Plug	2.35	1.98	1.61	1.44
47 D 0486	57-20240	24-Contact Socket	2.40	2.02	1.64	1.47
47 D 0484	57-10360	36-Contact Plug	2.68	2.26	1.83	1.65
47 D 0487	57-20360	36-Contact Socket	2.75	2.31	1.88	1.69
47 D 0098	57-10500	50-Contact Plug	3.54	2.98	2.42	2.17
47 D 0099	57-20500	50-Contact Socket	3.59	3.02	2.45	2.20

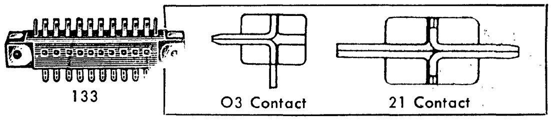
C D Cable-to-Chassis Latching Connectors. Cadmium-plated brass shells; clear chromate finish. Description above. Av. 2 oz.

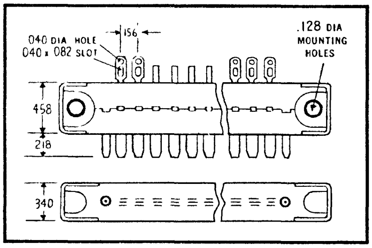
Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-249
47 D 1075	57-30140	14-Contact Plug	3.37	2.83	2.30	2.07
47 D 1079	57-40140	14-Contact Socket	2.22	1.87	1.52	1.36
47 D 1076	57-30240	24-Contact Plug	3.70	3.11	2.52	2.27
47 D 1082	57-40240	24-Contact Socket	2.64	2.22	1.80	1.62
47 D 1077	57-30360	36-Contact Plug	4.53	3.81	3.09	2.78
47 D 1083	57-40360	36-Contact Socket	2.84	2.39	1.94	1.74
47 D 1078	57-30500	50-Contact Plug	4.97	4.18	3.39	3.05
47 D 1084	57-40500	50-Contact Socket	3.72	3.13	2.54	2.28

E F Cable-to-Cable Connectors. Right-angle hoods with cable clamps and dust caps. Mate with 50-contact units above.

47 D 0173	57-10500-6	50-Cont. Plug	3.65	3.07	2.49	2.24
47 D 0182	57-20500-6	50-Cont. Socket	3.87	3.26	2.64	2.38

SERIES 133 PRINTED CIRCUIT PLUGS

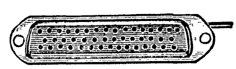




The 133 plugs mate with the 143 Series shown at left. Provide increased reliability of printed wiring connections. Molded of diallyl phthalate dielectric; have brass, cadmium-plated guide pins; cadmium-plated end caps and gold-over-albaloy-plated brass contacts. 2— 128″ holes for bolting to wiring board to insure minimum strain on dip-soldered joints. Contacts are not subject to damage by mating or unmating at angle. Last two digits in Type No. indicate tail style. Type 03 with .042″ dia. contact may be dip soldered to a board for applications similar to using the board itself for mating. Type 21 has conventional eyelet tail to allow easy cable plug-in to printed circuit boards. Two .128″ diameter holes are provided for mounting. Operating voltage rating: 600 v. rms at sea level. Current rating: 5 amps. Average breakdown voltage between contacts: 3250 volts DC at sea level. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Contacts	EACH 1-49	50-99	100-249	250-999	1000-2499
47 D 2856	133-006 21	6	1.77	1.48	1.24	1.06	.93
47 D 1085	133-010-21	10	2.00	1.67	1.40	1.20	1.05
47 D 2857	133-012-21	12	2.45	2.05	1.72	1.48	1.29
47 D 1086	133-015-21	15	2.30	1.93	1.62	1.39	1.21
47 D 1087	133-018-21	18	2.45	2.05	1.72	1.48	1.29
47 D 1088	133-022-21	22	2.66	2.23	1.87	1.60	1.40
47 D 2858	133-006-03	6	1.73	1.44	1.21	1.04	.90
47 D 2859	133-010-03	10	1.93	1.62	1.36	1.16	1.01
47 D 2860	133-012-03	12	2.04	1.71	1.43	1.23	1.07
47 D 2861	133-015-03	15	2.23	1.86	1.56	1.34	1.17
47 D 2862	133-018-03	18	2.39	2.00	1.68	1.44	1.25
47 D 2863	133-022-03	22	2.52	2.10	1.77	1.51	1.32

SERIES 17 "MIN RAC" RACK AND PANEL CONNECTORS



Miniature connectors with "Poke-Home" contacts—ideal for computers, projectors, or any rack-and-panel or module use. Zytel 101 dielectric. Contacts are gold-over-silver plated. Cadmium-plated steel shells. Rated 5 amps, 0° to 230°F. Tools for crimping, insertion, or removal of contacts below. Av. 2 oz.

SOLDER-TYPE RECEPTACLES

Stock No.	Mfr's Type	Contacts	EACH 1-9	10-49	50-99	100-249	250-499	500-999
47 D 2421	17-10090	9	1.48	1.32	1.09	.97	.81	.78
47 D 2422	17-10150	15	2.02	1.81	1.49	1.32	1.11	1.06
47 D 2423	17-10250	25	3.04	2.72	2.23	1.99	1.67	1.60
47 D 2424	17-10370	37	4.18	3.74	3.07	2.74	2.30	2.20
47 D 2425	17-10500	50	5.38	4.82	3.95	3.52	2.96	2.83

SOLDER-TYPE PLUGS

47 D 2426	17-20090	9	1.04	.93	.76	.68	.57	.55
47 D 2427	17-20150	15	1.26	1.13	.93	.83	.69	.66
47 D 2428	17-20250	25	1.82	1.63	1.34	1.19	1.00	.96
47 D 2497	17-20370	37	2.50	2.24	1.84	1.63	1.38	1.31
47 D 2498	17-20500	50	3.22	2.88	2.37	2.11	1.77	1.69

CABLE-CLAMP ASSEMBLIES

47 D 2540	17-310-01	9	1.13	.95	.76	.68	.57	.52
47 D 2541	17-311-01	15	1.18	.99	.78	.71	.59	.54
47 D 2542	17-312-01	25	1.24	1.02	.82	.74	.62	.57
47 D 2543	17-313-01	37	1.28	1.07	.86	.77	.64	.59
47 D 2544	17-314-01	50	1.31	1.09	.87	.79	.65	.60

TOOLS FOR SERIES 17 "MIN RAC" CONNECTORS

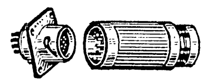
47 D 2874. Model 294-136 Crimping Tool.................124.74
47 D 2539. Model 294-155 Insertion and Removal Tool....... 13.28

Allied can supply any Amphenol connector in quantity. Write, wire or phone for price quotation on the connectors you require.

Amphenol Rack Panel and Cable Connectors

MINIATURE TYPE AN CONNECTORS

Pressureproof and weatherproof miniature AN connectors. Widely used in instrumentation and miniaturized electronic equipment. Connectors are available in two shell sizes.

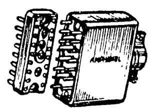


Contacts are gold over silver plating. Aluminum shells feature quick bayonet coupling. Small receptacles mount in 13/16″ hole; secure through four 1/8″ holes on 25/32″ centers. Large receptacles require 1 1/16″ hole with four 1/8″ holes on 1 5/16″ centers. Plugs are 2 1/16″ long. Small plugs are 57/64″ dia.; large plugs are 1 9/64″ in dia. Rated: 500 volts rms, except *600 volts. All have strain relief clamps. Shells are aluminum with neutral-color chromium finish. Dielectric material is diallyl phthalate. All have "O" ring seals. Av. shpg. wt., 3 oz.

Stock No.	Type No.	Contacts and Ampere Rating	Description	EACH 1-49	EACH 50-99
SMALL SHELL—5 No. 20 CONTACTS					
47 D 0595	165-33	*5 @ 7.5	Male Plug	3.73	2.94
47 D 0596	165-34	*5 @ 7.5	Female Plug	5.05	4.03
47 D 0597	165-35	*5 @ 7.5	Male Receptacle	2.64	2.11
47 D 0598	165-36	*5 @ 7.5	Female Receptacle	3.20	2.54
SMALL SHELL—9 No. 20 CONTACTS					
47 D 0579	165-13	9 @ 7.5	Male Plug	3.87	3.09
47 D 0580	165-14	9 @ 7.5	Female Plug	5.95	4.74
47 D 0581	165-15	9 @ 7.5	Male Receptacle	2.87	2.28
47 D 0582	165-16	9 @ 7.5	Female Receptacle	3.67	2.93
SMALL SHELL—12 No. 20 CONTACTS					
47 D 0575	165-9	12 @ 7.5	Male Plug	4.08	3.25
47 D 0576	165-10	12 @ 7.5	Female Plug	6.08	4.84
47 D 0577	165-11	12 @ 7.5	Male Receptacle	3.07	2.44
47 D 0578	165-12	12 @ 7.5	Female Receptacle	5.04	4.00
LARGE SHELL—24 No. 20 CONTACTS					
47 D 0587	165-25	24 @ 7.5	Male Plug	6.41	5.10
47 D 0588	165-26	24 @ 7.5	Female Plug	8.42	6.70
47 D 0589	165-27	24 @ 7.5	Male Receptacle	4.42	3.53
47 D 0590	165-28	24 @ 7.5	Female Receptacle	6.41	5.10

MULTICONTACT PLUGS AND SOCKETS

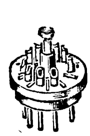
Shielded cable and chassis connectors. Nonrotating gold over silver-plated contacts. Interlocking barriers prevent shorting. 900 v., 60 cycle AC. *Insert only; all others with can. "A" in desc. column—cable type, "B"—chassis type. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Contacts #16	Contacts #20	Desc.	EACH 1-49	EACH 50-99	EACH 100-249
11 CONTACTS							
47 D 0530	126-804*	2	9	B—plug	.91	.72	.59
47 D 0531	126-805*	2	9	B—socket	.94	.74	.62
47 D 0532	126-809	2	9	A—plug	1.49	1.17	.97
47 D 0533	126-808	2	9	A—socket	1.52	1.20	1.00
15 CONTACTS							
47 D 0534	126-151*	3	12	B—plug	1.20	.95	.78
47 D 0535	126-150*	3	12	B—socket	.91	.72	.59
47 D 0536	126-152	3	12	A—plug	2.33	1.84	1.52
47 D 0537	126-153	3	12	A—socket	1.81	1.43	1.19
20 CONTACTS							
47 D 0538	126-806*	4	16	B—plug	1.44	1.13	.94
47 D 0539	126-807*	4	16	B—socket	1.15	.90	.75
47 D 0540	126-811	4	16	A—plug	2.31	1.82	1.51
47 D 0541	126-810	4	16	A—socket	2.02	1.59	1.32

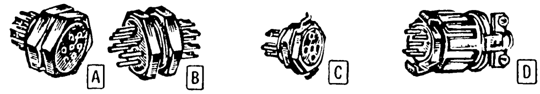
MINIATURE TYPE CP PLUGS

7 and 9 pin CP type plugs for miniature tube sockets. Molded from diallyl phthalate dielectric; incorporates a molded-in strain relief post. Utilizes retainer-ring mounting. Contacts gold over silver plating. Also available with rubber plug caps in end and side cable outlet styles. Voltage rating: 1500 v. rms at 5 amps. Overall seated height, 13/16″. Overall width: Type 86-896, 11/16″; 86-895, 55/32″; 86-897, 7/8″; 86-894, 3/4″. Pin circle diameter: for 7 pin plugs, 3/8″; for 9 pin plugs, 15/32″. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Description	EACH 1-49	EACH 50-249	EACH 250-499	EACH 500-999	EACH 1000-2499
47 D 2649	86-896	7-Pin	.93	.785	.658	.564	.501
47 D 2651	86-895	7-Pin with Cap	1.06	.886	.743	.636	.565
47 D 2652	86-897	9-Pin with Cap	1.31	1.098	.921	.789	.700
47 D 2653	86-894	7-Pin Side Outlet Cap	1.44	1.204	1.01	.865	.768

MINIATURE HEXAGON CONNECTORS



HEX NUT TYPE — LOCKING CLIP — HOOD & CLAMP

Molded of Amphenol Blue 1-501 dielectric (diallyl phthalate). Silver-base-plated contacts are gold-finished to prevent tarnishing or corrosion. All hardware is nickel-plated brass. Voltage breakdown: 2000 volts rms, 60 cps at sea level; 700 volts rms, 60 cps at 50,000 feet. Current rating, 7.5 amps. Hex-nut types are for panel mounting in 33/64″ hole. Hex-nut locking-clip type requires 25/64″ dia. mounting hole in panel. Locking-clip types mate with hood and cable-clamp types where the locking feature is required to provide strain relief for soldered connections. Locking ring on cable clamp swivels 30° for engaging with panel-mounted locking clip. Dia. of hex-nut types, 5/8″; cable-clamp types, 3/4″ (length, 1 15/16″). 5 oz.

Stock No.	Mfr's Type	Contacts	Fig.	EACH 1-49	EACH 50-99	EACH 100-249
PIN CONNECTORS						
47 D 0632	126-010	5	B	.63	.50	.41
47 D 0634	126-191	7	B	.74	.58	.48
47 D 0636	126-012	9	B	.86	.68	.56
47 D 0644	126-217	5	D	1.40	1.11	.92
47 D 0646	126-195	7	D	1.54	1.22	1.01
47 D 0648	126-220	9	D	1.66	1.31	1.09
47 D 0638	126-216	5	C	.67	.53	.44
47 D 0640	126-197	7	C	.80	.63	.53
47 D 0642	126-219	9	C	.92	.73	.60
SOCKET CONNECTORS						
47 D 0633	126-011	5	A	1.01	.80	.66
47 D 0635	126-192	7	A	1.28	1.01	.84
47 D 0637	126-013	9	A	1.59	1.26	1.04
47 D 0645	126-223	5	D	1.81	1.43	1.19
47 D 0647	126-196	7	D	2.09	1.65	1.37
47 D 0649	126-222	9	D	2.39	1.89	1.57
47 D 0639	126-218	5	C	1.08	.85	.71
47 D 0641	126-198	7	C	1.35	1.07	.89
47 D 0643	126-221	9	C	1.66	1.31	1.09

MINIATURE SPECIAL-PURPOSE CABLE CONNECTORS

Series 91: For shielded or unshielded cables. Black phenolic elements in cadmium-plated brass shells, held by set screws in side. Polarized contact spacing prevents incorrect insertion. Accommodates cables to 1/4″ dia. Suffix "L" in Type No.—long (1 3/16″); "S"—short (13/16″). Series 78: Receptacles, drawn-steel mtg. plate. Last numeral in Type No. denotes number of contacts. 2 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	EACH 25-99	EACH 100-249	EACH 250-499	EACH 500-999
47 D 0320	91-MPF3L	E	.47	.393	.33	.283	.251
47 D 0571	91-MPF3S	E	.41	.346	.291	.249	.221
47 D 0321	91-MPF4L	E	.49	.409	.343	.294	.261
47 D 0572	91-MPF4S	E	.46	.381	.320	.274	.243
47 D 0325	91-MPM3L	F	.42	.35	.293	.251	.223
47 D 0573	91-MPM3S	F	.37	.313	.263	.225	.20
47 D 0326	91-MPM4L	F	.43	.36	.302	.259	.23
47 D 0574	91-MPM4S	F	.39	.324	.272	.233	.206
47 D 0570	91-MPM5L	F	.44	.369	.31	.265	.235
47 D 0328	91-MPM6L	F	.47	.39	.327	.280	.249

Stock No.	Mfr's Type	Fig.	EACH 1-49	EACH 50-249	EACH 250-499	EACH 500-999	EACH 1000-2499
47 D 0330	78-PCG3	G	.30	.247	.207	.178	.158
47 D 0331	78-PCG4	G	.32	.275	.231	.198	.175
47 D 0332	78-PCG5	G	.37	.306	.257	.22	.195
47 D 0333	78-PCG6	G	.38	.315	.264	.226	.201

MINIATURE PLUGS

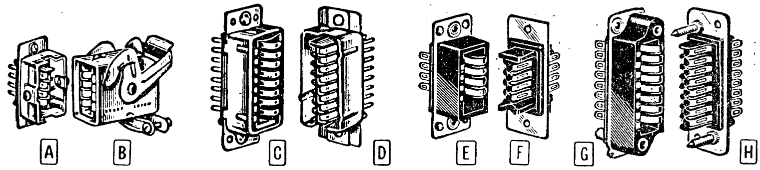
Compact, high-dielectric plugs used for limited space plug-in connections. Nickel-plated brass prongs are recessed. For cables with up to six conductors. Contacts polarized to assure proper connections. Rated 5 amps @ 500 v. Fit Amphenol Series 78-S sockets. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-49	EACH 50-249	EACH 250-499	EACH 500-999	EACH 1000-2499
47 D 0177	71-3S	3	.11	.096	.08	.069	.061
47 D 0169	71-4S	4	.14	.113	.095	.081	.072
47 D 0149	71-5S	5	.15	.122	.102	.088	.078
47 D 0179	71-6S	6	.17	.144	.121	.104	.092

Amphenol Connectors

BLUE RIBBON CONNECTORS

- Self-Cleaning Contacts
- Positive Polarization
- Heavy-Duty Applications



Outstanding heavy-duty connectors for multi-circuit connection, switching and re-routing. Exclusive self-cleaning, tarnish-proof spring contacts. Easily inserted and withdrawn—always firm, positive contact. Positive polarization prevents mismatching. Diallyl phthalate blue dielectric bodies; meet gov't specs. Stainless steel mounting plates. *End cable outlet; †side cable outlet. S in Type No. indicates socket contacts; P indicates plug contacts. For wire up to No. 16. Rated min. 5 amps at 750 v., DC.

[A] [B] SERIES 26 BARRIER POLARIZED CONNECTORS WITH KEYED LATCH SHELLS

(Fig. B) MALE

Contacts	Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249
8	47 D 0610	26-4301-8S*	6.20	5.22	4.23	3.81
8	47 D 2632	26-4501-8S†	5.74	4.83	3.92	3.52
8	47 D 2633	26-4301-8P*	5.10	4.29	3.48	3.13
8	47 D 0614	26-4501-8P†	5.10	4.29	3.48	3.13
16	47 D 0611	26-4301-16S*	6.91	5.81	4.71	4.24
16	47 D 2634	26-4501-16S†	6.91	5.81	4.71	4.24
16	47 D 2635	26-4301-16P*	6.40	5.38	4.37	3.93
16	47 D 0615	26-4501-16P†	6.40	5.38	4.37	3.93
24	47 D 0612	26-4301-24S*	7.81	6.57	5.33	4.79
24	47 D 2636	26-4501-24S†	7.81	6.57	5.33	4.79
24	47 D 2637	26-4301-24P*	7.17	6.03	4.89	4.40
24	47 D 0616	26-4501-24P†	7.17	6.03	4.89	4.40
32	47 D 0613	26-4301-32S*	8.73	7.34	5.96	5.36
32	47 D 2638	26-4501-32S†	8.62	7.25	5.88	5.29
32	47 D 2639	26-4301-32P*	7.99	6.72	5.45	4.90
32	47 D 0617	26-4501-32P†	7.99	6.72	5.45	4.90

(Fig. A) FEMALE

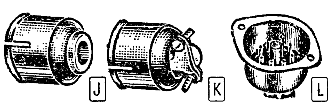
Contacts	Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249
8	47 D 0618	26-4401-8P	3.08	2.59	2.10	1.89
8	47 D 0619	26-4401-8S	3.74	3.15	2.55	2.30
16	47 D 0620	26-4401-16P	4.05	3.40	2.76	2.48
16	47 D 0621	26-4401-16S	4.58	3.85	3.12	2.81
24	47 D 0622	26-4401-24P	4.55	3.83	3.11	2.79
24	47 D 0623	26-4401-24S	5.17	4.35	3.53	3.17
32	47 D 0630	26-4401-32P	5.06	4.26	3.45	3.11
32	47 D 0631	26-4401-32S	5.83	4.90	3.98	3.58

[C] [D] SERIES 26 BARRIER POLARIZED CONNECTORS—KEYED SHELLS

Contacts	Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249
(Fig. C) FEMALE						
8	47 D 0671	26-4201-8S	2.29	1.92	1.56	1.40
16	47 D 0672	26-4201-16S	3.10	2.61	2.12	1.90
24	47 D 0673	26-4201-24S	3.72	3.13	2.54	2.28
32	47 D 0674	26-4201-32S	6.51	5.48	4.44	4.00
(Fig. D) MALE						
8	47 D 0650	26-4101-8P	1.98	1.67	1.35	1.22
16	47 D 0651	26-4101-16P	2.99	2.52	2.04	1.84
24	47 D 0652	26 4101-24P	3.45	2.90	2.36	2.12
32	47 D 0653	26-4101-32P	3.96	3.33	2.70	2.43

[G] [H] SERIES 26 PIN-POLARIZED CONNECTORS

Contacts	Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249
(Fig. G) FEMALE						
16	47 D 0545	26-190-16	2.57	2.16	1.76	1.58
24	47 D 0547	26-190-24	3.08	2.59	2.10	1.89
32	47 D 0549	26-190-32	3.63	3.05	2.48	2.23
(Fig. H) MALE						
16	47 D 0544	26-159-16	2.02	1.70	1.38	1.24
24	47 D 0546	26-159-24	2.29	1.92	1.56	1.40
32	47 D 0548	26-159-32	2.88	2.42	1.97	1.77



AC CONNECTOR ASSEMBLIES

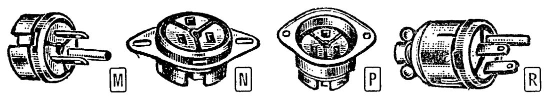
For Amphenol 61, 160, 78S and 86CP plugs and sockets. All are sturdy, drawn steel except 61-61, cadmium-plated steel shell. 61-61 shell fits 1⁷⁄₁₆″ hole; has ⁵⁄₃₂″ mtg. holes on 1¾″ ctrs.; lowers bottom of sockets, plugs and connectors 1³⁄₁₆″ below surface. Caps permit cable-to-chassis and cable-to-cable applications for 61, 78S and 86CP plugs and sockets. 3-13 has end rubber grommet for up to ⁷⁄₁₆″ cable. 3-24 has clamp for up to ⅜″ cable. 3-13 and 3-24 have black japan finish; are 1¹⁄₁₆″ long. Provide protected cable terminations.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 2537	3-13	J	Black plug cap	.14	.117	.098	.084	.074
47 D 2538	3-24	K	Black plug cap	.23	.191	.161	.138	.122
47 D 0086	61-61	L	Recessing shell	.14	.120	.101	.086	.077

[E] [F] SERIES 26 BARRIER POLARIZED CONNECTORS

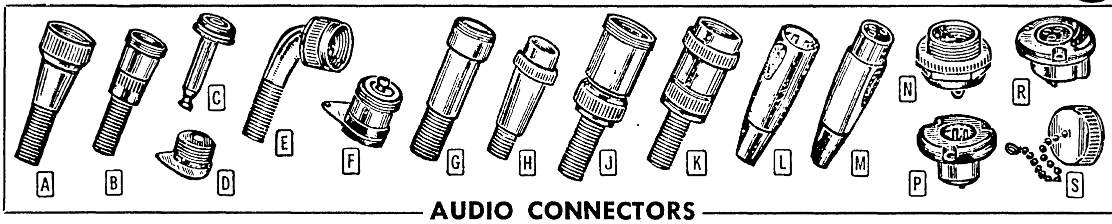
Contacts	Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249
(Fig. E) FEMALE						
8	47 D 0543	26-183	1.74	1.46	1.19	1.07
8	47 D 0664	26-4200-8S	1.65	1.39	1.13	1.01
16	47 D 0665	26-4200-16S	2.40	2.02	1.64	1.47
24	47 D 0666	26-4200-24S	2.84	2.39	1.94	1.74
32	47 D 0667	26-4200-32S	3.39	2.85	2.31	2.08
(Fig. F) MALE						
8	47 D 0542	26-182	1.10	.93	.75	.68
8	47 D 0660	26-4100-8P	1.01	.85	.69	.62
16	47 D 0661	26-4100-16P	1.89	1.59	1.29	1.16
24	47 D 0662	26-4100-24P	2.27	1.91	1.55	1.39
32	47 D 0663	26-4100-32P	2.64	2.22	1.80	1.62

STANDARD AND GROUNDING PLUGS, SOCKETS



61 series is 2 pole; 160 series is 2 pole with grounding lug. Black phenolic rated 15 amps at 120 v. AC/DC. U.L. List. except Fig. M types which mount in 1¹¹⁄₆₄″ keyed hole with retaining ring supplied. Fig. N types have molded-in mtg. plates except, §retaining-ring-mounted plate; require 1⁹⁄₃₂″ mtg. holes and have ⁵⁄₃₂″ slotted holes on 1½″ to 1⅞″ ctrs., except 61-MIP-61F, 1³⁄₁₆″ mtg. hole, ⁵⁄₃₂″ holes on 1½″ ctrs. Fig. P types mount in 1⁷⁄₁₆″ hole, have two ⁵⁄₃₂″ holes on 1¾″ ctrs. †⁷⁄₁₆″ I. D. grommet instead of ⅜″ clamp.

Stock No.	Type	Fig.	Desc.	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0675	61-M	M	male	.37	.31	.26	.223	.198
47 D 0677	61-F	M	female	.37	.308	.258	.221	.196
47 D 2522	160-10	M	female	.85	.71	.596	.51	.453
47 D 2523	160-11	M	male	1.01	.846	.710	.608	.539
47 D 0680	61-M1	N	§male	.46	.388	.326	.279	.248
47 D 0682	61-F1	N	§female	.44	.369	.31	.265	.235
47 D 2524	160-2	N	female	.93	.78	.654	.56	.497
47 D 2525	160-3	N	male	1.10	.92	.772	.661	.587
47 D 0085	61-MIP-61F	N	female	.40	.331	.277	.238	.211
47 D 0685	61-M10	P	male	.57	.473	.397	.34	.302
47 D 0687	61-F10	P	female	.56	.472	.396	.339	.301
47 D 2526	160-4	P	female	1.08	.903	.758	.649	.576
47 D 2527	160-5	P	male	1.25	1.05	.88	.754	.669
47 D 2528	160-6	†R	female	.98	.816	.685	.586	.521
47 D 2529	160-7	†R	male	1.14	.95	.797	.683	.606
47 D 2535	160-8	R	female	1.06	.882	.74	.634	.563
47 D 2536	160-9	R	male	1.22	1.02	.853	.73	.648



AUDIO CONNECTORS

Receptacles are for chassis mounting; plugs and jacks are used on cables. Plugs fit either jacks or receptacles.

SERIES 75 SINGLE-BUTTON-CONTACT TYPES

Standard connectors with ⅝", 27 threads. Types marked with * require ⅜" mtg. holes. Types marked with †are miniature connectors approximately half the size and weight of standard counterparts with same specifications.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-99	100-249	250-499	500-999
47 D 1958	75 MC1F	A	Cable plug	.64	.532	.447	.383	.340
47 D 1955	75 MC1M	B	Cable jack	.46	.381	.32	.274	.243
47 D 1962	75 MC1P	C	Phone plug adap.	.52	.433	.364	.311	.276
47 D 1965	*75 PC1M	D	Receptacle open	.41	.346	.291	.249	.221
47 D 1959	75 MC1FA	E	90° cable jack	1.31	1.09	.917	.785	.697
47 D 1967	*75 CL PC1M	F	Recept., short'g	.67	.562	.472	.404	.359
47 D 2658	†75 1	A	Straight cable plug	.40	.336	.282	.241	.214
47 D 2659	†75 2	B	Cable jack	.28	.235	.197	.169	.150
47 D 2660	†75 3	F	Locknut receptacle	.50	.416	.349	.299	.265

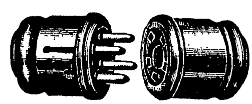
SERIES 80 SINGLE AND DOUBLE-PIN-CONTACT TYPES

For shielded cables, single and two-conductor coaxial cables, photo cell leads, etc. Center contacts are pin and socket type. *Single-contact. †Polarized, double-contact.

Stock No.	Mfr's Type	Fig.	Description	1-24	25-99	100-249	250-499	500-999
47 D 2084	*80 C	N	Female receptacle	.54	.447	.375	.321	.285
47 D 2661	*80 C1	P	Male receptacle	.55	.461	.387	.331	.294
47 D 2662	*80-F1	H	Female cable plug	.69	.576	.483	.414	.367
47 D 2081	*80-M	H	Male cable plug	.67	.559	.469	.401	.356
47 D 2663	*80-M1	G	Male cable jack	.62	.522	.438	.375	.333
47 D 2082	†80-MC2F	G	Female cable jack	.71	.59	.495	.424	.376
47 D 2664	†80-MC2F1	H	Female cable plug	.75	.626	.526	.45	.40
47 D 2083	†80-MC2M	H	Male cable plug	.69	.574	.482	.413	.366
47 D 2665	†80-MC2M1	G	Male cable jack	.65	.539	.453	.388	.344
47 D 2085	†80-PC2F	N	Female receptacle	.60	.498	.418	.358	.317
47 D 2666	†80 PC2M	N	Male receptacle	.57	.477	.40	.343	.304

[S] **Type 75-CCC1 Cap and Chain.** Seals open chassis units against dirt. Used with Series 75 and 80 receptacles.
47 D 0381. 1-24....................................Each **.45**
25-99.................**Each .374** 100-249..............**Each .314**

SERIES 78 AND 86 MULTI-WIRE CONNECTORS



Matching male and female protected terminals with unbreakable metal caps. Accommodate cables up to ⅜". Cap can be removed with a screwdriver. PF and PM 8 are octal. PF9, PM9, PF11, PM11, octal style. PF and PM 7S have small contacts. 86-PM12 and 86-PM20 fit Amphenol 77MIP12 and 77MIP20 sockets; use 3-13 plug cap. $1\frac{3}{16}$x$1\frac{3}{32}$".

FEMALE

Stock No.	Mfr's Type	Contacts	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0524	78-PF4	4	.39	.324	.272	.233	.206
47 D 0525	78-PF5	5	.41	.339	.285	.244	.216
47 D 0526	78-PF6	6	.42	.355	.298	.255	.226
47 D 0527	78-PF7S	7S	.45	.372	.312	.268	.238
47 D 0528	78-PF8	8	.41	.345	.289	.248	.220
47 D 0516	78-PF9	9	.44	.365	.307	.263	.233
47 D 0517	78-PF11	11	.48	.398	.334	.286	.254

MALE

Stock No.	Mfr's Type	Contacts	1-49	50-249	250-499	500-999	1000-2499
47 D 0504	86-PM4	4	.43	.358	.301	.258	.229
47 D 0505	86-PM5	5	.43	.362	.304	.260	.231
47 D 0506	86-PM6	6	.45	.376	.315	.270	.240
47 D 0507	86-PM7S	7S	.46	.383	.321	.275	.244
47 D 0508	86-PM8	8	.45	.378	.317	.271	.241
47 D 0512	86-PM9	9	.46	.385	.323	.276	.245
47 D 0513	86-PM11	11	.47	.392	.329	.281	.250
47 D 2655	86-PM12	12	.47	.397	.333	.285	.253

Amphenol Cable Clamp Type 79-CC4. For above connectors. Relieves strain on soldered connections.
47 D 0670. 1-24........**Each .09** 25-99 ....**Each .08**
100-249.....**Ea. .063** 250-499.....**Ea. .054** 500-999.....**Ea. .048**

SERIES 91—3, 4 AND 6-CONTACT TYPES

Microphone connectors for portable equipment. Polarized to eliminate incorrect insertions. Clamps eliminate stress on soldered connections *3-contact type. †4-contact type. ‡6 contact type.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-99	100-249	250-499	500-999
47 D 1970	*91-MC3F	J	Female cable jack	1.07	.893	.749	.641	.569
47 D 2667	*91-MC3F1	K	Female cable plug	1.10	.919	.771	.66	.586
47 D 1971	*91-MC3M	K	Male cable plug	1.01	.846	.71	.608	.539
47 D 2668	*91-MC3M1	J	Male cable jack	.97	.814	.683	.585	.519
47 D 1972	*91-PC3F	N	Female receptacle	.73	.614	.515	.441	.392
47 D 2669	*91-PC3M	N	Male receptacle	1.14	.954	.80	.685	.608
47 D 1977	†91-MC4F	J	Female cable jack	1.10	.922	.774	.663	.588
47 D 2670	†91-MC4F1	K	Female cable plug	1.14	.954	.80	.685	.608
47 D 1976	†91-MC4M	K	Male cable plug	1.03	.86	.721	.618	.548
47 D 2672	†91-MC4M1	J	Male cable jack	.99	.827	.694	.594	.527
47 D 1978	†91-PC4F	N	Female receptacle	.72	.602	.505	.433	.384
47 D 2673	†91-PC4M	N	Male receptacle	.98	.818	.686	.588	.522
47 D 0170	‡91-MC6F	J	Female cable jack	1.15	.964	.809	.693	.615
47 D 0171	‡91-MC6M	K	Male cable plug	1.12	.94	.788	.675	.599
47 D 0172	‡91-PC6F	N	Female receptacle	.73	.614	.515	.441	.392

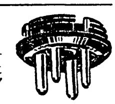
SERIES 91 "QUIK" 3 AND 4-CONTACT TYPES

Locked connection made by inserting plug in jack; released by light pressure on lock button. Gold-plated (over silver) bronze contacts. *3-contact type. †4-contact type.

Stock No.	Mfr's Type	Fig.	Description	1-24	25-99	100-249	250-499	500-999
47 D 2065	*91-853	L	Male cable plug	1.73	1.45	1.22	1.04	.925
47 D 2066	*91-854	M	Female cable plug	2.27	1.90	1.59	1.36	1.21
47 D 2067	*91-855	P	Male receptacle	1.38	1.15	.968	.829	.736
47 D 2068	*91-856	R	Female receptacle	3.14	2.63	2.21	1.89	1.68
47 D 2069	†91-857	L	Male cable plug	1.82	1.52	1.28	1.09	.97
47 D 2070	†91-858	M	Female cable plug	2.52	2.11	1.77	1.51	1.34
47 D 2071	†91-859	P	Male receptacle	1.49	1.24	1.04	.894	.794
47 D 2072	†91-860	R	Female receptacle	3.37	2.82	2.37	2.03	1.80

[S] **Type 91-CCC3 Cap and Chain.** Effectively seals open chassis units against harmful dirt and dust. Designed for use with Series 91 connectors.
47 D 2674. 1-24..**Each .48**
25-99................**Each .404** 100-249.............**Each .339**

SERIES 86 STANDARD TYPE CP PLUGS



Bakelite plugs for use as chassis connectors. Retainer-ring mounting. Use adapter plate below for replacement mtg. With mtg. ring for $1\frac{11}{64}$" holes except *$1\frac{21}{64}$" keyed hole. †Have guide post and aligning key.

Stock No.	Mfr's Type	Pins	EACH 1-99	100-249	250-499	500-999	1000-2499
47 D 0015	86-CP4	4	.22	.181	.152	.13	.115
47 D 0016	86-CP5	5	.22	.184	.155	.133	.118
47 D 0017	86-CP6	6	.24	.198	.166	.143	.127
47 D 0018	86-CP7L*	7-Large	.27	.223	.187	.16	.142
47 D 0019	86-CP7S	7-Small	.25	.205	.172	.148	.131
47 D 0020	86-CP8†	Octal	.24	.20	.168	.144	.128
47 D 0021	86-CP9†	9	.25	.207	.174	.149	.132
47 D 0022	86-CP11†	11	.26	.214	.18	.154	.137
47 D 2654	86-CP12†	12	.26	.219	.184	.158	.140

Adapter Plate Type 12-001-03. Nickel-plated steel. For all Type CP plugs above except 86-CP7L. $1\frac{1}{2}$" to $1\frac{7}{8}$" centers.
47 D 0023..**.05**

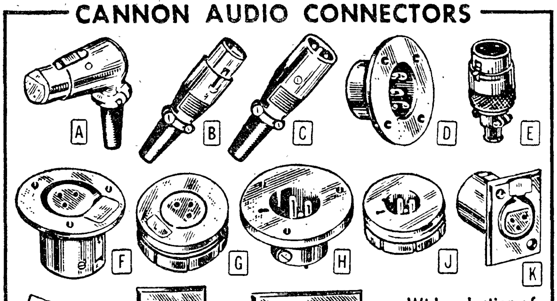
EIMAC PREFORMED CONTACT FINGER STOCK

36" strips of silver-plated spring material slotted and formed into a series of fingers for making sliding contacts. Ideal for connections with terminals or moving parts. 12 oz. per strip.

Stock No.	Mfr's Type	Width	Description	EACH
47 D 2086	CF-100	$\frac{17}{32}$"	Spooned	5.35
47 D 2087	CF-300	$\frac{31}{32}$"	Reverse radius finger tip	5.80
47 D 2088	CF-500	$1\frac{3}{8}$"	Reverse radius finger tip	6.20

I.T.T. Cannon and Elco Connectors

CANNON AUDIO CONNECTORS



Wide selection of small male and female three and four-contact audio connectors with satin-nickel finish.

3 and 4-contact connectors with clamp and resilient socket insulator. Integral cable-clamp and push-action latchlock. First digit in Mfr's Type shows no. of contacts. 3—15-amp, or 4—10-amp contacts. *Wall-type receptacles; †panel-type receptacles. Av. wt., 4 oz.

90-DEGREE PLUGS

Stock No.	Mfr's Type	Fig.	Description	1-9 EA.	10-49 EA.	50-99 EA.
47 D 0948	XLR-3-15	A	Female (socket insert)	3.38	3.10	2.82
47 D 0949	XLR-4-15	A	Female (socket insert)	3.41	3.13	2.85

STRAIGHT CORD PLUGS

Stock No.	Mfr's Type	Fig.	Description	1-9 EA.	10-49 EA.	50-99 EA.
47 D 0790	XLR-3-11C	B	Female (socket insert)	1.29	1.18	1.08
47 D 0983	XLR-3-11SC	B	As above, steel shell.	3.49	3.20	2.91
47 D 1212	XLR-4-11C	B	Female (socket insert)	1.64	1.50	1.37
47 D 0984	XLR-4-11SC	B	As above, steel shell.	3.55	3.26	2.96
47 D 0791	XLR-3-12C	C	Male (pin insert)	1.13	1.03	.94
47 D 0985	XLR-3-12SC	C	As above, steel shell.	2.68	2.55	2.32
47 D 1213	XLR-4-12C	C	Male (pin insert)	1.20	1.10	1.00
47 D 0986	XLR-4-12SC	C	As above, steel shell.	2.87	2.63	2.39

WALL AND PANEL RECEPTACLES

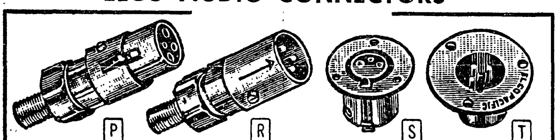
Stock No.	Mfr's Type	Fig.	Description	1-9 EA.	10-49 EA.	50-99 EA.
47 D 1214	XLR-3-13*	F	Female (socket insert)	1.85	1.70	1.55
47 D 1215	XLR-4-13*	F	Female (socket insert)	1.93	1.77	1.61
47 D 1216	XLR-3-13N†	G	Female (socket insert)	2.14	1.96	1.78
47 D 1217	XLR-4-13N†	G	Female (socket insert)	2.20	2.02	1.84
47 D 1218	XLR-3-14*	H	Male (pin insert)	.83	.76	.70
47 D 1219	XLR-4-14*	H	Male (pin insert)	.87	.80	.73
47 D 1223	XLR-3-14N†	J	Male (pin insert)	1.73	1.59	1.45
47 D 1224	XLR-4-14N†	J	Male (pin insert)	1.87	1.71	1.56
47 D 0792	XLR-3-31*	K	Female (socket insert)	1.93	1.77	1.61
47 D 1225	XLR-4-31*	K	Female (socket insert)	1.99	1.82	1.66
47 D 0793	XLR-3-32*	L	Male (pin insert)	1.10	1.01	.92
47 D 1226	XLR-4-32*	L	Male (pin insert)	1.22	1.12	1.02
47 D 0987	XLR-3-35*	M	Female (socket insert)	4.03	3.70	3.36
47 D 0988	XLR-3-35-2G*	N	As above. Dual ganged.	7.42	6.80	6.18

TYPE P 3-CONTACT RECEPTACLES AND PLUGS

For up to No. 10 wires. 30-amp contacts. Av. wt., 4 oz.

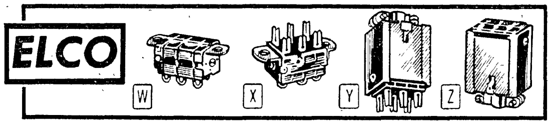
Stock No.	Mfr's Type	Fig.	Description	1-9 EA.	10-49 EA.	50-99 EA.
47 D 0707	P3-13	D	Wall socket, female	3.68	3.38	3.07
47 D 0757	P3-14	D	Wall mount, male (pin)	2.19	2.01	1.83
47 D 0724	P3-CG-11S	E	Cable plug, female (skt)	4.16	3.81	3.47
47 D 0701	P3-CG-12S	E	Cable plug, male (pin)	3.40	3.12	2.84

ELCO AUDIO CONNECTORS



Cable, Panel Audio and General-Purpose Connectors. Have satin-finished, nickel-plated zinc shells featuring positive key and groove polarization and push-action latch-lock. Silver-plated contacts rated 300 VAC. Have 3 contacts for #14 wire; rated 15 amps. Cable-type connectors take up to 5/16" dia. wire.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-24	25-99	100-249
47 D 1145	00-2214-003	P	Cable-type, fem.	1.23	1.10	1.02	.82
47 D 1146	00-2216-003	R	Cable-type, male	1.22	1.08	.98	.79
47 D 1147	00-2215-003	S	Panel-type, fem.	1.23	1.10	1.02	.82
47 D 1148	00-2213-003	T	Panel-type, male	.96	.87	.79	.64



"VARICON® CONNECTORS"

Designed primarily for quick and easy soldering of wire, or for solderless connections to contacts. Connectors with almost any number of contacts can be assembled from standard Varicon components. Identical fork-like contacts for female and male connectors have wiping action that remains positive under all operating conditions. Full-length 45° bevel provides greater contact area. Contacts cannot be overstressed or overstrained. They maintain continuous pressure, unaffected by insertions and withdrawals. Polarity combinations can be varied on individual units with same number of contacts, preventing accidental mating of dissimilar combinations. Miniature size makes them ideal for restricted areas.

PANEL, CHASSIS AND CABLE CONNECTORS

All have nickel-silver contacts. Rated: 9 amps at 115 volts; 2000 volts test. Figs. X and Y are male; Figs. W and Z are female. *Indicates each end section is 1/16" thicker for extra strength and durability. U.L. Listed. Blue-black vinyl finish. Av. wt., 3 oz.

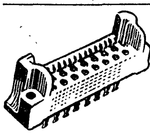
RECEPTACLES WITH BRACKET FOR CHASSIS OR PANELS

Stock No.	Mfr's Type	Fig.	Contacts	EACH 1-49	50-99	100-249	250-499
47 D 5564	01-1104-111	X	4	.32	.28	.20	.17
47 D 5565	01-1108-111	X	8	.49	.41	.31	.22
47 D 5566	01-2112-111*	X	12	.73	.61	.46	.38
47 D 5567	01-2118-111*	X	18	1.12	.94	.71	.60
47 D 5571	01-3104-111	W	4	.31	.26	.19	.17
47 D 5572	01-3108-111	W	8	.46	.38	.29	.24
47 D 5573	01-4112-111*	W	12	.67	.56	.43	.36
47 D 5574	01-4118-111*	W	18	1.03	.86	.65	.55

COVERED PLUGS WITH CABLE CLAMP

All have top outlet except † has side outlet.

Stock No.	Mfr's Type	Fig.	Contacts	EACH 1-49	50-99	100-249	250-499
47 D 5578	01-1104-105†	Y	4	.62	.52	.40	.34
47 D 5579	01-1108-104	Y	8	.78	.66	.49	.42
47 D 5580	01-2112-104*	Y	12	1.10	.92	.71	.59
47 D 5581	01-2118-104*	Y	18	1.62	1.36	1.03	.86
47 D 5585	01-3104-105	Z	4	.60	.50	.38	.32
47 D 5586	01-3108-104†	Z	8	.76	.64	.48	.41
47 D 5587	01-4112-104*	Z	12	1.06	.89	.67	.56
47 D 5588	01-4118-104*	Z	18	1.54	1.28	.97	.82



7008 RECEPTACLES AND 7022 PLUGS

Series 7008 Receptacles. Double row of contacts, .125" between rows, .200" centers within each row. Rows offset .100". Gold flashed contacts. Term.: .098" base taper tab with wire hole. For 1/16" P.C. card. Av. wt., 4 oz.

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	100-249	250-999
47 D 5471	00-7008-029-163-001	29	4.33	2.89	2.41
47 D 5473	00-7008-035-163-001	35	4.91	3.27	2.73
47 D 5442	50-5006.3414	Pol. Tab	.015	.015	.015

Series 7022 **Plug.** For Series 7008 Receptacles above.

Stock No.	Mfr's Type	Contacts	EACH 1-99	100-249
47 D 5621	00-7022-029-000-001	29	2.24	1.82
47 D 5622	00-7022-035-000-001	35	2.57	2.08

HAND STAKER AND HAND CRIMPER

Model 56-061856-01 Hand Staker. (Not illus.) Designed specifically for staking Varicon contact in lab, model shop and prototype applications. 1/4-ton rating. Ram dimensions: 1/2x1/2x21/2". Ram stroke: 13/16". Height of opening: 11/8". Throat depth from center of ram: 1". Working surface: 2x27/8". Shpg. wt., 3 lbs.

47 D 5459 .... 35.00

Model 56-067515-01 Hand Crimper. (Not illustrated.) This hand crimper is designed for the Varilok contact # 50-8017-0313 in lab, model shop and prototype applications. Shpg. wt., 3 lbs.

47 D 5439 .... 37.50

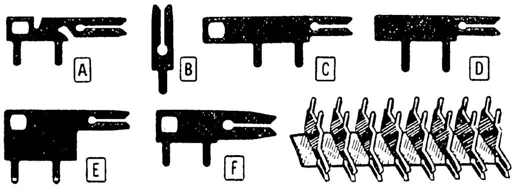
VARICON HEATING PLATEN

Model 56-061751-02. (Not illus.) Varicon P.C. contact is supplied on plastic strips to facilitate handling and staking to cards. This heating platen is designed for easy removal of the plastic strips after staking and soldering is completed. 10" long. For 110-120 volts, AC-DC. Shpg. wt., 5 lbs.

47 D 5461 .... 35.00

Elco Varicon® and Varitwin Pin Connectors

VARICON BOARD-TO-BOARD CONNECTORS



Contacts on strip

PATTERN TYPES

TYPE 5 | | | | | | | | 1 Straight Row - Contacts Parallel.

TYPE 6 / / / / / / / / 1 Row of Contacts Mounted at 45° Angle.

Varicon Contact Strips. 30 contacts mounted on a plastic strip with .200″ spacing. Varicon fork-like contacts have four mating coined surfaces. Made of phosphor-bronze, contacts are nickel plated and gold-flashed. Rated at 5 amps. *Pattern Type. Av. shpg. wt., 2 oz.

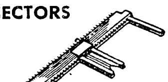
Stock No.	Mfr's Type	Fig.	*	Description	EACH 1-833
47 D 5400	02-030-111-5200	A	5	45° for 1/16″ Board	1.05
47 D 5402	02-030-113-6200	B	6	Stand-off for 1/16″	1.05
47 D 5403	02-030-114-6200	B	6	Stand-off for 3/32″	1.05
47 D 5404	02-030-115-6200	B	6	Stand-off for 1/8″	1.05
47 D 5405	02-030-135-5200	C	5	Lower Board 1/16″	1.05
47 D 5406	02-030-147-5200	D	5	Lower Board less wire hole	1.05
47 D 5409	02-030-137-5200	E	5	Upper Board 1/16″	1.20
47 D 5411	02-030-013-5200	F	5	Plug—Ser. 5000 1/16″	1.05

Guide Pins and Brackets. Series 5101 brackets are mounted either to the mother or module board with furnished eyelets. Series 5201 brackets are for mounting to mother board.

Stock No.	Mfr's Type	Description	For PC Board	EACH
47 D 5637	52-5101.4012	Guide Bracket	1/16″	.038
47 D 5639	52-5201.4012	Rt. Guide Bracket	1/16″	.048
47 D 5640	52-5201.4022	Left Guide Bracket	1/16″	.048
47 D 5643	52-5301.4012	Female Guide Pin	1/16″	.05
47 D 5644	52-5301.4112	Male Guide Pin	1/16″	.05

MINIATURE VARICON CONNECTORS

For 1/16″ module cards. Can be polarized without losing contact. Long molded card guides. Series 5023 shown with center guide (sold less guide). When guide is used, 2 14-contact receptacles are formed. *Less contacts, below.



5023

SERIES 5023 RECEPTACLES

Single row of contacts on .200″ ctrs. Two .128″ dia. mtg. holes.

Stock No.	Mfr's Type 00-5023-	Contact Type	No. of Contacts	EACH 1-99	100-249
47 D 5327	014-217-001	Wire Hole	14	3.15	2.34
47 D 5328	033-217-001	Wire Hole	33	4.46	2.97
47 D 5329	014-000-001	Varilok*	14	1.58	.95
47 D 5330	033-000-001	Varilok*	33	1.84	1.10

50-5023.3117 Center Guide. For 33-contact size only.
47 D 5339 .... .28

TABS AND CONTACTS

Stock No.	Mfr's Type	Description	EACH
47 D 5442	50-5006.3414	Polarizing Tab	.015
47 D 5823	50-8017.0313	Varilok Contact (Pkg. of 100)	6.00

SERIES 5200 PLUGS

For 5023 Receptacle above. Supplied on disposable plastic strip.

47 D 5331	02-014-013-5200	14-contact plug	.49
47 D 5332	02-033-013-5200	33-contact plug	1.16

SERIES 7020 RECEPTACLES

Double row of contacts on .200 ctrs. Rows .125″ apart off-set .100″ from each other. 51 contact size. Have two .150″ mtg. holes. Wire-hole terminations.

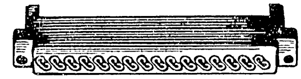
Stock No.	Mfr's Type	Description	1-99, Ea.	100-249, Ea.
47 D 5333	00-7020-051-158	Receptacle	5.25	3.95
47 D 5334	50-7020.3219	Polarizing Tab	.015	.015

SERIES 5200 PLUGS

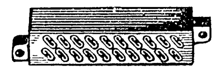
For 7020 Receptacle above. Supplied on disposable plastic strip.

47 D 5335	02-025-137-5200	Upper board	1.00	1.00
47 D 5336	02-026-135-5200	Lower board	.91	.91

VARITWIN-PIN TAPER-PIN RECEPTACLES

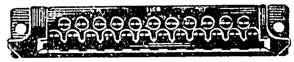


5011-Bottom



7014-Bottom

Each Contact Accepts Two Series 53 Taper Pins



7009 & 7012 - Top

These Elco receptacles (per MIL-C-21097B and MIL-E-19600) feature Varitwin-Pin bifurcated contact terminations and guides that are integrally molded into the end sections. Mounting holes are .128″ diameter. Each receptacle consists of two rows of contacts, spaced .200″ within each row. Rows are .125″ apart and offset .100″ from each other. Accept a 1/16″ printed circuit card. Can be polarized without losing contact. Phosphor-bronze contacts are nickel-plated and gold-flashed. Rated 10 amps. Insulation: Diallyl phthalate, glass-filled per MIL-M-14F Type SDGF. Av. shpg. wt., 6 oz.

SERIES 5011

Has one row of contacts on .200″ spacing, allowing .200″ spacing of contacts on 1/16″ module card. With board guides.

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	100-249
47 D 5736	00-5011-016-193-001	16	4.28	2.85

SERIES 7009

Permits mounting of adjacent receptacles on .600″ centers. *Supplied without board guides. †Polarizing tab.

47 D 5430	00-7009-024-193-001	24	6.81	4.54
47 D 5431	00-7009-034-193-001	34	7.43	4.95
47 D 5755	00-7009-034-193-002*	34	7.43	4.95
47 D 5434	00-7009-040-193-001	40	8.17	5.45
47 D 5756	00-7009-040-193-002*	40	8.17	5.45
47 D 5442	†50-5006.3414	....	.015	.015

SERIES 7012 Supplied only with board guides.

47 D 5724	00-7012-023-193-001	23	6.81	4.54
47 D 5725	00-7012-035-193-001	35	7.68	5.12
47 D 5726	00-7012-047-193-001	47	8.67	5.78

SERIES 7014

Straight through, open-end card slot. Supplied without card guides.

47 D 5727	00-7014-020-193-000	20	6.56	4.38

PLUGS FOR VARITWIN-PIN RECEPTACLES

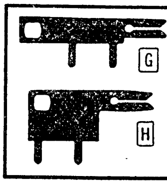
Plugs consist of Varicon contacts, staked and soldered in P.C. module cards. Mounted on plastic strip.

SERIES 5011

Hole pattern lies on .200″ grid. ±.003″ tolerance, non-accumulative. Hole diameter is .052″; plus .000; minus .004″.

Stock No.	Mfr's Type	Contacts	1-999, Ea.
47 D 5737	02-016-013-5200	16	.56

VARITWIN-PIN RECEPTACLE PLUGS



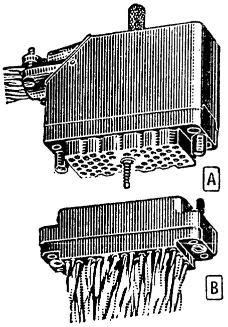
Series 7000 and 7015. Hole pattern lies on .100″ grid. ±.003″ tolerance, non-accumulative. Hole dia., .052″; plus .000″; minus .004″. Contacts, imbedded in plastic strip, are staked to printed circuit module cards. Staking provides mechanical support of contacts; increases reliability. Two contact strips required: one lower tier, and one upper tier. Fig. G, lower; H, upper.

Stock No.	Contacts	Mfr's Type	Tier	1-999, EA.
47 D 5800	17	02-009-135-5200	Lower	.32
47 D 5801		02-008-137-5200	Upper	.32
47 D 5805	20	02-010-135-5200	Lower	.35
47 D 5806		02-010-137-5200	Upper	.40
47 D 5807	23	02-012-135-5200	Lower	.42
47 D 5808		02-011-137-5200	Upper	.44
47 D 5807	24	02-012-135-5200	Lower	.42
47 D 5809		02-012-137-5200	Upper	.48
47 D 5802	29	02-015-135-5200	Lower	.53
47 D 5803		02-014-137-5200	Upper	.56
47 D 5810	34	02-017-135-5200	Lower	.60
47 D 5811		02-017-137-5200	Upper	.68
47 D 5812	35	02-018-135-5200	Lower	.63
47 D 5811		02-017-137-5200	Upper	.68
47 D 5815	40	02-020-135-5200	Lower	.70
47 D 5816		02-020-137-5200	Upper	.80
47 D 5804	41	02-021-135-5200	Lower	.74
47 D 5816		02-020-137-5200	Upper	.80
47 D 5817	47	02-024-135-5200	Lower	.84
47 D 5818		02-023-137-5200	Upper	.92

See Page 264 for Tools to Use with Above Connectors

Elco Varilok™ Contacts and Connectors

SERIES 8016 RACK AND PANEL CONNECTORS



High-density cable and chassis connectors that use famous Varilok crimp-type contact (full description of Varilok contact, bottom of page at right). Two sizes of insulators are available for 38 or 56 contacts. Series 8016 features single, center actuating screw, instead of one at each end. All plug contacts recessed in molded rim to ensure maximum protection from damage. Cable clamp on cover available for top or side entrance. Connectors can be polarized in 36 positions Insulator is polycarbonate thermoplastic. Contact rating, 10 amps. In table below, under Lock, FN indicates nut; AS, actuating screw. *Number of contacts. **Varilok contact must be ordered separately (see facing page). See inside back cover for new additions to 8016 series.** 8 oz.

[A] RECEPTACLES (Less Cover)

Stock No.	Mfr's Type	Lock	*	EACH 1-99	EACH 100-249
47 D 5711	00-8016-056-000-007	FN	56	1.58	1.37
47 D 5713	00-8016-056-000-008	AS	56	2.09	1.81
47 D 5708	00-8016-038-000-007	FN	38	1.45	1.25
47 D 5710	00-8016-038-000-008	AS	38	1.95	1.69

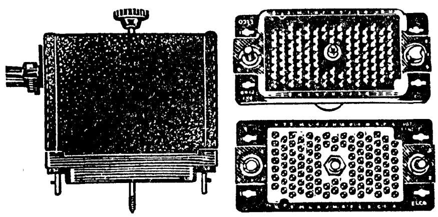
[B] PLUGS (Less Cover Assembly)

Stock No.	Mfr's Type	Lock	*	EACH 1-99	EACH 100-249
47 D 5700	00-8016-038-000-001	AS	38	1.95	1.69
47 D 5702	00-8016-038-000-002	FN	38	1.45	1.25
47 D 5704	00-8016-056-000-001	AS	56	2.09	1.81
47 D 5706	00-8016-056-000-002	FN	56	1.58	1.37

COVER ASSEMBLIES

Stock No.	Mfr's Type	Cable Clamp Mounting	Size	EACH 1-99	EACH 100-249
47 D 5715	00-8016-038-000-100	Side	38	1.90	1.65
47 D 5716	00-8016-038-000-101	Top	38	1.90	1.65
47 D 5717	00-8016-056-000-100	Top	56	1.90	1.65
47 D 5718	00-8016-056-000-101	Side	56	1.90	1.65

SERIES 8017 RACK AND PANEL CONNECTORS



Plug—Side View with Actuating Screw

Series 8017 connectors offer exceptionally high contact density. Accept the Varilok crimp-type contact (described in full, bottom of page at right). Feature a single, center actuating screw. Units with actuating screw or actuating nut supplied with cover having side cable entrance. Guide-pin-and-guide-socket provides 36 possible polarization positions. The insulator is made of glass-filled diallylphthalate. Contact rating. 10 amps. *Plug with actuating screw. †Plug with fixed screw. ‡Receptacle with actuating nut. §Receptacle with fixed nut. **Varilok contact must be ordered separately (see bottom of page at right).** Av. wt., 1 lb.

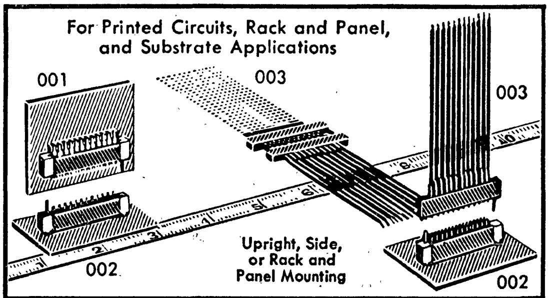
PLUGS

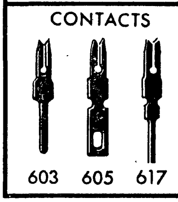
Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	EACH 100-249
47 D 5457	00-8017-075-000-004*	75	7.75	4.85
47 D 5649	00-8017-075-000-002†	75	5.00	2.80
47 D 5464	00-8017-100-000-004*	100	8.00	5.05

RECEPTACLES

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	EACH 100-249
47 D 5458	00-8017-075-000-007§	75	5.90	3.30
47 D 5650	00-8017-075-000-012‡	75	10.15	6.20
47 D 5481	00-8017-100-000-007§	100	6.15	3.45

SERIES 8129 SUBMINIATURE VARICON® CONNECTORS





For printed circuit, flexible cable, rack and panel, substrate applications. One-piece diallyl phthalate insulator. Pin and socket arrangement for guidance and polarization. Single row of contacts on .100″ spacing. 3 types (illus., left): Type 603 (upright mounting) and Type 617 (side mounting) have printed circuit termination for cards to 3/32″; Type 605 (rack and panel) has wire-hole taper tab for .078″ base tab. Tabs can be bent as required for installation.

WITH SIDE-MOUNTING BRACKETS FOR RECESSED MOUNTING

Stock No.	Mfr's Type 00-8129-	Contact Type	No. of Contacts	EACH 1-99	EACH 100-249
47 D 5819	006-617-001	617	6	.82	.65
47 D 5820	009-617-001	617	9	.90	.72
47 D 5821	012-617-001	617	12	.95	.78
47 D 5822	015-617-001	617	15	1.00	.80

WITH UPRIGHT MOUNTING BRACKETS

Stock No.	Mfr's Type 00-8129-	Contact Type	No. of Contacts	EACH 1-99	EACH 100-249
47 D 5765	006-603-002	603	6	.82	.65
47 D 5766	009-603-002	603	9	.90	.72
47 D 5767	012-603-002	603	12	.95	.78
47 D 5768	015-603-002	603	15	1.00	.80

WITHOUT MOUNTING BRACKETS

Stock No.	Mfr's Type 00-8129-	Contact Type	No. of Contacts	EACH 1-99	EACH 100-249
47 D 5769	006-603-003	603	6	.68	.54
47 D 5770	009-603-003	603	9	.77	.61
47 D 5771	012-603-003	603	12	.82	.65
47 D 5772	015-603-003	603	15	.87	.69
47 D 5773	006-605-003	605	6	.68	.54
47 D 5774	009-605-003	605	9	.77	.61
47 D 5775	012-605-003	605	12	.82	.65
47 D 5776	015-605-003	605	15	.87	.69

47 D 5785. Model 50-8129. 4311 Polarizing Pin. Takes up one contact position...**.10**

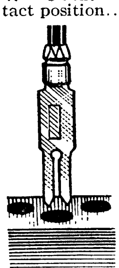
NEW VARILOK 7038 MIL RECEPTACLES

New military version of the Type 7038 receptacle on the facing page. Materials and dimensions designed to conform to MIL-C-21097/20. Polarized at even positions. Made to work with all 1/16″ printed circuit cards. **Contacts not included, listed separately below.**

Stock No.	Mfr's Type 00-7038	No. of Contacts	EACH 1-99	EACH 100-249	EACH 250-999
47 D 5824	017-000-110	17	2.25	1.40	1.25
47 D 5825	023-000-110	23	2.35	1.45	1.30
47 D 5826	029-000-110	29	2.45	1.55	1.35
47 D 5828	035-000-110	35	2.60	1.60	1.40
47 D 5830	041-000-110	41	2.70	1.65	1.45

47 D 5442. Model 50-5006. 3414 Polarizing Tab. Takes up one contact position...**.015**

VARILOK CRIMPED-WIRING CONTACTS

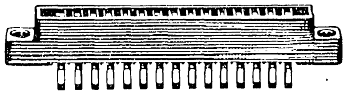


Type 50-8017.0313. Make solderless connections between wire and contact by crimping wire directly to the contact. A portion of the crimped contact grips the wire insulation for strain relief. Accommodate all sizes of wire from 18 gauge to 30 gauge. Can be crimped to the wire independently of other assembling procedures, then easily be inserted into any insulator hole location. When inserted, Varilok contacts lock into position using spring lance for permanence, and will not twist, turn, or bend out of alignment. Easily removed with extraction tool. 10-amp rating. 100 **contacts per pkg.** Wt., 2 oz. per pkg.
47 D 5823...**Per Pkg. 6.00**

See Page 264 for Listing of Tools to Use with Above Connectors

Elco Printed Circuit Connectors and Contacts

SERIES 6007 PC CARD-EDGE CONNECTORS



One-piece card-edge connectors for 1/16″ module boards. Rib bon-type, phosphor bronze contacts, gold-plated over nickel base plating. 7.5-amp rating. Dual-contact terminations are .046″ by .125″ straight tab wire hole. Glass-filled, diallyl phthalate insulation. Polarization: between contact positions, without losing any contacts. With .128″ diameter mounting holes.

Stock No.	Mfr's Type	Con-tacts	EACH 1-49	50-99	100-249
47 D 5418	00-6007-036-965-002	36	1.69	1.34	1.11
47 D 5419	00-6007-044-965-002	44	1.86	1.53	1.28

47 D 5443. 50-6002.3124 Polarizing Tab. Type B. ...... Each .015

MINIATURE VARICON® CONNECTORS

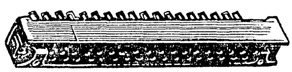
Employ "Varicon" principle with unique, fork-like contacts that are identical in male and female design. Provide "spring" contact with a wiping action over the entire length of the contact that remains positive under all operating conditions.

SERIES 7023 MINIATURE VARICON® PLUGS

One piece, glass filled diallyl phthalate insulator with double tier of phospor bronze contacts, gold-flashed over nickel plating, on .100″ centers. Mounting flanges have .128″ diameter holes. All fit 1/16″ PC card.

Stock No.	Mfr's Type	Contacts	EACH 1-99	100-249
47 D 5739	00-7023-023-000-001	23	2.56	1.75
47 D 5740	00-7023-029-000-001	29	2.82	1.98
47 D 5741	00-7023-035-000-001	35	3.08	2.21
47 D 5742	00-7023-041-000-001	41	3.35	2.44

SERIES 7024 MINIATURE VARICON® RECEPTACLES



Receptacles with nickel-plated, gold flashed, phosphor bronze contacts. Polarized at even positions. *.098″ base taper tab; †Keller wire wrap. All fit 1/16″ PC card.

Stock No.	Mfr's Type	Contacts	EACH 1-99	100-249
47 D 5743	00-7024-023-163-001	23*	3.75	2.55
47 D 5744	00-7024-023-156-001	23†	3.75	2.55
47 D 5749	00-7024-029-163-001	29*	4.09	2.78
47 D 5745	00-7024-029-156-001	29†	4.09	2.78
47 D 5750	00-7024-035-163-001	35*	4.61	3.12
47 D 5751	00-7024-035-156-001	35†	4.61	3.12
47 D 5752	00-7024-041-163-001	41*	5.10	3.45
47 D 5753	00-7024-041-156-001	41†	5.10	3.45
47 D 5442	50-5006.3414	Polarizing Tab	.015	.015

SERIES 7038 MINIATURE VARILOK™ RECEPTACLES

Similar to Series 7024 receptacles except uses "Varilok" contacts for solderless wiring. Order contacts separately, page 266.

47 D 5738	00-7038-017-000-001	17	1.90	1.05
47 D 5746	00-7038-023-000-001	23	2.00	1.10
47 D 5747	00-7038-029-000-001	29	2.10	1.20
47 D 5748	00-7038-035-000-001	35	2.25	1.25
47 D 5754	00-7038-041-000-001	41	2.35	1.30
47 D 5442	50-5006.3414	Pol. Tab	.015	.015

VARICON® "MICROCON" CONTACTS

Miniature version of "Varicon" contacts on p. 265. For .100″ in line and .050″ offset contact spacing patterns. "Stand-off" types have a single stake termination. 90° card edge mounted types have terminations for staking to printed circuit base or module cards. Type 52-8200.0213 has an extended tail. Type 52-8200.0313 same as 52-8200.0303 illustrated, except for 1/16″ P.C. Contacts are phosphor bronze, nickel-plated, gold-flashed. 100 per pkg.

52-8200.0303

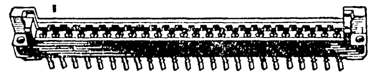
52-8200.0513

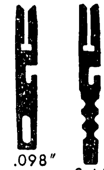
Stock No.	Mfr's Type	For P.C.	Application	Per Pkg.
47 D 5720	52-8200.0213	1/16″	"Stand-Off"	3.00
47 D 5721	52-8200.0303	1/32″	Card Edge	3.00
47 D 5722	52-8200.0313	1/16″	Card Edge	3.00
47 D 5723	52-8200.0513	1/16″	"Stand-Off"	3.00

DISPOSABLE PLASTIC STRIPS. "Microcon" contacts on disposable plastic strips. Contacts are placed on .100″ centers.

Stock No.	Mfr's Type	Contacts	Contact Type	EACH
47 D 5337	02-030-703-5100	30	50-8200-0313	1.05
47 D 5338	02-030-706-3100	30	50-8200-0513	1.05

SERIES 5007 RECEPTACLES





.098″ Taper Tab with Hole — Solder Term. for 3 Wires

All-molded "Varicon" PC connectors. Feature single row of contacts on .200″ spacing. Guides molded in sections of connector to assure perfect mating. End sections have guides and mounting holes for direct mounting to chassis. Contact terminations: .098″ base taper tab with wire hole and conventional solder termination for 3 wires. 10-amp rating. Diallyl phthalate insulation per MIL M-18794, type SDG. Have phosphor bronze contacts, nickel-plated, gold-flashed. All accept 1/16″ module card.

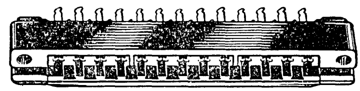
WITH .098″ TAPER TAB

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	100-249
47 D 5677	00-5007-012-163-001	12	1.77	1.36
47 D 5679	00-5007-019-163-001	19	2.60	2.02
47 D 5681	00-5007-020-163-001	20	2.73	2.11
47 D 5683	00-5007-024-163-001	24	3.21	2.49

WITH SOLDERING TERMINATION

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	100-249
47 D 5678	00-5007-012-189-001	12	1.77	1.36
47 D 5680	00-5007-019-189-001	19	2.60	2.02
47 D 5682	00-5007-020-189-001	20	2.73	2.11
47 D 5684	00-5007-024-189-001	24	3.21	2.49

SERIES 5009 RECEPTACLES



Feature straight-through card slot for 1/16″ or 3/32″ thick module card. 1 row Varicon contacts on .200 spacing have wire hole terminations for .098″ base taper tab or conventional solder terminations for three wires. Have one-piece diallyl phthalate insulator with two .128″ mounting holes. Polarize without loss of any contacts.

WITH .098″ TAPER TAB

Stock No.	Mfr's Type	Con-tacts	P.C. Card	EACH 1-99	100-249
47 D 5786	00-5009-012-163-001	12	1/16″	1.80	1.23
47 D 5787	00-5009-013-163-002	13	3/32″	1.86	1.44
47 D 5788	00-5009-016-163-C01	16	1/16″	2.24	1.74
47 D 5789	00-5C09-016-163-002	16	3/32″	2.24	1.74
47 D 5790	00-5009-022-163-002	22	3/32″	2.94	2.28

WITH SOLDERING TERMINATION

Stock No.	Mfr's Type	Con-tacts	P.C. Card	EACH 1-99	100-249
47 D 5791	00-5009-012-189-001	12	1/16″	1.80	1.23
47 D 5792	00-5009-013-189-002	13	3/32″	1.86	1.44
47 D 5793	00-5009-016-189-001	16	1/16″	2.24	1.74
47 D 5794	00-5009-016-189-002	16	3/32″	2.24	1.74
47 D 5795	00-5009-022-189-002	22	3/32″	2.94	2.88

Polarizing Tabs for Above.
47 D 5796. Model 50-5006.3414. For 3/32″ card.......... Each .015
47 D 5442. Model 50-5006-3414. For 1/16″ card.......... Each .015

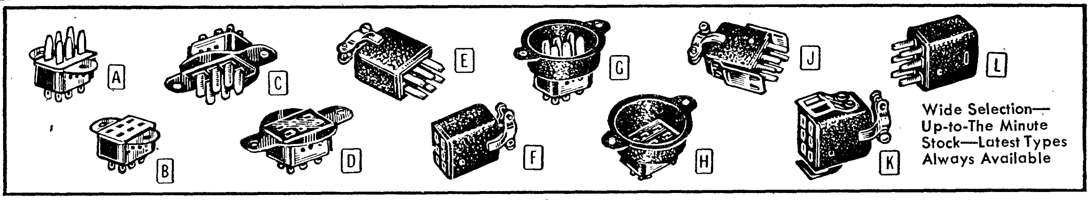
SERIES 5006-5007 PLUGS

CONTACT

PC module card is punched or drilled, and contacts are staked in and soldered to form the male part of the connector. Contact staking is accomplished by using contacts supplied in a plastic strip for handling and support. 10-amp rating. Hole pattern for the printed circuit lies on a .200″ grid, and should be held to ±.003″ tolerance, non-accumulative, for hole locations. Hole diameter is .052″, plus .000″, minus .004″. Contacts are phosphor bronze, nickel-plated, gold-flashed. For 1/16″ card.

Stock No.	Mfr's Type	No. of Contacts	EACH 1-249
47 D 5685	02-012-013-5200	12	.42
47 D 5787	C2-013-013-52C0	13	.46
47 D 5686	02-015-013-5200	15	.53
47 D 5798	02-016-013-5200	16	.56
47 D 5688	02-019-013-5200	19	.67
47 D 5689	02-020-013-5200	20	.70
47 D 5799	02-022-013-520C	22	.77
47 D 5690	02-023-013-5200	23	.81
47 D 5697	02-024-013-5200	24	.84

Cinch-Jones Series 300 Plugs and Sockets



Compact multi-circuit connectors. Phosphor-bronze "knife-switch" type socket contacts engage both sides of flat plug contacts. All plugs and sockets are polarized to eliminate possibility of incorrect insertion. Plugs having from 24 to 33 contacts have special long polarizing pin in approximate center position to assure correct insertion and removal. Heavy-duty plug and socket contacts are cadmium-plated. Plug contacts are 5/32″ wide by 3/64″ thick. Black bakelite body is encased in black, crystal-finish metal cap. All caps have fiber insulators. Rated at 730 rms volts at 10 amps. *2-contact units have round shells; others are rectangular.

[A] AB PLUGS FOR CHASSIS MOUNTING

Con-tacts	Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
2*	47 D 0870	P-302-AB	.29	.228	.19	.152	.144
3	47 D 0871	P-303-AB	.33	.264	.22	.176	.167
4	47 D 0872	P-304-AB	.37	.294	.245	.196	.186
6	47 D 0873	P-306-AB	.46	.366	.305	.244	.232
8	47 D 0874	P-308-AB	.53	.42	.35	.28	.266
10	47 D 0875	P-310-AB	.59	.474	.395	.316	.30
12	47 D 0876	P-312-AB	.66	.528	.44	.352	.334
15	47 D 0816	P-315-AB	.89	.708	.59	.472	.448
18	47 D 0817	P-318-AB	1.07	.852	.71	.568	.54
21	47 D 0818	P-321-AB	1.34	1.07	.89	.712	.676
24	47 D 0819	P-324-AB	1.62	1.30	1.08	.864	.821
27	47 D 0820	P-327-AB	1.90	1.52	1.27	1.01	.961
33	47 D 0822	P-333-AB	2.45	1.96	1.63	1.30	1.24

[B] AB SOCKETS FOR CHASSIS MOUNTING

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 0880	S-302-AB	.31	.246	.205	.164	.156
3	47 D 0881	S-303-AB	.35	.276	.23	.184	.175
4	47 D 0882	S-304-AB	.39	.312	.26	.208	.198
6	47 D 0883	S-306-AB	.49	.39	.325	.26	.247
8	47 D 0884	S-308-AB	.59	.474	.395	.316	.30
10	47 D 0885	S-310-AB	.69	.552	.46	.368	.35
12	47 D 0886	S-312-AB	.82	.654	.545	.436	.414
15	47 D 0864	S-315-AB	1.04	.828	.69	.552	.524
18	47 D 0865	S-318-AB	1.19	.954	.795	.636	.604
21	47 D 0866	S-321-AB	1.47	1.18	.98	.784	.745
24	47 D 0867	S-324-AB	1.75	1.40	1.17	.932	.885
27	47 D 0868	S-327-AB	2.03	1.62	1.35	1.08	1.03
30	47 D 0869	S-330-AB	2.33	1.86	1.55	1.24	1.18
33	47 D 0877	S-333-AB	2.60	2.08	1.73	1.38	1.32

[C] FP PLUGS WITH FLUSH PLATE

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
3	47 D 1310	P-303-FP	.52	.41	.35	.28	.26
4	47 D 1311	P-304-FP	.56	.44	.37	.30	.28
6	47 D 1312	P-306-FP	.65	.52	.43	.34	.33
8	47 D 1313	P-308-FP	.71	.57	.48	.38	.36
10	47 D 1314	P-310-FP	.78	.62	.52	.42	.40
12	47 D 1317	P-312-FP	.85	.68	.57	.45	.43

[D] FP SOCKETS WITH FLUSH PLATE

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1318	S-302-FP	.51	.41	.34	.27	.26
3	47 D 1319	S-303-FP	.53	.43	.36	.28	.27
4	47 D 1366	S-304-FP	.58	.46	.39	.31	.29
6	47 D 1377	S-306-FP	.68	.54	.45	.36	.34
8	47 D 1378	S-308-FP	.78	.62	.52	.42	.40
10	47 D 1379	S-310-FP	.88	.70	.59	.47	.45
12	47 D 1380	S-312-FP	1.01	.80	.67	.54	.51

[E] CCT PLUGS WITH CABLE CLAMPS

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 0802	P-302-CCT	.60	.48	.40	.32	.304
3	47 D 0803	P-303-CCT	.66	.528	.44	.352	.334
4	47 D 0804	P-304-CCT	.70	.558	.645	.372	.353
6	47 D 0806	P-306-CCT	.80	.636	.53	.424	.403
8	47 D 0808	P-308-CCT	.86	.69	.575	.46	.437
10	47 D 0810	P-310-CCT	.95	.762	.635	.508	.483
12	47 D 0812	P-312-CCT	1.03	.822	.685	.548	.521
15	47 D 0805	P-318-CCT	1.37	1.10	.915	.732	.695
18	47 D 0807	P-318-CCT	1.60	1.28	1.07	.852	.809
21	47 D 0809	P-321-CCT	1.91	1.53	1.28	1.02	.969
24	47 D 0811	P-324-CCT	2.24	1.79	1.50	1.20	1.14
27	47 D 0813	P-327-CCT	2.57	2.05	1.71	1.37	1.30
30	47 D 0814	P-330-CCT	2.89	2.31	1.93	1.54	1.46
33	47 D 0815	P-333-CCT	3.20	2.56	2.14	1.71	1.62

[F] CCT SOCKETS WITH CABLE CLAMPS

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 0852	S-302-CCT	.62	.498	.415	.332	.315
3	47 D 0853	S-303-CCT	.68	.54	.45	.36	.342
4	47 D 0854	S-304-CCT	.72	.576	.48	.384	.365
6	47 D 0856	S-306-CCT	.83	.66	.55	.44	.418

[F] CCT SOCKETS WITH CABLE CLAMPS (Cont'd)

Con-tacts	Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
8	47 D 0858	S-308-CCT	.93	.744	.62	.496	.471
10	47 D 0860	S-310-CCT	1.05	.84	.70	.56	.532
12	47 D 0862	S-312-CCT	1.19	.948	.79	.632	.60
15	47 D 0850	S-315-CCT	1.52	1.22	1.02	.812	.771
18	47 D 0851	S-318-CCT	1.73	1.38	1.15	.92	.874
21	47 D 0855	S-321-CCT	2.05	1.64	1.37	1.09	1.04
24	47 D 0857	S-324-CCT	2.37	1.90	1.58	1.26	1.20
27	47 D 0859	S-327-CCT	2.69	2.15	1.80	1.44	1.36
30	47 D 0861	S-330-CCT	3.04	2.45	2.03	1.62	1.55
33	47 D 0863	S-333-CCT	3.35	2.68	2.24	1.79	1.70

[G] RP PLUGS WITH RECESSED PLATES

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1440	P-302-RP	.56	.45	.38	.30	.29
3	47 D 1441	P-303-RP	.59	.47	.40	.32	.30
4	47 D 1442	P-304-RP	.63	.50	.42	.34	.32
6	47 D 1443	P-306-RP	.72	.58	.48	.38	.37
8	47 D 1444	P-308-RP	.83	.66	.55	.44	.42

[H] RP SOCKETS WITH RECESSED PLATES

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1418	S-302-RP	.59	.47	.39	.31	.30
3	47 D 1419	S-303-RP	.61	.49	.41	.32	.31
4	47 D 1420	S-304-RP	.65	.52	.44	.35	.33
6	47 D 1421	S-306-RP	.75	.60	.50	.40	.38
8	47 D 1426	S-308-RP	.89	.71	.60	.48	.45

[J] CCT-L PLUGS WITH CABLE CLAMPS AND LATCHES

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1513	P-302-CCT-L	.75	.60	.50	.40	.38
3	47 D 1514	P-303-CCT-L	.81	.648	.54	.432	.41
4	47 D 1515	P-304-CCT-L	.85	.678	.565	.452	.429
6	47 D 1516	P-306-CCT-L	.95	.756	.63	.504	.479
8	47 D 1517	P-308-CCT-L	1.01	.81	.675	.54	.513
10	47 D 0112	P-310-CCT-L	1.10	.882	.735	.588	.559
12	47 D 0125	P-312-CCT-L	1.18	.942	.785	.628	.597
15	47 D 0140	P-315-CCT-L	1.52	1.22	1.02	.812	.771
21	47 D 0142	P-321-CCT-L	2.06	1.65	1.38	1.10	1.05

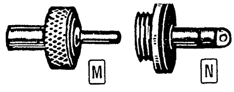
[K] CCT-K SOCKETS WITH KEEPERS

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1481	S-302-CCT-K	.77	.618	.515	.412	.391
3	47 D 1482	S-303-CCT-K	.83	.66	.55	.44	.418
4	47 D 1483	S-304-CCT-K	.87	.696	.58	.464	.44
6	47 D 1484	S-306-CCT-K	.98	.78	.65	.52	.494
8	47 D 1485	S-308-CCT-K	1.08	.864	.72	.576	.547
10	47 D 1486	S-310-CCT-K	1.20	.96	.80	.64	.608
12	47 D 1487	S-312-CCT-K	1.34	1.07	.89	.712	.676

[L] FHT PLUGS WITH HOLE IN TOP

Con-tacts	Stock No.	Mfr's Type	1-24	25-49	50-99	100-249	250-499
2*	47 D 1524	P-302-FHT	.45	.36	.30	.24	.23
3	47 D 1525	P-303-FHT	.51	.41	.34	.27	.26
4	47 D 1526	P-304-FHT	.56	.44	.37	.30	.28

SERIES 101 PLUGS AND SOCKETS

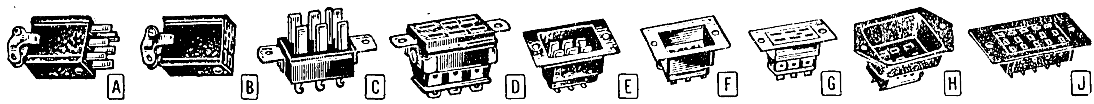


Series 101 plugs (Fig. M) have 1/8x1/2″ prong—exactly match any Series 101 socket (Fig. N). Prefix "P" in Type No. indicates plug; prefix "S" in Type No. indicates socket. Suffix in plug Type No. indicates outside cable diameter that plug accepts. S-101 is a socket designed for insulated mounting. Sockets have 9/16″ diameter, with 18 threads per inch.

Stock No.	Mfr's Type	Length	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0600	P-101-1/4″	1 1/4″	.69	.55	.46	.37	.35
47 D 0825	P-101-1/2″	1 7/8″	.68	.54	.45	.36	.34
47 D 0835	S-101	1 1/16″	.64	.51	.43	.34	.32

Cinch-Jones Plugs, Sockets, Hinge Connectors

SERIES 300, 400 AND 2400 PLUGS AND SOCKETS



Series 400 and 2400. Series 400 Types rated 1100 v. rms @ 15 amps. Series 2400 Types rated 1700 v. rms @ 15 amps. All have polarizing pins. Prongs are 1/4" wide, 1/16" thick. Bakelite bodies. Phosphor bronze socket contacts. Series 2400 mates with Series 400—interchangeable mechanically—differ only in voltage ratings.

Series 300 Sockets. DB Type Sockets have a deep bracket for recessed mounting. SB Types have shallow bracket for flush mounting. Sockets with 24 to 33 contacts have center-positioned polarizing contact. Both types are rated at 730 volts, rms. All have rectangular shells.

A CCT PLUGS WITH CABLE CLAMPS

Stock No.	Mfr's Type	Contacts	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0910	P-402-CCT	2	1.13	.90	.75	.60	.57
47 D 0911	P-404-CCT	4	1.28	1.03	.855	.684	.65
47 D 0912	P-406-CCT	6	1.48	1.18	.985	.788	.749
47 D 0913	P-408-CCT	8	1.64	1.31	1.09	.872	.828
47 D 0914	P-410-CCT	10	1.89	1.51	1.26	1.01	.958
47 D 0915	P-412-CCT	12	2.06	1.65	1.38	1.10	1.05
47 D 0833	P-2402-CCT	2	1.25	.996	.83	.664	.631
47 D 0834	P-2404-CCT	4	1.42	1.13	.945	.756	.718
47 D 0836	P-2406-CCT	6	1.59	1.27	1.06	.84	.806
47 D 0837	P-2408-CCT	8	1.76	1.41	1.18	.94	.893
47 D 0838	P-2410-CCT	10	1.94	1.55	1.29	1.03	.98
47 D 0839	P-2412-CCT	12	2.03	1.63	1.36	1.08	1.03

B CCT SOCKETS WITH CABLE CLAMPS

47 D 0920	S-402-CCT	2	1.28	1.02	.85	.68	.646
47 D 0921	S-404-CCT	4	1.52	1.22	1.02	.812	.771
47 D 0922	S-406-CCT	6	1.77	1.42	1.18	.944	.897
47 D 0923	S-408-CCT	8	2.02	1.61	1.35	1.08	1.02
47 D 0924	S-410-CCT	10	2.27	1.81	1.51	1.21	1.15
47 D 0925	S-412-CCT	12	2.51	2.01	1.68	1.34	1.27
47 D 0624	S-2402-CCT	2	1.36	1.09	.905	.724	.688
47 D 0625	S-2404-CCT	4	1.50	1.20	1.00	.80	.76
47 D 0626	S-2406-CCT	6	1.68	1.34	1.12	.896	.851
47 D 0627	S-2408-CCT	8	1.86	1.49	1.24	.992	.942
47 D 0628	S-2410-CCT	10	2.04	1.63	1.36	1.09	1.03
47 D 0629	S-2412-CCT	12	2.22	1.78	1.48	1.18	1.13

C AB PLUGS WITH ANGLE BRACKETS

47 D 0890	P-402-AB	2	.68	.54	.45	.36	.342
47 D 0891	P-404-AB	4	.83	.66	.55	.44	.418
47 D 0892	P-406-AB	6	.98	.78	.65	.52	.494
47 D 0893	P-408-AB	8	1.13	.90	.75	.60	.57
47 D 0894	P-410-AB	10	1.28	1.02	.85	.68	.646
47 D 0895	P-412-AB	12	1.43	1.14	.95	.76	.722

D AB SOCKETS WITH ANGLE BRACKETS

47 D 0900	S-402-AB	2	.79	.63	.525	.42	.399
47 D 0901	S-404-AB	4	1.01	.81	.675	.54	.513
47 D 0902	S-406-AB	6	1.24	.99	.825	.66	.627
47 D 0903	S-408-AB	8	1.46	1.17	.975	.78	.741
47 D 0904	S-410-AB	10	1.69	1.35	1.13	.90	.855
47 D 0905	S-412-AB	12	1.91	1.53	1.28	1.02	.969

E DB RECESSED PLUGS FOR CHASSIS MOUNTING

47 D 0950	P-402-DB	2	.90	.72	.60	.48	.456
47 D 0955	P-404-DB	4	1.10	.876	.73	.584	.555
47 D 0951	P-406-DB	6	1.29	1.03	.86	.688	.654
47 D 0952	P-408-DB	8	1.49	1.19	.99	.792	.752
47 D 0953	P-410-DB	10	1.68	1.34	1.12	.896	.851
47 D 0954	P-412-DB	12	1.88	1.50	1.25	1.00	.95

F DB RECESSED SOCKETS FOR CHASSIS MOUNTING

47 D 0178	S-2402-DB	2	1.05	.84	.70	.56	.532
47 D 0184	S-2404-DB	4	1.22	.978	.815	.652	.619
47 D 0185	S-2406-DB	6	1.40	1.12	.93	.744	.707
47 D 0186	S-2408-DB	8	1.57	1.25	1.05	.836	.794
47 D 0187	S-2410-DB	10	1.74	1.39	1.16	.928	.882
47 D 0192	S-2412-DB	12	1.91	1.53	1.28	1.02	.969

G SB FLUSH SOCKETS FOR CHASSIS MOUNTING

47 D 0794	S-402-SB	2	.98	.78	.65	.52	.494
47 D 0795	S-404-SB	4	1.25	.996	.83	.664	.631
47 D 0796	S-406-SB	6	1.52	1.21	1.01	.808	.768
47 D 0797	S-408-SB	8	1.79	1.43	1.19	.952	.904
47 D 0798	S-410-SB	10	2.06	1.64	1.37	1.10	1.04
47 D 0799	S-412-SB	12	2.33	1.86	1.55	1.24	1.18
47 D 0840	S-2402-SB	2	.98	.78	.65	.52	.494
47 D 0841	S-2404-SB	4	1.15	.918	.765	.612	.581
47 D 0842	S-2406-SB	6	1.32	1.06	.88	.704	.669
47 D 0843	S-2408-SB	8	1.49	1.19	.995	.796	.756
47 D 0844	S-2410-SB	10	1.67	1.33	..11	.888	.844
47 D 0845	S-2412-SB	12	1.84	1.47	1.23	.98	.931

H DB RECESSED SOCKETS FOR CHASSIS MOUNTING

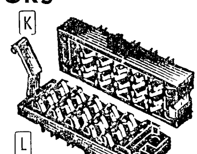
Stock No.	Mfr's Type	Contacts	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0061	S-304-DB	4	.79	.63	.525	.42	.399
47 D 0063	S-306-DB	6	.89	.708	.59	.472	.448
47 D 0064	S-308-DB	8	.99	.792	.66	.528	.502
47 D 0224	S-312-DB	12	1.22	.972	.81	.648	.616
47 D 0225	S-315-DB	15	1.45	1.16	.965	.772	.733
47 D 0226	S-318-DB	18	1.68	1.34	1.12	.896	.851
47 D 0227	S-321-DB	21	2.00	1.60	1.33	1.06	1.01
47 D 0228	S-324-DB	24	2.32	1.85	1.55	1.24	1.17
47 D 0272	S-327-DB	27	2.63	2.10	1.75	1.40	1.33
47 D 0279	S-330-DB	30	2.96	2.37	1.98	1.58	1.50

J SB FLUSH SOCKETS FOR CHASSIS MOUNTING

Stock No.	Mfr's Type	Contacts	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0281	S-315-SB	15	1.45	1.16	.965	.772	.733
47 D 0286	S-318-SB	18	1.68	1.34	1.12	.896	.851
47 D 0287	S-321-SB	21	2.00	1.60	1.33	1.06	1.01
47 D 0290	S-324-SB	24	2.32	1.85	1.55	1.24	1.17
47 D 0293	S-327-SB	27	2.63	2.10	1.75	1.40	1.33
47 D 0299	S-330-SB	30	2.96	2.37	1.98	1.58	1.50
47 D 0300	S-333-SB	33	3.27	2.62	2.18	1.74	1.66

HINGE CONNECTORS

Offer maximum number of contacts in minimum space. Designed for easy engagement and disengagement to eliminate contact damage caused by high insertion and extraction forces of ordinary connectors. Socket (Fig. K) or plug body (Fig. L) fit cap (below). Castings of black bakelite; phosphor-bronze, cadmium-plated contacts. Rated at 4.5 amps.



K SOCKET WITH LOCK

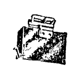
Contacts	Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
20	47 D 0274	37F20L	2.51	2.00	1.67	1.34	1.27
30	47 D 0275	37F30L	2.96	2.36	1.97	1.58	1.50
40	47 D 0276	37F40L	3.41	2.72	2.27	1.82	1.73
50	47 D 0277	37F50L	3.86	3.08	2.57	2.06	1.95
60	47 D 0278	37F60L	4.31	3.44	2.87	2.30	2.18
70	47 D 0282	37F70L	4.76	3.80	3.17	2.54	2.41
100	47 D 0285	37F100L	6.11	4.88	4.07	3.26	3.09

L PLUG WITH LOCK

20	47 D 0363	37M20L	2.51	2.00	1.67	1.34	1.27
30	47 D 0364	37M30L	2.96	2.36	1.97	1.58	1.50
40	47 D 0365	37M40L	3.41	2.72	2.27	1.82	1.73
50	47 D 0366	37M50L	3.86	3.08	2.57	2.06	1.95
60	47 D 0367	37M60L	4.31	3.44	2.87	2.30	2.18
70	47 D 0368	37M70L	4.76	3.80	3.17	2.54	2.41
100	47 D 0371	37M100L	6.11	4.88	4.07	3.26	3.09

CAPS FOR HINGE CONNECTORS

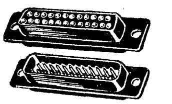
Black wrinkle finished caps and cadmium-plated steel cable clamps. Cap liners of formed fiber. Cable hole size: 20-contact units, 3/4"; 30, 40, 50-contact units, 13/16x1"; 60, 70, 80, 90, 100-contact units, 13/16x1 1/2".



Contacts	Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
20	47 D 0219	37C20	3.49	2.79	2.33	1.86	1.77
30	47 D 0220	37C30	3.53	2.82	2.35	1.88	1.79
40	47 D 0221	37C40	3.56	2.85	2.38	1.90	1.81
50	47 D 0222	37C50	3.60	2.88	2.40	1.92	1.82
60	47 D 0223	37C60	3.64	2.91	2.43	1.94	1.84
70	47 D 0229	37C70	3.68	2.94	2.45	1.96	1.86
100	47 D 0232	37C100	3.71	2.97	2.48	1.98	1.88

Cinch-Jones Connectors and Plugs

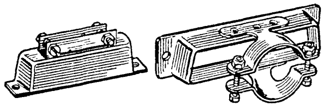
"D" SUBMINIATURE CONNECTORS



Have pin and socket insert, gold-plated, copper alloy contacts, and cadmium-plated steel shells. Mark I Golden "D" types are monobloc with diallyl phthalate glass fiber-filled insulation, meeting MIL-M-14F specifications. Insulation resistance, greater than 5000 megohms, per MIL-STD-202A. Method 302. "Original D" connectors have 2-piece nylon insert. *Digits in Mfr's Type No. indicate number of contacts. Suffix "P" indicates male (pin) connector; suffix "S" indicates female (socket) connector. 2 oz.

Stock No.	*Mfr's Type	Flange Size	EACH 1-9	10-49	50-99	100-249	250-499
ORIGINAL "D"							
47 D 0101	DA-15P	1-17/32x31/64″	1.12	1.03	.94	.84	.75
47 D 0102	DA-15S	1-17/32x31/64″	1.66	1.52	1.39	1.25	1.11
47 D 0104	DB-25P	2-5/64x31/64″	1.66	1.52	1.39	1.25	1.11
47 D 0105	DB-25S	2-5/64x31/64″	2.76	2.48	2.28	2.07	1.86
47 D 0106	DC-37P	2-23/32x31/64″	2.28	2.09	1.90	1.71	1.52
47 D 0107	DC-37S	2-23/32x31/64″	3.40	3.12	2.84	2.55	2.27
47 D 0108	DD-50P	2-5/8x39/64″	2.98	2.73	2.49	2.24	1.99
47 D 0109	DD-50S	2-5/8x39/64″	4.44	4.07	3.70	3.33	2.96
47 D 0110	DE-9P	1-13/64x31/64″	.84	.77	.70	.63	.56
47 D 0111	DE-9S	1-13/64x31/64″	1.24	1.14	1.04	.93	.83
MARK I GOLDEN "D"							
47 D 0772	DAM-15P	1-17/32x31/64″	2.02	1.85	1.69	1.52	1.35
47 D 0773	DAM-15S	1-17/32x31/64″	3.04	2.79	2.54	2.28	2.03
47 D 0774	DBM-25P	2-5/64x31/64″	3.08	2.82	2.57	2.31	2.05
47 D 0775	DBM-25S	2-5/64x31/64″	4.60	4.22	3.84	3.45	3.07
47 D 0776	DCM-37P	2-23/32x31/64″	4.28	3.92	3.57	3.21	2.85
47 D 0777	DCM-37S	2-23/32x31/64″	6.44	5.90	5.37	4.83	4.29
47 D 0778	DDM-50P	2-5/8x39/64″	5.66	5.19	4.72	4.24	3.77
47 D 0779	DDM-50S	2-5/8x39/64″	8.50	7.79	7.09	6.38	5.67
47 D 0770	DEM-9P	1-13/64x31/64″	1.44	1.32	1.20	1.08	.96
47 D 0771	DEM-9S	1-13/64x31/64″	2.16	1.98	1.80	1.62	1.44

JUNCTION SHELLS



Straight　Round

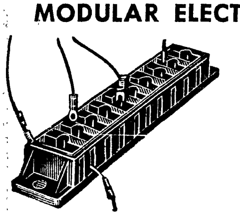
Low-carbon steel clamp. Cadmium-plated. Pass 50 hr. salt spray test; meet MIL-STD-202A. *Straight clamps; others, round clamps. 3 oz.

Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-249	250-499
47 D 0780	*DA-19678-1	.60	.55	.50	.45	.40
47 D 0781	*DB-19678-2	.60	.55	.50	.45	.40
47 D 0782	*DC-19678-3	.84	.77	.70	.63	.56
47 D 0783	*DD-19678-4	.86	.79	.72	.64	.57
47 D 0784	DA-20961	.88	.81	.74	.66	.59
47 D 0785	DB-20962	.98	.90	.82	.73	.65
47 D 0786	DC-20963	1.08	.99	.90	.81	.72
47 D 0787	DD-20964	1.18	1.08	.99	.89	.79

Screw Lock Assemblies. For junction shells above. Same corrosion-resistant construction. *Female; †male.

Stock No.	Type D20-	For Shell Size	EACH 1-9	10-49	50-99	100-249	250-499
46 D 0550	*418-2	DA, DB, DC, DD, DE	.22	.20	.18	.16	.14
47 D 0551	†419	DA, DB, DC, DE	.19	.18	.16	.14	.13
47 D 0552	†420	DD	.28	.25	.23	.21	.18

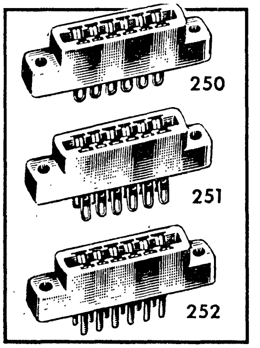
MODULAR ELECTRONICS TERMINAL BLOCK



"Uni-Block" Terminal Block. Makes possible neat, compact electronic installations of all types. Unit accepts all common lead terminations—spade, ring or fork lug, test probe, straight pin, taper pin and wire wrap. Has top and side entry for telemetry patch panels, breadboard and prototype work. Provides positive, secure electrical and mechanical connection with withdrawal pressure of 35 to 40 pounds. Makes connections that exceed MIL-Spec requirements for contact resistance. Have beryllium copper spring contacts that maintain their tension. Body is constructed of rugged, 250°F phenolic. Electrical capacity, 50 amps. F-type terminal blocks have feed-thru pins. Sizes: 5-position type, 3-7/32x1x3″; 10-position types, 3-7/32x1x5″. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Positions	EACH
47 D 6066	P-1000-5	5	1.95
47 D 6067	P-1000-10	10	2.75
47 D 6069	F-P-1000-10	10	3.75

BIFURCATED-CONTACT EDGE CONNECTORS



Series 250 Connectors. Features two flexing surfaces instead of one for positive contact. Offsets irregularities in printed circuit boards.

Series 251. Use glass-filled diallyl phthalate insulation. Type SDGF per MIL-M-14F. Phosphor-bronze contacts have .00003, minimum, Sel-Rex gold plate.

Series 250 and 251. Have wiring tails. "M" in type No., Berylium copper contacts with 50 microinches gold finish. Meets MIL-C-21097A specifications.

Series 252. Have contact tails for dip soldering. Fit .051″ diameter holes. Unassembled, plastic polarizing key, included except with MIL types. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Contact Pos.	No. of Cont.	EACH 1-24	25-49	50-99	100-249	250-499
250 SERIES (Type 50-)								
47 D 0319	6A-20	6	6	1.19	.95	.79	.63	.60
47 D 0134	6A-20M	6	6	1.40	1.12	.94	.75	.71
47 D 0322	10A-20	10	10	1.58	1.26	1.05	.84	.80
47 D 0135	10A-20M	10	10	2.00	1.60	1.34	1.07	1.02
47 D 0323	12A-20	12	12	1.78	1.42	1.19	.95	.90
47 D 0324	15A-20	15	15	2.08	1.66	1.39	1.10	1.05
47 D 0138	15A-20M	15	15	2.73	2.18	1.82	1.45	1.38
47 D 0327	18A-20	18	18	2.36	1.89	1.58	1.26	1.20
47 D 0139	18A-20M	18	18	3.15	2.52	2.10	1.68	1.60
47 D 0329	22A-20	22	22	2.77	2.21	1.84	1.47	1.40
47 D 0145	22A-20M	22	22	3.74	2.99	2.50	1.99	1.89
47 D 0152	25A-20	25	25	3.79	3.03	2.53	2.02	1.92
251 SERIES								
47 D 0334	12A-30	6	12	1.19	.95	.79	.63	.60
47 D 0146	12A-30M	6	12	1.40	1.12	.94	.75	.71
47 D 0337	20A-30	10	20	1.58	1.26	1.05	.84	.80
47 D 0147	20A-30M	10	20	2.00	1.60	1.34	1.07	1.02
47 D 0340	24A-30	12	24	1.78	1.42	1.19	.95	.90
47 D 0341	30A-30	15	30	2.08	1.66	1.39	1.10	1.05
47 D 0148	30A-30M	15	30	2.73	2.18	1.82	1.45	1.38
47 D 0150	36A-30M	18	36	3.15	2.52	2.10	1.68	1.60
47 D 0343	44A-30	22	44	2.77	2.21	1.84	1.47	1.40
47 D 0151	44A-30M	22	44	3.74	2.99	2.50	1.99	1.89
47 D 0153	50A-30	25	50	3.79	3.03	2.53	2.02	1.92
252 SERIES								
47 D 0344	12B-10	6	12	1.19	.95	.79	.63	.60
47 D 0345	20B-10	10	20	1.58	1.26	1.05	.84	.80
47 D 0346	24B-10	12	24	1.78	1.42	1.19	.95	.90
47 D 0347	30B-10	15	30	2.08	1.66	1.39	1.10	1.05

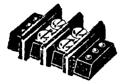
202 CONNECTORS

A　B　C

Dependable, two-contact polarized connectors with 3/4″-27 threaded fittings. P-202-B and S-202-B have 1″ mtg. centers. Prefix "P" denotes male connector. Prefix "S" denotes female. Use S-202B with P-202-CCT for cable extension. Av. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0980	P-202-CCT	B	.85	.68	.57	.45	.43
47 D 0831	S-202-CCT	A	.87	.70	.58	.46	.44
47 D 0989	P-202-B	C	1.01	.81	.68	.54	.51
47 D 0982	S-202-B	C	1.04	.83	.69	.55	.52
47 D 0981	S-202-CCT-THR	A	1.15	.92	.77	.61	.58

SERIES 150 BARRIER BLOCKS



Bakelite barriers with nickeled-brass screws. Fit 50-amp solder lugs—#6 stranded wire. 10-32x5/16″ terminals on 11/16″ ctrs. 3/4x1-13/16″. Av. wt., 6 oz.

Stock No.	Mfr's Type	Term	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1887	2-150	2	.75	.60	.50	.40	.38	.36
47 D 1888	3-150	3	1.05	.84	.70	.56	.532	.504
47 D 1889	4-150	4	1.36	1.09	.905	.724	.688	.652
47 D 1891	5-150	5	1.67	1.33	1.11	.888	.844	.799
47 D 1892	6-150	6	1.97	1.58	1.32	1.05	.999	.947
47 D 1893	7-150	7	2.28	1.82	1.52	1.22	1.16	1.09
47 D 1894	8-150	8	2.59	2.07	1.73	1.38	1.31	1.24
47 D 1896	9-150	9	2.90	2.32	1.93	1.54	1.47	1.39
47 D 1899	10-150	10	3.20	2.56	2.14	1.71	1.62	1.54

Cinch-Jones Barrier and Terminal Strips

SERIES 500 BARRIER BLOCKS

High, wide barriers permit high-voltage ratings. Material between the terminals at the base strengthens the entire strip and maintains same contact-to-contact and contact-to-ground creepage distance. Minimum warpage and shrinkage. Designations can be printed on base. Closed bottoms require no insulation. Knockouts in base can be removed for "Y" terminals.

Series 540. Have double 5-40x3/16" binder, head screw terminals. Creepage distance is 1/2". 1 1/8" wide by 39/64" high. Terminals are 3/8" center to center with .160 diameter holes. Av. wt., 14 oz.

Srock No.	Mfr's Type	Term	EACH 1-24	25-49	50-99	100-249
47 D 0384	2-540	2	.75	.60	.40	.32
47 D 0385	3-540	3	.83	.66	.46	.38
47 D 0386	4-540	4	.90	.72	.52	.44
47 D 0387	5-540	5	.98	.78	.58	.50
47 D 0388	6-540	6	1.05	.84	.64	.56
47 D 0389	7-540	7	1.13	.90	.70	.62
47 D 0390	8-540	8	1.20	.96	.76	.68
47 D 0400	9-540	9	1.28	1.02	.82	.74
47 D 0401	10-540	10	1.35	1.08	.88	.80
47 D 0410	12-540	12	1.50	1.20	1.00	.92
47 D 0420	14-540	14	1.65	1.32	1.12	1.04
47 D 0421	15-540	15	1.73	1.38	1.18	1.10
47 D 0422	16-540	16	1.80	1.44	1.24	1.16
47 D 0435	18-540	18	1.95	1.56	1.36	1.28
47 D 0439	20-540	20	2.10	1.68	1.48	1.40
47 D 0451	22-540	22	2.25	1.80	1.60	1.52
47 D 0453	24-540	24	2.40	1.92	1.72	1.64
47 D 0455	26-540	26	2.55	2.04	1.84	1.76
47 D 0460	30-540	30	2.85	2.28	2.08	2.00
47 D 0465	31-540	31	2.93	2.34	2.14	2.06

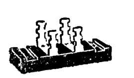
Series 541. Have double 6-32x1/4" binder head screw terminals. Creepage distance is 5/8". 1 3/8" wide by 11/16" high. Terminals are 7/16" center to center with .175-.180 diameter holes.

47 D 0702	2-541	2	.80	.64	.44	.36
47 D 0703	3-541	3	.88	.70	.50	.42
47 D 0704	4-541	4	.95	.76	.56	.48
47 D 0705	5-541	5	1.03	.82	.62	.54
47 D 0706	6-541	6	1.10	.88	.68	.60
47 D 0708	7-541	7	1.19	.95	.75	.67
47 D 0710	8-541	8	1.27	1 01	.81	.73
47 D 0711	9-541	9	1.34	1.07	.87	.79
47 D 0712	10-541	10	1.42	1.13	.93	.83
47 D 0720	12-541	12	1.58	1.26	1.06	.98
47 D 0722	14-541	14	1.73	1.38	1.18	1.10
47 D 0726	16-541	16	1.88	1.50	1.30	1.22
47 D 0728	18-541	18	2.04	1.63	1.43	1.35
47 D 0730	20-541	20	2.19	1.75	1.55	1.47
47 D 0732	22-541	22	2.36	1.88	1.68	1.60
47 D 0734	24-541	24	2.51	2.00	1.80	1.72
47 D 0736	26-541	26	2.66	2.12	1.92	1.84
47 D 0740	30-541	30	2.96	2.37	2.17	2.09

Series 542. Have double 8-32x5/16" binder head screw terminals. Creepage distance is 3/4". 1 5/8" wide by 7/8" high.

Stock No.	Mfr's Type	Term	EACH 1-24	25-49	50-99	100-249
47 D 0741	2-542	2	.85	.68	.48	.38
47 D 0743	4-542	4	1.05	.84	.64	.54
47 D 0745	6-542	6	1.25	1.00	.80	.70
47 D 0747	8-542	8	1.45	1.16	.96	.86
47 D 0749	10-542	10	1.65	1.32	1.12	1.02
47 D 0751	12-542	12	1.85	1.48	1.28	1.18
47 D 0753	14-542	14	2.05	1.64	1.44	1.34
47 D 0756	16-542	16	2.25	1.80	1.60	1.50
47 D 0759	18-542	18	2.45	1.96	1.76	1.66
47 D 0761	20-542	20	2.65	2.12	1.92	1.82
47 D 0763	22-542	22	2.85	2.28	2.08	1.98
47 D 0769	26-542	26	3.25	2.60	2.40	2.30

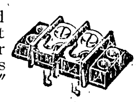
SERIES 170 TERMINAL STRIPS



Extra-heavy-duty solder terminals. Sturdy black molded bakelite base is 5/16" wide, 1/4" thick. Solder terminals are .032" tinned brass; on 3/8" centers. Double notched to insure good, easy mechanical connection. 5 oz.

Stock No.	Mfr's Type	Ter-minals	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0991	2-170	2	.26	.204	.17	.136	.129
47 D 0992	3-170	3	.31	.246	.205	.164	.156
47 D 0993	4-170	4	.36	.288	.24	.192	.182
47 D 0994	5-170	5	.41	.33	.275	.22	.209
47 D 0995	6-170	6	.47	.372	.31	.248	.236
47 D 0996	7-170	7	.52	.414	.345	.276	.262
47 D 0997	8-170	8	.57	.456	.38	.304	.289
47 D 0999	10-170	10	.68	.54	.45	.36	.342

SERIES 140-Y, 141-Y, 142-Y BARRIER BLOCKS



Barriers between each terminal provide increased insulation; follow edge of strips and terminate at base. Molded bakelite base. All have brass solder terminals with hot-tin dipped finish. Size: Series 140-Y, 7/8" wide x 5/8" high; 141-Y, 1 1/8" wide x 1/2" high; 142-Y, 1 5/16" wide x 5/8" high.

Series 140-Y. Leakage path between terminals, 3/8". Designed for use with Series 160 fanning strips listed page 272. Av. wt., 5 oz.

Stock No.	Mfr's Type	Term.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 2702	2-140-Y	2	.29	.228	.19	.152	.144	.137
47 D 2705	3-140-Y	3	.35	.282	.235	.188	.179	.169
47 D 2706	4-140-Y	4	.47	.372	.31	.248	.236	.223
47 D 2707	5-140-Y	5	.58	.462	.385	.308	.293	.277
47 D 2708	6-140-Y	6	.67	.534	.445	.356	.338	.32
47 D 2709	7-140-Y	7	.77	.618	.515	.412	.391	.371
47 D 2711	8-140-Y	8	.88	.702	.585	.468	.445	.421
47 D 2712	9-140-Y	9	.98	.786	.655	.524	.498	.472
47 D 2713	10-140-Y	10	1.08	.87	.725	.58	.551	.522
47 D 2714	11-140-Y	11	1.19	.948	.79	.632	.60	.569
47 D 2715	12-140-Y	12	1.29	1.03	.86	.668	.654	.619
47 D 2716	13-140-Y	13	1.40	1.12	.93	.744	.707	.67
47 D 2720	14-140-Y	14	1.50	1.20	1.00	.80	.76	.72
47 D 2721	15-140-Y	15	1.61	1.28	1.07	.856	.813	.77
47 D 2722	16-140-Y	16	1.70	1.36	1.14	.908	.863	.817
47 D 2727	17-140-Y	17	1.81	1.45	1.205	.964	.916	.868
47 D 2734	18-140-Y	18	1.91	1.52	1.27	1.02	.965	.914
47 D 2735	19-140-Y	19	2.01	1.61	1.34	1.07	1.02	.965
47 D 2743	20-140-Y	20	2.11	1.69	1.405	1.12	1.07	1.01
47 D 2744	21-140-Y	21	2.22	1.78	1.48	1.18	1.13	1.05

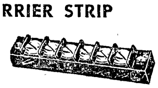
Series 141-Y. Leakage path, 7/16". For Series 161 fanning strips.

47 D 2745	2-141-Y	2	.34	.27	.225	.18	.171	.162
47 D 2746	3-141-Y	3	.47	.378	.315	.252	.239	.227
47 D 2758	4-141-Y	4	.61	.486	.405	.324	.308	.292
47 D 2759	5-141-Y	5	.74	.594	.495	.396	.376	.356
47 D 2760	6-141-Y	6	.86	.69	.575	.46	.437	.414
47 D 2761	7-141-Y	7	1.01	.804	.67	.536	.509	.482
47 D 2762	8-141-Y	8	1.14	.912	.76	.608	.578	.547
47 D 2763	9-141-Y	9	1.27	1.01	.845	.676	.642	.608
47 D 2764	10-141-Y	10	1.41	1.13	.94	.752	.714	.677
47 D 2767	12-141-Y	12	1.67	1.33	1.11	.888	.844	.799
47 D 2769	14-141-Y	14	1.94	1.55	1.29	1.03	.98	.929
47 D 2770	15-141-Y	15	2.06	1.65	1.38	1.10	1.05	.99
47 D 2772	16-141-Y	16	2.20	1.76	1.47	1.17	1.11	1.06
47 D 2776	18-141-Y	18	2.47	1.97	1.65	1.32	1.25	1.18
47 D 2778	19-141-Y	19	2.60	2.08	1.74	1.39	1.32	1.25
47 D 2779	20-141-Y	20	2.74	2.19	1.83	1.47	1.39	1.31

Series 142-Y. Leakage path, 9/16". For Series 162 fanning strips.

47 D 2780	2-142-Y	2	.41	.324	.27	.216	.205	.194
47 D 2782	4-142-Y	4	.72	.576	.48	.384	.365	.346
47 D 2783	5-142-Y	5	.88	.702	.585	.468	.445	.421
47 D 2784	6-142-Y	6	1.04	.834	.695	.556	.528	.50
47 D 2785	7-142-Y	7	1.21	.966	.805	.644	.612	.58
47 D 2786	8-142-Y	8	1.37	1.09	.91	.728	.692	.655
47 D 2788	10-142-Y	10	1.70	1.36	1.13	.904	.859	.814
47 D 2789	11-142-Y	11	1.85	1.48	1.24	.988	.939	.887
47 D 2795	12-142-Y	12	2.02	1.61	1.35	1.08	1.02	.968
47 D 2875	14-142-Y	14	2.35	1.88	1.57	1.25	1.19	1.13
47 D 2876	15-142-Y	15	2.51	2.01	1.68	1.34	1.27	1.21
47 D 2877	16-142-Y	16	2.68	2.14	1.79	1.43	1.36	1.29
47 D 2878	17-142-Y	17	2.84	2.27	1.90	1.52	1.44	1.36

SERIES 171, 172, 173 MINIATURE BARRIER STRIP



Series 171 single 2-56x3/16" bh machine-screw terminals on 1/4" ctrs.; 5/16x1 3/32". Series 172 double 2-56x3/16" bhms terminals on 1/4" ctrs.; 5/8x5/16". Series 173 single 4-40x5/16" bhms terms. on 3/8" ctrs.; 3/8x1/2". Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Term	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 2949	4-171	4	.38	.306	.255	.204	.194	.184
47 D 2973	6-171	6	.50	.402	.335	.268	.255	.241
47 D 2975	8-171	8	.62	.498	.415	.332	.315	.299
47 D 2977	3-172	3	.57	.456	.38	.304	.289	.274
47 D 2978	4-172	4	.69	.552	.46	.368	.35	.331
47 D 2980	6-172	6	.93	.744	.62	.496	.471	.446
47 D 2982	8-172	8	1.17	.936	.78	.624	.593	.562
47 D 2984	10-172	10	1.41	1.13	.94	.752	.714	.677
47 D 2988	12-172	12	1.65	1.32	1.10	.88	.836	.792
47 D 2990	14-172	14	1.89	1.51	1.26	1.01	.958	.907
47 D 2991	2-173	2	.26	.204	.17	.136	.129	.122
47 D 2993	4-173	4	.44	.348	.29	.232	.22	.209
47 D 2995	6-173	6	.62	.492	.41	.328	.312	.295
47 D 2997	8-173	8	.80	.636	.53	.424	.403	.382
47 D 2999	10-173	10	.98	.78	.65	.52	.494	.468

Cinch-Jones Terminal, Fanning Strips

SERIES 140, 141, 142 BARRIER-TYPE TERMINALS

Barriers interposed between terminal positions for more insulation. Follow edge of strips, terminate at base. Insure positive contact with strips at right. Series 140, 5-40x3/16" binder-head screws; 141, 6-32x1/4; 142, 8-32x5/16".

Series 140. Leakage path between terminals is 3/8". Base is 7/8" wide x 5/8" high. Use with Series 160 fanning strips.

Stock No.	Mfr's Type	Term.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1580	1-140	1	.19	.15	.125	.10	.095	.09
47 D 1800	2-140	2	.23	.18	.15	.12	.114	.108
47 D 1801	3-140	3	.26	.21	.175	.14	.133	.126
47 D 1803	4-140	4	.33	.264	.22	.176	.167	.158
47 D 1807	5-140	5	.41	.324	.27	.216	.205	.194
47 D 1802	6-140	6	.47	.372	.31	.248	.236	.223
47 D 1581	7-140	7	.53	.426	.355	.284	.27	.256
47 D 1804	8-140	8	.61	.486	.405	.324	.308	.292
47 D 1582	9-140	9	.68	.54	.45	.36	.342	.324
47 D 1805	10-140	10	.75	.60	.50	.40	.38	.36
47 D 1583	11-140	11	.81	.648	.54	.432	.41	.389
47 D 1806	12-140	12	.89	.708	.59	.472	.448	.425
47 D 1584	13-140	13	.95	.762	.635	.508	.483	.457
47 D 1585	14-140	14	1.03	.822	.685	.548	.521	.493
47 D 1586	15-140	15	1.10	.876	.73	.584	.555	.526
47 D 1587	16-140	16	1.16	.93	.775	.62	.589	.558
47 D 1588	17-140	17	1.23	.984	.82	.656	.623	.59
47 D 1589	18-140	18	1.30	1.04	.865	.692	.657	.623
47 D 1590	19-140	19	1.37	1.09	.91	.728	.692	.655
47 D 1591	20-140	20	1.43	1.15	.955	.764	.726	.688
47 D 1592	21-140	21	1.51	1.21	1.01	.804	.764	.724

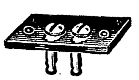
Series 141. Leakage path between terminals is 7/16". Base is 1 1/8" wide x 1/2" high. Use with Series 161 fanning strips.

Stock No.	Mfr's Type	Term.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1835	2-141	2	.25	.198	.165	.132	.125	.110
47 D 1836	3-141	3	.34	.27	.225	.18	.171	.162
47 D 1837	4-141	4	.43	.342	.285	.228	.217	.205
47 D 1842	5-141	5	.52	.414	.345	.276	.262	.248
47 D 1838	6-141	6	.59	.474	.395	.316	.30	.284
47 D 1831	7-141	7	.70	.558	.465	.372	.353	.335
47 D 1839	8-141	8	.78	.624	.52	.416	.395	.374
47 D 1739	9-141	9	.86	.69	.575	.46	.437	.414
47 D 1840	10-141	10	.96	.768	.64	.512	.486	.461
47 D 1740	11-141	11	1.04	.834	.695	.556	.528	.50
47 D 1841	12-141	12	1.13	.90	.75	.60	.57	.54
47 D 1741	13-141	13	1.22	.972	.81	.648	.616	.583
47 D 1876	14-141	14	1.31	1.04	.87	.696	.661	.626
47 D 1742	15-141	15	1.39	1.11	.925	.74	.703	.666
47 D 1877	16-141	16	1.48	1.18	.95	.788	.749	.709
47 D 1743	17-141	17	1.57	1.25	1.05	.836	.794	.752
47 D 1878	18-141	18	1.66	1.33	1.11	.884	.84	.796
47 D 1744	19-141	19	1.75	1.40	1.17	.932	.885	.839
47 D 1879	20-141	20	1.84	1.47	1.23	.98	.931	.882

Series 142. Leakage path between terminals is 9/16". Base is 1 5/16" wide x 5/8" high. Use with Series 162 fanning strips.

Stock No.	Mfr's Type	Term.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1670	2-142	2	.30	.24	.20	.16	.152	.144
47 D 1671	3-142	3	.41	.324	.27	.216	.205	.194
47 D 1672	4-142	4	.51	.408	.34	.272	.258	.245
47 D 1673	5-142	5	.62	.492	.41	.328	.312	.295
47 D 1674	6-142	6	73	.582	.485	.388	.369	.349
47 D 1679	7-142	7	.84	.672	.56	.448	.426	.403
47 D 1676	8-142	8	.95	.756	.63	.504	.479	.454
47 D 1681	9-142	9	1.05	.84	.70	.56	.532	.504
47 D 1678	10-142	10	1.17	.936	.78	.624	.593	.562
47 D 1682	11-142	11	1.28	1.02	.85	.68	.646	.612
47 D 1680	12-142	12	1.39	1.11	.925	.74	.703	.666
47 D 1881	13-142	13	1.50	1.20	1.00	.80	.76	.72
47 D 1882	14-142	14	1.61	1.29	1.08	.86	.817	.774
47 D 1883	15-142	15	1.73	1.38	1.15	.92	.874	.828
47 D 1884	16-142	16	1.84	1.47	1.23	.98	.931	.882
47 D 1886	17-142	17	1.95	1.56	1.30	1.04	.988	.936

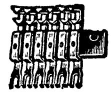
H. H. SMITH TERMINAL STRIPS



For a variety of connecting applications—as audio amplifier output terminals, antenna terminals, power supply output terminals, etc. Made of black 3/32" bakelite. Screw-type terminals are cadmium-plated with tinned lugs. Av., wt. 4 oz.

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	EACH 1-99	100-249	250-499	500-999
47 D 1875	902	2	1 1/2"	.21	.17	.16	.14
47 D 1880	903	3	2"	.28	.23	.21	.19
47 D 1885	904	4	2 1/2"	.34	.27	.26	.23
47 D 1890	905	5	3"	.41	.34	.32	.28
47 D 1895	906	6	3 1/2"	.46	.37	.35	.31
47 D 1897	907	7	4"	.52	.42	.39	.35
47 D 1898	908	8	4 1/2"	.59	.47	.44	.39

FANNING STRIPS



Insure positive, firm connections. Laminated 3/32" bakelite strips; hole in either end for fastening cable with clamp or lacing twine—all are left hand mounting. .032" cadmium-plated brass terminals. **Prefix in Type No. indicates number of terminals.**

Series 160L. Fit Series 140 barrier terminals on 3/8" ctrs. 1/2" wide.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
47 D 1812	4-160L	.44	.35	.29	.28	.16
47 D 1813	5-160L	.47	.37	.31	.30	.17
47 D 1814	6-160L	.51	.41	.34	.33	.19
47 D 1810	7-160L	.54	.43	.36	.35	.21
47 D 1817	8-160L	.59	.47	39	.38	.23
47 D 1811	9-160L	.62	.49	.41	.40	.26
47 D 1818	10-160L	.66	.53	.44	.43	.29
47 D 1819	12-160L	.74	.59	.49	.48	.34

Series 161L. Fit Series 141 barrier terminals on 7/16" ctrs. 5/8" wide.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
47 D 1822	2-161L	.36	.29	.24	.23	.12
47 D 1823	3-161L	.39	.31	.26	.25	.14
47 D 1824	4-161L	.44	.35	.29	.28	.16
47 D 1827	5-161L	.47	.37	.31	.30	.17
47 D 1828	6-161L	.51	.41	.34	.33	.19
47 D 1829	8-161L	.59	.47	.39	.38	.23
47 D 1832	10-161L	.66	.53	.44	.43	.29
47 D 1833	12-161L	.74	.59	.49	.48	.34

Series 162L. Fit Series 142 barrier terminals on 9/16" ctrs. 5/8" wide.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
47 D 1834	2-162L	.39	.31	.26	.25	.12
47 D 1843	3-162L	.41	.32	.27	.26	.14
47 D 1844	4-162L	.44	.35	.29	.28	.16
47 D 1845	5-162L	.47	.37	31	.30	.17
47 D 1846	6-162L	.50	.40	.33	.32	.19
47 D 1847	8-162L	.56	.44	.37	.36	.24
47 D 1848	10-162L	.62	.49	.41	.40	.29
47 D 1849	12-162L	.68	.54	.45	.44	.35

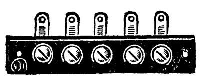
ADAPTER SOLDER TERMINALS

"Y" "3/4W"

For use with barrier terminals. Permit topside or underside solder connections. Types 3/4W and W for topside; Type Y for underside. Types 141-J and 95B (not formed) are jumpers. Tinned brass. **In pkgs. of 50.**

Stock No.	Mfr's Type	For Series	PER PKG. OF 50 1-9	10-19	20-99
47 D 1400	3/4W-140	140	1.25	1.15	1.00
47 D 1401	3/4W-141	141	1.75	1.55	1.40
47 D 1402	3/4W-142	142	2.00	1.80	1.55
47 D 1403	W-140	140	1.25	1.15	1.00
47 D 1404	W-141	141	1.75	1.55	1.40
47 D 1405	W-142	142	2.00	1.80	1.55
47 D 1406	W-150	150	3.75	3.40	3.00
47 D 1407	Y-140	140	1.25	1.15	1.00
47 D 1408	Y-141	141	1.75	1.55	1.40
47 D 1409	Y-142	142	2.00	1.80	1.55
47 D 1410	141-J	140&141	1.25	1.15	1.00
47 D 1411	95B	142	3.75	3.40	3.00

SERIES 17 TERMINAL STRIPS



Sturdy bakelite screw-type terminal strips. Ideal for any equipment that requires multiple outputs. All are 1/16" wide except *3/32". Have solder-coated brass terminals for easy soldering; terminals are mounted on 7/16" centers. All have 9/64" mounting holes. **In pkgs. of 5.**

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	PER PKG. OF 5 1-19	20-99
47 D 1253	17-1	1	7/8"	.25	.13
47 D 1254	17-2	2	1 5/16"	.35	.185
47 D 1255	17-3	3	1 3/4"	.50	.265
47 D 1256	17-4	4	2 3/16"	.70	.345
47 D 1257	17-5	5	2 5/8"	.85	.42
47 D 1258	17-6	6	3 1/16"	1.00	.50
47 D 1260	17-7	7	3 1/2"	1.25	.62
47 D 1261	17-8	8	3 15/16"	1.40	.70
47 D 1262	17-9	9	4 3/8"	1.55	.79
47 D 1264	17-10*	10	4 13/16"	1.75	.87

Cable Clamps. For fanning strips, terminal strips, etc. Nickel-plated brass; 6-32 round head-screws. Sizes below are inside diameter.

Stock No.	Mfr's Type	Size	EACH 1-24	25-49	50-99	100-249	250-499
47 D 1852	161-4	1/4"	.15	.12	.10	.08	.076
47 D 1853	161-6	3/8"	.16	.126	.105	.084	.08
47 D 1854	161-8	1/2"	.17	.132	.11	.088	.084

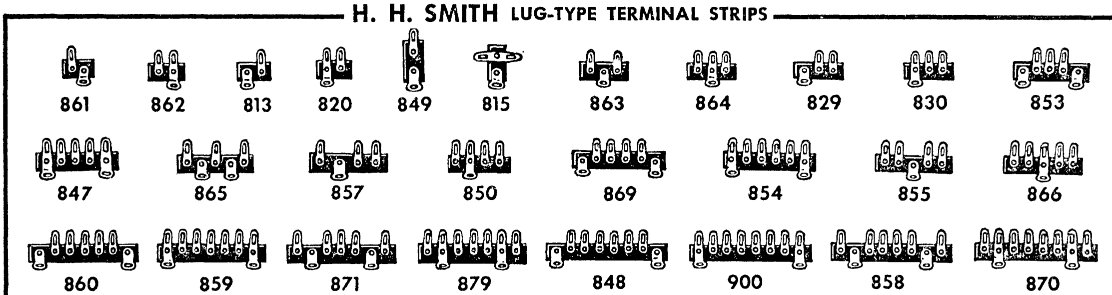
Marker and Terminal Strips

CINCH-JONES MARKER STRIPS

For barrier strips on preceding page. Act as insulators. 1/32" black fiber. Mtg. holes match those in corresponding barrier strips. Middle figure in Type No. indicates number of contacts; last three figures indicate corresponding barrier strip series.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
47 D 3300	MS-2-140	.23	.22	.21	.20	.10
47 D 3302	MS-3-140	.23	.22	.21	.20	.10
47 D 3303	MS-4-140	.23	.22	.21	.20	.10
47 D 3304	MS-5-140	.23	.22	.21	.20	.10
47 D 3305	MS-6-140	.24	.23	.22	.21	.11
47 D 3306	MS-7-140	.24	.23	.22	.21	.11
47 D 3307	MS-8-140	.24	.23	.22	.21	.11
47 D 3308	MS-9-140	.24	.23	.22	.21	.11
47 D 3309	MS-10-140	.24	.23	.22	.21	.11
47 D 3310	MS-11-140	.25	.235	.225	.215	.12
47 D 3311	MS-12-140	.25	.235	.225	.215	.12
47 D 3312	MS-13-140	.25	.235	.225	.215	.12
47 D 3313	MS-14-140	.25	.235	.225	.215	.12
47 D 3314	MS-15-140	.25	.235	.225	.215	.12
47 D 3315	MS-16-140	.26	.24	.23	.22	.13
47 D 3316	MS-17-140	.26	.24	.23	.22	.13
47 D 3317	MS-18-140	.26	.24	.23	.22	.13
47 D 3318	MS-19-140	.26	.24	.23	.22	.13
47 D 3319	MS-20-140	.26	.24	.23	.22	.13
47 D 3320	MS-21-140	.26	.24	.23	.22	.13
47 D 3321	MS-2-141	.23	.22	.21	.20	.10
47 D 3322	MS-3-141	.23	.22	.21	.20	.10
47 D 3323	MS-4-141	.23	.22	.21	.20	.10
47 D 3324	MS-5-141	.23	.22	.21	.20	.10
47 D 3325	MS-6-141	.24	.23	.22	.21	.12
47 D 3326	MS-7-141	.24	.23	.22	.21	.12
47 D 3327	MS-8-141	.24	.23	.22	.21	.12
47 D 3329	MS-10-141	.24	.23	.22	.21	.12
47 D 3331	MS-12-141	.25	.235	.225	.215	.14
47 D 3332	MS-13-141	.25	.235	.225	.215	.14
47 D 3333	MS-14-141	.25	.235	.225	.215	.14
47 D 3334	MS-15-141	.25	.235	.225	.215	.14
47 D 3335	MS-16-141	.26	.24	.23	.22	.15
47 D 3340	MS-18-141	.26	.24	.23	.22	.15
47 D 3341	MS-19-141	.26	.24	.23	.22	.15
47 D 3342	MS-20-141	.26	.24	.23	.22	.15
47 D 3343	MS-2-142	.23	.22	.21	.20	.11
47 D 3344	MS-3-142	.23	.22	.21	.20	.11
47 D 3345	MS-4-142	.23	.22	.21	.20	.11
47 D 3346	MS-5-142	.23	.22	.21	.20	.11
47 D 3347	MS-6-142	.23	.22	.21	.20	.11
47 D 3348	MS-7-142	.24	.23	.22	.21	.13
47 D 3349	MS-8-142	.24	.23	.22	.21	.13
47 D 3350	MS-9-142	.24	.23	.22	.21	.13
47 D 3351	MS-10-142	.24	.23	.22	.21	.13
47 D 3352	MS-11-142	.24	.23	.22	.21	.13
47 D 3353	MS-12-142	.25	.24	.23	.22	.15
47 D 3354	MS-13-142	.25	.24	.23	.22	.15
47 D 3355	MS-14-142	.25	.24	.23	.22	.15
47 D 3356	MS-15-142	.25	.24	.23	.22	.15
47 D 3357	MS-16-142	.30	.29	.28	.27	.19
47 D 3358	MS-17-142	.30	.29	.28	.27	.19

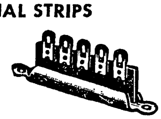
H. H. SMITH LUG-TYPE TERMINAL STRIPS



Dark brown bakelite strips, measuring 1/16" thick x 3/8" wide. For a wide variety of applications in electronics. Equipped with solder-coated steel lugs that have 3/8" centers. 9/64" diameter mounting holes. *10 terminal strips per package.*

Stock No.	Mfr's Type	PER PKG. OF 10 1-49	50-99	100-249
47 D 4320	861	.22	.204	.179
47 D 4321	862	.24	.222	.196
47 D 4322	813	.25	.232	.204
47 D 4323	820	.25	.232	.204
47 D 4324	849	.30	.278	.244
47 D 4325	815	.32	.296	.26
47 D 4326	863	.30	.278	.244
47 D 4327	864	.30	.278	.244
47 D 4328	829	.28	.26	.228
47 D 4329	830	.30	.278	.244
47 D 4330	853	.45	.416	.366
47 D 4331	847	.55	.507	.446
47 D 4332	865	.45	.416	.366
47 D 4333	857	.40	.37	.324
47 D 4334	850	.40	.37	.324
47 D 4335	869	.51	.47	.414
47 D 4336	854	.55	.507	.446
47 D 4337	855	.35	.324	.284
47 D 4338	866	.40	.37	.324
47 D 4339	860	.60	.554	.486
47 D 4340	859	.60	.554	.486
47 D 4341	871	.55	.507	.446
47 D 4342	879	.65	.60	.527
47 D 4343	848	.67	.62	.545
47 D 4344	900	.65	.60	.527
47 D 4345	858	.70	.645	.565
47 D 4346	870	.72	.667	.588

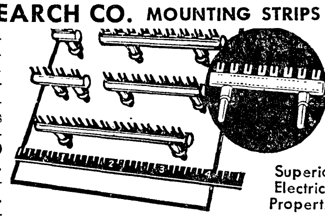
H. H. SMITH SERIES 3000 TERMINAL STRIPS



Sturdy junction terminal strips. Extremely useful in assembling electronic equipment, wiring terminal boards, test panels, etc. Terminals are made of .019" thick brass, tin-plated for easy soldering. Terminals are spaced on 5/16" centers. Insulated strip is constructed of rugged, molded bakelite. Have sturdy, cadmium-plated steel mounting base with mounting hole at each end. Available with 2 to 13 terminals. Sold *in packages of 5.*

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	PER PKG. OF 5 1-24	25-99	100-199	200-Up
47 D 1462	3002	2	1"	.30	.27	.25	.22
47 D 1463	3003	3	1 5/16"	.35	.31	.28	.25
47 D 1464	3004	4	1 5/8"	.39	.35	.32	.29
47 D 1465	3005	5	1 15/16"	.43	.39	.36	.33
47 D 1466	3006	6	2 1/4"	.48	.43	.40	.36
47 D 1467	3007	7	2 9/16"	.53	.47	.43	.39
47 D 1468	3008	8	2 7/8"	.57	.51	.47	.42
47 D 1469	3009	8	3 3/16"	.61	.55	.51	.45
47 D 1470	3010	10	3 1/2"	.66	.59	.55	.48
47 D 1471	3011	11	3 13/16"	.70	.63	.58	.52
47 D 1475	3012	12	4 1/8"	.75	.67	.62	.54
47 D 1476	3013	13	4 7/8"	.82	.74	.66	.59

SCIENTIFIC RESEARCH CO. MOUNTING STRIPS



Superior Electrical Properties

Polypropylene strips contribute to compact circuitry. Dielectric constants are 400% better than phenolic, 200% better than ceramic. Loss factors are 200 times better than phenolic, 30 times better than ceramic. Fastened and pressure fitted by 6-32 speed nut. Lightweight, non-breakable. **Last digit in type No. indicates number of terminals.** Supplied in various lengths, from 19/32" to 3 15/64". 5 per pkg.

Stock No.	Mfrs Type	Lgth.	PER PKG. OF 5 1-19	20-99	100-199	200-999
47 D 3106	MS-1-PP-2	19/32"	.63	.531	.459	.443
47 D 3107	MS-1-PP-3	57/32"	.63	.531	.459	.443
47 D 3108	MS-1-PP-4	1 3/16""	.83	.70	.605	.569
47 D 3109	MS-1-PP-5	1 15/32"	.83	.70	.605	.569
47 D 3110	MS-1-PP-7	2 1/16"	.83	.70	.605	.569
47 D 3111	MS-1-PP-9	2 31/32"	.98	.832	.718	.675
47 D 3112	MS-1-PP-11	3 15/64"	.98	.832	.718	.675

Plugs, Jacks, Strips, Clips, Snaps, Studs

FAHNSTOCK SPRING CLIPS

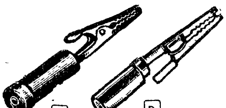

A

B

Spring clips offering positive, reliable contact but extremely easy to connect and disconnect. *Made of bronze. All others brass. 10 clips per package.

Stock No.	Mfr's Type	Fig.	Length	Width	Max. Wire	Mtg. Hole	PER PACKAGE 1-9	10-99	100-Up
47 D 1700	2	A	1"	3/8"	#10	#8	.25	.22	.21
47 D 1702	3	A	1 1/16"	3/8"	#10	#8	.32	.28	.24
47 D 1705	10	A	3/4"	5/16"	#14	#6	.20	.18	.17
47 D 1703	5	B	1 1/16"	3/8"	#10	#8	.36	.32	.30
47 D 1707	15*	B	1/2"	7/32"	#16	#4	.20	.18	.17

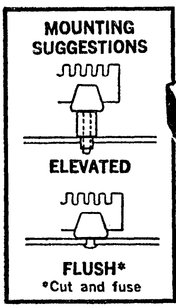
H. H. SMITH INSULATED ALLIGATOR CLIPS

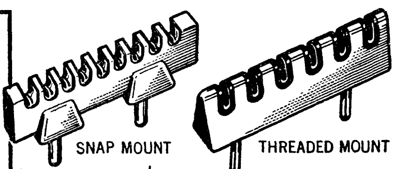

C D

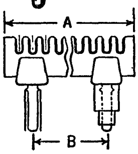
Have plastic insulated handles. Types 304 and 305 are Fig. C; others, Fig. D. Clips are cadmium-plated steel. 336 and 337 are all insulated to prevent shock or grounding. All accept std. tip plug except *tip and banana plug; †banana plug.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-249	250-499	500-999
47 D 1300	304	Red	With tip jack adapter	.33	.30	.28	.25
47 D 1305	304	Black	With tip jack adapter	.33	.30	.28	.25
47 D 1168	*305	Red	With tip & banana jack	.39	.35	.33	.30
47 D 1169	*305	Black	With tip & banana jack	.39	.35	.33	.30
47 D 1373	336	Red	With tip jack adapter	.36	.33	.30	.27
47 D 1374	336	Black	With tip jack adapter	.36	.33	.30	.27
47 D 1382	†337	Red	With banana plug adapt.	.24	.22	.20	.18
47 D 1383	†337	Black	With banana plug adapt.	.24	.22	.20	.18

ALCOSTRIP CERAMIC TERMINAL STRIPS







Simplify component replacement. Permanent bond between metal and ceramic; not an adhesion, but "fired" to prevent metal from loosening. Especially suitable where components need to be resoldered and removed again and again. Tinned copperplate on silvered ceramic facilitates soldering of components and leads. Are superior to commonly used temperature affected plastics, as high temperature qualifications allow strips to withstand excessive heat. Available in snap or thread mounting. Specifications include: Dielectric Strength; more than 10 seconds at 1500 VDC between terminals; Insulation Resistance; over 1000 megohms at 500 VDC megger; Dip Solder Test: no exfoliation at 250°C for 5 seconds; Materials: terminal strip, steatite; bushing, polypropolyne. From Japan. Manufactured under license by Tektronix. *Indicates number of terminals.

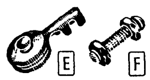
SNAP MOUNT TYPES

Stock No.	Type MEP-	Dimensions "A"	"B"	PER PKG. OF 10 1-2	3-9	10-49	50-99
47 D 6750	NB-3*	.600"	......	4.80	3.25	2.90	2.60
47 D 6751	NB-5*	.885"	.490"	6.60	4.50	3.95	3.55
47 D 6752	NB-7*	1.165"	.490"	8.10	5.45	4.80	4.35
47 D 6753	NB-9*	1.445"	.750"	8.70	5.90	5.20	4.70
47 D 6754	NB-13*	2.140"	1.500"	11.10	7.55	6.65	6.00
47 D 6755	NB-16*	2.440"	1.500"	13.50	9.20	8.10	7.30
47 D 6756	NB-20*	3.020"	2.520"	16.50	11.20	9.90	8.90

THREAD MOUNT TYPES

Stock No.	Type MEP-	Dimensions "A"	"B"	PER PKG. OF 5 1-4	5-19	20-99	100-199
47 D 6757	2*	.650"	......	1.80	1.20	1.05	.95
47 D 6758	4*	1.161"	.512"	2.25	1.50	1.25	1.15
47 D 6759	6*	1.673"	1.024"	3.00	2.00	1.70	1.55
47 D 6760	8*	2.185"	1.535"	3.75	2.50	2.10	1.95
47 D 6761	10*	2.697"	2.047"	4.35	2.90	2.45	2.25
47 D 6762	12*	3.209"	2.560"	4.95	3.30	2.80	2.55

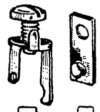
NU-WAY SNAPS AND STUDS


E F

Make or break contacts for temporary or permanent connections. A quick and simple way to join wires together. Snap connectors fit threaded studs in table, or flush-mounting lugs, listed below. May be cascaded together for multiple connections. Snaps have solder lug. Stud has threaded screw shaft with nut for panel or chassis mounting. Shpg. wt., per 100, 12 oz. 100 per package.

Stock No.	Fig.	Description	Size	PER PACKAGE 1-9	10-Up
47 D 4450	E	Snaps	7/16" Dx7/8" L	7.90	6.50
47 D 4452	F	Threaded Stud	6 3/32x1/2"	5.00	4.30

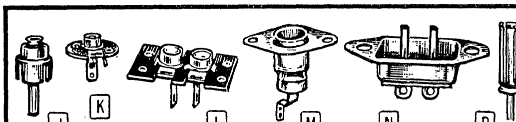
TERMINAL AND FLUSH-MOUNT LUGS


G H

G Terminal Lugs. Screw-mount to chassis, terminal boards, etc. 2 solder lugs; one with hole, other grooved. 10 per package.
47 D 1767. 1-9 Pkgs. .... Per Pkg. .51
10-49 Pkgs. .... Per Pkg. .46
50-99 Pkgs. .... Per Pkg. .43
100-499 Pkgs. .... Per Pkg. .39

H Nu-Way Flush-Mount Lugs. Fit Nu-Way snaps, as shown above. For temporary or permanent connections. Have hole for 6-32 mtg. screw. Wt., per 100, 12 oz. 100 per package.
47 D 4451. 1-9 Pkgs. .... Per Pkg. 5.00
10 or More Pkgs. .... Per Pkg. 4.30

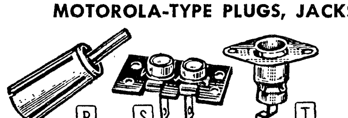
CINCH-JONES PLUGS AND JACKS


J K L M N P

Top-quality plugs and jacks for use with hi-fi systems, auto radios, TV sets, transceivers, etc. Type 13A phono pin plug fits 81A both and 81B jacks. 13B Motorola-type antenna plug fits 81C and 81F shielded connectors. 81A on 1/16" bakelite mounting disc; Mounting centers: 81A, 11/16"; 81B, 1 3/16"; 81F, 15/16"; 2RP1, 1 1/4". Plug Type 2RP and Type 2RP1 subpanel-mounting plugs are each 1 5/8x5/8x5/16"; Type 2RP1 has one-piece contact.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-99	100-999
47 D 1064	13A	J	Phono Pin Plug	.04	.039
47 D 1065	13B	P	Antenna Plug	.17	.086
47 D 1066	13C1	.....	Insulated Pin Plug	.13	.068
47 D 1072	81A	K	Single Phono Pin Jack	.12	.063
47 D 1073	81B	L	Double Phono Pin Jack	.22	.113
47 D 1081	81C	.....	Ant. Conn. (Shell-type)	.14	.072
47 D 1091	81F	M	Ant. Conn. (Flange-type)	.21	.108
47 D 1098	2RP	N	Recessed Plug	.17	.087
47 D 1099	2RP1	.....	Recessed Plug	.11	.059

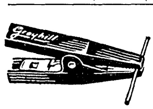
H. H. SMITH
MOTOROLA-TYPE PLUGS, JACKS, PHONO JACKS


R S T

Type 1200 Motorola-type plug designed to connect coaxial antenna lead-in to auto radio; pin diameter 1/8". Type 1207 Motorola female connector; mounts in 15/32" hole. Type 1214 consists of 2 phono jacks on a 1 1/2x1" base.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-49	50-99	100-499
47 D 1152	1200	R	Motorola Type Plug	.11	.10	.09	.082
47 D 1144	1207	T	Motorola Connector	.18	.16	.15	.135
47 D 1179	1214	S	Double Jack Assembly	.10	.09	.08	.075

GRAYHILL INSULATED TEST CLIPS

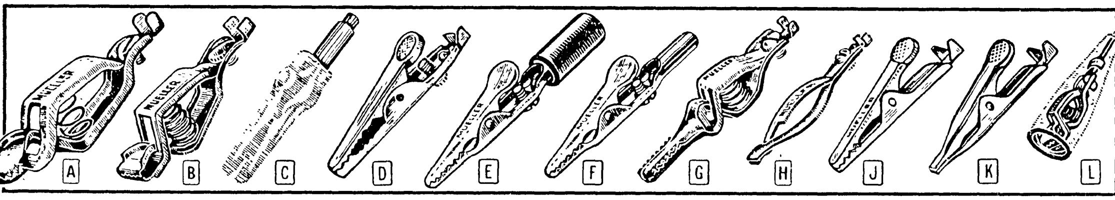


Type 16. Molded parts are phenolic to MIL-M-14. .008" silver overlay at point of contact. Contact res., .0015 ohms. Silver-plated brass terminals. 500-v. insulation test. 2" long.
47 D 5264. Red.... .85 47 D 5265. Black.................. .85

ATTENTION INDUSTRIAL BUYERS

Allied supplies industrial quantities at factory OEM prices. Write, wire, or phone your man at Allied for prompt price quotations.

Mueller General-Purpose Test Clips



3-SIDED MESH-TEETH CLIPS

[A] §Cadmium-plated steel; *solid copper jaws; †with insulation-piercing needle; ‡solid bronze. #Wt. per 100 pieces.

Stock No.	Mfr's Type	A.	Size	#Wt., Lbs.	EACH 1-9	10-99	100-499	500-999
47 D 5074	§25	40	3″	6	.22	.16	.133	.126
47 D 5015	§27	20	2 7/16″	3 1/4	.15	.10	.086	.082
47 D 5097	*27C	40	2 7/16″	3 1/2	.24	.17	.144	.137
47 D 5010	§48B	10	2″	2	.12	.086	.074	.07
47 D 5078	*48C	20	2″	2 1/4	.17	.12	.104	.098
47 D 5087	‡†50C	20	2 1/4″	2 1/2	.28	.20	.166	.158
47 D 5088	‡51C	20	2 1/4″	2 1/2	.20	.137	.118	.112

"PEE-WEE" TEST CLIPS

[B] Mesh-teeth type for general purpose applications. Type 45C of solid copper. Type 45 of cadmium-plated steel.

47 D 5000	45	5	1 1/2″	1	.09	.06	.05	.048
47 D 5005	45C	10	1 1/2″	1 1/4	.14	.10	.085	.08

HEAVY-DUTY SOLID COPPER CLIPS

[B] High-conductivity, solid copper clips. Handle current loads of up to 200 amps. Lbs. per 100 pcs.: *6 3/4, †18, §41.

Stock No.	Mfr's Type	Amps	Marking	Size	EACH 1-9	10-99	100-499	500-999
47 D 5073	*25C	75	unmarked	3″	.43	.30	.26	.24
47 D 5031	†21C	100	plus sign	4 1/2″	1.05	.73	.63	.60
47 D 5032	†21C	100	unmarked	4 1/2″	1.05	.73	.63	.60
47 D 5033	§11C	200	plus sign	6″	1.96	1.37	1.18	1.12
47 D 5034	§11C	200	unmarked	6″	1.96	1.37	1.18	1.12

LEAD-PLATED BATTERY CLIPS

[B] For moderately heavy current loads, including battery charging, electroplating, and light welding. Lead-plated steel for complete protection and long life. Lbs. per 100 pcs.: *6 3/4, †15, §36.

47 D 5021	*24A	25	plus sign	2 7/8″	.24	.163	.14	.133
47 D 5022	*24A	25	unmarked	2 7/8″	.24	.163	.14	.133
47 D 5023	†21A	50	plus sign	4″	.43	.30	.26	.246
47 D 5024	†21A	50	unmarked	4″	.43	.30	.26	.246
47 D 5027	§11A	100	unmarked	6″	1.12	.78	.67	.64

INSULATED ALLIGATOR CLIPS

[C] §Cadmium-plated steel; *solid copper. Insulated with vinyl to protect against shocks and shorts. Av. per 100 pcs., 1 3/4 lbs.

47 D 5145	§63	5	Red insul.	2 1/8″	.19	.13	.11	.105
47 D 5146	§63	5	Black insul.	2 1/8″	.19	.12	.11	.105
47 D 5147	*63C	10	Red insul.	2 1/8″	.22	.15	.13	.124
47 D 5148	*63C	10	Black insul.	2 1/8″	.22	.15	.13	.124

SERIES 70 ALLIGATOR CLIPS

[D] Streamlined, simplified design. No. 70, cadmium-plated steel, solder connection; No. 70S, cadmium-plated steel, screw connections. No. 70CS, solid copper, screw connection. 1 lb. per 100.

47 D 5170	70	5	....	1 11/16″	.07	.042	.036	.034
47 D 5171	70S	5	....	1 11/16″	.08	.05	.043	.041
47 D 5172	70CS	10	....	1 11/16″	.11	.077	.066	.063

INSULATED-BARREL ALLIGATOR CLIPS

[E] Made of cadmium-plated steel, except Types 60CHS are solid copper. Jaws open 5/16″. 1 1/2 lbs. per 100 pcs.

Stock No.	Mfr's Type	Size	Barrel Color	EACH 1-9	10-99	100-499	500-999
47 D 5070	60HS	2 1/32″	Red	.12	.08	.069	.066
47 D 5075	60HS	2 1/32″	Black	.12	.08	.069	.066
47 D 5090	60CHS	2 1/32″	Red	.15	.106	.091	.086
47 D 5095	60CHS	2 1/32″	Black	.15	.106	.091	.086

SERIES 60 ALLIGATOR CLIPS

[F] Steel, except 60CS, solid copper. *Insulation-piercing needle. Fit banana plugs. Jaws open 5/16″. 2″ long. 1 lb. per 100.

Stock No.	Mfr's Type	Connection	EACH 1-9	10-99	100-499	500-999
47 D 5200	60	Solder	.07	.048	.042	.039
47 D 5065	60S	Screw	.08	.058	05	.047
47 D 5080	60CS	Screw	.12	.086	.074	.07
47 D 5069	*60NS	Screw	.18	.13	.11	.104

CROCODILE CLIPS

[G] Cadmium-plated steel, except Type 85C is solid copper. Type 85T has phone tip on one jaw. Wt., 1 1/2 lbs. per 100.

Stock No.	Mfr's Type	Size	Description	EACH 1-9	10-99	100-499	500-999
47 D 5060	85	2 1/8″	Screw Connection	.10	.071	.061	.058
47 D 5062	85C	2 1/8″	Screw Connection	.19	.13	.112	.106
47 D 5098	85T	2 5/8″	Tip-Clip	.25	.173	.148	.14

NON-FERROUS RF TEST CLIP

[H] Phosphor bronze clip with brass screw. Ideal for tapping small transmitter coils, high-frequency work, and for work in crowded chassis and other close-quarter areas. Wt., 3/4 lb. per 100.

47 D 5055	88	1 11/16″	For coils	.24	.167	.143	.136

"MINI-GATOR" CLIPS

[J] Ideal for testing miniature and subminiature equipment. 3/16″ jaw opening. 11/64″ O.D. tip. Type 30, cadmium-plated steel; Type 30C, solid copper. Shpg. wt., 1/4 lb. per 100.

Stock No.	Mfr's Type	Amps	Size	EACH 1-9	10-99	100-499	500-999
47 D 5142	30	5	1 1/16″	.07	.049	.042	.04
47 D 5143	30C	10	1 1/16″	.09	.061	.053	.05

"MICRO-GATOR" CLIPS

[K] Similar to "Mini-gators" but with tiny tip for clipping to small terminals, and as heat sink. §Cadmium-plated steel; * copper.

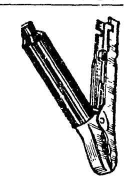
47 D 5176	§34	......	1 3/32″	.06	.041	.036	.034
47 D 5177	*34C	......	1 3/32″	.08	.053	.046	.043

SLIP-ON INSULATORS FOR CLIPS

[L] Tough, flexible vinyl insulators for above clips. Offer high dielectric strength; resistant to oils and grease. Cover entire clip except for end of nose. Provide safety when clipping to high voltage sources, prevent shorts. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Color	Use With Series	EACH 1-9	10-99	100-499	500-999
47 D 5036	13	Red	11	.80	.56	.48	.45
47 D 5037	13	Black	11	.80	.56	.48	.45
47 D 5038	23	Red	21	.40	.28	.237	.225
47 D 5039	23	Black	21	.40	.28	.237	.225
47 D 5041	26	Red	24, 25	.21	.15	.13	.12
47 D 5042	26	Black	24, 25	.21	.15	.13	.12
47 D 5043	29	Red	27	.13	.09	.076	.072
47 D 5044	29	Black	27	.13	.09	.076	.072
47 D 5046	32	Red	30	.05	.03	.025	.024
47 D 5047	32	Black	30	.05	.03	.025	.024
47 D 5051	36	Red	34	.05	.03	.025	.024
47 D 5052	36	Black	34	.05	.03	.025	.024
47 D 5053	47	Red	45	.06	.04	.035	.033
47 D 5054	47	Black	45	.06	.04	.035	.033
47 D 5056	49	Red	48, 50	.09	.065	.054	.052
47 D 5057	49	Black	48, 50	.09	.065	.054	.052
47 D 5058	62	Red	60, 70	.05	.035	.03	.028
47 D 5059	62	Black	60, 70	.05	.035	.03	.028
47 D 5061	72	Red	70	.05	.035	.03	.028
47 D 5063	72	Black	70	.05	.035	.03	.028
47 D 5064	87	Red	85	.06	.04	.035	.033
47 D 5066	87	Black	85	.06	.04	.035	.033

"HIPPO" AND "PIGMY HIPPO-CLIPS"

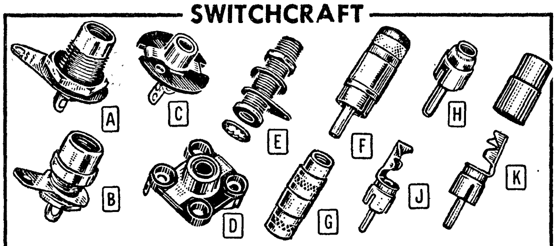


Strong full-channel-constructed plier clips with two vinyl insulating sleeves. Handles are full size to the end for greater strength and current capacity. Standard "Hippos" are 6″ long, have 1 9/16″ jaw opening. "Pigmy-Hippos" are 3″ long, have 1 1/8″ jaw opening. Built-in solder strap and cable clinching ears. Bright copper-plated steel. Type 41A is standard size; Type 46A, "Pigmy." Wt. per 100: *41 lbs.; †5 3/4 lbs.

Stock No.	Mfr's Type	Amps	Sleeve Color	Marking	EACH
47 D 5077	41A*	100	Black	minus sign	.75
47 D 5076	41A*	100	Red	plus sign	.75
47 D 5072	46A†	50	Black	unmarked	.25
47 D 5071	46A†	50	Red	unmarked	.25

Adapters, Connectors, Jacks and Plugs

SWITCHCRAFT



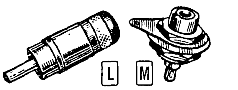
PHONO JACKS AND PLUGS

Series 3501, 3502, 3503, 371. Easy-to-install phono jacks and phono plugs. 3501FR for rear panel mounting in 3/8" hole—fits panel to 13/64" thick. 3501FP for front panel mtg. in 1/4" hole—fits panel to 1/8". 3501F and 3501M are std. 2-cond. audio connectors. 371 adapts phono jack for mtg. in panels to 1 1/2" thick; use with 3501-FP. 3503 extension jack is shielded, has removable 13/32" O.D. shell with cable clamp. 3502 has 13/32" O.D. shielded handle. 3501MC is unshielded, has 3/8" O.D. shell with crimping-type cable clamp.

New Series 3508, 3511, 3512. Series 3511 and 3512 are new molded "4-Leaf Clover Jax" with dual contact surfaces for minimum shunt resistance, greater reliability. In addition, offers choice of two different circuit arrangements each grounded or ungrounded. Type 3511, open circuit; 3511A, open circuit ground; 3512, closed circuit; 3512A, closed circuit ground. Series 3508 provides color coded phono plugs with cable clamp and "snap-on" plastic handles in red, black or white—simplify stereo wiring. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4900	3501FR	A	Jack	.27	.248	.225	.18	.171	.162
47 D 4902	3501FP	B	Jack	.21	.193	.175	.14	.113	.126
47 D 1574	3501F	C	Jack	.09	.083	.075	.06	.057	.054
47 D 4904	371	E	Jack Adapt.	.75	.688	.625	.50	.475	.475
47 D 1778	3503	G	Ext. Jack	.39	.358	.325	.26	.247	.234
47 D 1762	3502	F	Plug	.30	.275	.25	.20	.19	.18
47 D 1763	3501MC	J	Plug	.09	.083	.075	.06	.057	.054
47 D 1599	3501M	H	Plug	.06	.055	.05	.04	.038	.036
47 D 1607	3511	D	Panel Jack	.18	.165	.15	.12	.114	.108
47 D 1608	3511A	D	Panel Jack	.18	.165	.15	.12	.114	.108
47 D 1609	3512	D	Panel Jack	.21	.193	.175	.14	.133	.126
47 D 1610	3512A	D	Panel Jack	.21	.193	.175	.14	.133	.126
47 D 1575	3508-1	K	Plug, Red	.15	.138	.125	.10	.095	.09
47 D 1576	3508-2	K	Plug, Black	.15	.138	.125	.10	.095	.09
47 D 1577	3508-2	K	Plug, White	.15	.138	.125	.10	.095	.09

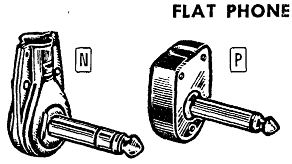
RF PHONO JACK AND PLUG



Nylon insulation. 2-conductor. Jack for front-of-panel mounting. With hardware. Plug has long screw-on handle for easy gripping and cable clamp for cord-strain relief. 2 oz.

47 D 1501	3507	L	Plug	.48	.44	.40	.32	.304	.288
47 D 1500	3505F	M	Jack	.36	.33	.30	.24	.228	.216

FLAT PHONE PLUGS



1/4" flat phone plugs for use where space is limited. Ideal for back-of-chassis use. Have removable plastic cap for easy connection of wire leads. Tip rods are 1 3/16" long. All metallic parts of nickel plated brass. Types 220 and 225 accept standard phone tips. Take cables to .250" O.D. Type S-230 has .206" dia. sleeve. Screw type terminals except *solder. Types 228 and 238 are shielded. 4 oz.

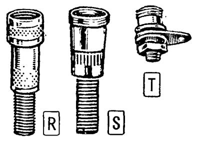
2 CONDUCTOR

Stock No.	Mfr's Type	Fig.	Handle Color	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1621	220	P	Black	.75	.688	.625	.50	.475	.45
47 D 1567	225	P	Red	.75	.688	.625	.50	.475	.45
47 D 1502	227*	P	Black	.60	.55	.50	.40	.38	.36
47 D 2968	228*	N	Metal	.66	.605	.55	.44	.418	.396

3 CONDUCTOR

47 D 1568	230	P	Black	.93	.853	.775	.62	.589	.558
47 D 2970	S-230	P	Black	1.20	1.10	1.00	.80	.75	.72
47 D 1569	235	P	Red	.93	.853	.775	.62	.589	.558
47 D 1503	237*	P	Black	.90	.825	.75	.60	.57	.54
47 D 2969	238*	N	Metal	.99	.908	.825	.66	.627	.594

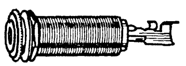
SWITCHCRAFT "MINI-CON" MINIATURE MICROPHONE-TYPE CONNECTORS



Popular Mini-Con microphone-type connectors. About 1/2 size of standard mike connectors. For use with single-conductor shielded cables to 3/16" O.D. Nickel-plated brass bodies. Coupling ring on 5501F removable for quick change of female to male type. Cable-braid spring clamped to body by hollow set screw. 5501 MP fits 3/16" hole. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4920	5501F	R	Female	.39	.358	.325	.26	.247	.234
47 D 4925	5501M	S	Male	.30	.275	.25	.20	.19	.18
47 D 4927	5501MP	T	Panel, male	.24	.22	.20	.16	.152	.144

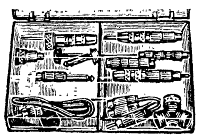
THICK-PANEL MOUNTING JACKS



Have extra long bushings for use in panels up to 1 1/4" thick. Ideal for wall paneling and hi-fi installations. Jacks are shielded for microphone use. Take standard 1/4" phone plugs. Require 15/32" mounting hole. Both have solder terminals and cord-strain relief clamp. Length, 2 5/16". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Cond.	Use With "Littel Plugs"	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4908	151	2	240, 245, 250, 255, 270, 280	.90	.825	.75	.60	.57	.54
47 D 4912	152B	3	260, 267, 269, 297	.99	.908	.825	.66	.627	.594

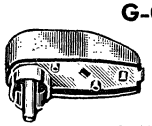
HANDY 331A ADAPTER KIT



Consists of 11 audio adapters and one interconnecting cable in a plastic box. Includes one each of the following adapter types: 25AF25—36" shielded cable with phono plug each end; 25Y mike-connector Y-adapter; 330F1 flexible Y-adapter with phono connectors; 332A, 2-cond. phone jack input to female mike output; 334A, phono jack input to female mike connector output; 336A, phone jack input to phono plug output; 336B, phone jack input to phono jack output; 345, phono jack input to phone plug output; Two each: Type 44 adapter, male mike input to phone plug output; Type 349 coupler, phono jacks at each end. Shpg. wt., 1 lb.

47 D 4906 .... 9.60

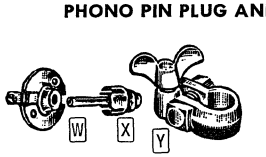
G-C SOLDERLESS PHONO PLUGS



Right-angle solderless phono plugs for shielded cable with approximately 3/16" O.D. Require only stripping of cable, insertion of cable in shell and tightening of assembly with 2 screws. Length, 1 7/32"; tip, 1/8" dia. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Color	EACH 1-9	10-99	100-499
47 D 6117	33-776	Gray plastic shell	.31	.28	.21
47 D 6118	33-778	Black plastic shell	.31	.28	.21
47 D 6119	33-780	Red plastic shell	.31	.28	.21
47 D 6120	33-782	Yellow plastic shell	.31	.28	.21
47 D 6121	33-784	Blue plastic shell	.31	.28	.21

PHONO PIN PLUG AND JACK—BINDING POST



X **Shielded Phono Pin Plug.** Excellent for radios, phonos, etc. Pin dia. 1/8", lgth., 9/16". Shpg. wt., 1 oz. **10 per pkg.**

W **Single-Prong Jack** for use with pin plug above. On 1/16" bakelite disc. 11/16" mtg. ctrs. Shpg. wt., 1 oz. **10 per pkg.**

Y **Battery Binding Post.** Hole tapers 5/8" to 3/4" diameter. **1 per pkg.**

Stock No.	Description	PER PKG. 1-5	6-29	30-59	60-299
47 D 6057	Pin Plug	.29	.26	.24	.22
47 D 6058	Pin Jack	.43	.38	.35	.32
47 D 1785	Bind. Post	.56	.51	.47	.425

SWITCHCRAFT® Phone Jacks and Phone Plugs

"SF-JAX" SHORT-FRAME JACK

Ruggedly designed jacks requiring a minimum of panel depth. Short frame supports springs parallel to mtg. surface. Long springs without "forms" assure minimum fatigue. Tubing runs through entire stack and frame. Overall length: Series 20, 1²⁹⁄₃₂"; C-54B, 1⅝" (military insulation and finish—JJ-101). Take std. ¼" plugs. Fit ⅜" dia. hole. Av. shpg. wt., 3 oz.

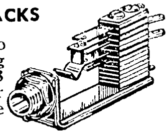
2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4917	22A	II	.54	.495	.45	.36	.342	.324

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4907	24B	VII	.72	.66	.60	.48	.456	.432
47 D 4943	C-54B	VI	1.05	.963	.875	.70	.665	.63

"LF-JAX" LONG-FRAME JACKS



Long frame supports springs perpendicular to mtg. surface. Action of mating plug with long springs insures max. spring life. 3 conductors. 3 amps max. Tubing press fit through stack for tight assembly. Length: 3⅜". Fit ⅜" hole. Take std. ¼" plugs. With nut; washer. 3 oz.

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4910	32B	III	.63	.578	.525	.42	.399	.378
47 D 4951	34B	VI	.78	.715	.65	.52	.494	.468

"LITTEL-JAX" PHONE JACKS

Dependable phone jacks. Take standard ¼" phone plugs, except *S-11 which takes S250, S280 and 385 plugs, and †C-12B which takes 480 military-type "Littel-Plug" and **14B which takes standard "Littel-Plugs." Stereo "Littel-Jax" type 14B is specially designed for switching out speakers when 3-wire stereo headphones are plugged in. Dual, normally closed contacts open both circuits when 3-conductor standard Littel-Plug is inserted. All are ¾" dia., 1⁹⁄₃₂" overall length, and have ⅜" dia. threaded shank, ⁹⁄₃₂" long, except §⅜" long. With nut and washer. 3 oz.

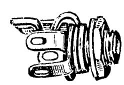
2-CONDUCTOR TYPES

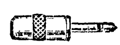
Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4955	11	I	.27	.248	.225	.18	.171	.162
47 D 4957	C-11	I	.39	.358	.325	.26	.247	.234
47 D 4959	§L-11	I	.33	.303	.275	.22	.209	.198
47 D 4961	*S-11	I	.30	.275	.25	.20	.19	.18
47 D 4963	12A	II	.30	.275	.25	.20	.19	.18
47 D 4965	C-12A	II	.48	.44	.40	.32	.304	.288
47 D 4967	§L-12A	II	.36	.33	.30	.24	.22	.216

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4969	12B	III	.36	.33	.30	.24	.228	.216
47 D 4971	†C-12B	III	.48	.44	.40	.32	.304	.288
47 D 4973	13B	IV	.51	.468	.425	.34	.323	.306
47 D 4924	**14B	VII	.63	.578	.525	.42	.399	.378

MICRO-JAX AND MICRO-PLUGS



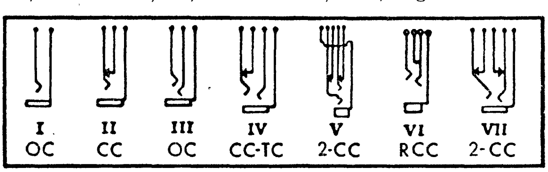


Ultraminiature 2-conductor plugs and jack. Plugs only 1¹⁄₆₄" long. Mate TR-2A jack, ¹⁷⁄₃₂" long. Take cables to ⁷⁄₆₄" dia. Screw-on shield handles and cable clamps. Jack has nylon insulation, nickel alloy springs, solder lugs. Can be used as open or closed circuit. Fits .190" hole. Av. shpg. wt., 2 oz.

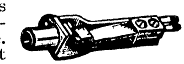
Stock No.	Mfr's Type	Description	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 2554	850	Plug (black handle)	.45	.413	.375	.30	.285	.27
47 D 2555	855	Plug (red handle)	.45	.413	.375	.30	.285	.27
47 D 2556	880	Plug (silver handle)	.45	.413	.375	.30	.285	.27
47 D 4995	TR-2A	Jack (silver)	.30	.275	.25	.20	.19	.18

JACK SCHEMATIC DIAGRAMS

In the schematic diagrams shown below, OC indicates open circuit; CC, closed circuit; TC, transfer circuit; RCC, ring closed circuit.



"MT-JAX" AND "T-JAX" SWITCHBOARD-TYPE JACKS



Rugged, press-welded steel frame. All types have nickel-silver-alloy springs to ensure maximum spring life and corrosion resistance. Military types beginning with "MT" meet MIL-J-641(A), and have welded-crossbar palladium contacts. Nonmilitary types beginning with "T" have fine silver contacts. Standard ¼" bushing. Size: ¹³⁄₁₆" wide, ⁹⁄₁₆" high, and 3⁷⁄₁₆" overall length. Shpg. wt., 3 oz.

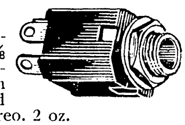
2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1604	MT-332A	II	.87	.798	.725	.58	.551	.522
47 D 4911	T-332A	II	.72	.66	.60	.48	.456	.432

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1606	MT-332B	III	.87	.798	.725	.58	.551	.522
47 D 4916	T-332B	III	.72	.66	.60	.48	.456	.432
47 D 1478	MT-334B	V	1.05	.963	.875	.70	.665	.63
47 D 4919	T-334B	V	.96	.88	.80	.64	.608	.576

"HI-D JAX"



High-density phone jack for commercial applications. Only ⅝" square; weighs only 7⅛ grams—especially suitable for PCs. Nickel-silver-plated springs. Mount in ⅜" hole in panels up to ⁵⁄₃₂" thick. Take standard 2 and 3-conductor ¼" plugs. With hdwe. *For stereo. 2 oz.

2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4929	111	I	.27	.248	.225	.18	.171	.162
47 D 4934	112A	II	.30	.275	.25	.20	.19	.18

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4953	112B	III	.33	.303	.275	.22	.209	.198
47 D 4954	113B	IV	.45	.413	.375	.30	.285	.27
47 D 4998	113F	VI	.45	.413	.375	.30	.285	.27
47 D 4999	*114B	VII	.51	.468	.425	.34	.323	.306

N-Series "Hi-D" Jax. Prefix "N" on manufacturer's Type No. designates nylon bushing. Insulates sleeve terminal from mounting panel, eliminating possible source of noise and crosstalk. Specifications same as above. *For stereo applications. 2 oz.

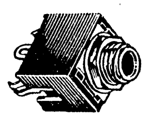
2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4986	N-111	I	.36	.33	.30	.24	.228	.216
47 D 4990	N-112A	II	.39	.358	.325	.26	.247	.234

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4988	N-112B	III	.42	.385	.35	.28	.266	.252
47 D 4992	*N-114B	VII	.57	.523	.475	.38	.361	.342

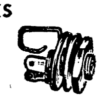
"TINI-D-JAX" ENCLOSED PHONE JACK



Completely enclosed, subminiature 2-conductor phone jacks. Fully insulated molded plastic housing protects nickel-plated contact springs. Mate with "Tini-Plugs." ½" long, ⅜" wide, ⅝" depth behind panel. Bushing ¼"-32 thd. x .203" long, on Type 142A. PC-142A is not threaded; terminals snap into PC boards. 2 oz.

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4956	142A	II	.30	.275	.25	.20	.19	.18
47 D 4958	PC-142A	II	.33	.303	.275	.22	.209	.198

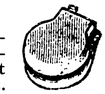
"TINI-JAX" MINIATURE PHONE JACKS



Extra small, 2-conductor jacks for use with "Tini-Plugs" listed on following page. Miniature types with all features of "Littel-Jax" above, yet only one-third the size. ²¹⁄₃₂" long; fit ¼" dia. hole. 2 oz.

Stock No.	Mfr's Type	Diagram	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4983	41	I	.27	.248	.225	.18	.171	.162
47 D 4985	42A	II	.30	.275	.25	.20	.19	.18

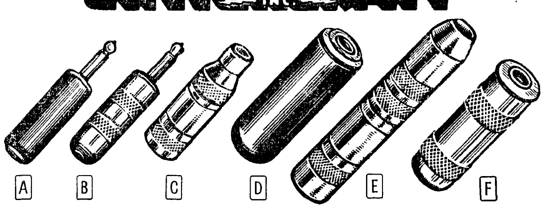
JACK COVERS

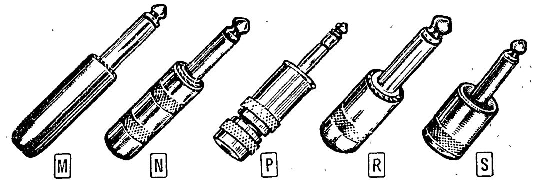


Rugged spring-loaded covers. Provide dust- and moistureproof seals over jack openings. Use with conventional ⅜"-32 threaded bushing jacks. Special locknut seals into rubber washer inside cover. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Color	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1491	512	Nickel	.69	.633	.575	.46	.437	.414
47 D 1492	515	Black	.69	.633	.575	.46	.437	.414
47 D 1493	520	Gray	.69	.633	.575	.46	.437	.414

SWITCHCRAFT INC. Plugs and Extension Jacks





"TINI-PLUGS" SUBMINIATURE PHONE PLUGS

A B For use with "Tini-Jax" listed on preceding page. $1\frac{5}{8}$" overall length. 2-conductor. Handles are plastic or nickeled brass. §Screw terminals; all others solder terminals. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Handle	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1518	740§	A	Black	.51	.468	.425	.34	.323	.306
47 D 1519	745§	A	Red	.51	.468	.425	.34	.323	.306
47 D 1520	750	A	Black	.48	.44	.40	.32	.304	.288
47 D 1521	755	A	Red	.48	.44	.40	.32	.304	.288
47 D 1522	770§	B	Shielded	.69	.633	.575	.46	.437	.414
47 D 1523	780	B	Shielded	.69	.633	.575	.46	.437	.396

C Type 125 "Tini-Extension Jax." 2-conductor; with solder-lug terminals. Mate with "Tini-Plugs." Av. shpg. wt., 2 oz.
47 D 1472. 1-24....Ea. 1.08 25-49....Ea. .81 50-99. .Ea. .743
100-249....Ea. .675 250-499....Ea. .54 500-999.......Ea. .513

"EXTENSION JAX" CABLE EXTENSION JACKS

D E F Open circuit. Fit std. $\frac{1}{4}$" plugs. $\frac{11}{16}$" O.D. $2\frac{5}{32}$" long; 121 and 131, $\frac{1}{2}$" O.D., $2\frac{1}{2}$" long. Black handles, plastic; shielded are nickeled brass. §Screw terminals, others solder. 3 oz.

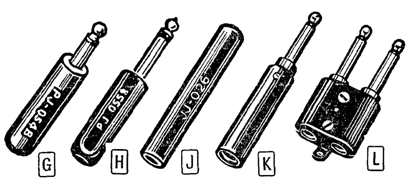
2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	Handle	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1571	80§	D	Black	.75	.688	.625	.50	.475	.45
47 D 1718	88	D	Black	.66	.605	.55	.44	.418	.396
47 D 1572	120§	F	Shielded	1.02	.935	.85	.68	.646	.612
47 D 1473	121	E	Shielded	1.08	.99	.90	.72	.684	.648

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	Handle	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1474	131	E	Shielded	1.35	1.24	1.13	.90	.855	.81
47 D 2971	830§	D	Black	1.20	.935	.85	.68	.646	.612
47 D 1717	1230§	F	Shielded	1.32	1.21	1.10	.88	.836	.792

MILITARY-TYPE "LITTEL-PLUGS" AND EXTENSION JACK



A series of connectors made to meet requirements of military specifications. Terminals pre-tinned brass. All have plural internal interlock; parts will not shift once in position. Black plastic handles, except Type 482 which has red handle. All plugs have screw terminals; meet MIL-P-642A specs, Type 820 extension jack meets MIL-J-642A—fits Type 430 plug.

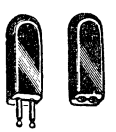
2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	JAN Type	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1731	412	L	PJ-289	2.94	2.70	2.45	1.96	1.86	1.76
47 D 4890	430	G	PJ-054 B	.90	.825	.75	.60	.57	.54
47 D 4892	440	G	PJ-055 B	.90	.825	.75	.60	.57	.54
47 D 4896	820	J	JJ-026	1.20	1.10	1.00	.80	.76	.72

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	JAN Type	1-24	25-49	50-99	100-249	250-499	500-999
47 D 4898	480	H	PJ-068	2.16	1.98	1.80	1.44	1.37	1.31
47 D 1730	482	K	PJ-051	2.40	2.20	2.00	1.60	1.52	1.44
47 D 1508	483	K	PJ-051B	2.40	2.20	2.00	1.60	1.50	1.44

TYPE 410 PLUG AND TYPE 810 JACK



Miniature, 2-cond. extension jack and mating plug. Plug is Signal Corps Type PJ-291; jack, JJ-048. 2-piece, molded construction with EM-1 insulation per MIL-P-3412. Plug has solder-cup terminals; jack, solder lugs. After wiring, shells must be cemented. Overall size (engaged), $2\frac{5}{8}$x$1\frac{7}{32}$x$\frac{7}{32}$". 3 oz.

Stock No.	Mfr's Type	Desc.	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 4886	410	Plug	.60	.55	.50	.40	.38	.36
47 D 4888	810	Jack	.72	.66	.60	.48	.456	.432

"LITTEL-PLUG" PHONE PLUGS

Fit std. $\frac{1}{4}$" phone jacks, except S250 and S280 have .206"-dia. sleeve to mate S-11 "Littel-Jax;" R280 has short sleeve for Revere recorders. §Screw terminals, others solder terminals. Plugs with solder terminals have cable clamp. Metal (shielded) handles are nickel-plated brass. Handles, $1\frac{11}{16}$" long; $\frac{1}{2}$" diameter. Av. shpg. wt., 4 oz.

2-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	Handle Color	EACH 1-24	25-49	50-99	100-249	250-499	500-999
47 D 1553	240§	M	Black	.51	.468	.425	.34	.323	.306
47 D 1554	245§	M	Red	.51	.468	.425	.34	.323	.306
47 D 1611	250	M	Black	.60	.55	.50	.40	.38	.288
47 D 1614	S250	M	Black	.51	.468	.425	.34	.323	.306
47 D 1612	255	M	Red	.60	.55	.50	.40	.38	.208
47 D 1573	270§	N	Metal	.72	.66	.60	.48	.456	.432
47 D 1613	280	N	Metal	.69	.633	.575	.46	.437	.414
47 D 1556	R280	N	Metal	.90	.825	.75	.60	.57	.54
47 D 1719	S280	N	Metal	.69	.633	.575	.46	.437	.414

3-CONDUCTOR TYPES

Stock No.	Mfr's Type	Fig.	Handle Color	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1555	260§	M	Black	.81	.748	.675	.54	.513	.486
47 D 1616	267	M	Black	.72	.66	.60	.48	.456	.432
47 D 2967	290§	N	Metal	.96	.88	.80	.64	.608	.576
47 D 1617	297	N	Metal	.90	.825	.75	.60	.57	.54

STANDARD PHONE PLUGS

$\frac{1}{4}$" plugs. Metal (shielded), red or black bakelite handles; $2\frac{1}{16}$" long, $\frac{3}{4}$" dia., except *1" long. 170 and 190A have $2\frac{1}{16}$x$1\frac{1}{16}$" 2-piece handle with cable clamp for $\frac{1}{4}$" cable. Av. shpg. wt., 5 oz.

2-CONDUCTOR TYPES WITH SCREW TERMINALS

Stock No.	Mfr's Type	Fig.	Handle Color	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1557	40	M	Black	.51	.468	.425	.34	.323	.306
47 D 1447	45	M	Red	.51	.468	.425	.34	.323	.306
47 D 1559	70	N	Metal	.84	.77	.70	.56	.532	.504
47 D 1561	160*	S	Metal	.66	.605	.55	.44	.418	.396
47 D 1562	170	P	Metal	1.11	1.02	.925	.74	.703	.666

3-CONDUCTOR TYPES WITH SOLDER TERMINALS

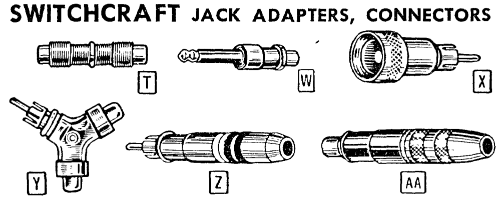
Stock No.	Mfr's Type	Fig.	Handle Color	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1558	60	M	Black	.69	.633	.575	.46	.437	.414
47 D 1560	90*	S	Metal	.90	.825	.75	.60	.57	.54
47 D 1507	190	N	Metal	1.05	.963	.875	.70	.665	.63
47 D 1563	190A	P	Metal	1.32	1.21	1.10	.88	.836	.792

"LUG-PLUG" PHONE PLUGS

Low-cost, two-conductor phone plugs. All fit standard $\frac{1}{4}$" jacks. Have solder terminals. Exterior parts bright nickel plated. Type 350 has black plastic handle $1\frac{5}{8}$" long, $\frac{1}{2}$" diameter. Type 380 has shielded, bare metal handle. 1" long. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Handle Color	1-24	25-49	50-99	100-249	250-499	500-999
47 D 1564	350	M	Plastic	.39	.358	.325	.26	.247	.234
47 D 1566	380	R	Metal	.51	.468	.425	.34	.323	.306

SWITCHCRAFT JACK ADAPTERS, CONNECTORS

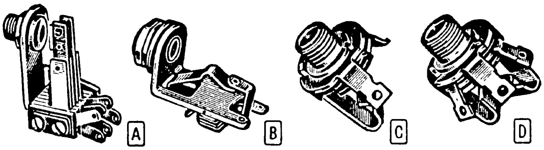


349A connects two lines with pin plugs. 345A converts pin plug to phone plug. 338B pin plug with mike connector. 4 oz.

Stock No.	Type	Fig.	Description	EACH
47 D 1774	349A	T	Double-ended Phono Pin Jack	.75
47 D 0382	345A	W	Phono Pin Jack; Phone Plug	.87
47 D 1795	338B	X	Mic; Phono Pin Plug	.84
47 D 1764	330F	Y	2 Phono Pin Jacks; Phono Pin Plug	1.17
47 D 1772	336A	Z	Phone Jack; Phono Pin Plug	1.17
47 D 1720	336B	AA	Phone Jack; Phono Pin Jack	1.17

Mallory and H. H. Smith Plugs and Jacks

MALLORY STANDARD PHONE JACKS



JUNIOR PHONE JACKS

[A] For standard 1/4" phone plugs. Require only 1 5/16" behind panel. Cadmium-plated frames with nickel-plated brass shank, springs, and hardware. 3/8" dia. threaded shank for panels up to 1/4" thick. Silver contacts. "Cond." indicates number of conductors in mating plug. †See diagrams below, right. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Cond.	† Diagram	EACH 1-9	10-49	50-99	100-249	250-499
47 D 1054	701	2	I	.45	.405	.375	.338	.30
47 D 1751	702A	2	II	.57	.513	.475	.428	.38
47 D 1058	702B	3	III	.57	.513	.475	.428	.38
47 D 1059	703B	3	IV	.60	.54	.50	.45	.40
47 D 1755	704	3	VI	.69	.621	.575	.518	.46
47 D 1060	704B	3	VI	.69	.621	.575	.518	.46

MIDGET AND INFANT PHONE JACKS

[B] All take 1/4" phone plugs. "Midget" type jacks require only 1 9/32" mounting space behind panel; "Infant" type requires only 7/8" behind panel. Cadmium-plated steel frames with nickel-plated brass shank, springs, and mounting hardware. 3/8" threaded shank for panels up to 1/4" thick. Column headed "Cond." indicates number of conductors in mating plug. All are "Midget" type except A-1 "Infant" type jack (not illustrated). Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Cond.	Diagram	EACH 1-9	10-49	50-99	100-249	250-499
47 D 1050	A-1	2	I	.33	.297	.275	.248	.22
47 D 1051	A-2	2	VII	.48	.432	.40	.36	.32
47 D 1053	A-2A	2	II	.57	.513	.475	.428	.38
47 D 1056	A-3A	2	VIII	.66	.594	.55	.495	.44

LA JACKS

[C] Have 3/8"-32 threaded bushings. Contacts are silver-plated brass. Mounting behind panel approx. 1". 1/2" diameter.

Stock No.	Mfr's Type	Cond.	Diagram	EACH 1-9	10-49	50-99	100-249	250-499
47 D 1757	LA-1	2	I	.36	.324	.30	.27	.24
47 D 1760	LA-2	2	VII	.42	.378	.35	.315	.28
47 D 1761	LA-2A	2	II	.48	.432	.40	.36	.32

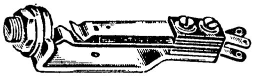
MILITARY-TYPE SC JACKS

Commercial equivalents of military types complying with JAN-J-641 specification. Both require 7/8" mounting space behind panel. Type SC-1A has 3/8" dia. threaded shank, 3/8" long. Type SCA-2B has 5/16" dia. threaded shank, 5/16" long. Shpg. wt., 3 oz.

[C] **Type SC-1A.** Equiv. to military jack JJ-034. Open circuit. 2-cond., see Diagram I. Takes std. 1/4" plugs including Mallory 75; Western Electric Nos. 47A and 47B; Nos. PL-47, PL-48, PL-55, PL-148, PL-155, PL-125, PJ-055, PJ-155, PJ-634, PJ-636, and PJ-047.
47 D 1642. 1-9....... Each .36 10-49................ Each .32
50-99....... Each .30 100-249.... Each .27 250-499...... Each .24

[D] **Type SCA-2B.** Equivalent to military jack No. JJ-033. Open circuit, 3-conductor jack, see Diagram III. Takes all 3-conductor plugs with .206" diameter sleeves, including Western Electric 109; Military Nos. PL-68, PL-168, PJ-068, PJ-168, and PJ-309.
47 D 1643. 1-9........ Each .42 10-49.............. Each .378
50-99........ Each .35 100-249... Each .315 250-499..... Each .28

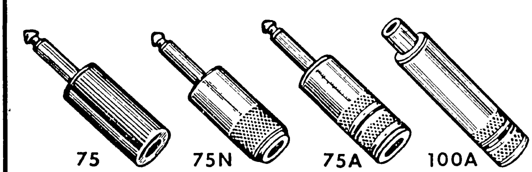
LONG-FRAME STANDARD PHONE JACKS



All take standard 1/4" phone plugs. Mount in panels up to 1/4" thick by means of 3/8" diameter threaded shank. Silver contacts. Nickel-plated springs and bushings, cadmium-plated frames. Size, 3 1/8x 1 1/8x 9/16" wide. *Indicates number of conductors in mating plug. †Indicates switching arrangement (below, right). Shpg. wt., 3 oz.

Stock No.	Mfr's Type	*Cond.	† Diagram	EACH 1-9	10-49	50-99	100-249	250-499
47 D 1745	1	2	I	.45	.405	.375	.338	.30
47 D 1746	2	2	VII	.57	.513	.475	.428	.38
47 D 1747	2A	2	II	.57	.513	.475	.428	.38
47 D 1770	2B	3	III	.57	.513	.475	.428	.38
47 D 1775	3B	3	IV	.60	.54	.50	.45	.40
47 D 1776	4B	3	VI	.75	.675	.625	.563	.50
47 D 1055	5	2	IX	.90	.81	.75	.675	.60

PLUGS AND JACKS



STANDARD AND MINIATURE PHONE PLUGS

For headphones, microphones, and other applications. 2-conductor plugs have built-in tie-cord anchor for terminal strain relief. Shielded handles are nickel-plated brass with knurling for sure grip; others are molded phenolic. Screw-type terminals accommodate tip jacks or wire. Types 75A and 76A have cable clamp built into handle for strain relief. 75, 75N, 75A are 2-way phone plugs. 76 and 76A are 3-way microphone plugs (not illustrated, but similar to 75 and 75A, respectively). Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Term.	Handle Type	Lgth.	EACH 1-9	10-49	50-99	100-249	250-499
2 CONDUCTOR									
47 D 1641	75	Screw	Phenolic	1 1/2"	.45	.405	.375	.338	.30
47 D 1640	75N	Screw	Shielded	1 5/8"	.66	.594	.55	.495	.44
47 D 1937	75A	Screw	Shielded	1 13/16"	1.05	.954	.875	.788	.70
3 CONDUCTOR									
47 D 1941	76	Solder	Phenolic	1 9/16"	.90	.81	.75	.675	.60
47 D 1942	76A	Solder	Shielded	1 13/16"	1.17	1.05	.975	.878	.78

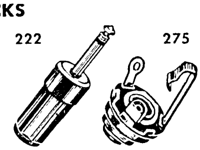
STANDARD EXTENSION JACKS

Type 100A. 2-conductor with shielded, nickel-plated brass handle and built-in cable clamp. Screw terminals. For standard 1/4" phone plugs. Length, 3 1/16". Shpg. wt., 2 oz.
47 D 1940. 1-9....... Each 1.50 10-49................ Each 1.35
50-99...... Each 1.25 100-249.... Each 1.12 250-499..... Each 1.00

H. H. SMITH

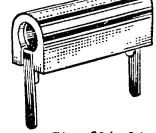
PLUGS AND JACKS

Type 222 is standard 1/4", 2-conductor phone plug. Has screw terminal, plastic handle. Fits 275 jack or other std. phone jack; overall length, 2 7/8". 275 open-circuit jack has 3/8"—32 threaded shank, 9/32" long; requires 1" behind panel. With mtg. hdwe. Av. wt., 2 oz.



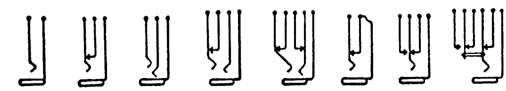
Stock No.	Mfr's Type	Description	EACH 1-99	100-249	250-499	500-999
47 D 1017	222	Phone Plug (black)	.39	.35	.33	.29
47 D 1018	222	Phone Plug (red)	.39	.35	.33	.29
47 D 1019	275	Std. Phone Jack	.27	.24	.23	.20

TYPE 430 RIGHT-ANGLE TEST JACK



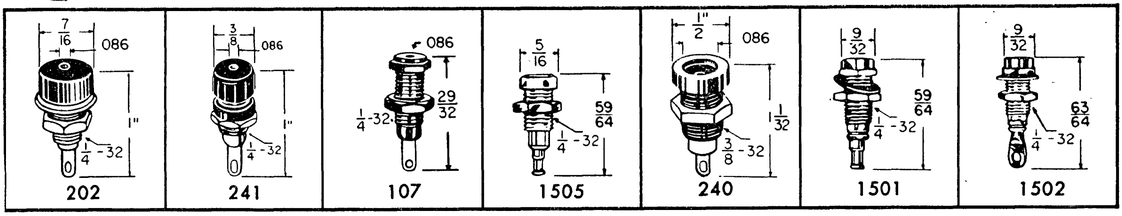
Provides reliable test-point connections on printed circuit boards, using minimum of space. Accepts standard .080" dia. probe tips at either end. Snaps into .052" dia. holes on .400" centers in boards up to 3/16" thick; solders in place. Nylon per MIL-P-20693A; mechanical tests per MIL-STD-202B. Rated 5 amps and 1.5 kv, 60 cycle AC continuous. Size, 29/64x3/16x 5/32". Sold in packages of 10. Specify color: White, Red, Black, Green, Blue, Orange, Yellow, Gray. 10 per pkg. Shpg. wt., per pkg. 3 oz.
47 D 1989 C. 1-9......... Pkg. 1.00 10-24........... Pkg. .90
25-49..................... Pkg. .83 50-99............. Pkg. .75

JACK SCHEMATIC DIAGRAMS



I	II	III	IV	VI	VII	VIII	IX
Open	Closed	Open	Closed	Short	Short	Closed	Closed

H. H. Smith Tip and Banana Jacks and Plugs



202 | 241 | 107 | 1505 | 240 | 1501 | 1502

INSULATED TIP JACKS

Tip jacks in table below have molded plastic heads with brass nickel-plated bodies. With hex mounting nut. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3885	202	Red	With phosphor-bronze spring. Supplied with extruded fiber washer for insulated mounting in metal panel.	1.40	1.26	1.17	1.05
47 D 3886	202	Yellow					
47 D 3887	202	Green					
47 D 3888	202	Blue					
47 D 3889	202	Black					
47 D 3890	241	Red	Supplied with molded nylon head and washer.	1.90	1.71	1.60	1.46
47 D 3891	241	Black					
47 D 3892	241	Yellow					
47 D 3893	241	Green					
47 D 3894	241	Blue					

NON-INSULATED TIP JACK

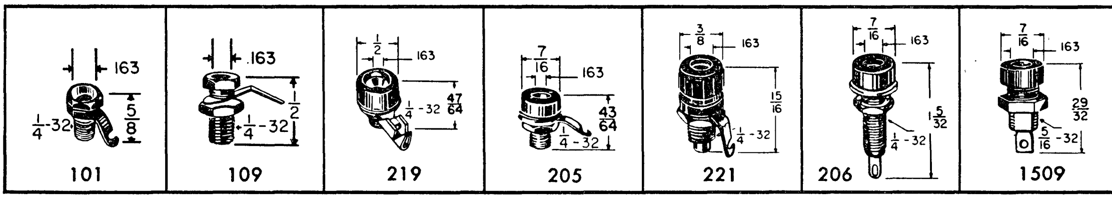
All metal. Brass nickel-plated body. Phosphor-bronze spring. 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3895	107	Nickel-plated	Mounts in ¼″ hole; fits panels to ⅜″ thick.	1.10	.99	.93	.84

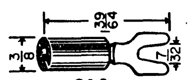
NYLON-INSULATED TIP JACKS

Nylon-insulated body. All accommodate std. phone tip plugs. 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3896	1505	Black	Wrap-around type. Hex head. Mount in ¼″ hole in panels to ¼″ thick.	2.10	1.89	1.75	1.56
47 D 3897	1505	Yellow					
47 D 3898	1505	Green					
47 D 3899	1505	Blue					
47 D 3900	1505	Red					
47 D 3901	240	Red	Phosphor-bronze spring. Mtg. nut. Mt. in ⅜″ hole. Fit to 5/16″ panels. Rated 4000 v.	1.80	1.62	1.50	1.35
47 D 3902	240	Yellow					
47 D 3903	240	Green					
47 D 3904	240	Blue					
47 D 3905	240	Black					
47 D 3906	1501	Red	Wrap around type made to **MS-16108** specifications.	2.88	2.59	2.40	2.16
47 D 3907	1501	Black					
47 D 3908	1501	Yellow					
47 D 3909	1501	Green					
47 D 3910	1501	Blue					
47 D 3911	1501	White					
47 D 3912	1502	Red	Spade type made to **MS-16108** specifications.	4.20	3.78	3.50	3.15
47 D 3913	1502	Black					
47 D 3914	1502	Yellow					
47 D 3915	1502	Green					
47 D 3916	1502	Blue					



101 | 109 | 219 | 205 | 221 | 206 | 1509



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INSULATED SPADE LUG ADAPTER

Banana plug to spade lug adapter. Molded plastic handle. Wires may be soldered to plug or terminated in banana plug. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3917	218	Red	Fork fits binding posts and terminal screws to No. 10.	1.08	.972	.918	.81
47 D 3918	218	Black		1.08	.972	.918	.81

NON-INSULATED BANANA JACK

Bare brass, nickel-plated body. Hex nut. Fits ¼″ hole, ⅜″ panel.

47 D 3919	101	Metal	Tinned lug; takes ban. plug.	1.10	.99	.93	.84
47 D 3920	109	Metal	With solder lug.	1.10	.99	.93	.84

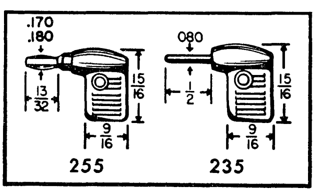
INSULATED BANANA JACKS

Heavy-duty, molded body. Supplied with fiber washer. 2 oz.

47 D 3921	219	Red	Plastic head; nickel-plated brass body; heavy-duty solder lug and mtg. nut.	1.60	1.46	1.32	1.19
47 D 3922	219	Yellow					
47 D 3923	219	Green					
47 D 3924	219	Blue					
47 D 3925	219	Black					

INSULATED BANANA JACKS (Cont'd)

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3926	205	Red	Plastic head; nickel-plated brass body; fit panels up to ⅜″ thick.	1.40	1.26	1.17	1.05
47 D 3927	205	Yellow					
47 D 3928	205	Green					
47 D 3929	205	Blue					
47 D 3930	205	Black					
47 D 3931	221	Red	Nylon head; fit 5/16″ mtg. hole; for panels up to ¼″ thick.	1.90	1.71	1.60	1.46
47 D 3932	221	Black					
47 D 3933	221	Yellow					
47 D 3934	221	Green					
47 D 3935	221	Blue					
47 D 3936	206	Red	Plastic head; nickel-plated brass body; takes banana plug or tip plug; phos.-bronze spring. For ¼″ hole, up to ⅝″ panel.	1.70	1.53	1.42	1.28
47 D 3937	206	Yellow					
47 D 3938	206	Green					
47 D 3939	206	Blue					
47 D 3940	206	Black					
47 D 3941	1509	Red	Molded nylon jack. Locks into panel by means of double "D" body.	1.20	1.08	1.00	.90
47 D 3942	1509	Black					
47 D 3943	1509	Yellow					
47 D 3944	1509	Green					
47 D 3945	1509	Blue					
47 D 3946	1509	White					



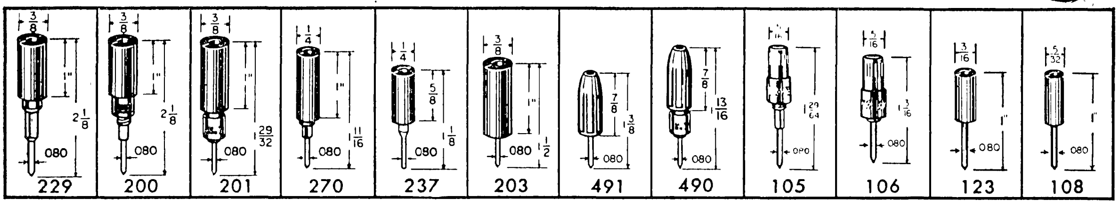
255 | 235

MOLDED RIGHT-ANGLE METER PLUGS

Right-angle plugs with plastic handles. Half shells assemble with one screw and nut. Lead wire solders to body. *Nickel-plated. 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3947	255	Red	4-leaved phosphor-bronze springs.*	3.60	3.24	2.99	2.70
47 D 3948	255	Black					
47 D 3949	235	Red	Maximum wire insulation, 9/64″.	2.70	2.43	2.24	2.03
47 D 3950	235	Black					

H. H. Smith Tip and Banana Plugs



INSULATED TIP PLUGS

Feature nickel-plated brass construction for heavier current applications. Handles are molded thermosetting plastic except Type 237 which is molded butyrate; Types 490 and 491 which are molded nylon; and Type 270 which is fibre. All rated 12 amps AC. 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3951	229	Red	Std. tip; large dia. for soldering heavy-duty wire into nickel-plated brass body.	1.50	1.35	1.25	1.13
47 D 3952	229	Black					
47 D 3953	229	Yellow					
47 D 3954	229	Green					
47 D 3955	229	Blue					
47 D 3956	200	Red	Solderless; wire tightens securely under knurled collar.	1.50	1.35	1.25	1.13
47 D 3957	200	Yellow					
47 D 3958	200	Green					
47 D 3959	200	Blue					
47 D 3960	200	Black					
47 D 3961	201	Red	"Jr" solderless phone tip; wire fastens under knurled collar.	1.50	1.35	1.25	1.13
47 D 3962	201	Black					
47 D 3963	201	Yellow					
47 D 3964	201	Green					
47 D 3965	201	Blue					
47 D 3966	270	Red	Submin.; std. tip, extra small dia.	1.80	1.62	1.50	1.35
47 D 3967	270	Black					
47 D 3968	237	Red	Hollow phone tip, solder-type.	1.10	.99	.93	.84
47 D 3969	237	Black					
47 D 3970	203	Red	Short tip plug for applications where minimum amount of metal can be exposed.	1.20	1.08	1.00	.90
47 D 3971	203	Yellow					
47 D 3972	203	Green					
47 D 3973	203	Blue					
47 D 3974	203	Black					

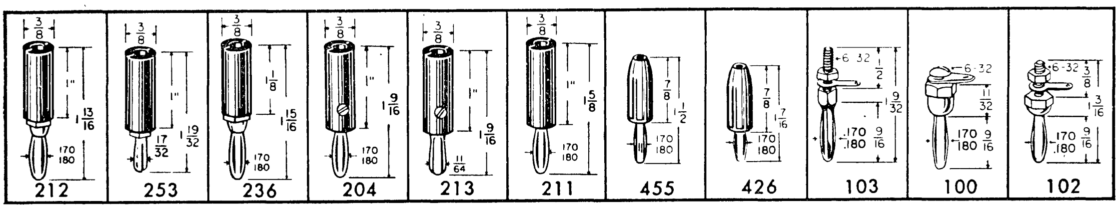
INSULATED TIP PLUGS (Cont'd)

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3977	491	Red	Short, tip plug (7/8" handle). Inserts flush, no metal exposed. Molded nylon handle.	1.38	1.24	1.15	1.04
47 D 3978	491	Black					
47 D 3979	491	Yellow					
47 D 3980	491	Green					
47 D 3981	491	Blue					
47 D 3982	491	White					
47 D 3839	490	Red	Solderless tip plug with molded nylon handle. Threaded type.	1.68	1.51	1.40	1.26
47 D 3840	490	Black					
47 D 3841	490	Yellow					
47 D 3842	490	Green					
47 D 3843	490	Blue					
47 D 3844	490	White					

NON-INSULATED TIP PLUGS

Nickel-plated brass phone tip plugs. Fit standard phone tip jacks. Type 123 has .149" inside diameter for larger wire. All are rated 12 amps AC, for 10°C temperature rise, continuous duty. 2 oz.

47 D 3983	105	Nickel-plated	Solderless, all metal. Wire fastens under knurled collar.	1.10	.99	.93	.84
47 D 3984	106	Nickel-plated	"Jr" solderless, press fit. Wire fastens under knurled collar.	1.10	.99	.93	.84
47 D 3985	123	Nickel-plated	Heavy-duty solder-type.	.26	.23	.22	.20
47 D 3986	108	Nickel-plated	Std. solid phone tip. Solder type.	.21	.19	.18	.16



INSULATED BANANA PLUGS

Insulated banana plugs with unbreakable plastic handles. All are carefully designed, accurately molded, machined of the best materials, and rigidly inspected. Have sufficient spring tension to assure good holding power and minimum contact resistance. 2 oz.

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3988	212	Red	4-leaved phosphor-br. sprg.; hex brass body. Separate internal brass stud for solderless or soldered connection.	2.20	1.98	1.83	1.65
47 D 3989	212	Yellow					
47 D 3990	212	Green					
47 D 3991	212	Blue					
47 D 3992	212	Black					
47 D 3993	253	Red	Cross-slotted body. Separate internal brass stud for solderless or soldered connection.	1.90	1.71	1.60	1.44
47 D 3994	253	Yellow					
47 D 3995	253	Green					
47 D 3996	253	Blue					
47 D 3997	253	Black					
47 D 3998	236	Red	4-leaved ni.-plated phosphor-br. spring. Lead wire conn. thru cross-drilled hole in threaded spacer for solderless connection.	3.50	3.15	3.00	2.70
47 D 3999	236	Black					
47 D 3805	204	Red	4-leaved phosphor-br. nickel-plated sprg. Lead wire conn. with set screw thru handle.	1.90	1.71	1.60	1.44
47 D 3806	204	Yellow					
47 D 3807	204	Green					
47 D 3808	204	Blue					
47 D 3809	204	Black					

INSULATED BANANA PLUGS (Cont'd)

Stock No.	Mfr's Type	Color	Description	PER PKG. OF 10 1-9	10-24	25-49	50-99
47 D 3810	213	Red	Cross-slotted nickel-plated brass body. Lead wire connection with set screw thru handle.	1.80	1.62	1.50	1.35
47 D 3811	213	Yellow					
47 D 3812	213	Green					
47 D 3813	213	Blue					
47 D 3814	213	Black					
47 D 3815	211	Red	4-leaved phosphor-bronze nickel-plated spring. Wire solders to plug or stud; or stud locks wire for solderless connection.	1.90	1.71	1.60	1.44
47 D 3816	211	Black					
47 D 3817	211	Yellow					
47 D 3818	211	Green					
47 D 3819	211	Blue					
47 D 3820	211	White					
47 D 3821	455	Red	4-leaf, phos. bronze. Nylon. Solderless.	2.10	1.89	1.75	1.58
47 D 3822	455	Black					
47 D 3823	426	Red	4-leaf, phos. bronze spring. Nylon. Midget.	1.80	1.62	1.50	1.35
47 D 3824	426	Black					

NON-INSULATED BANANA PLUGS

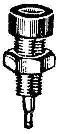
Feature four-leaved, phosphor-bronze nickel plated springs. Each is supplied with terminal lug and hex nut. Shpg. wt., 2 oz.

47 D 3825	103	Nickel plated	Threaded-shank type.	1.50	1.35	1.25	1.13
47 D 3826	100	Nickel-plated	Panel-mtg. type; 6-32 tapped body. Internal threads for panel use.	1.50	1.35	1.25	1.13
47 D 3827	102	Nickel-plated	Threaded-shank type; spring tip.	1.50	1.35	1.25	1.13

Phone, Wire or Write for Prices on Quantities Greater Than Those Indicated

E. F. Johnson Plugs, Jacks, Binding Posts

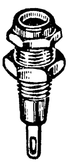
LOW-COST TIP JACKS



Economy-type insulated tip jack. Tough, low-loss molded body. Capacity to ⅛″ metal panel is only 2.0 mmf; voltage breakdown test is 9,000 volts DC. Has formed silver-plated phosphor bronze contact. Current rating: 10 amps. Supplied with ¼″-32 nut for mounting in 17/64″ dia. hole or double-flat keyed hole. No auxiliary mounting hardware required. Overall size, 1 1/32x⅜″ diameter. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6300	105-801	White	.13	.12	.11	.098
47 D 6301	105-802	Red	.13	.12	.11	.098
47 D 6302	105-803	Black	.13	.12	.11	.098
47 D 6303	105-804	Dark Green	.13	.12	.11	.098
47 D 6287	105-810	Dark Blue	.13	.12	.11	.098
47 D 6309	105-807	Yellow	.13	.12	.11	.098

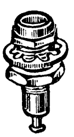
STANDARD METAL-CLAD TIP JACK



Standard series metal-clad tip-jack. Shock-proof plastic and metal construction resists chipping or cracking even with the hardest usage. Highly resistant to extremes of heat, cold and moisture. Nickel-plated machined brass jacket protects nylon body—assures positive fastening to mounting surface. Has formed silver-plated phosphor bronze contact. Rated: 10 amps. Voltage breakdown is 7,000 v. DC; capacity to ⅛″ panel is 3.8 mmf. With ¼″-32 nut. Fit 17/64″ hole. 1 1/16x9/32″ dia. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6310	105-251-1	White	.18	.167	.152	.134
47 D 6311	105-252-1	Red	.18	.167	.152	.134
47 D 6312	105-253-1	Black	.18	.167	.152	.134
47 D 6313	105-254-1	Dark Green	.18	.167	.152	.134
47 D 6288	105-260-1	Dark Blue	.18	.167	.152	.134
47 D 6315	105-257-1	Yellow	.18	.167	.152	.134

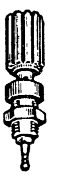
HEAVY-DUTY METAL-CLAD TIP JACK



Industrial type jack. Body is protected by nickel-plated, machined brass jacket—resists chipping or cracking under hardest usage. Has silver-plated, machined beryllium copper contact, and hot-tin dipped terminal end. Current rating: 10 amps; voltage breakdown: 8,000 v. DC. Capacity to ⅛″ metal panel is 3.8 mmf. With nickel-plated phosphor bronze lock washer and ¼″-32 nut for mounting in 17/64″ hole. Size, 1 5/16x9/32″ diameter. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6316	105-201-200	White	.27	.248	.228	.201
47 D 6317	105-202-200	Red	.27	.248	.228	.201
47 D 6318	105-203-200	Black	.27	.248	.228	.201
47 D 6320	105-204-200	Dark Green	.27	.248	.228	.201
47 D 6289	105-210-200	Dark Blue	.27	.248	.228	.201
47 D 6322	105-207-200	Yellow	.27	.248	.228	.201

"SIX-WAY" BINDING POST

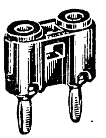


Compact, insulated, preassembled 6-way binding post. Has tough, shock-resistant, molded body. Resistant to temperature extremes. Shank is silver-plated brass—thumb nut cannot be removed. Has insulation resistance greater than 200 megohms, even in high humidity. Current capacity is 15 amps; voltage breakdown test is 8,000 volts DC. Capacity to ⅛″ panel is only 3.3 mmf. With single 5/16″-32 nut for mtg. in 21/64″ dia. round hole, "D" hole, or double-flat hole. Hot tin dipped terminal end. Overall length is 1 15/16″; dia., 7/16″. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6323	111-101	White	.30	.278	.254	.22
46 D 6329	111-102	Red	.30	.278	.254	.22
47 D 6332	111-103	Black	.30	.278	.254	.22
47 D 6333	111-104	Dark Green	.30	.278	.254	.22
47 D 6290	111-110	Dark Blue	.30	.278	.254	.22
47 D 6335	111-107	Yellow	.30	.278	.254	.22

Type 111-20 Mounting Plate. Pre-punched, etched aluminum mounting plate permits simple, accurate mounting of two nylon binding posts or two nylon banana jacks on ¾″ centers. 1¼x½″. 2 oz.
47 D 6336 .... .02

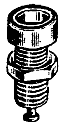
SOLDERLESS DUAL BANANA PLUG



Shock resistant insulating body—retains strength and low-loss over wide range of temperature and humidity. Provide strain relief to wire leads. Plug springs are nickel-silver. Body is nickel-plated, machined brass. Brass studs extend full length of plug pins for extra strength. Pins have accurate ¾″ spacing. Rated: 15 amps; plug to plug capacity: 1.3 mmf; voltage breakdown: 10,000 v. DC. Overall length, 1 19/32″. 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6337	108-201	White	.60	.55	.51	.45
47 D 6338	108-202	Red	.60	.55	.51	.45
47 D 6339	108-203	Black	.60	.55	.51	.45
47 D 6344	108-204	Dark Green	.60	.55	.51	.45
47 D 6291	108-210	Dark Blue	.60	.55	.51	.45
47 D 6347	108-207	Yellow	.60	.55	.51	.45

DELUXE TIP JACKS



Insulated jack, with body molded from low loss plastic. Capacity to ⅛″ metal panel 2.0 mmf. .081″ tip. Gold-plated beryllium copper contacts. Body threaded ¼″-32 for single nut mtg. With ¼″-32 nut for mtg. in 17/64″ dia. hole. Rated 10 amps; DC breakdown, 11,000 v. Length 29/32″. Dia. ⅜″. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6348	105-601	White	.20	.184	.169	.149
47 D 6349	105-602	Red	.20	.184	.169	.149
47 D 6350	105-603	Black	.20	.184	.169	.149
47 D 6351	105-604	Dark Green	.20	.184	.169	.149
47 D 6293	105-610	Dark Blue	.20	.184	.169	.149
47 D 6353	105-607	Yellow	.20	.184	.169	.149

TIP PLUGS

Completely insulated, sleeve will not chip or crack even when subjected to extreme temperature changes. Recessed head prevents exposure of metal surfaces when plug is inserted into jack. Metal parts are nickel-plated brass. For solderless connection of up to No. 16 stranded wire. 10-amp rating. Pin size, 9/16″x.081″ dia. Body, ⅞″x⅜″ diameter. Shpg. wt., 2 oz.

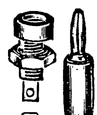
Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6354	105-301	White	.15	.138	.126	.112
47 D 6355	105-302	Red	.15	.138	.126	.112
47 D 6356	105-303	Black	.15	.138	.126	.112
47 D 6357	105-304	Dark Green	.15	.138	.126	.112
47 D 6295	105-310	Dark Blue	.15	.138	.126	.112
47 D 6361	105-307	Yellow	.15	.138	.126	.112

SLEEVE AND JACK ASSEMBLY

Assembly includes a standard tip jack, less mounting nut, in an inside threaded, insulating sleeve. Ideal for patch cords and panel mountings where an insulated rear connection of a tip jack is desired. Machined silver-plated, beryllium-copper contact; hot tinned dipped terminal end. Voltage breakdown, 8,000 v. 1 1/16″x⅜″ diameter. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Color	EACH 1-49	50-99	100-499	500-999
47 D 6364	105-701	White	.20	.184	.169	.149
47 D 6366	105-702	Red	.20	.184	.169	.149
47 D 6367	105-703	Black	.20	.184	.169	.149
47 D 6368	105-704	Dark Green	.20	.184	.169	.149
47 D 6296	105-710	Dark Blue	.20	.184	.169	.149
47 D 6370	105-707	Yellow	.20	.184	.169	.149

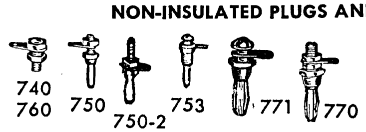
BANANA JACKS AND PLUGS



Low-loss body. Capacity to 1/16″ metal panel 2.4 mmf. Breakdown test 12,500 v. DC. Jack has cadmium-plated insert. Supplied with 5/16″-32 nut for mtg. jack in 21/64″ dia. hole. Plugs have one-piece nickel-plated brass body and pin with nickel-silver springs. Solderless connection takes up to No. 16 stranded wire. Insulating sleeve on plug 6 colors. Length: jack, 15/16″; plug, 1⅜″. 2 oz.

Stock No.	Mfr's Type	Fig.	Color	EACH 1-49	50-99	100-499	500-999
47 D 6371	108-901	A	White	.10	.092	.084	.075
47 D 6372	108-902	A	Red	.10	.092	.084	.075
47 D 6373	108-903	A	Black	.10	.092	.084	.075
47 D 6374	108-904	A	Dark Green	.10	.092	.084	.075
47 D 6297	108-910	A	Dark Blue	.10	.092	.084	.075
47 D 6377	108-907	A	Yellow	.10	.092	.084	.075
47 D 6379	108-301	B	White	.19	.177	.162	.143
47 D 6380	108-302	B	Red	.19	.177	.162	.143
47 D 6381	108-303	B	Black	.19	.177	.162	.143
47 D 6382	108-304	B	Dark Green	.19	.177	.162	.143
47 D 6298	108-310	B	Dark Blue	.19	.177	.162	.143
47 D 6384	108-307	B	Yellow	.19	.177	.162	.143

NON-INSULATED PLUGS AND JACKS

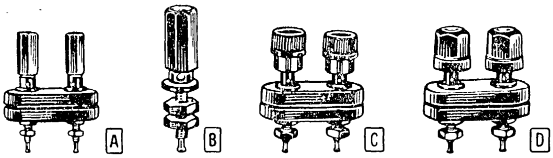


740 nickel-plated brass jack, with solder terminal and nut. 760 for jumbo plugs, with solder terminal and nut. 740 requires 11/64″ dia. mtg. hole; 760, 9/32″. 750, 750-2, 753, 770 and 771 are banana plugs. Have brass studs. 770 and 771 are jumbo types; 771 plugs have long screw for mtg. on ceramic or steatite plug-in coil forms. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Fits	Lgth.	EACH 1-49	50-99	100-499	500-999
47 D 6385	108-740	750, 750-2, 753	⅝″	.12	.111	.102	.09
47 D 6386	108-750	740	1⅛″	.14	.129	.119	.105
47 D 6387	108-750-2	740	1½″	.15	.138	.127	.112
47 D 6388	108-753	740	15/16″	.15	.138	.127	.112
47 D 6389	108-760	770, 771	1″	.35	.322	.295	.26
47 D 6390	108-770	760	1 25/32″	.35	.322	.295	.26
47 D 6391	108-771	760	1⅛″	.35	.322	.295	.26

Binding Posts, Connectors and Plugs

H. H. SMITH BINDING POSTS



A Type 209. Dual binding post assembly with metal posts. Accepts standard dual banana plug and wire, etc. Mounts in 2—$\frac{1}{2}$" holes on $\frac{3}{4}$" centers in $\frac{1}{16}$" to $\frac{1}{4}$" panels. With wrap-around solder studs. Has $\frac{3}{4}$x$1\frac{1}{2}$" rounded black base. Shpg. wt., 4 oz.
47 D 1326. 1-49 .... Each .60
50-99 .... Each .54 100-499 .... Each .50

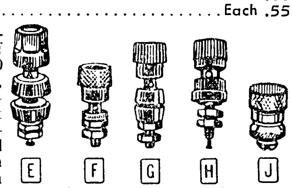
B Type 208. 5-way metal binding post. Accepts banana plug. Mounts in .171" hole in $\frac{1}{16}$" to $\frac{3}{8}$" panels. Has wrap-around solder stud and 6-32 thread. Shpg. wt., 3 oz.
47 D 1327. 1-49 .... Each .25
50-99 .... Each .23
100-499 .... Each .21

C TYPE 224BB Dual 5-way binding post assembly with black, insulated, fluted heads. Accepts dual banana plug. Mounts in 2—$\frac{1}{2}$" holes. $\frac{3}{4}$" centers on $\frac{1}{16}$-$\frac{1}{4}$" panels. Has solder studs, $\frac{3}{4}$x$1\frac{1}{2}$" base. With 4 hex nuts, 2 flat washers. Shpg. wt., 4 oz.
47 D 1328. 1-49 .... Each .54
50-99 .... Each .49
100-499 .... Each .45

D Type 269BB. Dual 5-way binding post assembly with black hex-grip insulated heads. Accepts dual banana plug. Mounts in 2—$\frac{1}{2}$" holes on $\frac{3}{4}$" ctrs, $\frac{1}{16}$-$\frac{1}{4}$" panels. Has solder studs, $\frac{3}{4}$x$1\frac{1}{2}$" base. With 4 hex nuts, 2 flat washers. Shpg. wt., 4 oz.
47 D 1329. 1-49 .... Each .66
50-99 .... Each .60
100-499 .... Each .55

D Type 269RB. Same as Type 269BB but one red and one black head. Shpg. wt., 4 oz.
47 D 1324. 1-49 .... Each .66
50-99 .... Each .60
100-499 .... Each .55

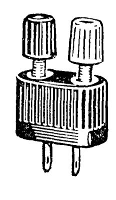
Assorted Multi-Purpose Nylon Binding Posts. For a wide variety of applications. All are rated 2000 volts at 30 amperes. Types 257, 220, and 260 all have banana-plug jack in head—also accept phone tip plug, spade lug, alligator clip and wire strand. Metal parts are brass, insulated from panel except 220 and 337 which are grounding type. Types 257, 377, and 378 take direct solder connection to stud. Types 257 and 260 are both equipped with a locking edge. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Fig.	Mtg. Hole	Lgth. (Closed)	Color	EACH 1-49	50-99	100-499
47 D 1368	257	E	$\frac{1}{2}$"	$1\frac{43}{64}$"	Red	.36	.33	.30
47 D 1367	257	E	$\frac{1}{2}$"	$1\frac{43}{64}$"	Black	.36	.33	.30
47 D 1330	220	F	$\frac{11}{64}$"	$1\frac{1}{4}$"	Red	.18	.16	.15
47 D 1335	220	F	$\frac{11}{64}$"	$1\frac{1}{4}$"	Black	.18	.16	.15
47 D 1388	260	G	$\frac{5}{16}$"	$1\frac{11}{16}$"	Red	.30	.27	.255
47 D 1389	260	G	$\frac{5}{16}$"	$1\frac{11}{16}$"	Black	.30	.27	.255
47 D 1394	377	H	$\frac{11}{64}$"	$1\frac{3}{8}$"	Red	.30	.27	.255
47 D 1395	377	H	$\frac{11}{64}$"	$1\frac{3}{8}$"	Black	.30	.27	.255
47 D 1397	378	H	$\frac{23}{64}$"	$1\frac{3}{8}$"	Red	.30	.27	.255
47 D 1398	378	H	$\frac{23}{64}$"	$1\frac{3}{8}$"	Black	.30	.27	.255

J Type 110 Post. For heavy-duty use and low-resistance connections. Nickel-plated brass $\frac{21}{32}$" long, $\frac{3}{16}$" mtg. hole. Supplied complete with screw and lock washer. Shpg. wt., 2 oz.
47 D 1371. 1-49 .... Each .18
50-99 .... Each .16
100-499 .... Each .15

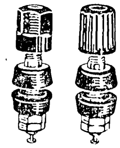
SUPERIOR AC DUAL-ADAPTER BINDING POST



Top-quality binding post with AC plug connects up to 5 ways for extreme versatility. Ideal for development laboratory applications, line voltage and frequency monitoring, etc. Utilizes Type DAP15BWC parallel-blade plug that fits standard 2-wire AC receptacle. Accepts spade lugs, banana plugs, clip leads, up to No. 12 wire through .098" diameter holes, or wire wrapped around shafts. Rated 15 amps at 125 volts. Has color-coded thumbnuts, 1 white, 1 black. Shpg. wt., 3 oz.
47 D 1041. 1-9 .... Each 1.50
10-99 .... Each 1.13

SUPERIOR BINDING POSTS

Exceptionally versatile five-way binding posts. Take spade lugs, banana plugs, clip leads, up to No. 12 wire through center hole, or looped and clamped around shaft. Ruggedly constructed of the finest materials. Brass current-carrying parts are gold-plated. Hex-nut types have durable nylon plastic insulator and captive nut, meet MIL-P-20693 specs, except Type GP30NC which is nickel-plated grounding-type post. Fluted-nut types have low-loss thermoplastic insulator and captive nut. All are rated 30 amps at 1000 v. Mount in $\frac{1}{16}$-$\frac{1}{4}$" panels, $\frac{1}{2}$" mounting hole. $2\frac{3}{64}$x$\frac{1}{2}$" dia. Shpg. wt., 2 oz.



Hex Nut Fluted Nut

HEX-NUT TYPES

Stock No.	Type	Color	Stock No.	Type	Color
47 D 1172	DF30YC	Yellow	47 D 1178	DF30RC	Red
47 D 1173	DF30GNC	Green	47 D 1198	DF30BLC	Blue
47 D 1174	DF30WTC	White	47 D 1000	GP30NC	Nickel
47 D 1177	DF30BC	Black			

1-99 .... Each .40 100-Up .... Each .30

FLUTED-NUT TYPES

Stock No.	Type	Color	Stock No.	Type	Color
47 D 1011	DF31BC	Black	47 D 1001	DF31RC	Red
47 D 1006	DF31BLC	Blue	47 D 1005	DF31WTC	White
47 D 1020	DF31GNC	Green	47 D 1010	DF31YC	Yellow

1-99 .... Each .40 100-Up .... Each .30

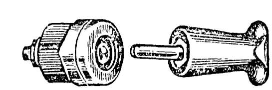
MINIATURE FLUTED-NUT TYPES

Rated 15 amps at 100° v. Current-carrying parts are gold-plated brass. Plastic parts are of durable nylon. Meet MIL-P-20693, Type IV specs. For $\frac{1}{16}$-$\frac{1}{4}$" panels. Mount in $\frac{3}{8}$" hole. Size, $1\frac{21}{32}$x$\frac{7}{16}$" dia. Choice of 6 colors. Shpg. wt., 2 oz.

Stock No.	Type	Color	Stock No.	Type	Color
47 D 1031	DF21BC	Black	47 D 1021	DF21RC	Red
47 D 1023	DF21BLC	Blue	47 D 1022	DF21WTC	White
47 D 1040	DF21GNC	Green	47 D 1030	DF21YC	Yellow

1-99 .... Each .40 100-Up .... Each .30

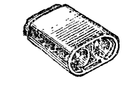
SUPERIOR "SUPERCON" CONNECTORS



Molded nylon plugs and sockets. Metal parts are gold-plated brass. Cable-fastening screws for solderless assembly. 25, 50 and 100-amp types rated 125-250 v., AC or DC rupturing, 600 v. disconnect use only. 250-amp types rated 600 v. disconnect use only. **Available in red or black—specify color.** Shpg. wt., 6 oz.

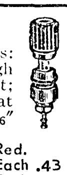
Stock No.	Mfr's Type	Terminal	Amps	EACH 1-19	20-99	100-199
47 D 2951 C	RS25G	Socket Receptacle	25	1.75	1.40	1.23
47 D 2954 C	PP25G	Pin Plug for above	25	1.30	1.04	.91
47 D 2953 C	RP25G	Pin Receptacle	25	1.75	1.40	1.23
47 D 2952 C	PS25G	Socket Plug for above	25	1.30	1.04	.91
47 D 1302 C	RS50G	Socket Receptacle	50	2.50	2.00	1.75
47 D 1308 C	PP50G	Pin Plug for above	50	2.00	1.60	1.40
47 D 1303 C	RP50G	Pin Receptacle	50	2.50	2.00	1.75
47 D 1309 C	PS50G	Socket Plug for above	50	2.00	1.60	1.40
47 D 1304 C	RS100G	Socket Receptacle	100	3.00	2.40	2.10
47 D 1315 C	PP100G	Pin Plug for above	100	2.50	2.00	1.75
47 D 1307 C	RP100G	Pin Receptacle	100	3.00	2.40	2.10
47 D 1316 C	PS100G	Socket Plug for above	100	2.50	2.00	1.75
47 D 2955 C	RS250G	Socket Receptacle	250	5.50	4.40	3.85
47 D 2958 C	PP250G	Pin Plug for above	250	3.65	2.92	2.56
47 D 2957 C	RP250G	Pin Receptacle	250	5.50	4.40	3.85
47 D 2956 C	PS250G	Socket Plug for above	250	3.65	2.92	2.56

SUPERIOR SPGK2BC "DUB-L-PLUG"



Shielded, insulated dual banana plug for standard dual binding posts. Use where protection from stray fields is necessary—high-impedance circuits with vacuum tube voltmeters, audio signal generators and amplifiers. Sturdy die-cast chrome-plated case can be removed if only insulated plug is needed. Has grounding banana plug that can be removed when used with 2-wire ungrounded circuits. Nylon body; gold-plated conductors; recessed metal parts. Wt., 3 oz.
47 D 1205. 1-9 .... Each 4.50 10-99 .... Each 3.37

RAYTHEON FIVE-WAY BINDING POST

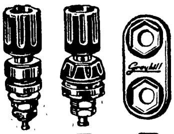


Excellent flexibility in making electrical connections: wire loops around shaft; wire (up to #12) goes through hole in shaft; alligator or clip lead fastens to shaft; spade lug goes around shaft; banana plug fits post at top of fluted cap. Mounts in .314" hole in $\frac{3}{64}$" to $\frac{3}{16}$" panels. Corrosion-resistant metal parts. Wt., 3 oz.
47 D 6500. BP-105B. Black. 47 D 6501. BP-106R. Red.
1-99 .... Each .50 100-199 .... Each .43
200-499 .... Each .40 500-999 .... Each .37

Binding Posts, Test Clips, Jacks, Plugs

GRAYHILL BINDING POSTS AND CLIPS

BINDING POSTS AND DUAL MOUNTING BASES



[A] [B] [C]

[A] **Type 29-1 Binding Post.** Screw type binding post for 3/8″ dia. mtg. hole—allows closer spacing of posts. Takes banana plugs, wires, spade lugs, prod tips, etc. Mounts on panel up to 3/16″ thick—insulation resistance 120,000 megohms; voltage breakdown 3000 volts AC. 1″ in front of panel, .69″ behind, 1/2″ diameter.

[B] **Type 29-3 Binding Post.** Screw type binding post for 1/2″ dia. mounting hole. For use in existing equipment or where wider spacing is desirable. Takes banana plugs, wires, spade lugs, prod tips, etc. Mounts on panel up to 3/16″ thick—insulation resistance 200,000 megohms; voltage breakdown 3800 volts AC. Post extends 1″ in front of panel, .69″ behind, .62″ diameter. Shpg. wt., 4 oz.

[B] **Type 29-33 Binding Post.** Spring loaded binding post—head gives 24 oz. of contact force. For 1/2″ mounting hole in panels to 3/16″ thick. Insulation resistance 200,000 megohms; voltage breakdown between studs and mounting panel, 3800 volts AC. .96″ in front of panel, .69″ behind, .62″ dia. Insulating washers, 5/8″ dia. Wt. 4 oz.

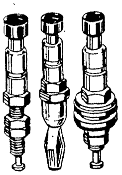
Stock No.	Mfr's Type	Fig.	Description	EACH 1-499	500-999	1000-1999
47 D 5250	29-1	A	Red—Screw type	.40	.348	.28
47 D 5251	29-1	A	Black—Screw type	.40	.348	.28
47 D 5252	29-3	B	Red—Screw type	.40	.348	.28
47 D 5253	29-3	B	Black—Screw type	.40	.348	.28
47 D 5254	29-33	B	Red—Spring loaded	.40	.348	.28
47 D 5255	29-33	B	Black—Spring loaded	.40	.348	.28

[C] **Type 29B11 Dual Mounting Bases.** For use with Type 29-1 binding posts in table above. Makes assembled unit with two binding posts on 3/4″ centers. Base is molded phenolic to MIL-M-14 Type CFG specifications. Shpg. wt., 2 oz.

47 D 5256. Type 29B11-2. Red base. 1-499 . . . . Each .10
500-999 . . . . Each .087 1000-1999 . . . . Each .07

47 D 5257. Type 29B11-1. Black base. 1-499 . . . . Each .10
500-999 . . . . Each .087 1000-1999 . . . . Each .07

"PUSH-POST" PLUNGER TYPE BINDING POSTS



[D] [E] [F]

Plunger type binding posts for positive, quick connections. Just depress button and place lead in .06″ slot—spring pressure assures firm contact. With red or black buttons.

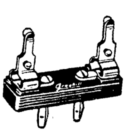
[D] **Type 29-100.** For 11/64″ mounting hole less insulating washers—use as ground on panels up to 3/16″ thick. Extends only 7/8″ above panel; 1 1/2″ overall length, 1/4″ dia.

[F] **Type 29-104.** Same as Type 29-100 above but with insulating washers to prevent grounding to panel. For 3/8″ mounting holes.

[E] **Type 29-101.** "Push-Post" with standard banana plug converts any banana jack to a plunger type binding post. Nickel-plated brass. Thermoplastic button. 1/2″ dia. 1.80″ long. 3 oz.

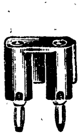
Stock No.	Mfr's Type	Fig.	Color	EACH 1-499	500-999	1000-1999
47 D 5258	29-100R	D	Red	.35	.305	.245
47 D 5259	29-100B	D	Black	.35	.305	.245
47 D 5260	29-101R	E	Red	.50	.435	.35
47 D 5261	29-101B	E	Black	.50	.435	.35
47 D 5262	29-104R	F	Red	.50	.435	.35
47 D 5263	29-104B	F	Black	.50	.435	.35

TEST CLIP ADAPTER



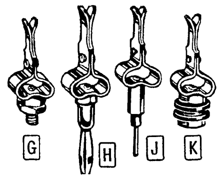
Type 2-2. For testing resistors, capacitors and other pigtail components. Plugs into std. banana jacks mounted on 3/4″ centers; spring clips accept wire leads. Metal parts are nickel plated. Hex nut permits tension adjustment of individual clips which extend 1 1/8″ above board. Board is molded phenolic to MIL-M-14. Shpg. wt., 2 oz.
47 D 5266. . . . . Each 1.40

H. H. SMITH DOUBLE PLUG



Type 210. Dual plug for standard banana jacks. Molded as a unit on 3/4″ centers. Recessed top forms double jack, allowing units to be used in tandem. Banana plug prongs. Holes in body accept phone tips or wires up to No. 12; terminal screws clamp conductors securely. 15-amp rating. 1 15/16″ width, 1 3/4″ length. 3 oz.
47 D 1792. 1-9 . . . Each .72 10-49 . . . . Each .57
50-99 . . . . Each .53 100-499 . . . . Each .463

STANDARD TEST CLIPS



[G] [H] [J] [K]

Test clips for panel mounting on test equipment. Permit rapid connection of wires or pigtail components.

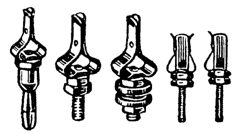
[G] **Type 2-0.** For panels to 1/4″ thick. Has 8-32 stud. 1 1/4″ above panel, overall lgth., 1.56″. Less insulating washers (see Type 2-4). 2 oz.
47 D 5278. . . . . Each .20

[H] **Type 2-1.** Test clip with standard banana plug. 1.12″ above plug, 2.06″ overall length. Converts any banana jack into a test clip. 2 oz.
47 D 5280. . . . . Each .35

[J] **Type 2-6.** Test clip on std. .080″ pin plug. Converts any pin jack into a test clip. 1.12″ above plug, 2″ overall length. 2 oz.
47 D 5282. . . . . Each .35

[K] **Type 2-4.** Same as Type 2-0 but with insulating shoulder washers. Mounts on panels up to .187″ thick—medium thickness, .062″. 1.31″ above panel, 1.56″ overall length. 2 oz.
47 D 5281. . . . . Each .35

MINIATURE TEST CLIPS



[L] [M] [N] [P] [R]

Miniature version of above—extend only 3/4″ above mtg. panel. Hex nut under clip permits tension adjustment. Nickel-plated brass or steel. 2 oz.

[L] **Type 2-21.** Min. clip on std. banana plug. 1 1/2″ long.
47 D 5284. . . . . Each .40

[M] **Type 2-20.** 1.13″ long with 6-32 stud. Up to 1/4″ panels.
47 D 5283. . . . . Each .25

[N] **Type 2-24.** Same as Type 2-20 but with insulating shoulder washers. Requires 17/64″ mounting hole.
47 D 5285. . . . . Each .40

[P] [R] ULTRA-MINIATURE TEST CLIPS

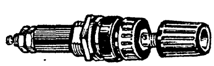
Tiny test clips require panel area of only 3/16x1/8″ for single clip; 1/4x1/8″ for double clip. 3/8″ long 2-56 mtg. stud. Length, .79″
47 D 5287. Type 2-42. Double clip (Fig. P) . . . . Each .30
47 D 5286. Type 2-41. Single clip (Fig. R) . . . . Each .25

RAYTHEON TEST JACKS

Top-quality test jacks for standard .080″ diameter test prods. Meet MIL-MS-16108 rev. F specifications. Use threaded nickel-plated brass sleeve for mounting; beryllium-copper spring pin contacts. Mount securely with nut and washer. All are nylon insulated. 3 oz.

Stock No.	Mfr's	Color Type	Mtg. Hole	EACH 1-24	25-99	100-499	500-999
47 D 6507	TJ-103R	Red	1/4″	.35	.28	.25	.21
47 D 6508	TJ-105BL	Black	1/4″	.35	.28	.25	.21
47 D 6515	TJ-108W	White	1/4″	.35	.28	.25	.21
47 D 6516	TJ-102B	Brown	1/4″	.35	.28	.25	.21
47 D 6517	TJ-106G	Green	1/4″	.35	.28	.25	.21
47 D 6518	TJ-107MB	Blue	1/4″	.35	.28	.25	.21
47 D 6519	TJ-101Y	Yellow	1/4″	.35	.28	.25	.21

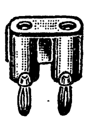
SUPERIOR FUSED BINDING POST



Type FP15BGC. Combines a fuseholder and 5-way binding post in one unit to eliminate necessity of separate wiring. Ideal where limited space prohibits use of individual binding post and fuseholder. Molded of phenolic resin, accepts standard 3AG fuse. Mounts in 5/8″ hole, panels up to 1/4″ thick. Rated 15 amps, 250 volts. Less thumbnut, listed below.
47 D 1180. 1-9 . . . . . . Each 1.40 10-99 . . . . Each 1.05

THUMBNUTS. Type BB10144. For above. Choice of 6 colors. Specify Black, Blue, Red, White, Yellow or Green. Shpg. wt., 1 oz.
47 D 1181 C. 1-9 . . . . Each .10 10-99 . . . . Each .075

G-C ELECTROCRAFT DUAL BANANA PLUG

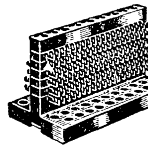


Type 33-010. Molded black polystyrene with nickel-plated brass plug and four-leaved, phosphor-bronze, nickel-plated spring. Mates with std. dual binding post with 3/4″ ctrs.; polarity clearly marked. Has 1/8″ hole for wire; set-screw holds wire firmly. Two or more units can easily be stacked together for multiple connections. Base size, 1/2x1 1/16″; overall length, 1 3/4″. 3 oz.
47 D 1325. 1-9 . . . . Each .78 10-49 . . . . Each .60
50-99 . . . . Each .56 100-499 . . . . Each .49

Jack Panels, Patch Cords, Terminal Blocks

ADC PRODUCTS TERMINAL BLOCKS

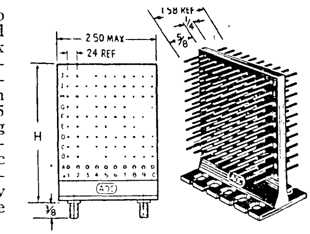
SOLDER-TYPE TERMINAL BLOCKS



Rugged units for design and construction use in telephone circuits, computers, recording studios, broadcast stations, or wherever many circuits are in operation. Each unit has a one-piece molded black phenolic base; individual terminal separators are also of molded black phenolic. Polished phenolic surface surrounding terminals assures easy removal of solder flash. Terminals are .040″ thick plated brass. Terminal rows are graduated in length for ease of wiring, and are identified by numbering imprinted along the top row. Base, 6¹⁄₁₆x3″. 20 terminals per row. Av. shpg. wt., 1½ lbs.

Stock No.	Mfr's Type	No. of Rows	No. of Terminals	Ht. of Block	EACH
47 D 0695	PJ-102	2	40	2¼″	4.65
47 D 0696	PJ-103	3	60	2¹⁹⁄₃₂″	5.85
47 D 0697	PJ-104	4	80	2¹⁵⁄₁₆″	7.05
47 D 0698	PJ-105	5	100	3⁹⁄₃₂″	8.25
47 D 0699	PJ-106	6	120	3⅝″	9.45

"WRAPID" SOLDERLESS TERMINAL BLOCKS

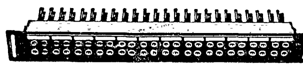


Use any wrapping tool to make 100 solderless, wrapped wire connections in a 3⅜x 2½″ space—with Type PJ-610 (illus. at right). Even inexperienced operators can make one connection each 5 seconds. Block and fanning strip are molded of high-impact rubber-modified acrylic plastic. Brass terminals. Letters and numbers identify terminals. Cadmium-chromate plated mtg. studs. 4 oz.

Stock No.	Mfr's Type	No. of Terminals	"H" Dimen.	EACH 1-24	EACH 25-49
47 D 0826	PJ-604	40	1.75″	2.64	2.20
47 D 0827	PJ-606	60	2.25″	3.24	2.70
47 D 0828	PJ-608	80	2.75″	3.84	3.20
47 D 0829	PJ-610	100	3.25″	4.44	3.70

ADC PRODUCTS JACK PANELS AND PATCH CORDS

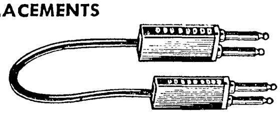
BROADCAST-TYPE JACK PANELS



Professional-quality jack panels for use in radio and TV broadcasting stations, public address systems, theaters, and other installations requiring efficient distribution, switching and control of audio signals. Jacks are spaced to permit use of any standard double plug with ⅝″ spacing. Panels are molded of solid phenolic, reinforced with steel to give maximum strength. All fit standard 19″ relay racks; all are 3⁹⁄₁₆″ deep. Types PJ-340 and PJ-390 have double designation strips for identifying top and bottom row jack functions; brackets for flush rack mounting; and have all jacks on ⅝″ centers. Types PJ-341, PJ-391, PJ-343, and PJ-393 have single designation strips; and horizontally and vertically paired jacks on ⅝″ centers with added spacing between pairs to prevent patching adjacent pairs. In table below, CC is closed circuit, 2—CC is 2 closed circuits. Shpg. wts., Double-Row Types 5¼ lbs.; Single-Row Types 3½ lbs.

Stock No.	Mfr's Type	No. Jacks	Rows	Jack Type	Panel Height	EACH 1-24	EACH 25-49
47 D 1455 X	PJ-340	52	Double	CC	1¾″	49.50	41.25
47 D 1656 X	PJ-390	52	Double	2—CC	1¾″	64.80	54.00
47 D 1450 X	PJ-341	48	Double	CC	2⅛″	42.75	35.63
47 D 1658 X	PJ-391	48	Double	2—CC	2⅛″	57.30	47.75
47 D 1451 X	PJ-343	24	Single	CC	1¾″	25.14	20.95
47 D 1659 X	PJ-393	24	Single	2—CC	1¾″	32.40	27.00

PATCH CORD SETS AND REPLACEMENTS



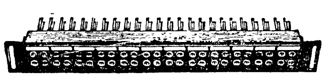
Patch Cord Sets. Shielded patch cords with plugs at both ends. Types with PJ-1 plug are double plug with common sleeve connection. Types with PJ-3 plug are single 3-conductor plug. Cords are of flexible stranded tinned-copper wire. Polarizing identification for correct insertion. Shields normally grounded both ends. Double plugs on ⅝″ centers.

Stock No.	Mfr's Type	Plug Type	Description	Length (Ft.)	EACH
47 D 1661	PJ12	PJ-1	Double plug	2	6.75
47 D 1662	PJ13	PJ-1	Double plug	3	6.90
47 D 1664	PJ15	PJ-1	Double plug	5	7.28
47 D 1660	PJ82	PJ-3	Single plug, 3-cond.	2	8.80
47 D 1663	PJ84	PJ-3	Single plug, 3-cond.	4	9.80
47 D 1665	PJ86	PJ-3	Single plug, 3-cond.	6	11.00

Replacement Patch Cords. Same fine quality cords as used on the double-plug patch cord sets listed above. Tinned-copper insulated with heavy protective braid. Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Description	EACH
47 D 1667	PJ22	2-ft. cord only	1.65
47 D 1668	PJ23	3-ft. cord only	1.74
47 D 1669	PJ24	4-ft. cord only	1.80

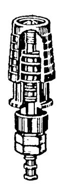
SWITCHCRAFT HEAVY-DUTY DOUBLE ROW JACK PANELS



Excellent for switching and distribution of audio signals in broadcasting stations, theaters, public address installations, etc. Polished black phenolic panels are reinforced with steel for utmost rigidity. Mounting brackets are slotted to fit all standard 19″ relay racks. Includes plastic covered designation strips. *With military-type MT-332A jacks—especially recommended for military use and low-level audio applications. †Have telephone-type T-332A jacks. §Less jacks; wt., 1¾ lbs. Av. shpg. wt., 5½ lbs.

Stock No.	Mfr's Type	Jacks	Size H.W.D.	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-499
47 D 1333 X	2400	48§	2⅛x19x1¼″	9.00	8.25	7.50	6.00
47 D 1454 X	2432A	24 pr.†	2⅛x19x1¼″	42.00	38.50	35.00	28.00
47 D 1457 X	2532A	24 pr.*	2⅛x19x1¼″	49.80	45.65	41.50	33.20

ACI UNIVERSAL "ADLOC" BINDING POST

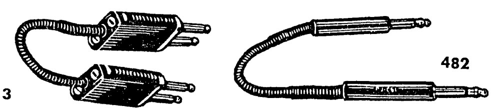


- "Push" for Quick Positive Lock and Disconnect
- Secure Connections are Made from the Top

Push down on top, insert wire (up to 12 gauge), release and positive contact is made instantly. Also for spade lugs, plugs, clamps and prods. Has a brass nickel-plated post, nylon plastic insulator. Rated 20 amps at 1000 v., rms. For .314″ hole in panels ¹⁄₃₂″ to ¼″. 2³⁄₃₂x ⅝″. Suffix "B", black; "R", red. 3 oz. In Pkgs. of 5.

Stock No.	Mfr's Type	PER PACKAGE OF 5: 1-2	3-20	21-40	41-100	101-200
47 D 0608	AL2000B	2.75	2.55	2.45	2.30	2.20
47 D 0609	AL2000R	2.75	2.55	2.45	2.30	2.20

SWITCHCRAFT PATCH CORD SETS



413

482

For broadcasting, recording and industrial switchboard applications. Have bronze tinsel conductors covered with thermo-plastic insulation. Braided shield and black nylon braid are woven over insulated conductors. Series 17Q utilizes Switchcraft Type 89Q (2 conductors plus shield) cord with Switchcraft No. 413 "Twin-Plug" at each end. 413 "Twin-Plug" is 3-circuit type with self-aligning feature that allows for errors in jack location. Series 18Q utilizes 89Q cord with 482 plug at each end. 482 is 3-conductor type; features one-piece tip rod and one-piece sleeve and body.

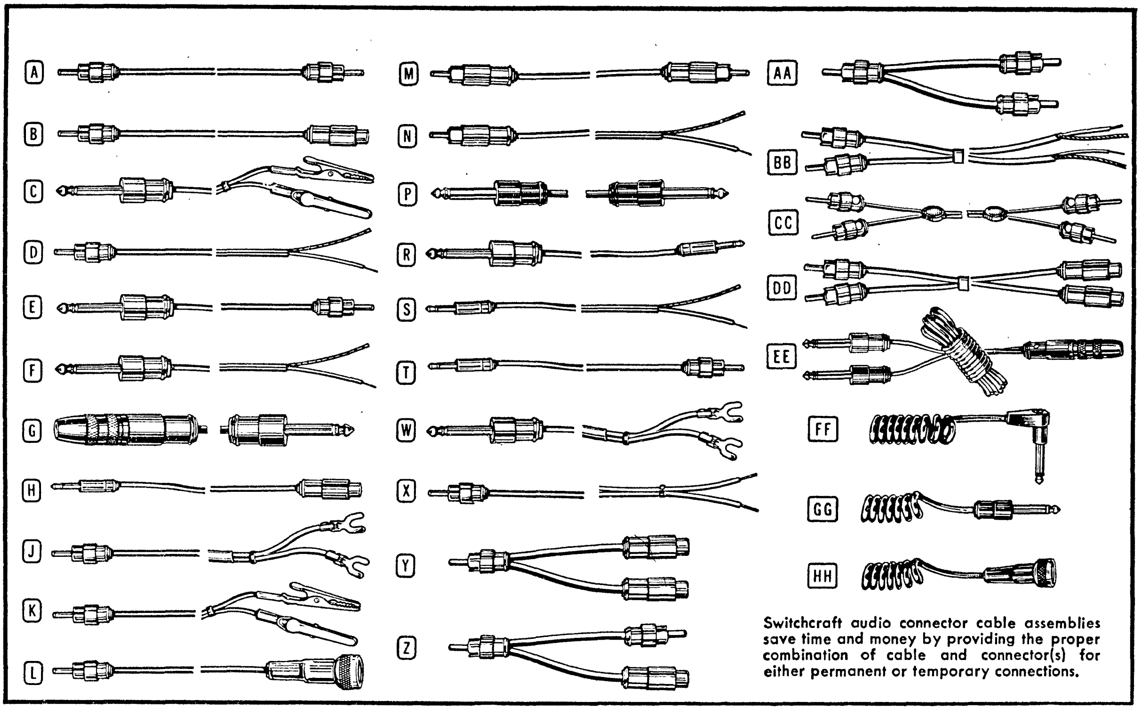
Stock No.	Mfr's Type	Length	Wt. Oz.	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-499
PLUG TYPE 413							
47 D 1630	17QD17	2 feet	7½	6.90	6.33	5.75	4.60
47 D 1636	17QH17	4 feet	8½	7.29	6.68	6.08	4.86
PLUG TYPE 482							
47 D 1652	18QD18	2 feet	3	7.50	6.88	6.25	5.00
47 D 1654	18QH18	4 feet	4	7.80	7.15	6.50	5.40

G-C ELECTROCRAFT "KLIPZON MINIPRODS"

Fit standard tip jacks. Clip to any terminal, lug, etc. Point pierces insulation. Solderless connection inside 1⅛″ plastic handle. 2 oz.

Stock No.	Type	Color	1-9, EA.	10-49, EA.	50-99, EA.	100-499, EA.
47 D 2271	33-138	Red	.42	.33	.30	.27
47 D 2272	33-140	Black	.42	.33	.30	.27

Audio Connector Cables



Switchcraft audio connector cable assemblies save time and money by providing the proper combination of cable and connector(s) for either permanent or temporary connections.

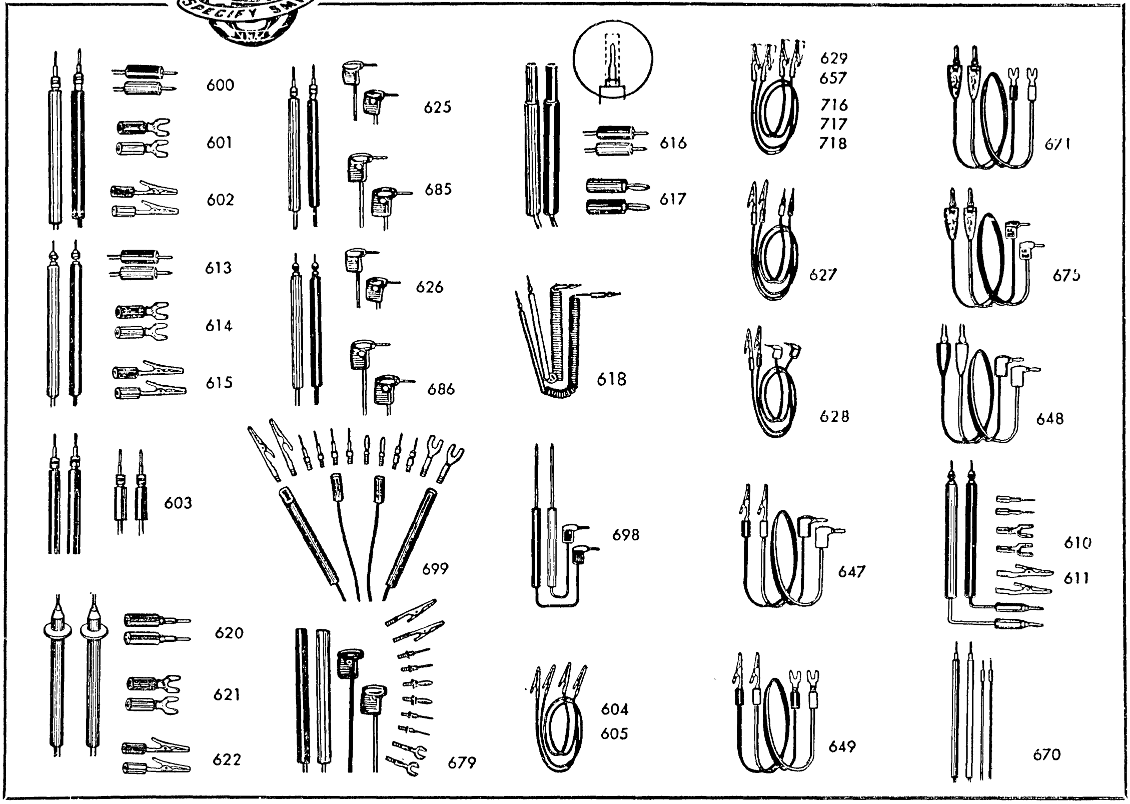
Highest quality shielded and unshielded cables. Connections soldered for dependability. Connectors of unbreakable Tenite are molded directly to cable—protects against moisture; minimizes noise; virtually eliminates short-circuits and provides positive electrical connection. Built-in cable clamps support cable, eliminate strain on plug terminals. *Unshielded cable. †Coiled cord jacket is high-quality neoprene. ‡Stripped and tinned, ready for easy soldering into circuit—no insulation removal required. §3-conductor cable and/or connectors. **Terminations are as illustrated. Av. shpg. wt., 8 oz.

A—pin plugs; B—pin plug/jack; C—phone plug/clips; D—pin plug/tinned; E—phone plug/pin plug; F—phone plug/tinned; G—phone plug/jack; H—tiny plug/pin jack; J—pin plug/lugs; K—pin plug/clips; L—mike con./pin plug; M—long handle pin plugs; N—long handle pin plug/tinned; P—phone plugs; R—tiny plug/phone plug; S—tiny plug/tinned; T—tiny plug/pin plug; W—phone plug/lugs; X—pin plug/tinned; Y—pin plug/jacks; Z—pin jacks/plugs; AA—pin plugs; BB—pin plugs/tinned; CC—pin plugs; DD—pin plugs/jacks; EE—phone plugs/3 con. jack; FF—right angle phone plug; GG—phone plug; HH—mike con.

Stock No.	Mfr's Type	Fig.	Lgth.	EACH 1-49	50-99	100-Up
47 D 1509	25AC25	A	1.5′	.69	.60	.55
47 D 1510	25AF25	A	3′	.78	.72	.58
47 D 1512	25AK25	A	6′	.99	.86	.79
47 D 1538	25AN25	A	10′	1.32	1.15	1.05
47 D 1541	25AF82	B	3′	.90	.77	.71
47 D 1542	25AK82	B	6′	1.17	1.03	.96
47 D 1543	25AN82	B	10′	1.32	1.13	1.02
47 D 1544	05CN86*	C	10′	1.59	1.41	1.28
47 D 1547	05CT86*	C	20′	1.98	1.73	1.62
47 D 1548	25AF84‡	D	3′	.63	.55	.51
47 D 1549	25AK84‡	D	6′	.75	.64	.59
47 D 1550	25AN84‡	D	10′	1.08	.93	.84
47 D 1551	05AK25	E	6′	1.32	1.15	1.05
47 D 1552	05AN25	E	10′	1.80	1.56	1.43
47 D 1570	05AR25	E	15′	1.98	1.74	1.67
47 D 1600	05AK84‡	F	6′	1.17	1.03	.94
47 D 1601	05AN84‡	F	10′	1.50	1.30	1.19
47 D 1602	05AR84‡	F	15′	1.80	1.56	1.43
47 D 1605	05AK80	G	6′	1.71	1.45	1.26
47 D 1615	05AN80	G	10′	2.31	2.02	1.85
47 D 1620	05AR80	G	15′	2.64	2.30	2.10
47 D 1596	10BK81§	G	6′	3.18	2.90	2.50
47 D 1597	10BN81§	G	10′	3.96	3.60	3.12
47 D 1598	10BU81§	G	25′	5.79	5.25	4.60
47 D 1622	40DF82	H	3′	1.32	1.12	1.02
47 D 1623	40DK82	H	6′	1.65	1.45	1.32
47 D 1624	40DN82	H	10′	1.77	1.60	1.36
47 D 1626	25CN85*	J	10′	.99	.88	.82
47 D 1726	25CT85*	J	20′	1.29	1.16	1.08
47 D 1627	25CN86*	K	10′	1.50	1.30	1.19
47 D 1628	25CT86*	K	25′	1.71	1.55	1.45
47 D 1629	25AK87	L	6′	1.62	1.45	1.32
47 D 1631	26AR26	M	15′	1.71	1.41	1.34
47 D 1632	26AR84‡	N	15′	1.50	1.31	1.20
47 D 1633	05AN05	P	10′	2.31	2.02	1.85
47 D 1727	05AU05	P	25′	3.06	2.70	2.46
47 D 1593	10BK10§	P	6′	3.18	2.90	2.50

Stock No.	Mfr's Type	Fig.	Lgth.	EACH 1-49	50-99	100-Up
47 D 1594	10BN10§	P	10′	3.96	3.60	3.12
47 D 1595	10BU10§	P	25′	5.79	5.25	4.60
47 D 1634	40DF05	R	3′	1.50	1.30	1.19
47 D 1637	40DK05	R	6′	1.80	1.56	1.42
47 D 1639	40DN05	R	10′	2.00	1.70	1.55
47 D 1645	40DF84‡	S	3′	1.17	1.03	.96
47 D 1646	40DK84‡	S	6′	1.32	1.13	1.03
47 D 1647	40DN84‡	S	10′	1.65	1.45	1.32
47 D 1648	40DF25	T	3′	1.38	1.20	1.08
47 D 1655	40DK25	T	6′	1.65	1.45	1.32
47 D 1675	40DN25	T	10′	1.95	1.80	1.57
47 D 1683	05CT85*	W	20′	1.56	1.38	1.28
47 D 1685	25CN84*	X	10′	.93	.76	.71
47 D 1728	25CT84‡	X	20′	1.20	1.08	1.01
47 D 1686	33OF1	Y	4″	1.35	1.15	1.04
47 D 1699	33OF2	Z	4″	1.35	1.15	1.04
47 D 1722	33OF3	AA	4″	1.35	1.15	1.04
47 D 1497	25FF84‡	BB	3′	1.92	1.63	1.52
47 D 1498	25FK84‡	BB	6′	2.16	1.86	1.68
47 D 1499	25FN84‡	BB	10′	2.49	2.06	1.90
47 D 1494	25FF25	CC	3′	2.16	1.75	1.56
47 D 1495	25FK25	CC	6′	2.49	2.06	1.90
47 D 1496	25FN25	CC	10′	2.97	2.54	2.32
47 D 1723	25FF82	DD	3′	2.13	1.81	1.64
47 D 1724	25FK82	DD	6′	2.43	2.07	1.87
47 D 1725	25FN82	DD	10′	2.85	2.42	2.19
47 D 1531	05FH81§	EE	4′	2.88	2.60	2.22
47 D 1504	05LH84†	GG	4′	2.16	1.95	1.67
47 D 1505	15LH84†	FF	4′	2.16	1.95	1.67
47 D 1506	87LH84†	HH	4′	2.22	2.02	1.71
47 D 1532	05LP05†	GG/GG**	12′	4.95	4.48	3.82
47 D 1533	05LP15†	GG/FF**	12′	4.95	4.48	3.82
47 D 1534	05LP87†	GG/HH**	12′	5.04	4.60	3.94
47 D 1535	05LT05†	GG/GG**	20′	6.93	6.30	5.35
47 D 1536	05LT15†	GG/FF**	20′	6.93	6.30	5.35
47 D 1537	05LT87†	GG/HH**	20′	7.02	6.35	5.40

H. H. Smith Test Leads



Wide selection of leads for making tests, or temporary connections. All use extra-flexible, rubber-covered kinkless wire, 50″ long (unless otherwise stated); No. 20 stranded 26x34 wire. Insulation breakdown, 5000 v.; .125″ O. D. One red and one black lead. Handles and plugs are: molded butyrate per MIL-L-P349A, Type 3, Class MS; fiber per MIL-F-1148A, Grade CH; molded thermosetting plastic per MIL-P-14CFG. Supplied in re-usable, hinged clear-plastic box. Av. shpg. wt., 5 oz.

Solderless Tip Test Leads. Prods are 4″ long with ⅜″ O.D. Have molded butyrate handle and nickel-plated brass tip.

Stock No.	Mfr's Type	Meter End	PER PAIR
47 D 4359	600	phone tips	.87
47 D 4360	601	spade lugs	.87
47 D 4361	602	alligator clips	.93

Phono Needle Test Leads. Prods are 4″ long with ⅜″ O.D. Have molded butyrate handle, nickel-plated brass body and nickel-plated steel needle.

47 D 4362	613	phone tips	.87
47 D 4363	614	spade lugs	.87
47 D 4364	615	alligator clips	.93

High-Tension Test Leads. 5″ long prod has ½″ O.D., fiber handle, nickel-plated brass tip and finger guard. Fiber plug.

47 D 4368	620	ins. phone tips	1.98
47 D 4369	621	ins. spade lugs	1.98
47 D 4370	622	ins. alligator clips	2.40

Meter Test Leads With Solderless Prods. 4″ prod has butyrate handle with ⅜″ O.D. Nickel-plated brass tip and body. Molded thermosetting plastic elbow. Banana meter tip has 4-leaved phosphor-bronze nickel-plated spring.

47 D 4371	625	phone-tip meter tip	1.35
47 D 4372	685	banana meter tip	1.50

Meter Test Leads With Needle Prods. Above, but with nickel-plated steel needle prods.

47 D 4373	626	phone tip meter tip	1.35
47 D 4374	686	banana meter tip	1.50

Type 603 All Solderless Test Leads. 4″ prod has ⅜″ O.D., butyrate handle. Thermosetting plug. Nickel-plated brass tip.
47 D 4375.................. Per Pair 1.26

Universal Test Lead Kits. Completely interchangeable—50 leads in one! All parts adapt into handles supplied. Leads, 54¾″. Type 699 std. kit comes with 12 testing tips and connectors; Type 679 miniature kit, with 10 miniature accessories.
47 D 4376. Type 699 Kit......... Each 2.40
47 D 4377. Type 679 Kit......... Each 2.40

Type 698 "Slim Jim" Test Leads. 4″ butyrate prod is ⅜″ O.D.; has 3½″ cadmium-plated steel tip insulated with vinyl tubing. Thermosetting elbows have phone tips.
47 D 4378.................. Per Pair 1.14

Shielded Test Leads. Plugs insert flush to insulated molded butyrate handle; 3x7⁄16″ dia. prods have retractable cover—no exposed metal. Nickel-plated brass tip.

Stock No.	Type	Meter End	PER PAIR
47 D 4379	616	phone tips	1.80
47 D 4380	617	banana plugs	1.86

Alligator Clip Test Leads. Cadmium-plated steel clips. *Have vinyl plastic boots. Types 716, 717, 718 have midget clips.

Stock No.	Type	Wire Lgth.	PER PAIR
47 D 4381	604	12″	.57
47 D 4382	605	24″	.63
47 D 4383	629*	12″	.81
47 D 4384	657*	24″	.87
47 D 4385	716*	12″	.81
47 D 4386	717*	18″	.84
47 D 4387	718*	24″	.87

Alligator Clip Test Leads (Cont'd). Cadmium-plated steel alligator clips have molded butyrate handles. Molded thermosetting plastic elbows* and meter plugs.

Stock No.	Type	Meter End	PER PAIR
47 D 4388	627	solderless tips	.99
47 D 4389	628*	tip plugs	1.20
47 D 4390	647*	banana plugs	1.20
47 D 4391	649	spade lugs	1.20

Type 618 Retractile Solderless Test Leads. 12″ stretch coil extends to 6′. Solderless, nickel-plated brass phone tips both ends. Molded butyrate handles. Molded thermosetting plugs. 4000 v., nom. O.D. .165″.
47 D 4398.................. Per Pair 2.95

Crocodile Clip Test Leads With Boots. Clips are cadmium-plated steel. *Butyrate handles. Vinyl boots. †Thermosetting elbows.

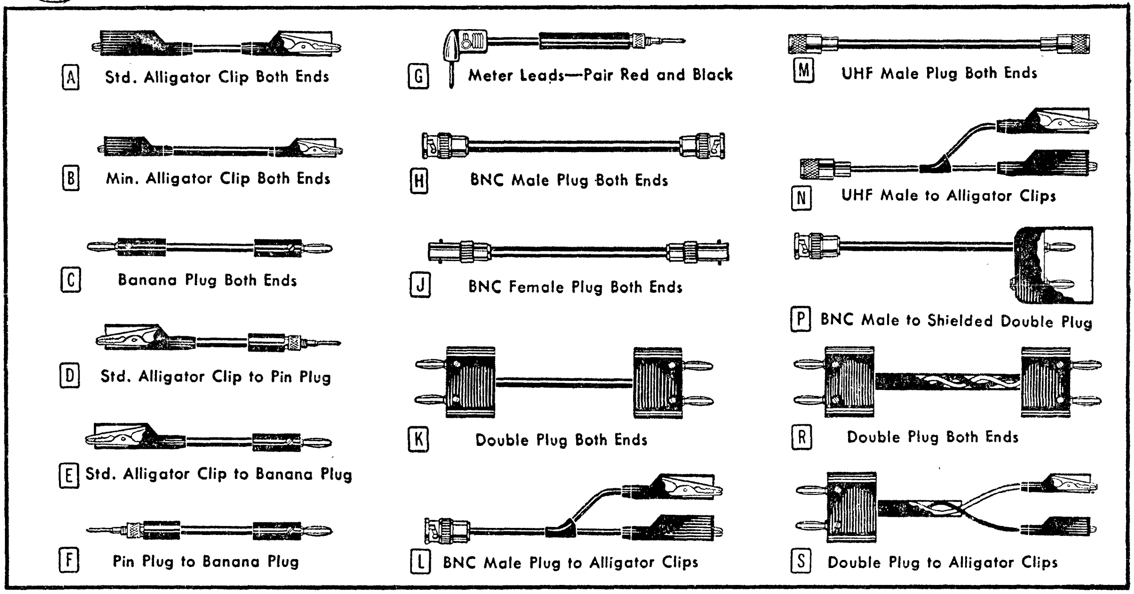
47 D 4392	671*	spade lugs	1.20
47 D 4393	675†	tip plugs	1.14
47 D 4394	648†	banana plugs	1.14

Test Lead Kits. 4″ molded tenite handles have ⅜″ O.D. Prods have banana plugs at one end, choice of solderless phone tip or needle tip at other. Each kit contains these fittings for snapping onto banana plugs: 2 phone tips, 2 alligator clips, 2 spade lugs. 50″ leads.

Stock No.	Type	Prods	EA.
47 D 4395	610	solderless phone tip	1.80
47 D 4396	611	needle tip	1.80

Type 670 "Slim Handle" Test Leads. Machined butyrate red-and-black prod handles meet MIL-P-10408A, Type 1, Class 2 specifications; handy size—5″ long and 5⁄16″ outer diameter. Prod tips are of nickel-plated brass. Tips at meter end are of nickel-plated drawn brass. 50″ leads.
47 D 4397.................. Per Pair .66

H. H. Smith Test Leads and Prods



Wide selection of single leads for making tests, temporarily connecting instruments to a circuit, or making other temporary connections. Top-quality leads ensure firm mechanical and electrical contact at all times. Ideal for every kind of industrial and servicing application. Each lead utilizes No. 18 AWG 20,000-volt insulated wire that is extra-flexible and kinkless. Handles are of tough molded tenite, and/or molded bakelite. Cadmium-plated steel clips; nickel-plated brass tips; vinyl plastic boots. H. H. Smith test leads offer an extremely wide variety of terminations. *Type 0625—meter leads—one red and one black. No. 20, 5000 v. insulation. Shielded test leads use RG58C/U coaxial cable; except †RG11A/U cable; ‡low-capacity cable; §twisted pair. Av. shpg. wt., 5 oz.

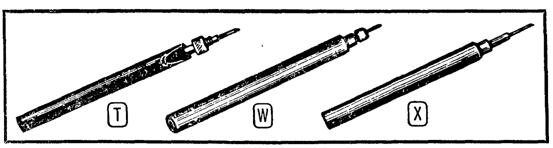
UNSHIELDED TEST LEADS

Stock No.	Mfr's Type	Ft.	Color	Fig.	EACH 1-9	10-49	50-99	100-499
47 D 1851	1596-12-102	1	Red	A	.40	.36	.332	.30
47 D 1850	1596-12-103	1	Black	A	.40	.36	.332	.30
47 D 1856	1596-36-102	3	Red	A	.48	.432	.398	.36
47 D 1855	1596-36-103	3	Black	A	.48	.432	.398	.36
47 D 1861	1596-60-102	5	Red	A	.55	.495	.457	.413
47 D 1860	1596-60-103	5	Black	A	.55	.495	.457	.413
47 D 1863	1597-12-102	1	Red	B	.40	.36	.332	.30
47 D 1862	1597-12-103	1	Black	B	.40	.36	.332	.30
47 D 1865	1597-36-102	3	Red	B	.48	.432	.398	.36
47 D 1864	1597-36-103	3	Black	B	.48	.432	.398	.36
47 D 1867	1597-60-102	5	Red	B	.55	.495	.457	.413
47 D 1866	1597-60-103	5	Black	B	.55	.495	.457	.413
47 D 1901	1863-12-102	1	Red	C	.60	.54	.498	.45
47 D 1874	1863-12-103	1	Black	C	.60	.54	.498	.45
47 D 1904	1863-36-102	3	Red	C	.70	.63	.581	.525
47 D 1903	1863-36-103	3	Black	C	.70	.63	.581	.525
47 D 1909	1863-60-102	5	Red	C	.80	.72	.664	.60
47 D 1908	1863-60-103	5	Black	C	.80	.72	.664	.60
47 D 1923	1865-36-102	3	Red	D	.50	.45	.415	.375
47 D 1922	1865-36-103	3	Black	D	.50	.45	.415	.375
47 D 1925	1865-60-102	5	Red	D	.60	.54	.498	.45
47 D 1924	1865-60-103	5	Black	D	.60	.54	.498	.45
47 D 1930	1866-36-102	3	Red	E	.55	.495	.457	.413
47 D 1929	1866-36-103	3	Black	E	.55	.495	.457	.413
47 D 1935	1866-60-102	5	Red	E	.65	.585	.54	.488
47 D 1931	1866-60-103	5	Black	E	.65	.585	.54	.488
47 D 1963	1868-36-102	3	Red	F	.60	.54	.498	.45
47 D 1961	1868-36-103	3	Black	F	.60	.54	.498	.45
47 D 1966	1868-60-102	5	Red	F	.70	.63	.581	.525
47 D 1964	1868-60-103	5	Black	F	.70	.63	.581	.525
47 D 1968	0625*	4	......	G	1.35	1.22	1.12	1.01
47 D 1790	1530-36§	3	Gray	R	2.40	2.16	1.99	1.80
47 D 1793	1531-36§	3	Gray	S	1.80	1.62	1.49	1.35
47 D 1794	1531-60	5	Gray	S	2.05	1.85	1.70	1.54

COAXIAL-CABLE SHIELDED TEST LEADS

Stock No.	Mfr's Type	Ft.	Color	Fig.	EACH 1-9	10-49	50-99	100-499
47 D 1969	1589-12	1	Black	H	4.00	3.15	2.91	2.63
47 D 1973	1589-36	3	Black	H	4.32	3.33	3.07	2.78
47 D 1974	1589-60	5	Black	H	4.55	3.60	3.32	3.00
47 D 1979	1869-36	3	Black	J	4.00	3.60	3.32	3.00
47 D 1980	1869-60	5	Black	J	4.25	3.83	3.53	3.19
47 D 1981	1580-12	1	Black	K	2.15	1.94	1.78	1.61
47 D 1982	1580-36	3	Black	K	2.40	2.16	1.99	1.80
47 D 1985	1580-60	5	Black	K	2.65	2.39	2.20	1.99
47 D 1986	1537-12‡	1	Gray	L	3.75	2.57	2.37	2.14
47 D 1987	1537-36‡	3	Gray	L	4.08	2.84	2.61	2.36
47 D 1990	1537-60‡	5	Gray	L	4.30	3.11	2.86	2.59
47 D 1781	1872-36†	3	Black	N	4.08	3.47	3.20	2.89
47 D 1782	1872-60†	5	Black	N	4.30	3.83	3.53	3.19
47 D 1784	1873-36‡	3	Black	P	6.25	5.49	5.06	4.58
47 D 1786	1873-60‡	5	Black	P	6.50	5.81	5.35	4.84
47 D 1993	1871-36†	3	Black	M	4.75	3.56	3.28	2.96
47 D 1998	1871-60†	5	Black	M	5.00	4.05	3.74	3.38

H. H. SMITH TEST PRODS



X **Type 319 Heavy-duty Test Prod.** Threaded type. Extra sturdy brass, nickel-plated tip with red or black molded plastic handle. Overall length, 5 3/16″. Shpg. wt., 8 oz.
47 D 2375. Red. **47 D 2376.** Black. 1-49............Each .30
50-99............Each .27
100-499............Each .25

T **Type 302 Solderless Test Prod.** Threaded prod with 4″ long plastic handle, 3/8″ diameter. Nickel-plated phone tip. Wire fits through handle, wraps around screw portion. Shpg. wt., 6 oz.
47 D 2110. Red. **47 D 2111.** Black.
1-49....Each .30 50-99....Each .27 100-499..........Each .25

W **Type 317 Phono Needle Test Prod.** Brass nickel-plated body with steel, nickel-plated, phono-type needle. Removable chuck for replacing needles. Plastic handle. Overall length 4 13/16″. 4 oz.
47 D 2373. Red. **47 D 2374.** Black.
1-49....Each .30 50-99..Each .27 100-499...........Each .25

T **Type 323 Solderless Fiber Test Prod.** Solid bone fiber handle, molded to nickel-plated brass tip. Features .245″ inside diameter—for heavy duty wire. Overall length 5 7/32″. Shpg. wt., 8 oz.
47 D 2258. Red. **47 D 2259.** Black.
1-49....Each .30 50-99....Each .27 100-499.........Each .25

Plugs, Patch Cords, Test Sockets, Boxes | Pomona

MDP MOLDED DOUBLE "STACK-UP" PLUGS

Double plugs to permit multiple stacking. Fit standard banana jacks. ¾" spacing. Set-screws secure cable leads. Ground connection marked. One-piece nickel-plated beryllium copper springs. 15 amps continuous; 30 amps int. 5000 WVDC. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Color	EACH 1-24	25-49	50-99	100-249
47 D 2214	MDP	Black	.75	.68	.64	.53
47 D 2218	MDP	Red	.75	.68	.64	.53
47 D 2220	MDP	Orange	.75	.68	.64	.53
47 D 2221	MDP	Yellow	.75	.68	.64	.53
47 D 2222	MDP	Green	.75	.68	.64	.53
47 D 2225	MDP	Blue	.75	.68	.64	.53
47 D 2231	MDP	Gray	.75	.68	.64	.53
47 D 2232	MDP	White	.75	.68	.64	.53

Type MDP-ST. Has solder turret terminals.

47 D 2235	MDP-ST	Black	.85	.77	.72	.60

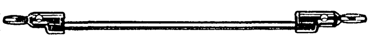
Type MDP-X. Four-terminal isolation plug.

47 D 2241	MDP-X	Red	3.25	2.93	2.76	2.28

Types 1269 and 1270. BNC receptacle and plug adapters: 1269 adapts jack to plug; 1270 adapts jack to receptacle.

47 D 2242	1269	Black	2.85	2.57	2.42	2.00
47 D 2243	1270	Black	3.85	3.47	3.27	2.70

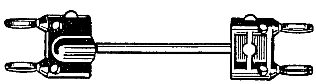
MODEL "B" BANANA PLUG PATCH CORDS



Vertical and horizontal stacking connections. One-piece, heat-treated beryllium copper spring. Rated 15 amps, cont.; 30 int. 18-gauge wire. 7500 WVDC. Contact resistance less than 0.001 ohm. Shpg. wt., 5oz.

Stock No.	Mfr's Type	Color	Lgth. In.	EACH 1-24	25-49	50-99	100-249
47 D 2275	B-4	Black	4	1.50	1.35	1.28	1.05
47 D 2280	B-4	Red	4	1.50	1.35	1.28	1.05
47 D 2281	B-8	Black	8	1.50	1.35	1.28	1.05
47 D 2282	B-8	Red	8	1.50	1.35	1.28	1.05
47 D 2284	B-12	Black	12	1.50	1.35	1.28	1.05
47 D 2287	B-12	Red	12	1.50	1.35	1.28	1.05
47 D 2298	B-18	Black	18	1.50	1.35	1.28	1.05
47 D 2299	B-18	Red	18	1.50	1.35	1.28	1.05
47 D 2350	B-24	Black	24	1.50	1.35	1.28	1.05
47 D 2351	B-24	Red	24	1.50	1.35	1.28	1.05
47 D 2353	B-36	Black	36	1.50	1 35	1.28	1.05
47 D 2354	B-36	Red	36	1.50	1.35	1.28	1.05

DOUBLE-PLUG-EACH-END PATCH CORDS



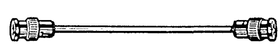
36" cords with an MDP plug on each end. Type 2BA-36 is 2-conductor 18-gauge twisted wire. Type 2BB-36 is shielded microphone cable. 2BC-36 is RG58C/U shielded coaxial cable. Wt., 5 oz.

Stock No.	Mfr's Type	Color	EACH 1-9	10-24	25-49	50-99
47 D 2204	2BA-36	Gray	4.85	4.37	4.13	3.40
47 D 2205	2BB-36	Gray	4.85	4.37	4.13	3.40
47 D 2269	2BC-36	Black	4.85	4.37	4.13	3.40

Double-Plug Type. Above, but 2 alligator clips on one end. 2BB-AL-36: mike cable. 2BC-AL-36: coax cable. Shpg. wt., 4 oz.

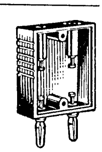
47 D 2239	2BB-AL-36	Gray	5.85	5.27	4.97	4.10
47 D 2274	2BC-AL-36	Black	5.85	5.27	4.97	4.10

CONNECTING LEAD WITH PLUG ON EACH END



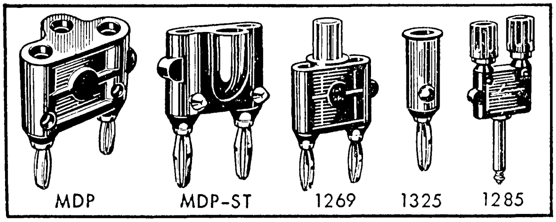
Type BNC-C-36. One UG-88E/U male BNC connector at each end of 36" RG58C/U cable shielded coax cable. Cable has polyethylene insulation and vinyl jacket. Low-voltage BNC connector is single-contact type. 6 oz.
47 D 2517. 1-9........Each 5.85   10-24..............Each 5.27
25-49...............Each 4.97   50-99...............Each 4.10

NEW "BLACK BOXES"



Use to create passive or active networks, voltage dividers, etc. Electrical grade phenolic housing, with paper base phenolic cover. Incl. cover plate and self-tapping screws. Operating temp. —25° C to †125° C. Working voltage 5000 VDC. Upper; .166" banana jacks, Lower, .166" plugs. ¾" centers.

Stock No.	Mfr's Type	Size	EACH 1-24	25-49	50-99	100-249
47 D 2283	2098	2.48x1.44x.69"	2.85	2.57	2.42	2.00
47 D 2285	2224	3.11x1.53x1.53"	2.95	2.65	2.51	2.07



MODEL 1325 SINGLE BANANA PLUGS

Solderless stack-up type with one-piece nickel-plated beryllium copper. Spring tip. Internal set screws eliminate soldering. Plugs fit standard .166" banana jacks. Rated 15 amps, continuous. 5000 WVDC. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-24	25-49	50-99	100-249
47 D 2244	1325	Black	.50	.45	.43	.35
47 D 2247	1325	Red	.50	.45	.43	.35
47 D 2249	1325	Orange	.50	.45	.43	.35
47 D 2250	1325	Yellow	.50	.45	.43	.35
47 D 2251	1325	Green	.50	.45	.43	.35
47 D 2253	1325	Blue	.50	.45	.43	.35
47 D 2255	1325	Gray	.50	.45	.43	.35
47 D 2260	1325	White	.50	.45	.43	.35

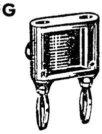
Model 1285 Phone Plug Adapter. Adapts phone jack to ¾"-spaced binding posts. Thermoplastic body. Shpg. wt., 3 oz.

47 D 2267	1285	Black	4.85	4.37	4.13	3.40

Model 1296 BNC Binding-Post Adapter. Adapts BNC receptacle to ¾"-speed binding posts. Molded thermoplastic body. Wt., 3 oz.

47 D 2268	1296	Black	4.85	4.37	4.13	3.40

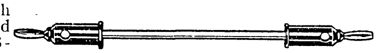
COMPONENT-MOUNTING DOUBLE BANANA PLUG



Model 1330. Has recess for mounting small components. ¾" spacing. Stacking jacks at top. 5 oz.

Stock No.	Color	1-24, EA.	25-49, EA.	50-99, EA.	100-249 EA.
47 D 2236	Black	.75	.68	.64	.53
47 D 2237	Red	.75	.68	.64	.53

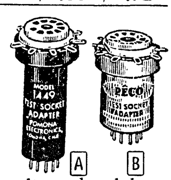
MODEL 1440 EXTENSION CABLE



One banana plug each end. Fit any standard banana jacks. 18-gauge stranded wire. One-piece nickel-plated beryllium copper spring. Av. wt., 4 oz.

Stock No.	Mfr's Type	Color	Lgth. In.	EACH 1-24	25-49	50-99	100-249
47 D 2532	1440-12	Black	12	1.00	.91	.86	.72
47 D 2533	1440-12	Red	12	1.00	.91	.86	.72
47 D 2548	1440-24	Black	24	1.00	.91	.86	.72
47 D 2549	1440-24	Red	24	1.00	.91	.86	.72
47 D 2550	1440-36	Black	36	1.00	.91	.86	.72
47 D 2551	1440-36	Red	36	1.00	.91	.86	.72

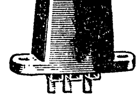
TEST SOCKET TUBE ADAPTERS



For measuring voltage, audio and video signals from atop the chassis. Extended test tabs for easy use with alligator clips or test prods. TVS types low-loss mica-filled molded phenolic per MIL-M-14, MFE; power factor less than 0.010 at 10 mc. Types 1447 and 1449 for use without removing shields or tuner covers, are 1²¹⁄₃₂" high. For all types: insulation resistance exceeds 500,000 megohms, voltage breakdown exceeds 1700 v. AC or DC. Av. shpg. wt., 5 oz.

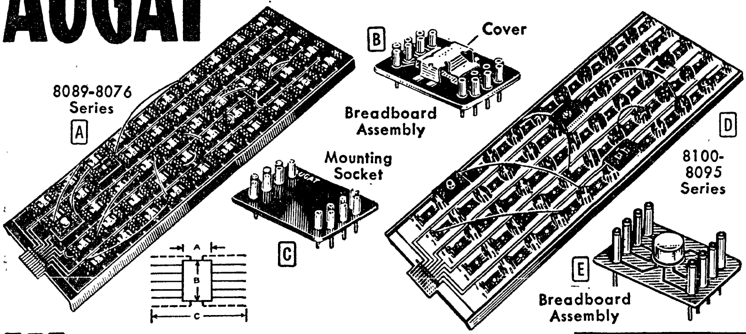
Stock No.	Mfr's Type	Fig.	Pins	Description	EACH
47 D 0035	TVS-7	B	7	Miniature	1.65
47 D 0036	TVS-8	B	8	Octal	1.75
47 D 0037	TVS-9	B	9	Miniature	1.85
47 D 2211	TVS-12	B	12	Compactron	2.55
47 D 0038	1447	A	7	Miniature	1.85
47 D 0039	1449	A	9	Miniature	1.95
47 D 2286	1779	....	9	Novar	2.25

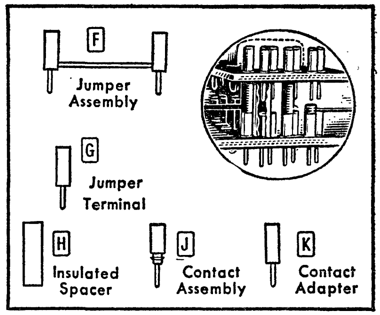
MODEL TS-187 TRANSISTOR TEST SOCKET



Transistor socket from adapter, at right. 300°C. testing temperature. Accepts .017" diameter leads. I.R.: 10,000 megohms at 40% R.H. at 24° C. Beryllium copper contacts. Shpg. wt., 3 oz.
47 D 2213. 1-24.Ea. 1.75   25-49.......Ea. 1.58
50-99...........Ea. 1.50   100-249......Ea. 1.23

AUGAT Integrated Circuit Sockets, Breadboards





[A] [B] [C] BREADBOARD SOCKETS FOR FLAT-PACK CIRCUITS

8076. Single units for individual use or stacking on 8089 or 8100. Type 8076-10G1 for mounting other components or as base socket. 1.020x1.420″. *Flat-pack size; length including leads is .500″ min., .750″ max. 8089. For 50 flat-pack integrated circuits for life-tests and breadboarding. Snap-action covers for flat-packs (with up to 14 leads, spaced .050″). Vertical male/female connectors. Jumpers available for interconnections. Common power and ground bus-bars. Accept 10-pin connector. 9/16x17 3/8x6 1/8″. Shpg. wt., 1 1/4 lbs.

Stock No.	Mfr's Type	Fig.	Description	*Inches A	*Inches B	EACH 1-99	100-499	500-999
47 D 6134	8076-1G3	B	Breadboard Ass'y	1/8-1/4	1/4	3.50	3.15	2.80
47 D 6135	8076-1G7	B	Breadboard Ass'y	1/8-1/4	3/8	3.50	3.15	2.80
47 D 6136	8076-10G1	C	Mounting Socket	...	..	1.78	1.65	1.57
47 D 6130	8089-1G7R	A	50-Pattern Panel	1/8-1/4	1/4	Ea., 1-4 216.00		

[D] [E] BREADBOARD SOCKETS FOR TO-5 CASE CIRCUITS

8095. Single unit, stackable on 8100 (or 8089). 1.020x1.420″. *TO-5 case specs. 8100. Same as 8089 except for pattern and case. Vertical connectors. Interconnecting jumpers available; interconnectable on either side. Accept 10-pin PC connector. 9/16x17 3/8x6 1/8″. 3 oz.

Stock No.	Mfr's Type	Fig.	*Contacts	*Pin Circle Dia.	EACH 1-99	100-499	500-999
47 D 6137	8095-1G2	E	6	.250″	3.50	3.15	2.80
47 D 6138	8095-1G3	E	8	.250″	3.65	3.30	2.95
47 D 6139	8095-1G4	E	10	.300″	3.80	3.45	3.10
47 D 6140	8095-1G5	E	12	.360″	3.95	3.60	3.25
47 D 6131	8100-1G3R	D	8	.250″	Each, 1-4 224.00		
47 D 6132	8100-1G4R	D	10	.300″	Each, 1-4 232.00		

[F] JUMPERS FOR 8089, 8076, 8100, 8095

For horizontal or vertical-horizontal interconnections—can be stacked for "Y" connections and bus combinations. 1 oz.

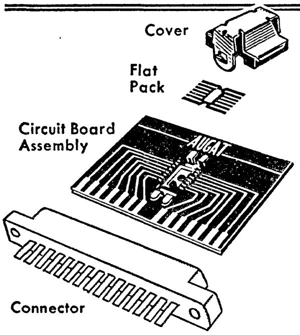
Stock No.	Mfr's Type	Lgth.	Color	PKG. OF 10 1-9	10-49
47 D 6100	8076-12G 1-4	4″	Black	4.15	3.65
47 D 6101	8076-12G 2-4	4″	Red	4.15	3.65
47 D 6102	8076-12G 3-4	4″	Blue	4.15	3.65
47 D 6103	8076-12G 4-4	4″	Green	4.15	3.65
47 D 6104	8076-12G 5-4	4″	Orange	4.15	3.65
47 D 6105	8076-12G 6-4	4″	Yellow	4.15	3.65
47 D 6106	8076-12G 7-4	4″	Brown	4.15	3.65
47 D 6107	8076-12G 1-6	6″	Black	4.25	3.75
47 D 6108	8076-12G 2-6	6″	Red	4.25	3.75
47 D 6109	8076-12G 3-6	6″	Blue	4.25	3.75
47 D 6110	8076-12G 4-6	6″	Green	4.25	3.75
47 D 6112	8076-12G 5-6	6″	Orange	4.25	3.75
47 D 6113	8076-12G 6-6	6″	Yellow	4.25	3.75
47 D 6114	8076-12G 7-6	6″	Brown	4.25	3.75

47 D 6133. 8076-12AS1 Assortment of 140 PC Jumpers. Includes ten 2″ wire, five 4″ wire, five 6″ wire in each color. 6 oz. 55.00

CONTACT HARDWARE FOR 8089, 8076, 8100, 8095 (2 oz)

Stock No.	Mfr's Type	Fig.	Description	PKG. OF 50
47 D 6123	8076-4G3	G	Jumper terminal	9.75
47 D 6124	8076-4G2	K	Contact adapter .257″ high	9.25
47 D 6126	8076-4G4	J	Contact ass'y .419″ high	7.50
47 D 6127	8076-4G5	J	Contact ass'y .607″ high	7.50
47 D 6128	8076-26P1	H	.444″ insulated spacer	2.50
47 D 6129	8095-4P1	H	.632″ insulated spacer	3.00

47 D 6115. 8076-20G1 Cover Extractor Tool. Wt., 2 oz. 1.00
47 D 6116. 8076-18P1 Board Separator Key. Wt., 1 oz. 05
47 D 6122. Trial Kit. 2—8076-1G3; 1—8076-10G1; 14—8076-4G2; 7—8076-12G6-3; 7—8076-17G1-3; 4—8076-26P1; 1—8076-18P1. 6 oz. 16.00

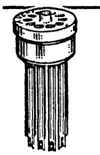


8075 TEST SOCKETS FOR FLAT PACKS

PC test socket for flat packs up to 3/8x3/8″ and 14 leads on .050″ spacing. Cover grips leads to PC contacts. 8075-1G2 with 15-pin PC connector, 8075-1G1 less connector.

8075-1G2. With connector. 4 oz.
47 D 6141. 1-99 . . . Ea. **4.55**
100-499 . . . . Ea. **4.15**
500-999 . . . . Ea. **3.37**

8075-1G1. Less connector. 2 oz.
47 D 6146. 1-99 . . . . Ea. **2.50**
100-499 . . . . Ea. **2.20**
500-999 . . . . Ea. **1.90**

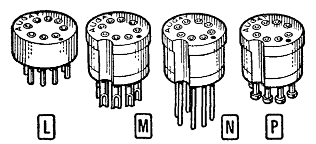


SERIES 8092 TEST SOCKETS FOR TRANSISTORS AND INTEGRATED CIRCUITS

Test sockets with chamfered lead holes for easy insertion, raised boss to prevent sharp lead-bending and for easy component removal. "Push-fit" mounting. Low contact resistance after 50,000 insertions. For minimum 1/2-in. leads. Teflon insulator, gold-plated contacts. Rated 2 amps. *Pin circle. †RO-52 outline. 2 oz.

Stock No.	Mfr's Type	Contacts	*Dia.	Mtg. Hole	PER PKG. OF 5 1-99	100-499	500-999
47 D 6091	8092-1G1	3	.200″	.437	5.00	4.50	4.25
47 D 6090	8092-1G2	4	.200″	.437	5.75	5.25	5.00
47 D 6093	8092-1G3	6	.312″	.687	7.75	7.25	7.00
47 D 6094	8092-1G4	†6	.400″	.687	7.75	7.25	7.00
47 D 6095	8092-1G5	8	.400″	.687	10.00	9.50	9.20
47 D 6096	8092-1G6	10	.420″	.687	12.25	11.75	11.50
47 D 6097	8092-1G7	12	.510″	.750	14.75	14.25	14.00

SERIES 8058 INTEGRATED CIRCUIT SOCKETS



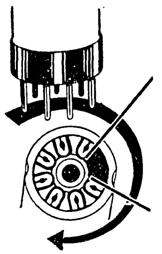
For use with TO-5 type integrated circuits. Closed entry machined berylium contacts. Teflon insulated. Figs. M, N, P push-fit in .366-.369″ dia. hole. Fig. L is P.C. mtg. Chamfered holes for easy lead insertion. *Pin circle. Wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Con. Term.	*Dia.	Contacts	PER PKG. OF 5 1-19	20-99	100-199
47D6070	8058-1G48	L	P.C.	.200″	6	4.70	4.00	3.50
47D6062	8058-1G44	P	Turret	.200″	6	4.70	4.00	3.50
47D6072	8058-1G43	M	Solder	.200″	6	4.70	4.00	3.50
47D6073	8058-1G42	N	P.C.	.200″	6	4.70	4.00	3.50
47D6074	8058-1G49	L	P.C.	.200″	8	5.70	5.00	4.40
47D6075	8058-1G37	P	Turret	.200″	8	5.70	5.00	4.40
47D6076	8058-1G19	M	Solder	.200″	8	5.70	5.00	4.40
47D6077	8058-1G32	N	P.C.	.200″	8	5.70	5.00	4.40
47D6078	8058-1G50	L	P.C.	.230″	8	5.70	5.00	4.40
47D6079	8058-1G47	P	Turret	.230″	8	5.70	5.00	4.40
47D6080	8058-1G46	M	Solder	.230″	8	5.70	5.00	4.40
47D6081	8058-1G45	N	P.C.	.230″	8	5.70	5.00	4.40
47D6082	8058-1G34	L	P.C.	.230″	10	6.76	5.95	5.15
47D6085	8058-24G1	..	P.C.	.230″	10	6.76	5.95	5.15
47D6083	8058-1G22	M	Solder	.230″	10	6.76	5.95	5.15
47D6084	8058-1G31	N	P.C.	.230″	10	6.76	5.95	5.15
47D6086	8058-1G51	L	P.C.	.280″	12	7.80	6.90	6.16
47D6063	8058-1G20	..	P.C.	.280″	12	7.80	6.90	6.16
47D6087	8058-1G28	M	Solder	.280″	12	7.80	6.90	6.16

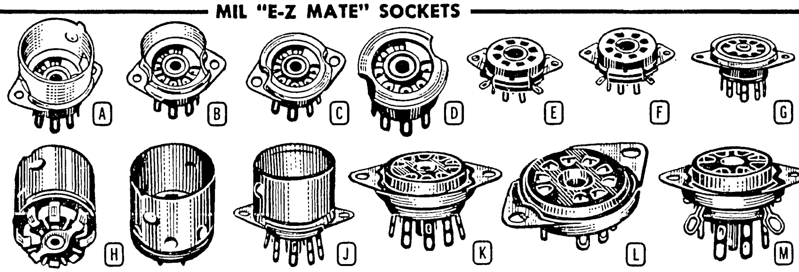
See Page 315 for Other Augat Sockets

Elco Sockets and Tube Shields

MIL "E-Z MATE" SOCKETS



Tubes fit into "E-Z Mate" socket on the *first* try! No time wasted, no pin damage. Has positioning key for unerring accuracy. A boon to designers.

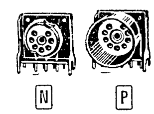


MIL "E-Z MATE" SOCKETS

MIL-S-12883A. All except * have center shield. Hardware, brass, tin lead plated. Contact material, phosphor bronze, silver plated, tin dipped. 7 and 9-pin sockets have .128" mtg. holes; octal sockets, .156" holes. Ceramic types do not have E-Z Mate feature. 2 oz.

Stock No.	Military Number	Mfr's Type	Insulating Material	Each 1-499	500-1499	1500-4999
[A] 9-PIN BASE SHIELD TYPE						
47 D 5556	TS103C01	04-915-04	Ceramic	.25	.160	.141
47 D 5557	TS103P01	04-915-02	Mica	.18	.111	.098
[B] 7-PIN BASE SHIELD TYPE						
47 D 5546	TS102C01	04-715-03	Ceramic	.23	.143	.126
47 D 5547	TS102P01	04-715-01	Mica	.16	.099	.087
[C] 7-PIN SADDLE—TOP MOUNTING						
47 D 5548	TS102C02	04-711-04	Ceramic	.21	.135	.119
47 D 5549	TS101P02	04-711-03	Mica	.14	.087	.077
[D] 9-PIN SADDLE—BOTTOM MOUNT WITH GROUND LUGS						
47 D 5560	TS103C03	04-903-06	Ceramic	.25	.155	.136
47 D 5561	TS103P03	04-903-07	Mica	.15	.095	.083
[E] OCTAL SOCKETS—BOTTOM MOUNT WITH GROUND LUGS						
47 D 5552	*TS101C01	04-813-09	Ceramic	.39	.246	.217
47 D 5553	*TS101P01	04-813-06	Mica	.27	.173	.152
[F] OCTAL SOCKETS—BOTTOM MOUNTED WITH GROUND LUGS, TAPPED BUSHINGS						
47 D 5554	*TS101C02	04-813-08	Ceramic	.45	.287	.252
47 D 5555	*TS101P02	04-813-07	Mica	.35	.220	.193
[G] 9-PIN SADDLE TOP MOUNTED						
47 D 5558	TS103CC2	04-911-05	Ceramic	.25	.155	.136
47 D 5559	TS103P02	04-911-04	Mica	.15	.095	.083

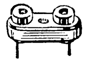
RIGHT-ANGLE PRINTED CIRCUIT SOCKETS



Use same socket for both 1/16" and 3/32" thick chassis. Ratings: 660 v., 1 amp. Insulation resistance: 1000 megohm min. Types 05-4007 and 05-4009 have shield base; others are plain. Types 05-4006 and 05-4007 are 7-pin; 05-4008 and 05-4009, 9-pin. Mica-filled insulation; gold-flashed, beryllium copper contacts. 4 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-99	100-499	500-999
47 D 5522	05-4006	N	1.69	1.05	.90
47 D 5523	05-4007	P	2.14	1.33	1.14
47 D 5524	05-4008	N	1.78	1.11	.95
47 D 5525	05-4009	P	2.23	1.39	1.19

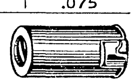
JAN CRYSTAL SOCKETS



Crystal sockets made to JAN standards. Type 04-210-01 meets MIL No. TS0205C01 spec. .050 pin dia. Wt., 2 oz.

Stock No.	Mfr's Type	Terminal Plating	EACH 1-499	500-1499
47 D 5532	04-210-01	Cadmium	.11	.066
47 D 5533	04-210-04	Silver	.12	.075

JAN TUBE SHIELDS



*For 7-pin sockets; †for 9-pin sockets. Have internal spring. All have "J" slot for military-type sockets. Av. wt., 6 oz.

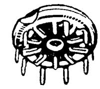
Stock No.	Mfr's Type	MIL No.	Ht. In.	EACH 1-499	500-1499
47 D 5535	04-791-02*	TS102U02	1¾	.12	.081
47 D 5538	04-991-02†	TS103U02	1 15/16	.14	.092
47 D 5539	04-991-03†	TS103U03	2⅜	.17	.111

E-Z MATE 7 AND 9-PIN COMMERCIAL SOCKETS

All sockets, (except figures H and L), have E-Z Mate positioning-key feature for maximum pin protection in blind locations. Virtually eliminates all pin damage. Permits the proper positioning of tubes with unerring accuracy. *Has silver-plated pins; ‡phosphor bronze; §beryllium copper. All others are made with brass pins. UHF Type 04-922-02 is constructed of low-loss mica. Each unit is rated at 1 amp, and 500 volts rms. Maximum contact resistance is a low .003 ohm. Insulation resistance is rated at 1000 megohms minimum. Average shipping weight per unit is 2 oz.

Stock No.	Mfr's Type 04-	Fig.	Description and Mounting	EACH 1-499	500-1499	1500-4999
47 D 5501	901-03‡	K	9-pin RMA saddle, top	.10	.061	.054
47 D 5503	905-02	J	9-pin shielded, top	.12	.075	.066
47 D 5505	922-02‡	L	9-pin UHF, bottom	.19	.121	.106
47 D 5506	765-01*‡	H	7-pin for 1/16" P.C.	.59	.40	.35
47 D 5507	965-01§*	H	9-pin for 1/16" P.C.	.68	.45	.40
47 D 5515	703-04	M	7-pin RMA saddle, bot.	.07	.047	.042
47 D 5517	703-06	M	7-pin RMA saddle, bot.	.12	.078	.069
47 D 5519	705-02	J	7-pin shielded top	.12	.077	.068

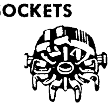
UHF PC STANDOFF TUBE SOCKETS



Printed circuit standoff sockets for 7 and 9-pin miniature tubes for UHF applications—low-loss mica filled insulator. Contacts are made of silver-plated, tin-dipped phosphor bronze. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Pins	EACH 1-499	500-1499	1500-4999
47 D 5529	04-730-01	7	.14	.087	.077
47 D 5528	04-930-01	9	.18	.114	.101

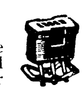
E-Z MATE STAND-OFF PRINTED CIRCUIT SOCKETS



Stand-off type sockets for surface mounting on printed circuit cards. E-Z Mate 7 and 9-pin miniatures with knob-like appendages for attaching spring-type tube retainers. Both types have mica-filled phenolic insulation and lead plated, phosphor bronze contacts. Voltage and current ratings: 500 v., 1 amp. Insulation resistance: 1000 megohms min. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Pins	EACH 1-499	500-1499	1500-4999
47 D 5460	04-750-01	7	.19	.16	.14
47 D 5465	04-950-01	9	.20	.18	.17

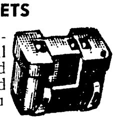
RETAINER-RING TRANSISTOR SOCKETS



High-quality retainer ring type sockets designed for use with transistors. 3-pin types are for point contact and junction type transistors. 4-pin types are for linotetrar type. *Retainer ring only. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Pins	EACH 1-499	500-1499	1500-4999
47 D 1074	05-0799	3	.10	.068	.063
47 D 1080	05-0803	4	.11	.072	.067
47 D 1097	55-47105	*	.02	.01	.0088

PRINTED-CIRCUIT TRANSISTOR SOCKETS



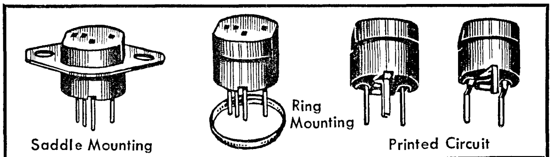
Especially designed for printed circuit boards—insulator material of low-loss mica filled phenolic. All contacts are of silver-plated beryllium copper and gold-flashed. 3-pin sockets are for point contact and junction-type transistors. 4-pin types are for linotetrar transistors. Av. shpg. wt., 2 oz.

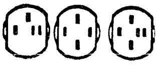
Stock No.	Mfr's Type	Pins	EACH 1-499	500-1499	1500-4999
47 D 1062	05-0786	3	.12	.075	.069
47 D 1063	05-0805	4	.12	.079	.073

Elco and Amphenol Sockets

ELCO TYPE 3300 SUBMINIATURE TRANSISTOR SOCKETS

FOR .016" DIAMETER PINS

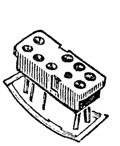




Screw-on saddle mtg., printed circuit or mtg. ring types. For 3-pin transistors with inline pins, or 3 and 4-pin transistors with pins on .200" diam. circle of any configuration. Conform to MIL-P-14. Beryllium copper contacts. *Requires 55-47202 ring listed below. Av. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-499	500-1499	1500-4999
47 D 1092	05-3301	A	Saddle Mtg	.18	.112	.098
47 D 1238	05-3303	A	Printed-Circuit	.14	.091	.08
47 D 1093	05-3304	A	*Ring Mounting	.14	.091	.08
47 D 1094	05-3305	A	Printed-Circuit	.14	.091	.08
47 D 1243	05-3307	B	*Ring Mounting	.17	.109	.096
47 D 1244	05-3308	B	Printed-Circuit	.17	.107	.095
47 D 1249	05-3313	C	*Ring Mounting	.20	.127	.112
47 D 1095	55-47202	......	Ring Only	.02	.011	.010

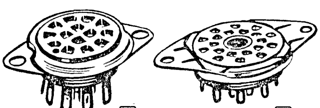
SUBMINIATURE RELAY SOCKET



Type 05-0887. Specially designed for the following plug-in relays: Advance MV2C Series, G.E. 352791 Series, Ace 201 Series, P & B SC Series, Brubaker K110 Series. Shpg. wt., 2 oz.
47 D 1038. 1-499........................Each .27
500-1499......Each .169 1500-4999.....Each .149

Type 55-47110 Retainer Ring. For above. 2 oz.
47 D 1039. 1-499..Each .02
500-1499.............Each .013 1500-4999............Each .011

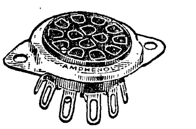
14 AND 20-PIN RELAY SOCKETS



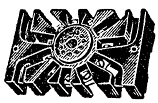
Top mounted 14-pin socket, MIL No. TS1405P01 per MIL-S-12883A. Has contacts on ½" pin dia.; 1⅛" mtg. centers. Bottom mtg. 20-pin socket has contacts, .812" dia. and 1.218" dia. Has 2.531 mtg. centers. All have mica insulator and silver-plated, phosphor bronze contacts. Av. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Pins	EACH 1-499	500-1499	1500-4999
47 D 5530	05-0423-02	D	14	.33	.207	.182
47 D 5531	05-0571	E	20	1.92	1.21	1.07

AMPHENOL RELAY SOCKETS



59-106

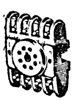


146-817

Type 59-106. 14-contact socket. For use with most standard relays and Amphenol sealed relays. Mica-filled phenolic, wrap-around type contacts. Requires ¾" mtg. hole. Mtg. plate has two ⅛" holes in 1⅛" center. 4 oz.
47 D 0000. 1-49...Ea. .45 50-249...Ea. .379 250-499....Ea. .318

Type 146-817. 11-contact melamine socket. Replaceable contacts on ¾" circle, screw-type terminals. 10 amps at 600 v., rms. Two .156" mtg. holes on 3⅞" ctrs. 4 tie points. 1 lb.
47 D 2593. 1-24....Each 3.47 25-99................Each 2.91
100-249...........Each 2.44 250-499................Each 2.09

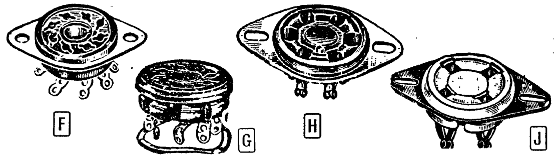
BARRIER-TYPE OCTAL RELAY SOCKETS



Maximum EIA working voltage of sockets is 2000 DC. All have bronze cloverleaf contacts. Each contact rated 8 amps. Inter-electrode capacitance is 2.6 mmf. 8 screw terminals. Top mounting, except *bottom mounting. †Includes 4 molded-in threaded inserts for use as tie points. Size, ¾4x1⁵⁄₁₆x2⅝". Av. wt., 8 oz.

Stock No.	Mfr's Type	EACH 1-24	25-99	100-249	250-499	500-999
47 D 0180	146-103	1.50	1.25	1.05	.90	.799
47 D 0181	146-104†	1.91	1.59	1.34	1.15	1.02
47 D 0080	146-203*	1.50	1.25	1.05	.90	.799
47 D 0087	146-204*†	1.91	1.59	1.34	1.15	1.02

AMPHENOL STANDARD SOCKETS



F Type MIP. Bakelite body with molded-in steel plate. *Require 1⅛" hole; mounting centers, 1⁵⁄₁₆"; others have 1½" mtg. ctrs. †Requires 1⁹⁄₃₂" hole; §1⁵⁄₃₂" hole. ‡Mica-filled bakelite.

Stock No.	Mfr's Type	Prongs	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0024	77MIP4§	4	.18	.15	.124	.106	.094
47 D 0025	77MIP5§	5	.20	.16	.137	.118	.104
47 D 0026	77MIP6§	6	.22	.18	.152	.130	.115
47 D 0027	77MIP7S§	7 Small	.24	.20	.166	.143	.127
47 D 0029	77MIP7Lt†	7 Large	.26	.22	.185	.159	.141
47 D 0028	77MIP8§	Octal	.20	.17	.143	.123	.109
47 D 0126	88-8*	Octal	.23	.19	.158	.135	.120
47 D 0030	88-8X*	Loctal	.33	.27	.229	.196	.174
47 D 0034	77MIP8T§‡	Octal	.24	.20	.169	.145	.129
47 D 0032	77MIP9§	9	.24	.20	.165	.141	.125
47 D 0033	77MIP11§	11	.27	.23	.190	.163	.144
47 D 0168	77MIP11T‡	11	.30	.25	.209	.179	.159
47 D 0069	77MIP12§	12	.28	.24	.199	.170	.151
47 D 0070	77MIP20§	20	.64	.53	.447	.383	.340

Type 77-3K Kit. For making any of the "Mip" sockets listed above into a floating socket. Includes 4 grommets, 2 mount-screws, all necessary nuts and washers. Av. shpg. wt., 5 oz.
47 D 0092. 1-49..Each .19
50-249................Each .16 250-499............Each .131
500-999..............Each .113 1000-2499..........Each .100

G Type S. High-dielectric molded bakelite body. Units are same as Type RS, but without mounting plate; mount with retainer ring, supplied. All require 1¹¹⁄₆₄" keyed hole. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0054	78S4	4	.18	.15	.123	.105	.093
47 D 0055	78S5	5	.19	.16	.136	.116	.103
47 D 0056	78S6	6	.21	.18	.149	.128	.113
47 D 0057	78S7S	7 Small	.23	.20	.164	.140	.124
47 D 0058	78S8	Octal	.20	.17	.140	.120	.107
47 D 0060	78S8L	Loctal	.31	.26	.218	.186	.165
47 D 0062	78S9	9	.23	.19	.158	.135	.120
47 D 0072	78S11	11	.26	.22	.185	.159	.141

H Type RS. Have removable mounting plate. All of the units listed below mount in 1¹¹⁄₆₄" hole. Slotted mounting holes to fit centers from 1½ to 1⅞". Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0004	78RS4	4	.25	.21	.174	.149	.132
47 D 0005	78RS5	5	.23	.22	.187	.160	.142
47 D 0006	78RS6	6	.29	.24	.200	.171	.152
47 D 0008	78RS8	Octal	.27	.23	.190	.163	.144
47 D 0071	78RS11	11	.34	.28	.235	.201	.179

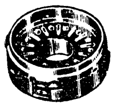
J Type RSS. Ultra-low-loss steatite body. Excellent for use in high-frequency transmitting equipment. All are universal type; have removable mounting plate with slotted holes 1½ to 1⅞". Mounting hole required, 1¼" except Type 49RSS7L, 1²¹⁄₆₄". Av. wt., 5 oz.

47 D 0074	49RSS4	4	.62	.515	.432	.370	.329
47 D 0075	49RSS5	5	.65	.545	.457	.391	.347
47 D 0079	49RSS7L	7 Large	.81	.673	.565	.484	.430
47 D 0078	49RSS8	Octal	.64	.534	.448	.384	.341

HIGH-VOLTAGE OCTAL SOCKET

Type 146-101. Provides excellent service under extreme high voltage, contact-to-chassis conditions. Accommodates any octal tubes with base up to 1.377" in diameter and 1.087" high. Molded of arc-resistant "Melamine" plastic. For above or below chassis mounting. Has 2¹⁄₃₂" mounting centers; requires 1²¹⁄₃₂" diameter hole for mounting on chassis. Av. shpg. wt., 4 oz.
47 D 0088. 1-24..Each .88
25-99..................Each .73 100-249..............Each .62
250-499...............Each .55 500-999..............Each .49

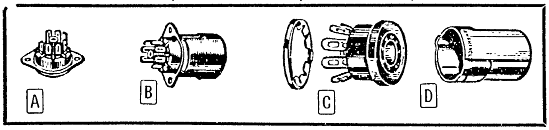
DUODECAL TV SOCKET



Type 59-402. For CR tubes. 12 prongs spaced on 1.063" dia. Low-loss bakelite; removable cap. 5 oz.
47 D 0100. 1-49........................Each .93
50-249.......Each .78 250-499.......Each .653
500-999.....Each .559 1000-2499.....Each .496

Amphenol and Cinch-Jones Tube Sockets

AMPHENOL SOCKETS, SHIELDS, SHELLS



BAKELITE AND MICA-FILLED MINIATURE SOCKETS

High-grade miniature type. 147 series mount in 5/8" chassis hole; 7/8" mtg. ctrs., with 1/8" screw holes. 59 series mount in 3/4" chassis hole and have 1 1/8" mtg. ctrs. with .095" rivet holes, (except 59-403, .125"). ‡Black bakelite. †Mica-filled bakelite. Av. wt., 5 oz.

[A] WITHOUT TUBE SHIELD BASE

Stock No.	Mfr's Type	Prongs	EACH 1-24	25-99	100-249	250-499	500-999
47 D 0191	‡147-500	7	.31	.259	.218	.186	.165
47 D 0199	†147-505	7	.31	.258	.216	.185	.164

Stock No.	Mfr's Type	Prongs	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0193	‡59-409	9	.35	.292	.245	.210	.186
47 D 0167	†59-410	9	.36	.301	.253	.216	.192

[B] WITH TUBE SHIELD BASE

Stock No.	Mfr's Type	Prongs	1-49	50-249	250-499	500-999	1000-2499
47 D 0103	†59-403	9	.51	.428	.359	.308	.273
47 D 0176	†59-407	9	.41	.346	.291	.249	.221
47 D 0196	‡59-406	9	.40	.338	.283	.243	.215

Stock No.	Mfr's Type	Prongs	EACH 1-24	25-99	100-249	250-499	500-999
47 D 0194	‡147-905	7	.35	.289	.242	.208	.184
47 D 0175	†147-913	7	.34	.287	.241	.206	.183

[C] RETAINER RING SOCKETS

Mount in 5/8" round or "D" shaped hole with retainer ring provided. May be used with 91-MPM plugs found elsewhere in this section. All are black bakelite. Av. wt., 5 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-49	50-249	250-499	500-999	1000-2499
47 D 0131	78-S3S	3	.11	.096	.080	.069	.061
47 D 0115	78-S4S	4	.15	.125	.105	.090	.080
47 D 0122	78-S5S	5	.20	.167	.140	.120	.107
47 D 0130	78-S6S	6	.21	.176	.147	.126	.112
47 D 0120	78-7P	7	.28	.233	.196	.168	.149

[D] TUBE SHIELDS FOR 9-PRONG SOCKETS

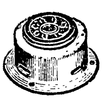
47 D 0189	5-408	1 5/16"	.25	.211	.177	.151	.134
47 D 0190	5-409	2 3/8"	.31	.256	.215	.184	.163

"S" TYPE MINIATURE 9-PIN TUBE SOCKET

Type 78-A9P. High dielectric phenolic. Designed to mount quickly and easily, without screws or rivets, on panel or chassis up to .050" thick in 1 11/64" keyed hole. With retaining ring. Av. wt., 5 oz.

47 D 0114. 1-49 .... Each .33
50-249 .... Each .275 250-499 .... Each .231
500-999 .... Each .198 1000-2499 .... Each .175

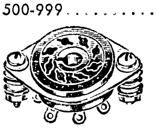
ACS SOCKET-SHELL



Type 23-1S. Lightweight aluminum for Types "RRS," "RS," and "S" tube sockets, except for 7-pin large tube sockets, such as Type 49RSS7L. Sockets extend 1 3/16" above or below chassis surface. Body diameter of shell, 1 11/16". Requires 1 3/4" diameter mounting hole. Less socket. 5 oz.

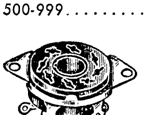
47 D 0127. 1-49 .... Each .26
50-249 .... Each .218 250-499 .... Each .183
500-999 .... Each .156 1000-2499 .... Each .139

OCTAL SOCKETS



Type 77-MIP8FK Floating Octal. Live-rubber grommets in enlarged mounting holes of sturdy steel plate. Mounts in 1 3/16" hole with two 1/4" holes on 1 1/2" centers. With grommets, mounting screws, nuts, washers. 5 oz.

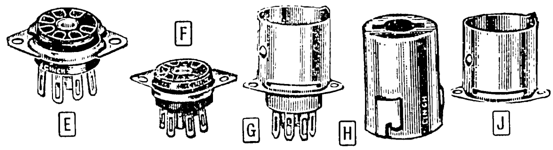
47 D 0043. 1-49 .... Each .39
50-249 .... Each .325 250-499 .... Each .273
500-999 .... Each .234 1000-2499 .... Each .208



Type 168-015 Saddle Octal. Constructed with sturdy steel plate and molded bakelite body. For 1" diameter hole; 9/64" mounting holes on 1 5/16" centers. Has 4 solder lugs, spaced 90° apart. Mount from below chassis. 5 oz.

47 D 0118. 1-49 .... Each .20
50-249 .... Each .167 250-499 .... Each .140
500-999 .... Each .120 1000-2499 .... Each .107

CINCH-JONES SOCKETS AND SHIELDS



MINIATURE TUBE SOCKETS, SHIELDS AND BASES

Socket saddles, shield bases and shields are steel unless otherwise noted. 7-pin sockets and shield bases mount on 7/8" centers, sockets require 5/8" hole. 9-pin sockets and shield bases mount on 1 1/8" centers; sockets require 3/4" hole. Strap nuts are curved strips with two threaded holes (and a pair of ground terminals) that take place of two nuts in mounting miniature sockets. Diameter of rivet holes: †.125", §.098". Wt., 1 oz.; except sockets, 2 oz.

[E] TOP-MOUNTING SOCKETS

Stock No.	Mfr's Type	Description	EACH 1-99	100-999
47 D 1117	7AB1	§7-pin black bakelite	.11	.063
47 D 1118	7AM1	§7-pin mica-filled bakelite	.11	.063
47 D 1119	9AB	§9-pin black bakelite	.11	.065
47 D 1120	9AM	§9-pin mica-filled bakelite	.12	.074

[F] BOTTOM-MOUNTING SOCKETS

47 D 1126	7EB	§7-pin black bakelite	.07	.043
47 D 1127	7EM	§7-pin mica-filled bakelite	.10	.062
47 D 1128	9EB	§9-pin black bakelite	.09	.051
47 D 1129	9EM	§9-pin mica-filled bakelite	.12	.072

[G] TOP-MOUNT SHIELD BASE SOCKETS ("J" Slot)

47 D 1131	7XB1	†7-pin black bakelite	.17	.085
47 D 1132	7XC	†7-pin ceramic	.35	.210
47 D 1133	7XM1	†7-pin mica-filled bakelite	.17	.100
47 D 1134	9XB	§9-pin black bakelite	.14	.086
47 D 1136	9XC	§9-pin ceramic	.30	.179
47 D 1139	9XM	§9-pin mica-filled bakelite	.19	.113

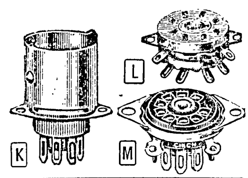
[H] TUBE SHIELDS ("J" Slot)

47 D 1140	7S2	1 3/8" high, 7-pin	.10	.06
47 D 1141	7S3	1 3/4" high, 7-pin	.11	.063
47 D 1142	7S4	2 1/4" high, 7-pin	.17	.100
47 D 1149	9S1	1 1/2" high, 9-pin	.25	.152
47 D 1150	9S2	1 15/16" high, 9-pin	.15	.090
47 D 1151	9S3	2 3/8" high, 9-pin	.28	.165

[J] SHIELD BASES ("J" Slot)

47 D 1155	7SB2	†5/8" high, brass, 7-pin, "J" slot	.07	.036
47 D 1170	9SB1	†9-pin, "J" slot	.07	.036

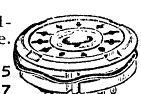
JAN/MIL TUBE SOCKETS AND SHIELDS



Shields are "J"-slot design; shield-base sockets fit "J"-slot shields. Sockets made to MIL-12883-A specs.; shields, JAN-S-28A. In "Description" column, TM indicates top mount; BM—bottom mount; SB—shield base; Mica—mica filled bakelite. Dimensions shown in description column below, refer to heights. Sockets, 2 oz.; shields, 1 oz.

Stock No.	Mfr's Type	Fig.	JAN/MIL	Description	EACH 1-99	100-999
47 D 1182	7JM-2	K	TS102P01	TM SB Mica 7-pin	.13	.098
47 D 1183	7JM-3	M	TS102P03	BM Mica 7-pin	.11	.083
47 D 1185	8JM-2	L	TS101P01	BM Mica Octal	.35	.177
47 D 1186	8JMN-2	L	TS101P02	BM Mica Octal Thread	.54	.27
47 D 1187	9JC-2	K	TS103C01	TM SB Ceramic 9-pin	.26	.194
47 D 1190	9JM-2	K	TS103P01	TM SB Mica 9-pin	.17	.126
47 D 1191	9JM-3	M	TS103P03	BM Mica 9-pin	.13	.098
47 D 1192	7SJ2-1	.	TS102U01	1 3/8" 7-pin tube shield	.14	.072
47 D 1193	7SJ3-1	....	TS102U02	1 3/4" 7-pin tube shield	.16	.08
47 D 1194	7SJ4-1	....	TS102U03	2 1/4" 7-pin tube shield	.18	.089
47 D 1196	9SJ2-1	....	TS103U02	1 15/16" 9-pin tube shield	.19	.097
47 D 1197	9SJ3-1	...	TS103U03	2 3/8" 9-pin tube shield	.21	.105

AMPHENOL MAGNAL SOCKET

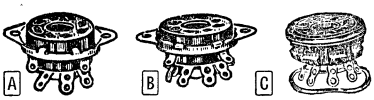


Type 49-SS11L. Has 1 1/16" pin circle to accept 11-prong CR tubes. Low-loss steatite. 1 5/8" mtg. hole. With retaining ring. Shpg. wt., 7 oz.

47 D 0090. 1-49 .... Each .95
50-249 .... Each .79 250-499 .... Each .67
500-999 .... Each .57 1000-2499 .... Each .51

Cinch-Jones Sockets and Heat Sinks

BAKELITE AND CERAMIC OCTAL SOCKETS

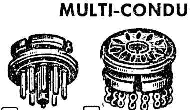


A B C

Saddle types have 4 ground lugs. Fig. A have 1½″ centers, clinch-on steel saddle; 1⅛″ dia. Fig. B 1$\frac{5}{16}$″ centers, press-on saddle; 1″ dia. Fig. C 1$\frac{11}{64}$″ dia., have keyway and retaining ring. 8RO, extra ring. 8AP permits rivet mtg. of Fig. C types (slotted 1½″ to 1⅞″ centers). "Mtg." column is rivet-hole dia. or chassis thickness. Retainer ring and adapter plate for use with these sockets are listed at bottom of table below.

Stock No.	Mfr's Type	Fig.	Description	Mtg.	EACH 1-99	EACH 100-999
47 D 3359	8AB	B	Black	.136″	.08	.05
47 D 3360	8AM	B	Mica-filled	.136″	.11	.063
47 D 3361	8EB	A	Black	.143″	.09	.054
47 D 3363	8EM	A	Mica-filled	.143″	.11	.068
47 D 3364	8R1	C	Black	$\frac{1}{16}$″	.16	.097
47 D 3366	8R3	C	Mica-filled	$\frac{1}{16}$″	.20	.119
47 D 0800	8RO	.....	Retainer ring		.04	.017
47 D 3368	8AP	.....	Adapter plate		.06	.03

MULTI-CONDUCTOR PLUGS AND SOCKETS

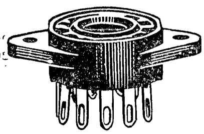


D E

Mount in 1$\frac{11}{64}$″ keyed holes (use 8RO retainer ring). Type 8PB plug fits standard octal socket. Type 11RB socket accepts 11PB plug. Type 16F snap-on shield fits all plugs and sockets listed in table below.

Stock No.	Type	Fig.	Description	1-99, EA.	100-999, EA.
47 D 0846	8PB	D	8-Contact Plug	.17	.102
47 D 0847	11PB	D	11-Contact Plug	.27	.135
47 D 0849	11RB	E	11-Contact Socket	.59	.354
47 D 0848	16F	....	Snap-on Shield	.56	.338
47 D 0800	8RO	....	Retainer Ring	.04	.017

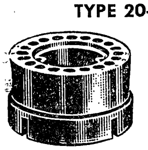
COMPACTRON TUBE SOCKETS



Special all-molded sockets engineered to meet or surpass all of the specifications required for use with all types of Compactron tubes. Types 12CS-B and 12CS-M have 12 contacts for standard use; Types 8CS-B and 8CS-M have 8 contacts (4 contacts removed) for high-voltage applications. Molded from high dielectric black phenolic (indicated by * in table, below) or mica-filled low-loss phenolic (indicated by †). Contacts are cadmium-plated brass. Mounting hole centers on saddle-type socket are 1$\frac{5}{16}$″. Mounting holes are .144″ in diameter. 12-pin sockets have 4 ground lugs. Physical dimensions are the same as conventional octal and novar sockets.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-249	250-499
47 D 1370	8CS-B*	.44	.354	.295	.236	.224
47 D 1372	8CS-M†	.48	.384	.32	.256	.243
47 D 1375	12CS-B*	.54	.432	.36	.288	.274
47 D 1376	12CS-M†	.58	.462	.385	.308	.293

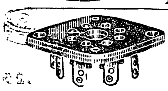
TYPE 20-PM PHOTOMULTIPLIER TUBE SOCKET



20-contact socket for RCA photomultiplier tubes. Accepts 6810, C7187A, C7122, 7265, or others with similar bases. Durable MAI-60 alkyd glass fibre base. Meets JETEC 20-102. 2 oz.

47 D 1348.....1-24 Ea. 5.00 25-49....Ea. 4.00
50-99. .....Each 3.34 100-249.......Each 2.67
250-499............................Each 2.54

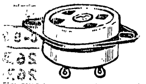
WAFER-TYPE SOCKETS



Sturdily constructed, laminated bakelite tube sockets. All are equipped with solder-coated brass contacts. **Sold in packages of 5.**

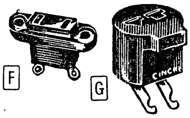
Stock No.	Mfr's Type	Mtg. Ctrs.	Pins	PER PKG. OF 5 1-20	PER PKG. OF 5 21-199
47 D 0412	7WL2	1″	7 (min.)	34	.17
47 D 0413	7WL4	1$\frac{5}{16}$″	7 (min.)	.40	.20
47 D 0414	8W1	1$\frac{5}{16}$″	8 (octal)	.40	.20
47 D 0415	8W2	1½″	8 (octal)	.40	.205
47 D 0416	9W1	1⅛″	9 (min.)	.40	.21

JAMES MILLEN TUBE SOCKETS



Specifically designed for UHF applications. Long flashover path to chassis permits use of these sockets with 866 rectifiers, many transmitting tubes, etc. Also feature a long leakage path between contacts. 1$\frac{11}{16}$″ mounting centers. 4 oz.

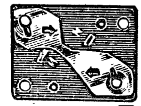
47 D 3200. 4-Prong Type 33004........................ Each .75
47 D 3201. 5-Prong Type 33005........................ Each .75



F G

SPECIAL-PURPOSE SOCKETS

Meet or surpass designer specs.



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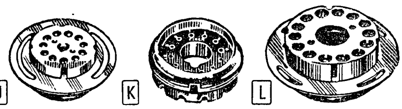


J K L

These sockets have special pin configurations.

F TYPE 2R2 CHASSIS-MOUNTING AC SOCKET

Socket has lug terminals. Rated 10 amps at 250 volts, or 15 amps at 125 volts. Mounting hole, $\frac{25}{64}$x$\frac{25}{32}$″. 1½x1½″ overall.
47 D 0830. 1-99.................................... Each .19
100-999..Each .095

G TYPE 2B2 CETRON TUBE SOCKET

Black bakelite socket accepts CE701 and CE702 Cetron tubes. Has special alloy spring-brass contacts.
47 D 0700. 1-99.................................... Each .72
100-999..Each .36

H TYPE 2TS-1 POWER TRANSISTOR SOCKET

Wax-impregnated XP bakelite socket has formed thread for 6-20 screw. .104/110″ diameter hole in CR plate.
47 D 0713. 1-99.................................... Each .09
100-999..Each .049

J 3M11 MAGNAL SOCKET

Mica-filled bakelite, 11-prong socket for cathode ray and television tubes. Accepts 5BP1, 2AP1, 1P21, and 3KP1 tubes. Less mounting ring (see table, below).

Stock No.	Mfr's Type	Description	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0714	3M11	Socket	4.50	3.60	3.00	2.40	2.28
47 D 0715	3R11	Steel mtg. ring	.30	.24	.20	.16	.152

K TYPE 3M12 DUODECAL CRT SOCKET

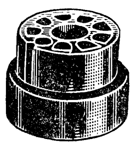
Mica-filled, phenolic socket has 12 prongs. Accepts 10BP4, 2BP1, 5TP4, etc.; RCA 6199. Meets JETEC B12-43 specs.
47 D 0717. 1-24.....Each 1.80 25-49 ....Each 1.44
50-99...............Each 1.20 100-249.............Each .96
250-499..Each .912

L DIHEPTAL CRT SOCKETS

Bakelite 14-prong socket. Accepts RCA 6217 and 5819 photo tubes. Meets JEDEC B12-37. Less mounting ring (see table, below).

Stock No.	Mfr's Type	Description	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0718	3B14	Black	1.58	1.26	1.05	.84	.798
47 D 0725	3M14	Mica-filled	1.65	1.31	1.10	.88	.836
47 D 0754	3R14	Steel mtg. ring	.98	.78	.70	.50	.....

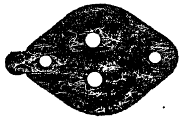
VIDICON SOCKETS



Type 7VT. 7-contact socket designed for RCA vidicon camera tubes 6198 and 7038. Mica base with silver-plated phosphor bronze contacts. Meets JETEC E8-11.
47 D 1349. 1-24...Ea. 3.15 25-49 .... Ea. 2.52
50-99. Ea. 2.10 100-249..Ea. 1.68 250-499 Ea. 1.60

Type 8VT. 8-contacts. For RCA vidicon camera tubes. Silver-plated phosphor bronze contacts. Meets JETEC E8-11 specs.
47 D 1358. 1-24 ......Ea. 3.15 25-49...............Ea. 2.52
50-99 ....Ea. 2.10 100-249..............Ea. 1.68
250-499..Ea. 1.60

POWER TRANSISTOR HEAT SINKS



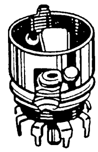
Anodized aluminum wafers to meet exacting applications. High thermal conductivity reduces operating temperature of transistor. High corrosion resistance. Type 2W-2 is not illustrated.

Stock No.	Mfr's Type	For	EACH 1-24	25-49	50-99	100-249	250-499
47 D 0338	2W-1	Mot. 2N179, 2N176, 2N554	.32	.252	.21	.168	.16
47 D 0339	2W-2	Delco 2N174	.32	.252	.21	.168	.16

Cinch-Jones, Eby, and Grayhill Sockets

CINCH-JONES SOCKETS

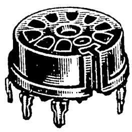
PRINTED CIRCUIT SOCKETS WITH SHIELD BASES



Printed circuit sockets have attached bayonet-type shield base with ground tab. For use with 1/16" printed circuit boards. Low-loss mica-filled phenolic castings with phosphor bronze contacts. Center shield and ground tab are hot-tinned brass for easy soldering. Nickel-plated brass base.

Stock No.	Mfr's Type	Pins	EACH 1-99	100-999
47 D 1342	7PC-M2	7	.95	.474
47 D 1343	9PC-M2	9	1.17	.585

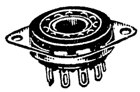
STAND-OFF TYPE SOCKETS FOR PRINTED CIRCUITS



Stand-off sockets rest on shoulder of the contact tail—provide air gap for cooling and eliminate possibility of a moisture trap. Designed for 1/16" printed circuit boards having bottom circuitry. All are constructed of general purpose black phenolic casting with hot tinned brass contacts. Type 7PC-B1 is for 7-pin miniature tubes, 9PC-B1 for 9-pin miniature tubes, and 8PC-B "one" for octals.

Stock No.	Mfr's Type	Pins	EACH 1-24	25-49	50-99	100-249	250-999
47 D 1344	7PC-B1	7	.06	.06	.06	.032	.032
47 D 1345	9PC-B1	9	.09	.09	.09	.043	.043
47 D 1347	8PC-B	8	.10	.078	.065	.052	.049

NOVAR TUBE SOCKETS

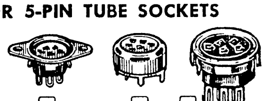


Meet or surpass EIA standards. Molded from high dielectric black bakelite or mica-filled low-loss bakelite. Have cadmium-plated brass contacts. Provide maximum fatigue strength and mating force with tube pins. Same dimensions as octal sockets—layouts and cutouts for octal sockets will accommodate novar sockets. 1½" mounting centers. Available for top or bottom mount.

Stock No.	Mfr's Type	Bakelite	Mount	EACH 1-99	100-999
47 D 1390	9NS-B	Black	Bottom	.09	.053
47 D 1392	9NS-M	Mica-filled	Bottom	.11	.065

SUBMINIATURE NUVISTOR 5-PIN TUBE SOCKETS

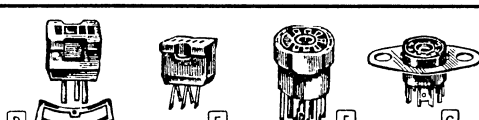
Constructed of type MFE, low-loss phenolic insulation; saddle of cold rolled steel, cadmium-plated. Contacts are copper alloy cadmium-plated for easy soldering.



A B C

Stock No.	Mfr's Type	Fig.	Mount	1-99, EA.	100-999, EA.
47 D 1396	5NS	C	Ring type	.14	.069
47 D 1336	5NS-1	A	Screw	.21	.107
47 D 1337	5NS-2	B	Printed circuit	.42	.21

SUBMINIATURE SOCKETS FOR TUBES AND TRANSISTORS

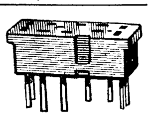


D E F G

Used extensively for hearing aids, pocket radios, and other equipment which requires subminiature tubes. Mica-filled, low-loss bakelite with silver-plated beryllium copper contacts. 2H5 can be used as a transistor socket. *8SMP socket with mtg. plate attached. 2H3, 2H5, 2H7 and 8SM sockets are with mtg. ring. †Extra ring for 8SM socket. 4-prong tubes use 2H5 socket.

Stock No.	Mfr's Type	Fig.	Pins	1-99, EA.	100-999, EA.
47 D 0294	2H3	D	3	.21	.104
47 D 0245	2H5	E	5	.22	.112
47 D 0247	2H7	E	7	.31	.155
47 D 0242	8SM	F	8	.42	.21
47 D 0246	8SMP*	G	8	.54	.27
47 D 0216	2MR†	......	.....	.02	.009

8-PIN RELAY SOCKET



Type 8RS. Rugged relay socket is molded of mica-filled phenolic; attaches to chassis with cold rolled, cadmium-plated steel mounting clip supplied with each socket. Contacts are silver-plated beryllium copper.
47 D 1350. 1-99..Each .45 100-999......Each .225

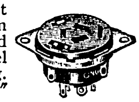
6, 8 and 10-ICS SOCKETS FOR INTEGRATED CIRCUITS

- Simplifies Installation of Integrated Circuit
- Mounts Easily on Printed Circuit Board

Socket designed specially for integrated circuits that mount in 6, 8 or 10-lead, TO-5 cases. Gives exceptionally convenient means for installation and removal of integrated circuit. Also permits easy in-circuit testing and maintenance. Ruggedly constructed of diallyl phthalate. For use with printed circuit boards.

Stock No.	Mfr's Type	No. of Contacts	EACH 1-24	25-49	50-99
47 D 0154	6-ICS	6	.51	.408	.34
47 D 0155	8-ICS	8	.59	.474	.395
47 D 0195	10-ICS	10	.65	.52	.44

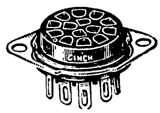
PLUG-IN SOCKETS FOR TWIST-PRONG ELECTROLYTICS



For Mallory FP type capacitors. Permit instant replacement when capacitor fails. Molded from black bakelite; recessed center contacts for extended prongs, flush outer contacts for short prongs. Steel mtg. saddle has 4 ground lugs. 2C5 has 1½" mtg. centers; .140"-.145" mtg. hole dia. 2C7 has 1 27/32" mtg. centers; .156" mtg. hole dia.

Stock No.	Mfr's Type	Description	EACH 1-99	100-999
47 D 0335	2C5	For 1" dia. FP capacitors	.44	.218
47 D 0336	2C7	For 1⅜" dia. FP capacitors	.68	.339

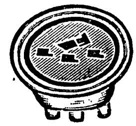
ASSORTED RELAY SOCKETS



Casting is of top-quality mica insulation. Sockets have beryllium copper, silver-plated contacts for high conductivity. Contact tails are hot tinned for easy soldering. All sockets listed in table below have steel saddles, cadmium-plated. 1¼" mounting centers. All are bottom mounted, except Types 14RS-2 and 20RS which are top-mounted. Type 14RS-1 is same as 14RS, but contacts 15 thru 20 are omitted.

Stock No.	Mfr's Type	No. of Contacts	EACH 1-99	100-999
47 D 1331	14RS	14	.74	.369
47 D 1339	14RS-1	14	1.32	.66
47 D 1301	14RS-2	14	.74	.369
47 D 1338	20RS	20	1.68	.84

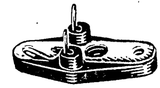
EBY NUVISTOR SOCKETS



Type NU-5 5-Pin Nuvistor Socket. Quality low-loss socket for use with RCA 5-pin nuvistor tubes. Constructed of mica-filled bakelite. Mounts in "O" hole.
47 D 0260..............................24

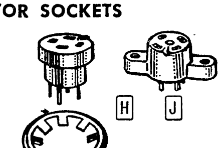
Type NU-7 7-Pin Nuvistor Socket. For use with RCA 7-pin nuvistor tubes. Made of general purpose bakelite. Saddle mounting; fits "O" hole.
47 D 0289...88

EBY 9866-15-1 TRANSISTOR SOCKET FOR TO-3 CASE



Socket for use with all power transistors with TO-3 cases. One-piece design, constructed of high-impact general purpose bakelite. Contacts are cadmium-plated brass. Special-design mounting plate and terminal assures complete electrical isolation of the base connection from the chassis.
47 D 0 262...25

GRAYHILL TRANSISTOR SOCKETS



H J K

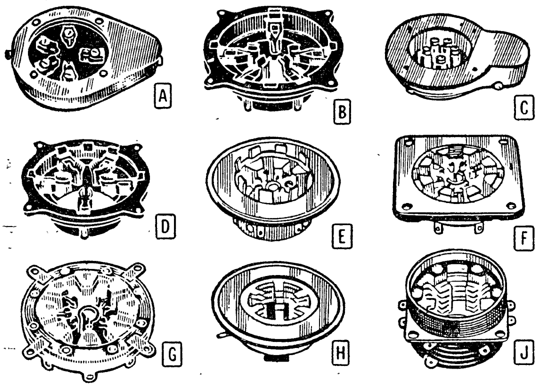
For TO-12 and TO-33 types. Leads fit on 100-mil grid for printed circuits. Terminal numbers molded on bottom of sockets; top faces have key ribs for alignment with transistor tab. Mica-filled phenolic per MIL-M-14. Type MFE. 22-11 (Fig. J) fits ⅜" hole. 22-16-4 (Fig. H) can be soldered in printed circuits or fastened in "D" hole. 1 oz.

Stock No.	Mfr's Type	Fig.	No. of Pins	Mtg.	Loss Factor @ 1 Mc.	EACH 1-49	50-99
47 D 5288	22-11	J	4	Screw	.06	.35	.263
47 D 5289	22-16-4	H	4	Ring	.06	.35	.263

K 47 D 5249. Mounting Ring for 22-16-4 Socket. For fastening 22-16-4 socket above, in punched "D" hole. Wt., 1 oz......Each .01

Sockets, Shields, Chimneys and Adapters

EIMAC TUBE SOCKETS, CHIMNEYS, CONNECTORS



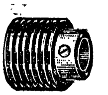
A B C D E F G H J

Tube Sockets. Air-system sockets for use with high-power tubes. Engineered to maintain a free-moving air-stream around all parts of the tube. Types SK600 and SK610 have built-in 2700 mmf, 400 volt screen grid by-pass capacitors. Types SK712A and SK711A have 1100 mmf, 400 volt by-pass capacitors; all other types are without by-pass capacitors. For correct chimney to use with each of these sockets, see chimney listing below.

Stock No.	Mfr's Type	Fig.	For Tube Types	EACH
47 D 2031	SK400	A	4-250A, 4-400A, 4-125A, 3-4002	17.50
47 D 2163	SK410	B	Same as SK400 plus 3-400Z	6.50
47 D 2034	SK500	C	4-1000A, 4PR1000A, 3-10002	24.30
47 D 2159	SK510	D	Same as SK500 plus 3-1000Z	6.50
47 D 2039	SK600	E	4CX250B/F, 4CX350A/F, 4X150A/D, 7580	11.50
47 D 2040	SK610	E	Same as SK600; cathode grnd contact.	11.50
47 D 2124	SK640	F	Same as SK600.	7.50
47 D 2127	SK650	G	Same as SK600; cathode grnd contact.	8.50
47 D 2012	SK712A	H	4CX125C, 4CX300A/Y	25.70
47 D 2013	SK711A	H	Same as SK712A but has one heater and a cathode ground contact.	25.70
47 D 2014	SK760	J	4CX300A/Y	10.70

Chimneys. For use with air-system tube sockets shown above. SK760 socket above has integral chimney.

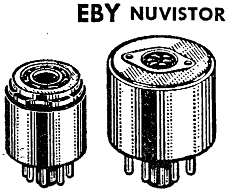
Stock No.	Mfr's Type	For Socket	EACH
47 D 2049	SK406	SK400, SK410	6.50
47 D 2054	SK506	SK500, SK510	12.00
47 D 2055	SK606	SK600, SK610, SK640, SK712A, SK711A, SK740	.75



Heat-Dissipating Connectors. Provide maximum heat dissipation. Permit longer tube life through cooler plate and grid seal operation. Machined from solid dural rod; with screws. Fit tube types listed below.

Stock No.	Mfr's Type	For Tube Types	EACH
47 D 2096	HR-6	2-150D, 2-240A, 4-65A, 4D21/4-125A, 5D22/4-250A, 4-400A, 100TH-TL plate, 250TH-TL plate, 250R plate, 304TH-TL grid	1.20
47 D 2064	HR-7	304TH-TL plate	1.65
47 D 2073	HR-8	2-450A, 2-2000A, 253, 3-1000Z, 4-1000A, 4PR60A, 6C21, 450TH-TL, 750TL, 866A, 872A, 1500T, 2000T, 8020 (100R) plate	1.65

EBY NUVISTOR AND NOVAR ADAPTERS

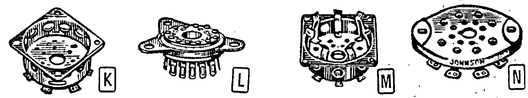


9330 9320

Type 9320 7-Pin Nuvistor Adapter. Permits testing of 7-pin nuvistor tubes with your present tube tester. Simply plug adapter into standard octal socket on tester. Shipped complete with instructions.
47 D 1359....................2.40

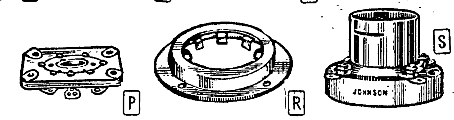
Type 9330 Novar Adapter. Adapts your present tube tester for accurately testing 6DW4 Novar tube. Adapter simply plugs into standard octal socket on tube tester; Novar tube then plugs into adapter. Supplied with testing instructions.
47 D 1399....................1.76

E. F. JOHNSON TUBE SOCKETS



K L M N

A Wide Variety of RF Uses



P R S

SPECIAL SOCKET TYPES Av. shpg. wts.: *½ lb.; †¾ lb.

Stock No.	Mfr's Type	Fig.	Pins	Description	EACH 1-9	10-49	50-99
47 D 6392	122-244-1*	P	4	Steatite. For "super jumbo" tubes.	1.75	1.60	1.47
47 D 6393	122-275-1†	P	5	Steatite. For giant 5-pin base tubes.	2.35	2.16	1.98
47 D 6394	122-101-100*	M	7	Steatite with base-shield and retainer springs.	2.85	2.62	2.40
47 D 6395	122-105-100†	K	7	Compact septar VHF socket. Steatite.	1.80	1.66	1.52
47 D 6420	124-311-100*	L	11	Silicone base. For 8072, 8121, 8462, other UHF tubes.	1.35	1.24	1.14

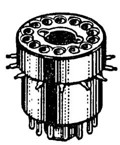
BAYONET SOCKETS Av. shpg. wts.: *½ lb.; †¾ lb.; §1 lb.

Stock No.	Mfr's Type	Fig.	Pins	Description	1-9	10-49	50-99
47 D 6398	123-209-1†	S	4	For "UX" base tubes. 4 mtg. holes $2\frac{5}{16}''$ centers.	1.75	1.61	1.47
47 D 6399	123-211-1§	S	4	Porcelain base. For "jumbo" tubes. $2\frac{13}{16}''$ mtg. centers.	2.30	2.11	1.96
47 D 6396	124-113-1*	R	1450 mmf screen bypass capacitor. 1000 v. DC. For 124 series sockets.		5.00	4.41	3.91

STEATITE WAFERS Cadmium-plated contacts. $1\frac{3}{4}''$ mtg. ctrs.

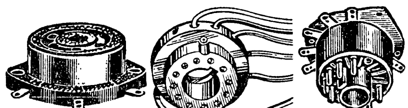
Stock No.	Mfr's Type	Fig.	Size	Prongs	EACH 1-9	10-49	50-99
47 D 6405	122-224-1	N		4	.76	.70	.64
47 D 6406	122-225-1	N	$2\frac{5}{16}$x$1\frac{11}{16}''$	5	.83	.76	.70
47 D 6409	122-228-1	N		Octal	1.05	.97	.89

EBY CA-1 TEST SOCKET ADAPTER FOR 21″ COLOR PICTURE TUBES



Test point adapter for 21″ color cathode ray picture tubes. Permits easy testing of a color CRT in its circuit, under actual operating conditions—no need to remove it or the chassis. Easy to use—adapter plugs into CRT's socket in TV set; CRT plugs into adapter. Test voltages are taken off test points protruding out from side of adapter.
47 D 1384. 1-9......Each 4.08 10-49................Each 3.75
50-99...............Each 3.46 100-499..............Each 3.13

SPECIAL MOUNTING AND PICTURE TUBE SOCKETS



12 49 1000

Type 12. 1-piece molded bakelite, for top-of-chassis or panel mounting. Mtg. centers, $1\frac{11}{16}''$.

Stock No.	Mfr's Type	Pins	EACH 1-9	10-49	50-99	100-499
47 D 0254	12-4	4	.57	.53	.49	.45
47 D 0258	12-8	Octal	.75	.70	.65	.60

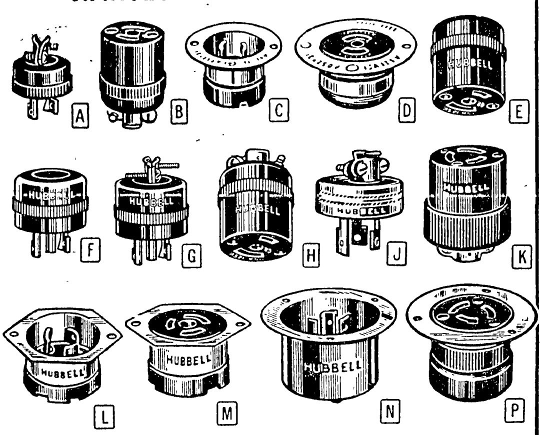
Type 49-13DD TV Picture Tube Socket. Molded bakelite, duodecal CRT socket. With 18″ leads.
47 D 0291. 1-9 Ea. .96 10-49 Ea. .91 50-99 Ea. .83 100-499 Ea. .78

Type 1000 CRT Test Socket Adapter. External lugs permit easy testing of picture tube pin voltages while set is operating.
47 D 0273. 1-9 Ea. 1.17 10-49 Ea. 1.07 50-99 Ea. .99 100-499 Ea. .87

Additional sockets for printed circuits, breadboarding, etc., are found on other pages in this section. Allied's vast stock of parts normally permits same day shipment at OEM prices.

Connectors, Tube Caps and Tube Holders

HARVEY HUBBELL CONNECTORS



Feature unique "Twist Lock" design for positive, lock-fast electrical connections. Units lock with a twist of the cap—simply plug in—twist—and they lock! Never disconnect accidentally regardless of the treatment they are subjected to. Insure a maximum of safety and a minimum of time-loss. Meet National Electrical Code Standard. U. L. Listed.

MIDGET-SIZE CONNECTORS

2-WIRE NONPOLARIZED TYPES

Type 7428 male cap and Type 7427 female connector are brown bakelite with metal cable clamps for 5/16 to 1/2″ O.D. cords. Type 7466 male base and Type 7468 female base are bakelite with metal housings. Rated 10 amps at 250 v.; 15 amps, 125 v.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-49	50-99	100-499
47 D 1282	7428	A	Male Cap	.46	.37	.33	.31
47 D 1283	7427	B	Female Conn.	.86	.68	.61	.58
47 D 1284	7466	C	Male Base	1.02	.81	.73	.69
47 D 1287	7468	D	Female Base	1.23	.98	.88	.83

3-WIRE POLARIZED TYPES

Similar to above connectors, but for use with 3-conductor cables. Insulation is black bakelite. Clamps will accommodate cords from 9/32″ to 27/64″ O.D. Polarization prevents incorrect connection. Rated 10 amps at 250 v., or 15 amps at 115 v.

Stock No.	Mfr's Type	Fig.	Description	1-9	10-49	50-99	100-499
47 D 1288	7485	A	Male Cap	1.11	.88	.79	.75
47 D 1289	7484	B	Female Conn.	1.60	1.28	1.15	1.09
47 D 1290	7486	C	Male Base	1.42	1.13	1.01	.96
47 D 1291	7487	D	Female Base	1.73	1.38	1.24	1.18

3-WIRE GROUNDING TYPES

Midget "Twist Lock" series designed specifically for 15 amp, 125 v. grounding applications. Hollow brass grounding sleeve in cap mates with brass split pin to provide safe, positive connection. All are 15/32″ dia. *With cord grips. U.L. Listed.

Stock No.	Mfr's Type	Fig.	Description	1-9	10-49	50-99	100-499
47 D 1280	7591	E	Female Conn.	1.86	1.48	1.33	1.26
47 D 1281	7592	F	Male Cap	1.36	1.08	.97	.93
47 D 1286	7593	H	Female Conn.*	1.95	1.56	1.40	1.33
47 D 1285	7594	G	Male Cap*	1.46	1.16	1.04	.99

STANDARD-SIZE CONNECTORS

3-WIRE POLARIZED TYPES

Type 7572 male cap, Type 7556 male base and Type 7557 female base have rust-resistant metal housings. Type 7555 female connector is bakelite. Clamps take cords from 19/64″ to 9/16″ O.D. All are rated 10 amps at 250 v.; 15 amps, 125 v. *Armored.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-49	50-99	100-499
47 D 1292	7572	J	Male Cap*	1.32	1.05	.94	.90
47 D 1293	7555	K	Female Conn.	2.08	1.66	1.49	1.42
47 D 1294	7556	L	Male Base	1.73	1.38	1.24	1.18
47 D 1295	7557	M	Female Base	1.91	1.52	1.37	1.30

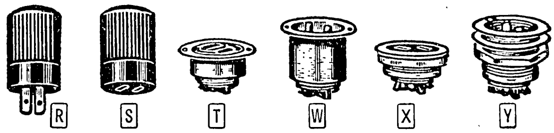
HEAVY-DUTY 3-WIRE POLARIZED TYPES

Type 7311 male cap, Type 7327 male base and Type 7328 female base have rust-resistant metal housings. Type 7313 female connector is bakelite. Clamps take cords from 7/16″ to 3/4″ O.D. Rated 20 amps at 250 v., or 10 amps at 575 v. *Armored.

47 D 1296	7311	J	Male Cap*	1.89	1.50	1.35	1.28
47 D 1297	7313	K	Female Conn.	2.91	2.32	2.09	1.98
47 D 1298	7327	N	Male Base	2.24	1.78	1.60	1.52
47 D 1299	7328	P	Female Base	3.44	2.75	2.47	2.35

ARROW-HART & HEGEMAN

MIDGET CONNECTORS

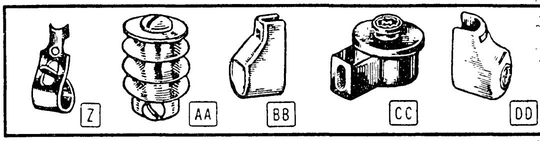


Bakelite 2-prong cord connectors and receptacles. Rated 10 amps, 250 volts. 1-inch hole required for all receptacles. 13/32″ contact spacing. *With plate for screws. †With plate and lock ring. Write for prices on larger quantities.

Stock No.	Type	Fig.	Description	1-99, EA.	100-999, EA.
47 D 2191	80324	R	Male cable connector.	.78	.69
47 D 2192	80325	S	Female cable connector.	.78	.69
47 D 2193	80326*	T	Female flush receptacle.	.80	.71
47 D 2194	80328*	W	Male flush receptacle.	.95	.85
47 D 2195	80327†	X	Female flush receptacle	1.22	1.10
47 D 2196	80329†	Y	Male flush receptacle.	1.27	1.15

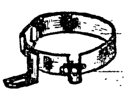
BUD, MILLEN, AND NATIONAL

TRANSMITTING STANDARD TUBE CAPS



Stock No.	Fig.	Description and Application	No. Per Pkg.	PER PKG.
47 D 3086	AA	Bud TC-487 heat diss. cap for UH50, HK24, 304B, 829B, 832A, 834. 1/16″ hole.	1	.81
47 D 3088	AA	Bud TC-1920 heat diss. cap for 100T, 807, 4-125A, 2-150D, 250TH, 4-250A, 6146, 1625, 4D32, 807W, 1B3GT, etc. 3/8″ hole.	1	.81
47 D 3089	AA	Bud TC-1921 heat diss. cap for 866, T125, HF100, 450TH, 750TH, 809, 811, 812, 813, 828, 866, etc. 37/64″ hole.	1	.96
47 D 2101	BB	National SPP-3 ceramic-insulated grid and plate cap. 23/64″ dia.	1	.24
47 D 2175	BB	National SPP-9 ceramic-insulated grid and plate cap. 9/16″.	1	.24
47 D 2515	Z	National GG-8-1. For octal tubes, 1/4″ diameter grid caps.	5	.40
47 D 2518	Z	National GG-12-2 grid, plate cap. 9/16″.	3	.24
47 D 2514	Z	National GG-24-2. For standard tubes, 3/8″ diameter grid caps.	5	.25
47 D 3244	DD	Millen Type 36002 steatite tube cap. 3/8″.	1	.24
47 D 3245	DD	Millen Type 36004 steatite tube cap. 1/4″.	1	.28
47 D 3243	CC	Millen 36011 industrial self-locking, snap-action plate cap. 9/16″.	1	.75
47 D 3246	DD	Millen 36001 steatite plate cap. 9/16″.	1	.24

MILLEN 33087 TUBE BASE CLAMPS

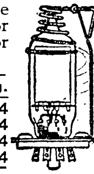


Sturdily constructed, polished spring-steel tube base clamps. Hold tubes firmly in sockets and protect them against damage from jarring and shock. Excellent for use in mobile equipment and for reducing vibration of oscillator tubes.

Stock No.	Mfr's Type	Dia.	Stock No.	Mfr's Type	Dia.
47 D 3247	33087A	1 1/8″	47 D 3251	33087E	1 3/8″
47 D 3249	33087C	1 1/4″			

Each 36

H. H. SMITH "MINI-SPRING" TUBE HOLD-DOWNS



Hold tubes securely in place. Use when tubes are mounted upside down or in a horizontal position. For 7 or 9-pin miniature tubes. Mount with nut and bolt, or may be installed with rivet. 10 per package.

Stock No.	Type	Ht.	For Tubes	Pkg.
47 D 1320	562	2 3/8″	6AQ5, 6X4, 35W4, 50B5, etc.	1.14
47 D 1321	561	1 7/8″	1R5, 6AT6, 6BE6, 6C4, etc.	1.14
47 D 1322	560	1 1/2″	6AJ5, 6AK5, 6AL5, 6N4, etc.	1.14
47 D 1323	563	1 7/8″	12AT7, 12AU7, etc.	1.14

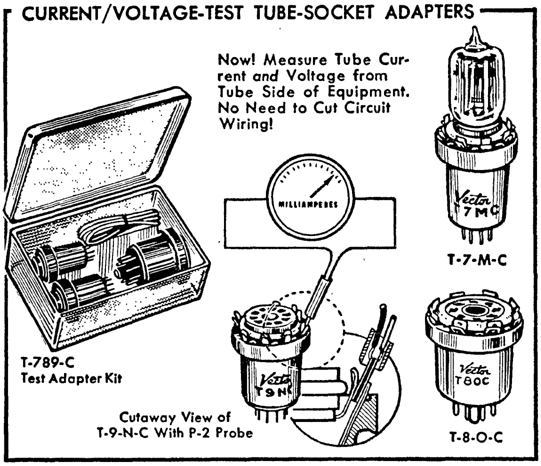
OEM PRICES

Allied has the world's largest stock of components for commercial, industrial, and military use—at current factory OEM prices.

Vector Test Adapters, Socket Turrets

VOLTAGE AND CURRENT TEST ADAPTERS

CURRENT/VOLTAGE-TEST TUBE-SOCKET ADAPTERS



Type T-7-M-C. Fits shield base for 7-pin miniature socket. Adapter completes circuit and provides test-tab elements. Lets you make voltage, current and waveform measurements from top-side of chassis. Tabs consist of a pair of spring contacts which are separated electrically when optional Dual Side P-2 Probe (see table below) is inserted. Probe "breaks" circuit, and provides current or voltage reading to your meter. Electrostatic capacity, approximately 1 mmf. Flash-over voltage, over 1500 VDC. Phenolic shell, socket and plug. Length, less prongs: 1.47". Shpg. wt., ¾ oz.

Type T-8-O-C. Fits standard 8-pin octal tube clamps. Same specifications as T-7-M-C above except length, less prongs is 1.5". 1½ oz.

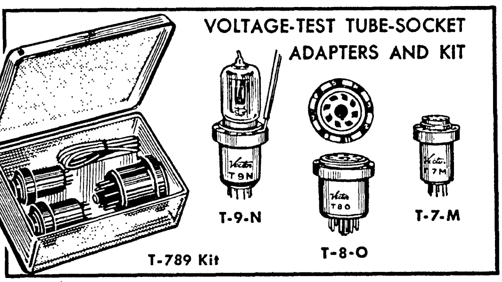
Type T-9-N-C. Fits into shield base for 9-pin miniature types. Same specifications as T-7-M-C above. Shpg. wt., ¾ oz.

Stock No.	Mfr's Type	Socket	Shell Body Dia.	Shell Skirt Dia.	EACH 1-19	20-99	100-199
47 D 6035	T-7-M-C	7-Pin Min.	.74"	1.03"	2.30	2.07	1.93
47 D 6037	T-8-O-C	8-Pin Oct.	1.26"	1.56"	2.90	2.61	2.44
47 D 6038	T-9-N-C	9-Pin Min.	.87"	1.16"	2.45	2.21	2.06
47 D 6040	P-2	Dual Side Plug-in Probe			.75	.68	.63

TYPE T-789-C COMPLETE 3-SOCKET ADAPTER KIT

Includes all 3 socket adapters, P-2 Probe, plastic case. 6 oz.
47 D 6039. 1-19..Ea. **8.85** 20-99..Ea. **7.97** 100-199...Ea. **7.43**

VOLTAGE-TEST TUBE-SOCKET ADAPTERS AND KIT



Type T-7-M. Similar to T-7-M-C above, but without current-measuring feature. Fits 7-pin miniature tube socket. Tabs on adapter designed to grip optional P-1 Probe, listed in table. Flash-over voltage, in excess of 1500 VDC. Length, less prongs, 1.5". ½ oz.

Type T-8-O. Fits standard 8-pin octal tube clamps. Same specifications as T-7-M listed above. Shpg. wt., ¾ oz.

Type T-9-N. Fits into shield base for 9-pin miniature types. Same specifications as T-7-M listed above. Shpg. wt., ½ oz.

Stock No.	Mfr's Type	Socket	Shell Body Dia.	Shell Skirt Dia.	EACH 1-19	20-99	100-199
47 D 0040	T-7-M	7-Pin Min.	.75"	1.03"	1.65	1.49	1.39
47 D 0041	T-8-O	8-Pin Oct.	1.25"	1.56"	1.75	1.58	1.47
47 D 0042	T-9-N	9-Pin Min.	.87"	1.16"	1.85	1.67	1.55
47 D 0044	P-1	Plug-in Probe			.52	.47	.44

TYPE T-789 COMPLETE 3-SOCKET KIT

Includes all 3 adapters and P-1 Probe in plastic case. 6 oz.
47 D 0210. 1-19..Ea. **5.90** 20-99..Ea. **5.31** 100-199...Ea. **4.96**

SOCKET TURRETS, TERMINAL TURRETS PLUG-IN SOCKETS AND CANS

SOCKET TURRETS

Dependable terminal structures for limited space applications. Simplify construction of electronic equipment. Components mount on phenolic form. Turrets are ½" dia. Octal units fit 1" hole; 7-pin miniatures, ⅝" hole; 9-pin min., ¾" hole. Av. 3 oz.

2½" Turrets. Have 9 terminals in two rings, spaced 1⅜" apart.

Stock No.	Mfr's Type	Socket	EACH 1-49	50-199	200-499	500-999
47 D 0211	10-0-9T	Octal	.69	.62	.48	.46

2" Turrets. 9 terminals in two rings, spaced 1" apart.

Stock No.	Mfr's Type	Socket	EACH 1-49	50-199	200-499	500-999
47 D 0212	8-O-9T	Octal	.65	.59	.46	.44
47 D 0217	8-M-9T	7-Pin Min.	.69	.62	.48	.46
47 D 0233	8-N-9T	9-Pin Min.	.69	.62	.48	.46

1½" Turrets. Have 6 terminals in one ring only.

Stock No.	Mfr's Type	Socket	EACH 1-49	50-199	200-499	500-999
47 D 0213	6-O-6T	Octal	.59	.53	.41	.40
47 D 0218	6-M-6T	7-Pin Min.	.63	.57	.44	.42
47 D 0234	6-N-6T	9-Pin Min.	.63	.57	.44	.42

Shield Base. For miniature sockets above. Fastens above chassis on socket mtg. centers. Use with standard bayonet shield.

Stock No.	Mfr's Type	For Use With	EACH 1-499	500-999	1000-4999
47 D 0236	S9	P-pin sockets	.05	.04	.03

9-PIN MINIATURE PLUG-IN SOCKETS

Consist of standard tube socket, tubular terminal post, octal plug and shield can. Can sizes: B10N, 1.37" square, 2.5" long; C10N, 2" square, 2.5" long. Aluminum covers may be quickly and easily detached by removing the screws at base. Av. shpg. wt., 5 oz.

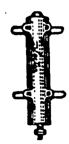
Stock No.	Type	1-49, EA.	50-199, EA.	200-499, EA.	500-999, EA.
47 D 0238	B10N	2.24	2.02	1.57	1.50
47 D 0239	C10N	2.24	2.02	1.57	1.50

ROUND PLUG-IN CANS

Designed primarily for packaging hand-wired, printed or miniature transistorized modules. Cans are supplied complete with case and plugs; also include a vertical terminal wall secured to base. Easily removable aluminum cases provide excellent shielding. Side screws at the bottom of the can screw into threaded bushings inserted in the plug; hold components securely. Both types are 2" long. 5 oz.

Stock No.	Mfr's Type	Socket	Dia.	EACH 1-49	50-199	200-499	500-999
47 D 0934	G2.1-8-4	9-Pin Min.	¾"	1.90	1.71	1.33	1.27
47 D 0935	G2.2-8-4	7-Pin Min.	⅝"	1.88	1.69	1.32	1.26

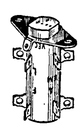
TERMINAL TURRETS



Simplify the designing and construction of electronic equipment and conserve valuable chassis space. Have 2 rings with 12 terminals, plus top and bottom ground lugs on a ½" diameter phenolic form. Provide mounts for 6 or more resistors and capacitors. Turrets bolt securely to chassis through a 0.150" diameter mounting hole by means of a 6-32 screw which extends from end to end through entire length of turrets. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Length	Space Between Rings	EACH 1-49	50-199	200-499	500-999
47 D 0941	6-12	1½"	⅝"	.50	.45	.35	.34
47 D 0937	8-12	2"	1"	.53	.48	.37	.36
47 D 0943	10-12	2½"	1⅜"	.56	.50	.39	.38

TRANSISTOR SOCKET TURRETS



Provide convenient single transistor mounting with a place for associated circuit components, all on one compact form. Have combination transistor socket mounted in end of ½" diameter phenolic post with two rings of 12 terminals. Mounting requires a .361" hole for socket and two ⅛" holes spaced ¾" apart for 4-40 threaded saddle holes.

47 D 0944	5-A-12T	1¼"	⅝"	1.05	.95	.74	.70
47 D 0947	6-A-12T	1½"	⅞"	1.06	.95	.74	.71

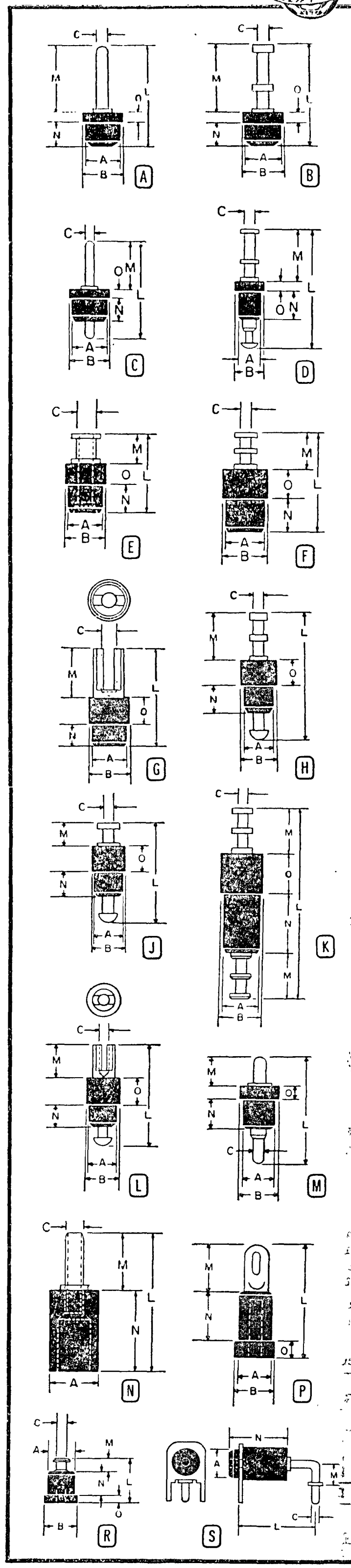
BUY AT OEM PRICES

Allied Electronics stocks commercial, industrial and military types of socket turrets and adapters in depth. Buy from a dependable, centrally located source at OEM prices. Prompt shipment guaranteed.

Depend on Allied for the Latest in Industrial Electronic Equipment

H. H. Smith Teflon® Terminals

Body of virgin teflon. Meets MIL-P-19468. Meets Spec QQ-626. Terminals are precision machined of brass. Very easy to install—no restrictions as to chassis material or thickness. All standard plating finishes available. Allied can furnish the complete line of teflon terminals, and terminals can be supplied in reverse on request. *After Fig. indicates reverse positioning of insulator. †Indicates double standoff.



SUBMINIATURE STANDOFFS

Stock No.	Mfr's Type	Fig.	DIMENSIONS A	B	C	L	M	N	O	PER PKG. OF 100 1-4	5-9	10-49
47 D 3800	92-1000	A	.148	.172	.040	.350	.210	.100	.040	5.95	5.50	4.66
47 D 3801	92-1001	A	.148	.172	.040	.370	.210	.110	.050	6.37	5.62	5.00
47 D 3802	92-1006	A	.148	.172	.040	.345	.210	.075	.060	7.65	6.75	6.00
47 D 3803	90-1007	A	.148	.172	.040	.370	.210	.120	.040	6.80	6.00	5.33
47 D 3804	92-1011	A	.148	.172	.040	.594	.450	.100	.040	9.35	9.00	7.33
47 D 3828	92-1034	A	.093	.125	.040	.350	.210	.100	.040	8.50	7.50	6.66
47 D 3829	92-1500	B	.148	.172	.040	.350	.210	.100	.040	9.35	8.25	7.33
47 D 3830	92-1501	B	.148	.172	.040	.375	.210	.125	.040	8.50	7.50	6.66
47 D 3831	92-1504	B	.148	.172	.046	.334	.154	.140	.040	9.35	8.25	7.33
47 D 3832	92-1506	B	.148	.172	.040	.455	.250	.165	.040	9.35	8.25	7.33
47 D 3833	92-1512	B	.148	.172	.040	.540	.250	.250	.040	9.35	8.25	7.33
47 D 3834	92-1528	B	.093	.125	.040	.350	.210	.100	.040	9.35	8.25	7.33
47 D 3794	19-1003	A*	.104	.125	.040	.250	.130	.089	.031	9.35	8.25	7.33
47 D 3795	29-1000	A*	.148	.172	.040	.350	.210	.100	.040	6.80	6.00	5.33
47 D 3796	29-1034	A*	.093	.125	.040	.350	.210	.100	.040	10.20	9.00	8.00
47 D 3797	19-1500	B*	.093	.125	.040	.350	.210	.100	.040	9.35	8.25	7.33
47 D 3798	29-1500	B*	.148	.172	.040	.350	.210	.100	.040	6.80	6.00	5.33
47 D 3799	29-1503	B*	.185	.218	.040	.375	.210	.125	.040	9.35	8.25	7.33
47 D 3883	29-1513	B*	.171	.188	.040	.405	.210	.155	.040	9.35	8.25	7.33

SUBMINIATURE FEED THRU

Stock No.	Mfr's Type	Fig.	A	B	C	L	M	N	O	1-4	5-9	10-49
47 D 3835	82-1000	C	.148	.172	.040	.443	.210	.100	.040	6.80	6.00	5.33
47 D 3836	82-1003	C	.148	.172	.040	.515	.210	.100	.040	6.37	5.62	5.00
47 D 3837	82-1015	C	.172	.195	.040	.515	.210	.100	.040	9.35	8.25	7.33
47 D 3838	82-1022	C	.093	.125	.040	.515	.210	.100	.040	8.50	7.50	6.66
47 D 3845	82-1023	C	.093	.125	.040	.515	.147	.075	.040	8.50	7.50	6.66
47 D 3846	82-1500	D	.148	.172	.040	.500	.210	.100	.040	6.37	5.62	5.00
47 D 3847	82-1516	D	.093	.125	.040	.500	.210	.100	.040	8.50	7.50	6.66
47 D 3848	82-1504	D	.148	.172	.040	.531	.210	.100	.040	9.35	8.25	7.33
47 D 3849	82-1049	E	.125	.150	.060	.273	.133	.080	.060	11.00	9.75	8.66
47 D 3850	82-1016	E	.148	.172	.082	.351	.133	.125	.093	9.35	8.25	7.33
47 D 3851	82-1017	E	.148	.172	.085	.367	.207	.110	.050	9.35	8.25	7.33
47 D 3764	28-1003	C*	.148	.172	.040	.515	.210	.100	.040	6.80	6.00	5.33
47 D 3765	28-1500	D*	.148	.172	.040	.500	.210	.100	.040	9.35	8.25	7.33

MINIATURE STANDOFFS

Stock No.	Mfr's Type	Fig.	A	B	C	L	M	N	O	1-4	5-9	10-49
47 D 3852	93-1500	F	.165	.187	.046	.431	.156	.150	.125	10.20	9.00	8.00
47 D 3853	93-1503	F	.165	.187	.046	.556	.281	.150	.125	10.20	9.00	8.00
47 D 3854	93-1507	F	.165	.187	.046	.831	.281	.150	.400	12.75	11.25	10.00
47 D 3855	93-1518	F	.148	.172	.040	.482	.250	.110	.125	10.20	9.00	8.00
47 D 3856	93-1531	F	.171	.187	.046	.681	.281	.150	.250	11.90	10.50	9.33
47 D 3857	93-2000	G	.171	.187	.148	.478	.203	.150	.125	10.20	9.00	8.00
47 D 3858	93-2001	G	.171	.187	.148	.540	.203	.150	.187	11.00	9.75	8.66
47 D 3859	93-2002	G	.171	.187	.148	.603	.203	.150	.250	11.90	10.50	9.33
47 D 3861	93-2018	G	.171	.187	.148	.602	.203	.212	.187	11.90	10.50	9.33
47 D 3777	93-1501	F	.165	.187	.046	.493	.156	.150	.187	11.00	9.75	8.66
47 D 3782	93-2004	G	.217	.250	.148	.890	.203	.187	.500	18.70	16.50	14.66
47 D 3783	93-2005	G	.217	.250	.148	1.190	.203	.187	.800	25.50	22.50	20.00
47 D 3787	93-3500	H†	.171	.187	.040	.819	.210	.212	.187	14.45	12.75	11.35
47 D 3788	93-3501	H†	.218	.250	.046	1.187	.281	.375	.250	23.80	21.00	18.66
47 D 3789	93-3502	H†	.218	.250	.046	.1687	.281	.625	.500	29.75	26.25	23.33

MINIATURE FEED THRU

Stock No.	Mfr's Type	Fig.	A	B	C	L	M	N	O	1-4	5-9	10-49
47 D 3863	83-1500	H	.264	.312	.040	.531	.210	.100	.040	11.90	10.50	9.33
47 D 3864	83-1511	H	.171	.187	.040	.836	.250	.212	.187	12.75	11.25	10.00
47 D 3865	83-1504	J	.171	.187	.050	.740	.125	.212	.187	11.90	10.50	9.33
47 D 3866	83-1525	K	.218	.250	.062	1.187	.281	.375	.250	17.00	15.00	13.33
47 D 3867	83-2000	L	.171	.187	.148	.821	.203	.212	.187	13.60	12.00	10.66
47 D 3791	83-1502	J	.171	.187	.046	.540	.133	.171	.063	9.35	8.25	7.33
47 D 3792	83-2002	L	.171	.187	.148	.947	.203	.275	.250	16.15	14.25	12.66
47 D 3793	83-2004	L	.171	.187	.148	1.197	.203	.400	.375	22.10	19.50	17.32

PROBES AND PLUGS

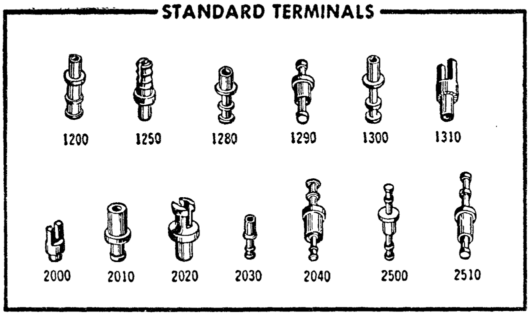
Stock No.	Mfr's Type	Fig.	A	B	C	L	M	N	O	1-4	5-9	10-49
47 D 3868	73-1000	M	.185	.218	.030	1.531	.250	.287	.046	12.75	11.25	10.00
47 D 3869	73-1002	M	.185	.218	.030	2.083	.250	.287	.046	12.75	11.25	10.00
47 D 3870	73-1016	M	.185	.218	.050	.562	.250	.141	.046	10.20	9.00	8.00
47 D 3871	73-3001	N	.218	—	.080	.645	.270	.375	—	10.20	9.00	8.00

TEST JACKS

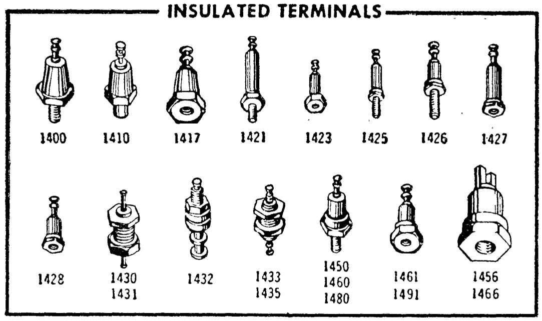
Stock No.	Mfr's Type	Fig.	A	B	C	L	M	N	O	1-4	5-9	10-49
47 D 3872	63-1000	P	.185	.218	.105	.687	.354	.287	.046	10.20	9.00	8.00
47 D 3873	63-1003	R	.185	.218	.054	.437	.120	.271	.046	15.30	13.50	12.00
47 D 3874	63-1004	R	.185	.218	.054	.437	.120	.271	.046	15.30	13.50	12.00
47 D 3875	63-1005	R	.185	.218	.054	.640	.187	.400	.050	15.30	13.50	12.00
47 D 3876	63-1006	R	.204	.250	.054	.437	.120	.271	.046	17.00	15.00	13.33
47 D 3877	63-1010	R	.148	.172	.040	.345	.120	.179	.046	15.30	13.50	12.00
47 D 3878	63-1057	R	.185	.218	.054	.467	.120	.301	.046	17.85	15.75	14.00
47 D 3879	63-1072	R	120	.142	.040	.410	.120	.244	.046	15.30	13.50	12.00
47 D 3880	63-3002	S	.187	.218	.050	.500	.140	.387	—	29.75	26.25	23.33
47 D 3881	63-3003	S	.187	.218	.050	.400	.140	.378	—	29.75	26.25	23.33
47 D 3882	63-3005	S	.187	.218	.035	.400	.140	.378	—	30.60	27.00	24.00

USECO Terminals and Swaging Tools

STANDARD TERMINALS



INSULATED TERMINALS



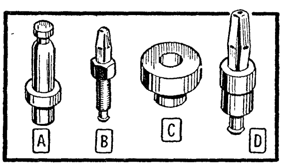
A large selection of standard terminals in miniature and subminiature sizes. Offer a wide choice of terminal configurations—includes hollow lug, bifurcated, turret and feed-through types. Satisfy requirements of all types of electronic assemblies. Simplify design and construction. All terminals are constructed of selected brass stock, in accordance with the requirements of MIL specification QQ-B-626, composition 22, ½ hard. All units are silver-plated according to the requirements of MIL specification QQ-S-365 Type III. In addition, terminals are treated with tarnish-resistant coatings of dichromate, water-dip lacquer and waxes. For further protection, terminals are packaged in vapor-resistant cellothene plastic to ensure user receives units in perfect condition. Av. shpg. wt. per pkg., 2 oz.

Stock No.	Mfr's Type	Shank Dia.	Shank Lgth.	PER PKG. OF 100 1-9	10-24	25-74	75-149
47 D 3604	1200B	.114″	.105″	1.54	1.31	1.19	1.05
47 D 3611	1200C	.114″	.135″	1.54	1.31	1.19	1.05
47 D 3613	1250B	.114″	.105″	2.84	2.40	2.19	1.93
47 D 3614	1250C	114″	.135″	2.84	2.40	2.19	1.93
47 D 3617	1280A	.091″	.075″	1.10	1.00	.936	.828
47 D 3618	1280B	.091″	.105″	1.10	1.00	.936	.828
47 D 3619	1280C	.091″	.135″	1.10	1.00	.936	.828
47 D 3620	1280D	.091″	.165″	1.10	1.00	.936	.828
47 D 3621	1290B	.114″	.105″	1.65	1.46	1.36	1.20
47 D 3623	1300B	.114″	.105″	1.69	1.52	1.42	1.25
47 D 3624	1300C	.114″	.135″	1.69	1.52	1.42	1.25
47 D 3625	1300D	.114″	.165″	1.69	1.52	1.42	1.25
47 D 3626	1310B	.114″	.105″	2.17	1.91	1.77	1.57
47 D 3627	1310C	.114″	.135″	2.17	1.91	1.77	1.57
47 D 3628	1310D	.114″	.165″	2.17	1.91	1.77	1.57
47 D 3636	2000B	.063″	.084″	1.91	1.61	1.47	1.29
47 D 3637	2000C	.063″	.115″	1.91	1.61	1.47	1.29
47 D 3639	2010B	.063″	.084″	1.64	1.38	1.26	1.11
47 D 3640	2010C	.063″	.115″	1.64	1.38	1.26	1.11
47 D 3642	2020B	.063″	.084″	2.17	1.86	1.66	1.47
47 D 3643	2030B	.062″	.084″	1.83	1.58	1.40	1.24
47 D 3645	2040B	.126″	.105″	2.17	1.96	1.82	1.61
47 D 3647	2040D	.126″	165″	2.17	1.96	1.82	1.61
47 D 3648	2500C	.091″	.115″	2.05	1.70	1.57	1.38
47 D 3649	2500D	.091″	.147″	2.05	1.70	1.57	1.38
47 D 3681	2510B	.073″	.084″	1.98	1.68	1.56	1.38
47 D 3682	2510D	.073″	.147″	1.98	1.68	1.56	1.38

All are stand-off types, except Types 1430 through 1433 and 1435, which are feed-through types. Include standard, miniature and subminiature types, with turret and bifurcated terminal connections. Base connections are of stud, female, and swage types. Breakdown voltages from 1500 to 10,000 volts, AC. Made of brass, with .000015″ gold plate over .0003″ silver plate. Bases of cadmium-plated brass. Brass used meets MIL specification QQ-B-626, composition 22, ½ hard. "S" in table below is thread, or shank diameter; "X" is shank length, except * overall length. "Ins." indicates dielectric material: P, Phenolic (MIL-P-14020 CL 2); A, Alkyd (MIL-M-14E Ty. Mag.); T, Teflon (AMS-3651 B); H, Hi-Alumina (JAN I-10, L-5A); D, Diallyl Phthalate (MIL-M-19833, GD1 30).

Stock No.	Mfr's Type	S	X	Ins.	PER PKG. OF 25 1-3	4-10	11-19	20-39
47 D 3473	1400B	6-32	.250″	P	5.25	4.50	4.00	3.63
47 D 3474	1410D	.188″	.156″	P	5.25	4.50	4.00	3.63
47 D 3475	1417	6-32	....	A	5.75	4.88	4.38	3.88
47 D 3476	1418B	6-32	.250″	A	5.75	4.88	4.38	3.88
47 D 3477	1421	6-32	.250″	A	7.00	6.00	5.38	4.75
47 D 3478	1423	6-32	....	A	7.00	6.00	5.38	4.75
47 D 3479	1425	2-56	.218″	A	7.00	6.00	5.38	4.75
47 D 3480	1426B	.256″	.218″	A	6.50	5.50	5.00	4.50
47 D 3481	1427	2-56	....	A	7.00	6.00	5.38	4.75
47 D 3482	1428	.256″	....	A	6.50	5.50	5.00	4.50
47 D 3483	1430	10-32	.687″*	D	10.25	8.75	8.00	7.00
47 D 3484	1431	10-32	....	T	12.25	10.25	9.38	8.25
47 D 3485	1432	5-40	.796″*	T	9.63	8.13	7.38	6.50
47 D 3486	1433	¼-28	.875″*	D	12.25	10.25	9.38	8.25
47 D 3487	1435	⅜-32	1.31″*	D	15.00	12.75	11.63	10.25
47 D 3488	1450B	6-32	.250″	T	7.00	6.00	5.38	4.75
47 D 3489	1450H	4-40	.375″	T	7.00	6.00	5.38	4.75
47 D 3490	1451	6-32	....	T	7.00	6.00	5.38	4.75
47 D 3491	1456	6-32	....	T	7.25	6.13	5.50	4.88
47 D 3492	1456A	4-40	....	T	7.25	6.13	5.50	4.88
47 D 3493	1460B	6-32	.250″	H	7.00	6.00	5.38	4.75
47 D 3494	1460H	4-40	.375″	H	7.00	6.00	5.38	4.75
47 D 3495	1461	6-32	....	H	7.00	6.00	5.38	4.75
47 D 3496	1466	6-32	....	H	7.25	6.13	5.50	4.88
47 D 3497	1480B	.256″	.218″	H	7.88	6.63	6.00	5.38
47 D 3498	1480D	4-40	.218″	H	7.88	6.63	6.00	5.38
47 D 3499	1491A	2-56	....	T	7.88	6.63	6.00	5.38

CONNECTORS



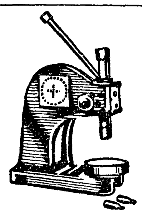
Series 1700 Plugs and Sockets. Mating connectors with silver-plated contacts for positive electrical connections. Base constructed of brass in accordance with MIL specification QQ-B-626, composition 22, ½ hard. Springs made of beryllium-copper, per QQ-C-533 specs. Finish, silver-plate .0003″ per QQ-S-365. Types 1700 and 1710 (Figs. A and C) are sockets. Types 1705 and 1715 are banana plugs (Figs. D and B). "T" in column heading of table below, indicates shank thread size or diameter. "X" indicates shank length. Av. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	T	X	PER PKG. of 25 1-3	4-10	11-19	20-39
47 D 3740	1700D	A	.135″	.165″	4.63	3.87	3.50	2.62
47 D 3741	1705C	D	.157″	.135″	7.50	6.37	5.75	5.00
47 D 3742	1710C	C	.135″	.135″	2.50	2.12	1.87	1:62
47 D 3743	1715	B	2-56	.270″	8.50	7.25	6.50	5.75

FAST DELIVERY—OEM PRICES

Allied makes immediate shipment on USECO terminals at factory OEM prices—write, wire, or phone the Allied facility nearest you—you'll get fast service.

SWAGING MACHINE



Model A. Hand-operated swaging machine of rugged rack and pinion construction. Precision machined to ensure smooth and rapid work. Designed for simplicity and ease in operation—means little or no man-hours devoted to training. With a 4-to-1 pressure ratio, 3¼″ stroke, and 3½″ throat depth, the Model A is ideally suited to light assembly. For use with swaging tools described below. Shpg. wt., 20 lbs.

47 D 3584 K........................**72.00**

SWAGING AND "LOC-FIT" INSTALLATION TOOLS

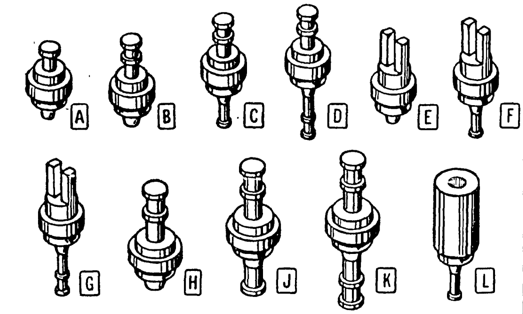
Accurately machined from chromium steel alloy, flame-hardened, and highly polished. All tools are ½″ dia. and mount in the Model A swaging machine above. Tool numbers (Mfr's Type) are the same as the numbers of the corresponding terminals (tool 1200 fits terminal 1200B, for example).

Stock No.	Mfr's Type	For Use With Terminal Type	Stock No.	Mfr's Type	For Use With Terminal Type
47 D 3585	1200	1200B, C	47 D 3591	2010	2010B, C, D
47 D 3586	1250	1250B, C	47 D 3592	2020	2020B
47 D 3587	1280	1280A, B, C, D	47 D 3593	2030	2030B, C
47 D 3588	1300	1300B, C, D	47 D 3594	2040	2040B, C, D
47 D 3589	1310	1310B, C, D	47 D 3595	2500	2500C, D
47 D 3590	2000	2000B, C	47 D 3596	2510	2510B, C

EACH..**8.00**

Terminals, Boards, Special Hardware and Handles

USECO LOC-FIT TERMINALS

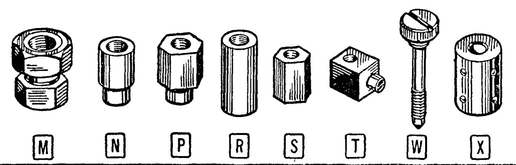


SERIES 4400 TEFLON TERMINALS

Offer convenient chassis mounting—simply push teflon grommet (supplied) into mtg. hole and snap-fit terminal into grommet. Nominal chassis thickness 1/16″. Types 4441, 4442, 4444, 4445, 4448 and 4449 are feed-thru types. Types 4435, 4447, 4448 and 4449 are taper pin receptacles. 4450 is insulated test point. 4435 is insulated terminal. Mtg. hole: Fig. A-G, 9/64″; H-K, 3/16″; L, 1/8″. Av., 3¼ lbs.

Stock No.	Mfr's Type	Fig.	Lgth.	PER PKG. OF 25 1-3	4-19	20-39	40-79
47 D 3065	4435B	A	.372″	2.37	2.00	1.75	1.50
47 D 3066	4440B	B	.455″	2.62	2.25	2.00	1.75
47 D 3067	4441B	C	.580″	3.12	2.62	2.37	2.12
47 D 3068	4442B	D	.693″	3.12	2.62	2.37	2.12
47 D 3069	4443B	E	.455″	3.00	2.50	2.25	2.00
47 D 3070	4444B	F	.580″	3.25	2.75	2.50	2.25
47 D 3071	4445B	G	.693″	3.25	2.75	2.50	2.25
47 D 3072	4447B	H	.543″	3.62	3.12	2.75	2.37
47 D 3073	4448B	J	.709″	4.62	3.87	3.50	2.62
47 D 3074	4449B	K	.830″	4.25	3.62	3.25	2.87
47 D 3075	4450B	L	.688″	7.00	6.00	5.37	4.75

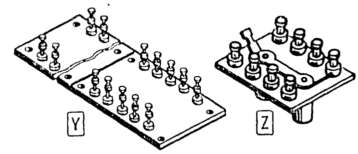
USECO INSTRUMENT PANEL HARDWARE



Shaft lock is illustrated in Figure M; swage-type standoffs in Figures N and P; threaded standoffs in Figures R and S; chassis fastener in Figure T; captive panel screw in Figure W; shaft coupling in Figure X. In the heading of the table below, "T" indicates either the type of thread or the recommended board thickness. "X" in the table head indicates the hardware shank length, except *maximum shaft diameter, and †overall length. Standoff types illustrated by Figure N have ¼″ standoff, except Type 1530B which has a 3/8″ standoff. All are brass with cadmium plating, except Type 1510, Series 3200 and Series 3316 which are brass with nickel plating. Av. shpg. wt., 1¼ lbs.

Stock No.	Mfr's Type	Fig.	T	X	PER PKG. OF 10 1-5	6-9	10-49	50-99
47 D 3013	1510	M	3/8-32	.250″*	1.80	1.50	1.40	1.20
47 D 3014	1530C	N	.094″	.135″	.70	.60	.55	.50
47 D 3018	1530D	N	.125″	.165″	.70	.60	.55	.50
47 D 3023	1531B	P	.062″	.105″	.70	.60	.55	.50
47 D 3026	1530B	N	.062″	.105″	.70	.60	.55	.50
47 D 3035	1550B	R	4-40	.375″†	1.30	1.10	1.00	.90
47 D 3036	1550C	R	6-32	.250″†	1.30	1.10	1.00	.90
47 D 3039	1550D	R	6-32	.375″†	1.30	1.10	1.00	.90
47 D 3040	1550F	R	6-32	.625″†	1.30	1.10	1.00	.90
47 D 3041	1550G	R	6-32	.750″†	1.30	1.10	1.00	.90
47 D 3042	1551C	S	6-32	.250″†	1.30	1.10	1.00	.90
47 D 3060	1551E	S	6-32	.500″†	1.30	1.10	1.00	.90
47 D 3045	1551G	S	6-32	.750″†	1.30	1.10	1.00	.90
47 D 3058	1551J	S	8-32	.500″†	1.50	1.30	1.20	1.00
47 D 3047	1590B	T	.062″	.105″	2.60	2.20	2.00	1.80
47 D 3048	1590C	T	.094″	.135″	2.60	2.20	2.00	1.80
47 D 3049	3200-6	W	6-32	.800″†	1.80	1.50	1.40	1.20
47 D 3050	3200-8	W	8-32	.880″†	1.80	1.50	1.40	1.20
47 D 3051	3200-10	W	10-32	.880″†	1.80	1.50	1.40	1.20
47 D 3052	3316A	X	.250″*	.750″†	4.60	4.20	4.00	3.60
47 D 3057	3316B	X	.125″*	.750″†	4.60	4.20	4.00	3.60

USECO TERMINAL BOARDS

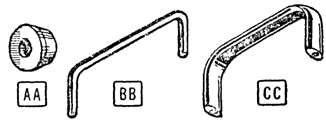


Choose from a variety of sizes and materials. For military applications or wherever highest quality construction and wiring standards are observed. All boards with 50 terminals are scored .02″ deep after every group of ten terminals so that five identical sections may be snapped off—each section has four mtg. holes. Boards with 8 terminals have grounding strap in center and mount on ¼″ brass standoffs with 3-48 tapped hole. Types 1180, 1181, and 1182 are designed to mount ½, 1, and 2-watt resistors, respectively, and are .062″ thick. Series 1100 is .094″ thick with .116″ mounting holes. Series 2200 is .062″ thick with .062″ mtg. holes.

Distance between rows of terminals: Type 1100B, C, and D—1½, 2, and 2½″, respectively; Types 2200B and C—½ and ¾″, respectively; Types 1180, 1181, and 1182—½, ¾, and 7/8″, respectively. Series 1100 and 2200 are made of phenolic; Types 1180, 1181, and 1182 are glass melamine. All terminals are brass. Av., 4 oz.

Stock No.	Mfr's Type	Fig.	No. of Term.	Size	EACH 1-5	6-24	25-49	50-149
47 D 2910	1100B	Y	50	2x13.12″	2.66	2.26	2.04	1.80
47 D 2911	1100C	Y	50	2½x13.12″	2.76	2.34	2.12	1.87
47 D 2912	1100D	Y	50	3x13.12″	2.86	2.42	2.20	1.95
47 D 2916	2200B	Y	50	.75x7.81″	2.62	2.22	2.02	1.78
47 D 2917	2200C	Y	50	1x7.81″	2.97	2.51	2.28	2.02
47 D 2920	1180	Z	8	.719x.88″	.78	.66	.60	.53
47 D 2921	1181	Z	8	1.03x1.22″	.78	.66	.60	.53
47 D 2922	1182	Z	8	1.16x1.5″	.86	.72	.66	.58

USECO NICKEL-PLATED BRASS HANDLES



Sturdy handles designed by USECO for instrument panels, rack panels, portable equipment, etc. Each handle is made of brass, and is heavily nickel-plated. Rugged construction makes them stand up to even the most frequent and hard usage. Types 1005-12, 1010-12, 1012-12, 1013-12, 1015-12, 1017-12, and 1034-12 are oval handles that have 10-32 threaded mounting holes. Type 900-12 is a nickel-plated, brass mounting ferrule that fits Types 1005-12, 1010-12, 1012-12, 1013-12, 1015-12, and 1017-12 handles. Av. shpg. wt., 6 oz.

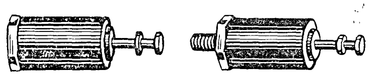
Stock No.	Mfr's Type	Fig.	Mtg. Ctrs.	Hand Clearance	EACH 1-10	11-25	26-75	76-199
47 D 3728	1005-12	BB	6.44″	1¾″	1.03	.86	.78	.70
47 D 3729	1010-12	BB	4.25″	1½″	.94	.79	.72	.64
47 D 3730	1012-12	BB	4.56″	1½″	.94	.79	.72	.64
47 D 3731	1013-12	BB	4.50″	1½″	.96	.80	.73	.65
47 D 3732	1015-12	BB	3″	1½″	.92	.77	.70	.63
47 D 3733	1017-12	BB	2″	1½″	.97	.82	.75	.66
47 D 3734	1033-12	CC	3″	1 9/32″	1.79	1.50	1.37	1.22
47 D 3735	1034-12	CC	4.56″	1½″	2.02	1.69	1.54	1.37

Stock No.	Mfr's Type	Fig.	Description	PER PKG. OF TWO 1-10	11-25	26-75	76-199
47 D 3739	900-12	AA	1.50″ Brass Ferrule	.30	.26	.24	.20

MORE HANDLES

See page 427 for a complete selection of handles by BUD. Sturdily made—built for a diversity of rugged applications.

GRAYHILL INSULATED STANDOFF TERMINALS



Type 18-1 Type 18-2

Terminals are molded from natural, mica-filled phenolic that will not support fungus growth. Feature exceptionally low loss at higher frequencies, extremely low moisture absorption, and very high dielectric strength. Terminals are made of brass, and are silver-plated. Type 18-1 has a 4-40 threaded hole in the base for mounting. Type 18-2 has a 7/32″ mounting stud with a 4-40 thread. Both types have bodies that are .59″ long x .31″ diameter. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Mounting	EACH 1-499	500-999
47 D 5290	18-1	Female	.35	.28
47 D 5291	18-2	Male	.40	.32

H. H. Smith Spacers, Posts—Raytheon Hardware

H. H. SMITH BRASS SPACERS

ROUND

Round spacers designed for use in raising sub panels, chassis, condensers, transformers, etc. Constructed of durable cadmium-plated brass. Precision machined, lengths and outer diameters accurately controlled to ±1/32″ tolerance. Tapped bushings for threads indicated in table below. **Packed 10 spacers per package.** Av. shpg. wt. 6 oz.

ROUND—NON-THREADED 1/4″ O. D.

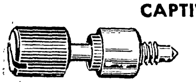
Stock No.	Mfr's Type	Screw Size	Length	PER PKG. OF 10 1-49	50-99	100-249
47 D 4628	8700	4	1/8″	.25	.226	.208
47 D 4629	8703	4	3/16″	.28	.252	.232
47 D 4718	2340	4	1/4″	.33	.297	.274
47 D 4630	8706	4	5/16″	.37	.332	.306
47 D 4719	2341	4	3/8″	.44	.392	.361
47 D 4631	8709	4	7/16″	.47	.422	.388
47 D 4720	2342	4	1/2″	.53	.475	.438
47 D 4721	2343	4	3/4″	.63	.567	.523
47 D 4723	2344	4	1″	.72	.648	.598
47 D 4632	8701	6	1/8″	.25	.226	.208
47 D 4633	8704	6	3/16″	.28	.252	.232
47 D 4724	2100	6	1/4″	.33	.297	.274
47 D 4634	8707	6	5/16″	.37	.332	.306
47 D 4725	2101	6	3/8″	.44	.392	.361
47 D 4635	8710	6	7/16″	.47	.422	.388
47 D 4726	2102	6	1/2″	.53	.475	.438
47 D 4728	2103	6	3/4″	.63	.567	.523
47 D 4729	2104	6	1″	.72	.648	.598
47 D 4636	8702	8	1/8″	.25	.226	.208
47 D 4637	8705	8	3/16″	.28	.252	.232
47 D 4730	2105	8	1/4″	.33	.297	.274
47 D 4638	8708	8	5/16″	.37	.332	.306
47 D 4731	2106	8	3/8″	.44	.392	.361
47 D 4639	8711	8	7/16″	.47	.422	.388
47 D 4732	2107	8	1/2″	.53	.475	.438
47 D 4733	2108	8	3/4″	.63	.567	.523
47 D 4734	2109	8	1″	.72	.648	.598

ROUND—THREADED 1/4″ O. D.

Stock No.	Mfr's Type	Tap	Length	PER PKG. OF 10 1-49	50-99	100-249
47 D 4640	8760	4-40	1/8″	.28	.252	.232
47 D 4641	8763	4-40	3/16″	.33	.297	.274
47 D 4755	2370	4-40	1/4″	.39	.351	.324
47 D 4642	8766	4-40	5/16″	.43	.388	.356
47 D 4756	2371	4-40	3/8″	.50	.445	.411
47 D 4643	8769	4-40	7/16″	.55	.496	.456
47 D 4758	2372	4-40	1/2″	.60	.54	.498
47 D 4644	8772	4-40	9/16″	.65	.585	.536
47 D 4645	8775	4-40	5/8″	.70	.632	.58
47 D 4759	2373	4-40	3/4″	.84	.76	.695
47 D 4760	2374	4-40	1″	1.04	.935	.86
47 D 4646	8761	6-32	1/8″	.28	.252	.232
47 D 4647	8764	6-32	3/16″	.33	.297	.274
47 D 4761	2120	6-32	1/4″	.39	.351	.324
47 D 4648	8767	6-32	5/16″	.43	.388	.356
47 D 4765	2121	6-32	3/8″	.50	.455	.411
47 D 4649	8770	6-32	7/16″	.55	.496	.456
47 D 4766	2122	6-32	1/2″	.60	.54	.498
47 D 4650	8773	6-32	9/16″	.65	.585	.536
47 D 4767	2123	6-32	3/4″	.84	.76	.695
47 D 4768	2124	6-32	1″	1.04	.935	.86
47 D 4651	8762	8-32	1/8″	.28	.252	.232
47 D 4652	8765	8-32	3/16″	.33	.297	.274
47 D 4770	2125	8-32	1/4″	.39	.351	.324
47 D 4653	8768	8-32	5/16″	.43	.388	.356
47 D 4771	2126	8-32	3/8″	.50	.455	.411
47 D 4654	8771	8-32	7/16″	.55	.496	.456
47 D 4772	2127	8-32	1/2″	.60	.54	.498
47 D 4655	8774	8-32	9/16″	.65	.585	.536
47 D 4773	2128	8-32	3/4″	.84	.76	.695
47 D 4774	2129	8-32	1″	1.04	.935	.86

RAYTHEON HARDWARE

CAPTIVE SCREW AND INSERT



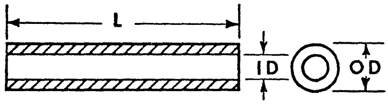
Meet MIL-E-16400 Specs.

Made of corrosion-free, non-tarnishing stainless steel. Meets MIL-E-16400 (Ships) specs. The CS-122 slotted head thumbscrew requires a PIN-122 panel insert bushing to secure captive screw to a panel. Fit panels from .119″ to .156″ thick. Fits hole .272″ countersunk .359 to .406″. Length of captive screw is 1″, less head. Straight-knurled head is 7/16″ long. Diameter of the panel insert bushing is 3/8″. Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Thread Size	EACH 1-499	500-999	1000-2499
47 D 5358	CS-122	10-32	.55	.468	.44
47 D 5361	PIN-122	10-32	.25	.213	.20

H. H. SMITH SPACERS, POSTS

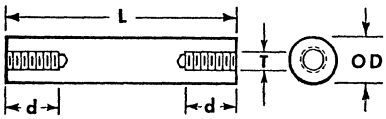
ALUMINUM SPACERS



1/4″ O.D. tubular spacers with precision machined ends and accurately controlled lengths. Support components or structural members in electronic assemblies, mechanisms. Aluminum, with iridite protective finish (meet MIL-C-5541 specifications). Length, ±.005″ tolerance. I. D. (inside diameter) for #4 screws is .113″, for #6 screws is .140″, for #8 screws is .169″. **Packed 10 to a package.** Average shpg. wt., 6 oz.

Stock No.	Mfr's Type	Screw Size	Length Inches	PER PKG. OF 10 1-49	50-99	100-249
47 D 4676	8481	#4	.250	1.05	.945	.865
47 D 4677	8483	#4	.500	1.20	1.08	.99
47 D 4678	8501	#6	.250	1.05	.945	.865
47 D 4679	8503	#6	.500	1.20	1.08	.99
47 D 4680	8505	#6	.750	1.42	1.28	1.18
47 D 4681	8507	#6	1.000	1.50	1.35	1.24

ALUMINUM POSTS



Round metallic rods tapped through, or tapped at each end. Support and separate components or structural members without the need for long screws or machine nuts. Aluminum with iridite finish. Length and outside dial meter dimensions within ±.005″ tolerance. *Indicates minimum fulthread depth. **Packed 10 posts to a package.** Av. shpg. wt., 6 oz.

.250″ O.D.

Stock No.	Mfr's Type	T	Length Inches	*d	PER PKG. OF 10 1-49	50-99	100-249
47 D 4686	8323	4-40	.500	Thru	1.30	1.17	1.08
47 D 4687	8327	4-40	1.000	.250	1.80	1.62	1.49
47 D 4688	8329	4-40	1.500	.250	2.00	1.80	1.65
47 D 4689	8343	6-32	.500	Thru	1.30	1.17	1.08
47 D 4690	8345	6-32	.750	Thru	1.55	1.40	1.28
47 D 4691	8347	6-32	1.000	.375	1.80	1.62	1.49
47 D 4692	8349	6-32	1.500	.375	2.00	1.80	1.65
47 D 4693	8351	6-32	2.000	.375	2.20	1.99	1.82
47 D 4695	8352	6-32	2.500	.375	2.40	2.16	1.98
47 D 4697	8353	6-32	3.000	.375	2.55	2.30	2.11
47 D 4698	8355	6-32	4.000	.375	3.20	2.88	2.65

H. H. SMITH FIBER SPACERS

Round fiber bushings for screw sizes indicated in table. Meet MIL-F-1148A, Grade CH specifications. Ideal for use in raising sub panels, chassis, condensers, transformers, etc. in electronic assemblies. Have 1/4″ outside diameter. **Packed 10 spacers to a package.** Av. wt. 2 oz.

Stock No.	Mfr's Type	Screw Size	Length	PER PKG. OF 10 1-49	50-99	100-249
47 D 4656	8880	4	1/8″	.30	.272	.248
47 D 4657	8883	4	3/16″	.34	.306	.282
47 D 4700	2335	4	1/4″	.39	.351	.324
47 D 4658	8886	4	5/16″	.40	.263	.332
47 D 4701	2336	4	3/8″	.49	.444	.41
47 D 4659	8889	4	7/16″	.50	.445	.411
47 D 4702	2337	4	1/2″	.60	.54	.498
47 D 4703	2338	4	3/4″	.72	.648	.598
47 D 4705	2339	4	1″	.83	.747	.688
47 D 4660	8881	6	1/8″	.30	.272	.248
47 D 4661	8884	6	3/16″	.34	.306	.282
47 D 4706	2130	6	1/4″	.39	.351	.324
47 D 4662	8887	6	5/16″	.40	.362	.332
47 D 4707	2131	6	3/8″	.49	.444	.41
47 D 4663	8890	6	7/16″	.50	.445	.411
47 D 4708	2132	6	1/2″	.60	.54	.498
47 D 4664	8893	6	9/16″	.62	.56	.513
47 D 4665	8896	6	5/8″	.65	.585	.536
47 D 4709	2133	6	3/4″	.72	.648	.598
47 D 4710	2134	6	1″	.83	.747	.688
47 D 4666	8882	8	1/8″	.30	.272	.248
47 D 4667	8885	8	3/16″	.34	.306	.282
47 D 4711	2140	8	1/4″	.39	.351	.324
47 D 4668	8888	8	5/16″	.40	.362	.332
47 D 4713	2141	8	3/8″	.49	.444	.41
47 D 4669	8891	8	7/16″	.50	.445	.411
47 D 4714	2142	8	1/2″	.60	.54	.498
47 D 4715	2143	8	3/4″	.72	.648	.598
47 D 4716	2144	8	1″	.83	.747	.688

Solderless Terminals and Crimping Tools

NON-INSULATED TERMINALS / INSULATED TERMINALS

Wire Size	Stud Size	Lth.	Fig.	Stock No.	Mfr's Type	1-9	10-49	50-99	100-Up	Stock No.	Mfr's Type	1-9	10-49	50-99	100-Up
						PER PKG. OF 100						PER PKG. OF 100			
22-18	4	19/32″	A	47 D 4200	11204	2.46	1.48	1.12	1.08	47 D 4214	51204	4.50	2.70	2.19	1.97
22-18	5-6	17/32″	A	47 D 2800	11205	2.46	1.48	1.12	1.08	47 D 2828	51205	4.50	2.70	2.19	1.97
22-18	5-6	3/4″	A	47 D 2801	11206	2.46	1.48	1.12	1.08	47 D 2829	51206	4.50	2.70	2.19	1.97
22-18	8	43/64″	A	47 D 4201	11208	2.46	1.48	1.12	1.08	47 D 4215	51208	4.50	2.70	2.19	1.97
22-18	8-10	3/4″	A	47 D 2802	11210	2.46	1.48	1.12	1.08	47 D 2830	51210	4.50	2.70	2.19	1.97
16-14	5-6	17/32″	A	47 D 2803	11305	2.46	1.48	1.12	1.08	47 D 2831	51305	4.50	2.70	2.19	1.97
16-14	5-6	23/32″	A	47 D 2804	11306	2.46	1.48	1.12	1.08	47 D 2832	51306	4.50	2.70	2.19	1.97
16-14	8	23/32″	A	47 D 4204	11308	2.46	1.48	1.12	1.08	47 D 4217	51308	4.50	2.70	2.19	1.97
16-14	10	23/32″	A	47 D 2805	11310	2.46	1.48	1.12	1.08	47 D 2833	51310	4.50	2.70	2.19	1.97
12-10	10	3/4″	A	47 D 2807	11410	3.07	1.84	1.49	1.34	....	....	...	...	...	...
12-10	12-1/4	29/32″	A	47 D 2808	11414	4.08	2.45	1.99	1.79	....	....	...	...	...	...
8	10	17/64″	A	47 D 2806	31510	13.96	8.38	6.79	6.11	....	....	...	...	...	...
8	1/4	17/64″	A	47 D 2814	31514	13.96	8.38	6.79	6.11	....	....	...	...	...	...
8	3/8	17/64″	A	47 D 2815	31538	13.96	8.38	6.79	6.11	....	....	...	...	...	...
8	5/16	17/64″	A	47 D 2824	31556	13.96	8.38	6.79	6.11	....	....	...	...	...	...
6	10	12/16″	A	47 D 2825	31610	16.92	10.15	8.22	7.40	....	....	...	...	...	...
6	1/4	12/16″	A	47 D 2826	31614	16.92	10.15	8.22	7.40	....	....	...	...	...	...
6	3/8	12/16″	A	47 D 2834	31638	16.92	10.15	8.22	7.40	....	....	...	...	...	...
6	5/16	12/16″	A	47 D 2835	31656	16.92	10.15	8.22	7.40	....	....	...	...	...	...
22-18	4	17/32″	B	47 D 4205	13204	2.20	1.32	1.07	.96	47 D 4218	53204	4.50	2.70	2.19	1.97
22:18	5-6	17/32″	B	47 D 2812	13206	2.20	1.32	1.07	.96	47 D 2840	53206	4.50	2.70	2.19	1.97
22-18	8	41/64″	B	47 D 4206	13208	2.46	1.48	1.20	1.08	47 D 4219	53208	4.50	2.70	2.19	1.97
22-18	10	11/16″	B	47 D 4207	13210	2.46	1.48	1.20	1.08	47 D 4220	53210	4.50	2.70	2.19	1.97
16-14	4-6	49/64″	B	47 D 2810	13306	2.46	1.48	1.20	1.08	47 D 2838	53306	4.50	2.70	2.19	1.97
16-14	8	21/32″	B	47 D 4208	13308	2.46	1.48	1.20	1.08	47 D 4221	53308	4.50	2.70	2.19	1.97
16-14	10	49/64″	B	47 D 2811	13310	2.46	1.48	1.20	1.08	47 D 2839	53310	4.50	2.70	2.19	1.97
22-18	4-6	9/16″	B	47 D 2809	14206	2.20	1.32	1.07	.96	47 D 2837	54206	4.50	2.70	2.19	1.97
22-18	8	5/8″	C	47 D 2819	15208	2.46	1.48	1.20	1.08	47 D 2846	55208	4.50	2.70	2.19	1.97
16-14	4-6	19/32″	D	47 D 4209	15306	2.46	1.48	1.20	1.08	47 D 4222	55306	4.50	2.70	2.19	1.97
16-14	8	21/32″	C	47 D 4210	15308	2.46	1.48	1.20	1.08	47 D 4223	55308	4.50	2.70	2.19	1.97
16-14	10	45/64″	C	47 D 4211	15310	2.46	1.48	1.20	1.08	47 D 4224	55310	4.50	2.70	2.19	1.97
22-18	.....	9/16″	E	47 D 2816	17202**	2.46	1.48	1.20	1.08	47 D 2841	57202	4.50	2.70	2.19	1.97
16-14	.....	9/16″	E	47 D 2817	17302**	2.46	1.48	1.20	1.08	47 D 2842	57302	4.50	2.70	2.19	1.97
12-10	.....	11/16″	E	47 D 2818	17402**	3.07	1.84	1.49	1.34	47 D 2843	57402	5.00	3.00	2.43	2.19
16-14	.....	5/8″	F	47 D 2813	19301††	1.91	1.14	.92	.83	....	....	...	...	...	...
22-18	.....	17/32″	G	47 D 4213	18204§	2.46	1.48	1.20	1.08	....	....	...	...	...	...
16-14	.....	23/32″	H	47 D 2820	18301†	2.46	1.48	1.20	1.08	47 D 2847	58301	4.50	2.70	2.19	1.97
16-14	.....	23/32″	J	47 D 2821	18302§	2.46	1.48	1.20	1.08	47 D 4225	58302	5.00	3.16	2.56	2.30
16-14	.....	9/16″	K	47 D 2822	18303‡	2.46	1.48	1.20	1.08	....	....	...	...	...	...
16-14	.....	15/32″	L	47 D 2823	18304#	2.46	1.48	1.20	1.08	....	....	...	...	...	...

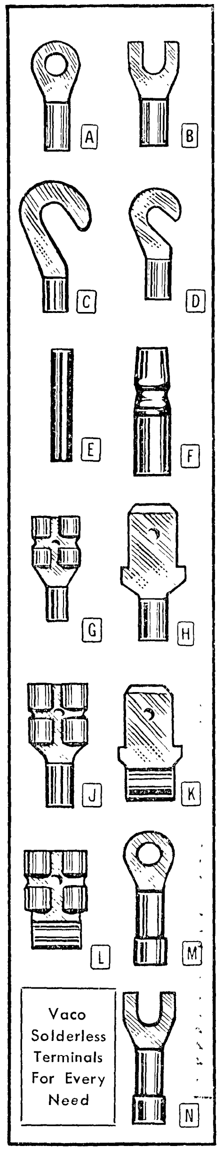
DOUBLE GRIP TYPES

Wire Size	Stud Size	Lth.	Fig.	Stock No.	Mfr's Type	1-9	10-49	50-99	100-Up	Stock No.	Mfr's Type	1-9	10-49	50-99	100-Up
						PER PKG. OF 100						PER PKG. OF 100			
22-18	4	47/64″	M	47 D 4226	41204	5.42	3.25	2.63	2.37	47 D 4243	91204	7.88	4.73	3.83	3.45
22-18	5-6	47/64″	M	47 D 4227	41205	5.42	3.25	2.63	2.37	47 D 4244	91205	7.88	4.73	3.83	3.45
22-18	8	13/16″	M	47 D 4229	41208	5.42	3.25	2.63	2.37	47 D 4246	91208	7.88	4.73	3.83	3.45
22-18	10	13/16″	M	47 D 4230	41210	5.42	3.25	2.63	2.37	47 D 4247	91210	7.88	4.73	3.83	3.45
16-14	4	23/32″	M	47 D 4231	41304	5.42	3.25	2.63	2.37	47 D 4248	91304	7.88	4.73	3.83	3.45
16-14	5-6	23/32″	M	47 D 4232	41305	5.42	3.25	2.63	2.37	47 D 4249	91305	7.88	4.73	3.83	3.45
16-14	8	55/64″	M	47 D 4234	41308	5.42	3.25	2.63	2.37	44 D 4251	91308	7.88	4.73	3.83	3.45
16-14	10	55/64″	M	47 D 4235	41310	5.42	3.25	2.63	2.37	47 D 4252	91310	7.88	4.73	3.83	3.45
22-18	4	23/32″	N	47 D 4236	43204	5.42	3.25	2.63	2.37	47 D 4253	93204	7.88	4.73	3.83	3.45
22-18	8	51/64″	N	47 D 4238	43208	5.42	3.25	2.63	2.37	47 D 4255	93208	7.88	4.73	3.83	3.45
22-18	10	27/32″	N	47 D 4239	43210	5.42	3.25	2.63	2.37	47 D 4256	93210	7.88	4.73	3.83	3.45
16-14	8	51/64″	N	47 D 4241	43308	5.42	3.25	2.63	2.37	47 D 4258	93308	7.88	4.73	3.83	3.45
16-14	10	27/32″	N	47 D 4242	43310	5.42	3.25	2.63	2.37	47 D 4259	93310	7.88	4.73	3.83	3.45

VACO

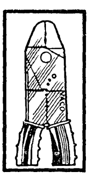
Form excellent electrical connections. Constructed of copper alloy for maximum conductivity.

Explanation of symbols in table: †1¼″ male tab. §Female tab socket. ‡¼″ angle male tab. #Angle female tab socket. **Butt connector. ††Snap term.

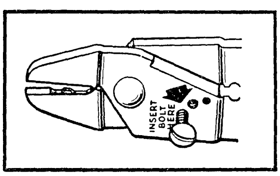


See the following page for more Vaco crimping tools and accessories. Allied maintains complete stocks of Vaco equipment and can supply any component in larger quantities. Contact Allied's facility nearest you for prompt price and delivery quotations.

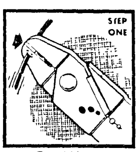
ALL-PURPOSE CRIMPING TOOL



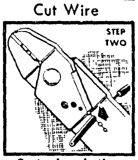
1963 Tool



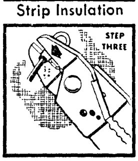
Advanced Bolt Slicing Feature



Cut Wire



Strip Insulation



Crimp Terminal

Model 1963. Everything you need for fast, dependable electrical connections without soldering! Handy all-purpose tool has crimping dies for both insulated and non-insulated terminals; cuts and strips wire, and shears bolts. Wire cutter located at tip of tool for close work. Wire stripping notches are provided for Nos. 10, 12, 14, 16, 18, 20-22 wire. Shears bolts: 10-32, 6-32, 5-40, 10-24, 8-32, 4-40. New improved-action bolt slicing principle requires less hand pressure to do the job. Just screw bolt in threaded hole and squeeze --slices clean, no burrs to file. Steel tool has comfort-grip plastic handles. Shpg. wt., 1 lb.

47 D 4237....... .... 4.95

$1.00 ECONOMY PACKAGES

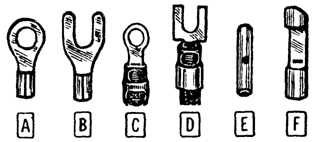
Non-Insulated Stock No.	Type	Qty.	Insulated Stock No.	Type	Qty.
47 D 4476	11205	36	47 D 4269	51205	18
47 D 4481	11206	36	47 D 4270	51206	18
47 D 4482	11210	36	47 D 4272	51210	18
47 D 4477	11305	36	47 D 4274	51305	18
47 D 4485	11306	36	47 D 4275	51306	18
47 D 4486	11310	36	47 D 4277	51310	18
47 D 4489	11410	28	....	.....	...
47 D 4490	11414	21	....	.....	...
47 D 4265	13206	40	47 D 4279	53206	18
47 D 4266	13208	36	47 D 4280	53208	18
47 D 4492	13306	36	47 D 4282	53306	18
47 D 4493	13310	36	47 D 4304	53310	18
47 D 4498	14206	40	47 D 4305	54206	18
47 D 4499	15208	36	47 D 4306	55208	18
47 D 4287	17202	36	47 D 4310	57202	18
47 D 4288	17302	36	47 D 4311	57302	18
47 D 4289	17402	28	47 D 4312	57402	15
47 D 4290	19301	46	....	.....	...
47 D 4294	18204	36	....	.....	...
47 D 4295	18301	36	47 D 4313	58301	18
47 D 4297	18302	36	47 D 4314	58302	15
47 D 4301	18303	36	....	.....	...
47 D 4302	18304	36	....	.....	...

PER PKG.......................... 1.00

Terminals, Tools, Kits, Breadboard Accessories

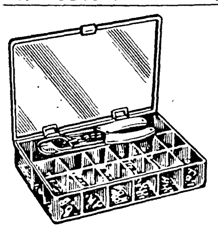
A-MP TERMINALS AND TOOLS

SOLDERLESS TERMINALS



General Wiring Terminals. Ideal for use where power for soldering iron is not available or where fast reliable connections are desired. *Indicates insulated terminals—plastic outer sleeves. Use with wire size 14 to 16, except †16 to 22. Require crimping tools listed below—Type 47100-1 for insulated terminals and Type 49835-1 for non-insulated terminals. Excellent for radio-TV and electrical repairs, electronic assemblies, etc. U.L. Approved. **Packed 100 per package.** Av. shpg. wt. per pkg., 8 oz.

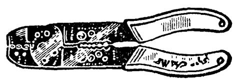
Stock No.	Mfr's No.	Fig.	Type	Stud Size	PER PKG.
47 D 5301	34149*†	C	Ring	8-10	6.24
47 D 5302	34142*†	C	Ring	4-6	6.24
47 D 5303	34070*†	......	Splice	....	7.50
47 D 5304	34158*	C	Ring	4-6	6.24
47 D 5305	34161*	C	Ring	8-10	6.24
47 D 5306	34165*	D	Spade	4-6	6.24
47 D 5307	34167*	D	Spade	8-10	6.24
47 D 5308	34071*	......	Splice	....	7.50
47 D 5323	34154*†	D	Spade	5-6	6.24
47 D 5310	33214†	A	Ring	8-10	4.46
47 D 5311	34194†	A	Ring	4-6	3.91
47 D 5312	31818†	E	Splice	....	4.66
47 D 5313	34197	A	Ring	4-6	4.46
47 D 5314	33217	A	Ring	8-10	3.91
47 D 5315	33477	B	Spade	4-6	4.99
47 D 5316	33219	B	Spade	8-10	4.99
47 D 5317	31762†	F	Knife	....	10.11
47 D 5318	31763	F	Knife	....	10.11



29033 SOLDERLESS TERMINAL KIT

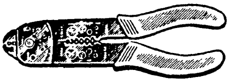
Kit contains assortment of most popular types of insulated solderless terminals for general wiring applications plus the heavy-duty "Super Champ" crimping and wiring tool described below. With compact, transparent plastic case with compartments. Ideal for servicemen, automobile repairmen, hobbyists, etc. For wire sizes from 10 to 22. Case, 9¾x6½x2". Shpg. wt., 2 lbs.
47 D 5322....................19.95

"SUPER-CHAMP" CRIMPING TOOLS



47100-1

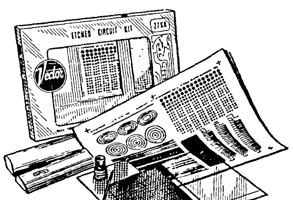
Type 47100-1. Crimps insulated solderless terminals; shears machine screws, measures stud sizes, cuts and strips wire. Constructed of tool steel. Has insulated plastic handles with a comfortable "feel." 1 lb.
47 D 5321..................4.95



49835-1

Type 49835-1. For crimping non-insulated terminals. Otherwise same as above tool—shears machine screws, measures stud sizes, cuts and strips wire. 1 lb.
47 D 4453..................4.95

VECTOR ETCHED CIRCUIT KIT

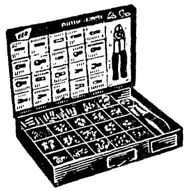


Type 27XA. Unique printed circuit kit built around "Vectoresist," a rub-on transfer resist sheet with lines, dots and connector pattern. Replaces conventional tapes and liquid resists. Kit consists of: 2 pieces 4½x6½" 1-side copper clad XXXP phenolic (1 punched with .062" holes on .2" centers); 10x15" Vectoresist sheet; 2 bags dry etchant and activator in heavy plastic etching bag; layout paper; plus easy-to-follow, step-by-step instructions. 1¼ lbs.

47 D 5602. 1-49.........Each 5.95 50-199...........Each 5.36
200-499.................Each 4.17 500-999..........Each 3.99

Type R322 Vectoresist Sheet. Replacement 10x15" rub-on transfer resist sheet with assorted line width, dots, circles and 44 contact .156" spaced connector pattern. Replace tapes, liquid resists.
47 D 5603...Each 2.00

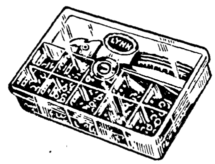
VACO TERMINAL KITS



Model 4900-63. A selection of most-often-requested universally required terminals for every need. Popular assortment contains 500 insulated single-grip solderless terminals, plus a rugged combination crimper-cutter tool for correct installation. Package includes: 20 different types and sizes of terminals; Vaco Model 1963 high-grade steel service tool that cuts and strips wire 22 to 10 gauge and crimps insulated solderless terminals (two crimping dies, marked stripping notches); steel storage case with individual compartments for terminals and tool. Handy reference card in the cover of the box contains all pertinent information about the terminals. Kit includes complete instructions for proper crimping procedure. Dimensions of portable case with carrying handle, 13¼" wide, 9¼" deep, and 2" high. Shpg. wt., 10 lbs.
47 D 4317..32.50

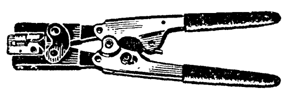
Model 5000. Similar to Model 4900 Kit Assortment above, but contains a quantity of 1000 single-grip non-insulated type solderless terminals. Also consists of a combination crimping-cutter installing tool in a compact steel storage box. Includes 50 each of 20 different types and sizes of solderless terminals to meet almost all applications and needs. Shpg. wt., 10 lbs.
47 D 4319..32.50

ASSORTED TERMINALS SERVICING KIT



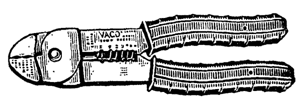
Model 2195. Handy kit contains approximately 250 solderless terminals in most popular sizes, in addition to a Type 1900 crimper/cutter tool described below. Extensive terminal selection lets you make almost any type of lug connection used in radio or TV, or general-purpose applications. Terminal assortment and tool are supplied in handy clear plastic case with slotted compartment dividers for index tabs. Case size, 8¾x6x1¾". Wt., 2 lbs.
47 D 4427..8.95

NEW VACO T-1710 CRIMPING TOOL



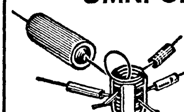
Crimps all terminals in wire ranges from 22 to 10 gauge. Built-in ratchet, safety release assures uniform crimps. Compound lever action, narrow handle. Shpg. wt., 1 lb.
47 A 2836............35.00

VACO 1900 CRIMPING TOOL



3 dies for use with non-insulated terminals on 18-22, 14-16, and 10-12 wires. Stripping notches are marked for wire sizes. Steel, plastic handles. Shpg. wt., 1 lb.
47 A 4233.............3.95

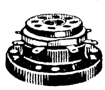
OMNI-GRIP SOLDERLESS CONNECTORS



Have tension spring inside a forked cup. Leads are held between coils of spring. Type AB-1 is plug-in mount; Type A is screw mount. Accept up to 8 leads. 9⁄16x 5⁄16" diameter. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	PER PKG. OF 100 1-9	10-49	50-99	100-Up
47 D 2899	A	9.00	8.10	7.30	6.60
47 D 2881	AB-1	13.50	12.30	11.65	11.00

POMONA BREADBOARD SOCKETS



XS-8

Surface-mounted breadboard sockets, ideal for experimental design and for use in enclosed units to eliminate double chassis construction. Insulated base with connections numbered for easy identification. Grade A phosphor bronze spring contacts. Standard center-to-center side mounting holes with additional center mounting hole on 7- and 9-pin sockets. 2 oz.

Stock No.	Mfr's Type	Description	EACH 1-49	50-99	100-249
47 D 2215	XS-7	7-pin miniature	.59	.54	.50
47 D 2216	XS-8	8-pin octal	.75	.68	.64
47 D 2217	XS-9	9-pin miniature	.69	.63	.59

Kepro Printed Circuit, Layout and Nameplate Kits

ETCHED CIRCUIT MATERIALS AND KITS

ETCHED CIRCUIT COPPER-CLAD MATERIALS

A quality selection of laminated 1-oz. (.00135) copper-clad materials. Available in both 1/16″ XXXP paper base phenolic and 1/16″ G-10 glass epoxy with foil on two sides, except types marked with *, coating on one side only. Fully meet standard NEMA grade tolerances. Supplied unsensitized for screen processed parts and photosensitized for photo processed boards. Photosensitized materials are ready for exposure with no further sensitizing required. **Packed 5 pieces per package.**

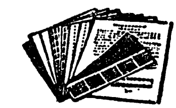
XXXP PAPER BASE PHENOLIC TYPE

Stock No.	Mfr's Type	Description	Size	PER PKG. OF 5 1-4	5-10	11-15	16-20
43 D 3939	P1-365	Unsens.*	3x6″	2.00	1.80	1.70	1.60
43 D 3940	P1-12125	Unsens.*	12x12″	10.50	9.40	8.85	8.30
43 D 3941	P1-365PB	Unsens.*	3x6″	2.40	2.15	2.00	1.90
43 D 3943	P2-365	Unsens.	3x6″	2.55	2.30	2.20	2.05
43 D 3944	P2-12125	Unsens.	12x12″	14.20	12.30	11.55	9.85
43 D 3945	S1-335	Sens.*	3x3″	2.15	1.95	1.80	1.70
43 D 3946	S1-365	Sens.*	3x6″	3.55	3.15	3.00	2.80
43 D 3947	S1-665	Sens.*	6x6″	6.30	5.65	5.30	4.95
43 D 3948	S1-7105	Sens.*	7x10″	11.45	10.25	9.65	9.05
43 D 3949	S1-12125	Sens.*	12x12″	22.60	17.25	15.95	......
43 D 3952	S2-365	Sens.	3x6″	5.05	4.55	4.25	4.00
43 D 3953	S2-665	Sens.	6x6″	9.30	8.35	7.85	7.35
43 D 3957	S2-12125	Sens.	12x12″	32.65	24.65	23.50	......

G-10 GLASS EPOXY TYPE

43 D 3958	P1-335G	Unsens.*	3x3″	2.65	2.35	2.20	2.05
43 D 3960	P1-365G	Unsens.*	3x6″	4.60	4.10	3.85	3.50
43 D 3961	P1-12125G	Unsens.*	12x12″	29.90	22.40	21.25	......
43 D 3962	P2-335G	Unsens.	3x3″	2.80	2.55	2.35	2.25
43 D 3963	P2-365G	Unsens.	3x6″	4.85	4.35	4.10	3.85
43 D 3964	P2-12125G	Unsens.	12x12″	31.60	23.70	22.50	......
43 D 3965	S1-335G	Sens.*	3x3″	3.70	3.30	3.10	2.90
43 D 3966	S1-365G	Sens.*	3x6″	6.65	5.95	5.60	5.25
43 D 3967	S1-665G	Sens.*	6x6″	12.40	11.15	10.25	9.55
43 D 3968	S1-7105G	Sens.*	7x10″	23.55	18.60	16.85	16.30
43 D 3969	S1-12125G	Sens.*	12x12″	40.80	31.15	30.00	......
43 D 3970	S2-335G	Sens.	3x3″	4.55	4.05	3.80	3.60
43 D 3971	S2-365G	Sens.	3x6″	8.15	7.35	6.90	6.45
43 D 3972	S2-665G	Sens.	6x6″	15.75	13.45	11.60	10.75
43 D 3973	S2-7105G	Sens.	7x10″	27.90	20.95	19.90	......
43 D 3974	S2-12125G	Sens.	12x12″	56.55	50.90	......	......

PHOTO LAYOUT KITS



PL-2A Photo Layout Kit. Eliminates necessity of inking and lettering through use of mechanical negative- and pressure-sensitive characters. Layout time is reduced; errors easily corrected. May be used directly as negative when made to 1:1 scale or photographed and reduced to desired scale when produced at 2:1 or 4:1. Produces 2 sheets of 8x10″ artwork. Includes: tape dots; 2 tape strips; letters and numerals; acetate sheet; mechanical negative; layout paper; instructions. Shpg. wt., 14 oz.
43 D 1139..**3.95**

PL-200 Master Layout Kit. (Not illus.) Includes materials to make 18x24″ artwork. Contents: 2 pcs.—18x24″ matte surface "Mylar"; 2 pcs.—18x24″ mechanical negative, "Mylar" base; 4 pcs.—17x21″ graph paper; 112/1/8″, 224/3/16″, 288/1/4″, 192/7/16″, 252/1/2″, 36/1″ dots. 18 yds. ea. 1/16″, 3/32″, 1/8″, 3/16″, 1/4″ tape strips; letters; opaquing fluid; tools; data. Shpg. wt., 4 lbs.
43 D 1143 U..**36.30**

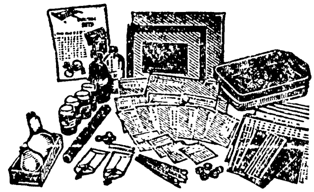
EXTRA PHOTO LAYOUT SUPPLIES

Stock No.	Mfr's Type	Description	EA.
43 D 3975	MN-1212	12x12″ Mechanical Negative	1.25
43 D 3976	AS-3	Acetate Layout Film (18x24″; .005″ thick)	1.15
43 D 3984	AT-810	Pressure Sensitive Letters and Numerals on transparent base (3 sizes, 4 fonts)	2.50
43 D 3997	PEY-12	Pkg. of 125 Assorted Eyelets	.60

SC601A SILK SCREEN KIT

Produces three silk screens up to 7x9″ each. Lacquer-resistant, film-type photo stencils. Includes: 10x12″ screen frame with silk; two 14x16″ screen silks; three 8x10″ stencil film; #2 photoflood; developing and hardening chemicals; tray; 8 1/2x11 1/2″ print frame; thermometer; black and white screening inks; accessories. Instructions. Shpg. wt., 13 lbs.
43 D 1142 U..**35.00**

ETCHED CIRCUIT KITS



L-505A. Printed Circuit Lab. Meets all circuit board development needs of the design engineer or experimenter. Spans range from single experimental breadboards to high-quality, photo-processed, short-run production boards. Boards up to 70 sq. in. may be processed. Includes PL-2A Photo Layout Kit to satisfy art work requirements. Contains: 15 assorted photosensitized copper-clad phenolic XXXP boards; 4 unsensitized boards; developing and etching trays; printing frame; mechanical negative; accessories and solutions; and instructions. Shpg. wt., 20 lbs.
43 D 1105 U..**34.75**

L-505A-G Printed Circuit Lab. Same as above, but with G-10 glass epoxy boards instead of XXXP boards. Shpg. wt., 21 lbs.
43 D 3990 U..**42.95**

P-101A. Professional Etched Circuit Kit. Utilizes photo engraving process to produce professional quality etched circuits. Negative of layout can be produced photographically or mechanically with materials supplied. Contains: 3 sheets of sensitized XXXP phenolic board (2—3x6″, 1—3x3″); 2 sheets of mechanical negatives; trays; accessories and solutions; instructions. Shpg. wt., 3 lbs.
43 D 1109..**5.85**

P-101A-G Professional Etched Circuit Kit. As above, but with G-10 glass epoxy boards instead of XXXP boards. 3 lbs.
43 D 3991..**7.40**

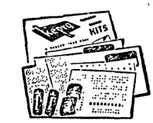
S-101A Standard Etched Circuit Kit. Economy etching kit for development of patterns. Liquid (applied with resist marking pen) or tape resist is applied to XXXP copper-clad sheet in desired pattern, then etched. A perforated copper-clad panel (supplied) speeds component mounting. Will process 3—3x6″ panels. 2 lbs.
43 D 1119..**3.95**

S-101A-G Standard Etched Circuit Kit. Same as above, but with G-10 glass epoxy instead of XXXP phenolic. Shpg. wt., 2 lbs.
43 D 3992..**5.25**

ETCHED CIRCUIT PROCESSING CHEMICALS

Stock No.	Type	Description	Size	EACH
43 D 1673	RMP-700	Resist Marking Pen	.....	.75
43 D 1674	R-2	Paint Resist (for unsensitized sheet)	2 oz.	.60
43 D 1675	T-2	Resist Thinner	2 oz.	.50
43 D 1676	D-1PT	Developing Sol'n (for sensitized sheet)	pint	1.15
43 D 1161	D-1G	Developing Sol'n (for sensitized sheet)	gal.	5.00
43 D 1677	E-1PT	Etching Solution	pint	.85
43 D 1160	E-1G	Etching Solution	gal.	3.00

NAMEPLATE KITS



NP-303A Enamel Nameplate and Panel Kit. Utilizes photographic process to produce high contrast nameplates on aluminum panels. Kit includes pressure sensitive opaque letters and numerals in 3 fonts. Characters are arranged on a clear acetate sheet and used as positive film to expose photosensitized blue aluminum plate. Plates require only development—no fixing. In development, the opaqued areas are washed away, producing sharply detailed aluminum letters on a blue background. Materials supplied produce 160 sq. in. of plate. With two 8x10x.007″ aluminum plates, accessories and solutions. Wt., 1 lb.
43 D 1141..**7.25**

NP-404 Anodized Aluminum Nameplate and Panel Kit. Uses pressure-sensitive opaque letters and numerals mounted on a clear acetate sheet to make a positive film. Photosensitized black anodized aluminum panel is exposed through the film. Areas of panel receiving light resist etching solution—process produces detailed aluminum lettering on black anodized background. Kit includes three 3x6x.015″ plates, accessories, solutions. Wt., 1 1/2 lbs.
43 D 1144..**6.55**

NP-303A MATERIALS

Stock No.	Type	Description	Size	EACH
43 D 3993	NP-EP1220	Sensitized Enamel Plate	12x20″	4.13
43 D 3994	NPD-16A	Developer	16 oz.	2.90
43 D 3995	NP-AS1722	Pressure Sens. Adhesive Sheet	17x22″	2.75

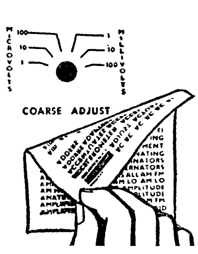
NP-404 MATERIALS

Stock No.	Type	Description	Size	EACH
43 D 1133	NP-SA1212	Anodized Aluminum Plate	12x12″	4.90
43 D 3996	NP-SA1220	Anodized Aluminum Plate	12x20″	7.75
43 D 1676	D-1PT	Developer	pint	1.15
43 D 1135	NP-E	Etching Powder	pkg.	.40

For a complete selection of precision-cut, self-sticking terminal circles and connecting strip for use in making printed circuit photo layouts, see listing of Brady Drafting Aids on next page.

Kits and Materials for Engineers

DATAK "LETRASET"

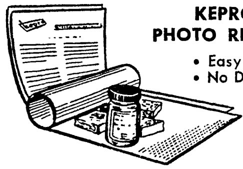


- Looks Like Printing
- Easy to Apply
- Permanent, Not a Decal
- No Background Haze or Film
- Black or White Lettering

The easy way to mark electronic equipment. Can be applied to any surface . . even crackle-finished metal. To apply, place sheet on surface to be marked, rub soft pencil over sheet, lift sheet away. Sets available with 95% of words used in panel marking, plus individual letters and numerals. In multiples of 100, on 3x5″ sheets. 12 sheets in each set, except 958 and 959 have 24 sheets. *Black lettering; †white. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Set Contains	PER SET
23 D 7780	*958	Words, letters, numerals	4.95
23 D 7781	†959	Words, letters, numerals	4.95
23 D 7782	*960	Alphabet only	2.50
23 D 7783	†961	Alphabet only	2.50
23 D 7784	*962	Numerals only	2.50
23 D 7785	†963	Numerals only	2.50

KEPRO FK-701 PHOTO REVERSING KIT



- Easy 2-Step Process
- No Darkroom Needed

With All Materials

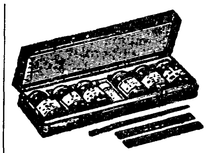
Handy kit utilizes simple 2-step process to prepare line negatives and positives from taped or ink artwork, or to reverse existing negatives and positives. Film is contact exposed, then wiped with developer on cotton pad. No darkroom work, mixing of chemicals or fixing is required. Includes 2 pieces of 10x24″ reversing film, plus chemicals. Shpg. wt., 1½ lbs.

43 D 3180........................7.20

RF-1024 EXTRA REV. FILM. 10x24″. 2 oz.
43 D 3811........................3.00

RFD-2 EXTRA FILM DEVELOPER. 2 oz.
43 D 3812.........................60

MICRO-CIRCUITS S-21 KIT



- Makes Miniature Components
- Repairs Printed Circuits

Lets you create all types of miniature electronic equipment to satisfy your needs. Make resistors, capacitors, connecting circuits, and other components on a miniature scale. Kit also allows you to paint your own radio circuit and make repairs on existing printed circuits. Includes: brush; silver-conducting paint; low, medium, high and very high resistance paints; insulating lacquer; solvent brush cleaner; the manual, "Design and Repair of Printed Circuits", plus an assortment of other highly informative, helpful and instructive literature. Shpg. wt., 1¾ lbs.

43 D 1146........................23.11

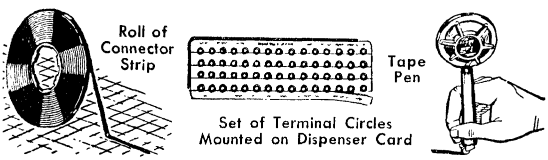
TECHNIQUES 5100 PRINTED CIRCUIT KIT

Uses Pre-Sensitized Copper-Clad Laminate

Convenient, time-saving printed circuit kit incorporating new, ready-to-use, pre-sensitized copper-clad laminate. Utilizes fast, efficient method; cuts to a minimum the time required for making outstanding prototype printed circuits—a real aid for the circuit designer and the design engineer. Kit includes: 20 pieces of single and double-clad XXXP and epoxy fiberglas laminates in assorted sizes, both pre-sensitized and uncoated; 20 assorted tube and transistor sockets; 2 rolls of tape resist, 1/16″ and ⅛″ wide; 200 die-cut tape circles; 1 bottle of resist and brush; ball point resist pen; eyelets and terminals; No. 51 drill; layout paper; exposure clamp; etching solution; and trays. With complete, easy-to-follow instructions. Shpg. wt., 9½ lbs.

43 D 1145 X........................29.95

BRADY PRECISION-MADE PC DRAFTING AIDS



Black self-sticking circles and connector strip for use in printed circuit drafting. Save drafting time and costs. Precision cut to size, dimensionally stable. Photograph an opaque jet black without highlights. Fully meet MIL-P-21193 specifications.

TERMINAL CIRCLES

Stock No.	Type No.	O. D.	I. D.	Pcs Per Card	MIL-P-21193-
43 D 3900	TC125-031	.125″	.031″	112	1E
43 D 3901	TC187-062	.187″	.062″	112	2E
43 D 3902	TC250-062	.250″	.062″	96	6E
43 D 3903	TC312-062	.312″	.062″	80	7E
43 D 3904	TC375-062	.375″	.062″	54	8E
43 D 3905	TC375-094	.375″	.094″	54	....
43 D 3906	TC400-095	.400″	.095″	48	....
43 D 3907	TC437-062	.437″	.062″	48	10E
43 D 3908	TC500-062	.500″	.062″	42	12E
43 D 3909	TC500-125	.500″	.125″	42	13E

1-24 Cards..........Each .50 25-99 Cards........Each .30
100-499 Cards.........Each .24 500-999 Cards......Each .21

CONNECTOR STRIPS IN ROLLS (18 Yds. Per Roll)

Stock No.	Type No.	Size	Rolls Per Pkg.	PER PKG. 1-24	25-99	100-499
43 D 3910	CSR015	.015″	3	2.25	2.03	1.80
43 D 3911	CSR031	.031″	3	2.25	2.03	1.80
43 D 3912	CSR062	.062″	3	2.40	2.16	1.92
43 D 3914	CSR080	.080″	3	2.40	2.16	1.92
43 D 3915	CSR093	.093″	3	2.40	2.16	1.92
43 D 3016	CSR100	.100″	2	1.60	1.44	1.28
43 D 3917	CSR125	.125″	2	1.60	1.44	1.28
43 D 3918	CSR156	.156″	2	1.80	1.62	1.44
43 D 3919	CSR187	.187″	2	1.80	1.62	1.44
43 D 3920	CSR200	.200″	2	1.80	1.62	1.44
43 D 3921	CSR250	.187″	2	1.80	1.62	1.44

MODEL TP-4 TAPE PEN

Precision drafting instrument provides fast, accurate method of drawing with self-sticking tape. Applies straight, curved or irregular lines. Can be used freehand, with straight edge, French curve or beam compass (below). Handles 18-yd. roll of tape; built-in blade cuts off tape at end of line. 7¼″ long. Shpg. wt., 13 oz.

43 D 3922........................14.95
43 D 3923. BCA-1 Beam Compass Attachment, 6 oz..........12.50

CLARK ELECTRONICS "MICRO-DUCER"

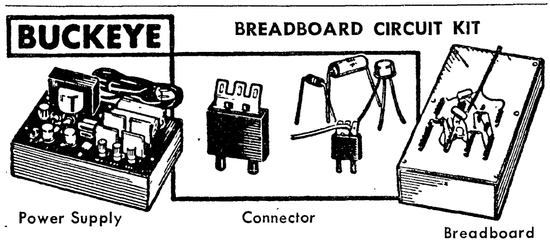
Now you can make a pressure-transducer by simply applying a drop of this unique pressure-sensitive paint to any conducting surface. After paint has dried, another conducting surface is placed over spot; transducer formed has little weight or volume—its resistance changes with force, pressure or strain. Uses are unlimited—serves as solid-state relay; magnetometer; amplifier; wind, water or blood pressure indicator. Forms barometric pickup when surface is vacuum coated. Shpg. wt., 3 oz.

TYPE 5. High sensitivity type—over 100,000 ohms resistance change per oz. force. 0-2 lbs. on ½″ dia. spot. 1-oz. bottle.
43 D 0869........................30.00

TYPE 9-A. Low-pressure type, 0-1 lb. Varies from infinity to 30 ohms with 1-lb. force @ 75°F on drop ¼x.002″. May be preloaded for smaller or larger resistance changes. 1-oz. bottle.
43 D 0868........................30.00

TYPE C-10. High pressure type with force of 0-200 lbs. Temperature range, —100°F to +400°F. ⅛x.025″ spot @ 200 lbs. has resistance change of 10,000 ohms. 1-oz. bottle.
43 D 0860........................30.00

BUCKEYE BREADBOARD CIRCUIT KIT



BB-1 BREADBOARD KIT. Designed for rapid, economical development of transistor circuits. Spring-clip connectors on 2x5x11″ perforated board—no soldering required. Solder lugs are provided for final circuit connections. Includes: 40—T-3 and 10—T-3S (non-electrically coupled) connectors. Shpg. wt., 2½ lbs.
43 D 3924........................8.95

PS-100 DC POWER SUPPLY. Dual voltage, transistor-regulated power supply designed for transistor circuit designers and experimenters. Offers high stability. Output: 0-15 volts DC, ±10% adjustable. Up to 300 ma can be drawn from the 2 outputs simultaneously. Ripple and noise less than 5 mv @ 15-volt, 300-ma output. Size, 4x5x7″. Shpg. wt., 3½ lbs.
43 D 3925........................49.95

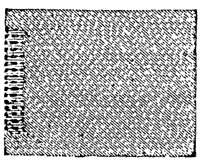
43 D 3926. Extra T-3 Connectors. Pkg. of 50. 4 oz........... 6.00
43 D 3927. Extra T-3S Connectors. Pkg. of 25. 2½ oz......... 3.00

Terminal Boards and Terminals

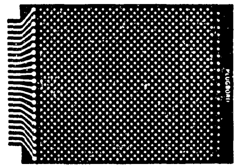
Vector

VECTOR "PLUGBORDS" AND RECEPTACLES

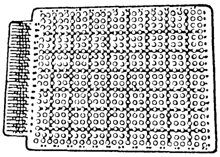
R616-1



812

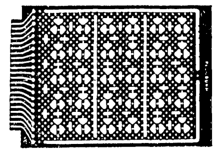


838A



2536WE

For Test Circuits, P.C. Prototypes, Short Runs



838PWE

"Plugbords." 1/16″ thick epoxy paper, EXXXP per MIL-P-22324 except *1/16″ epoxy glass, Grade G-10 per MIL-P-18177. Have grid of .062″ holes on 0.1″ centers; except 2536WE has .093″ holes on .2″ grid and number matrix. 838PWE has etched copper pad network. Contacts on .156″ centers and .072″ wide except †.090″ wide. 3 oz.

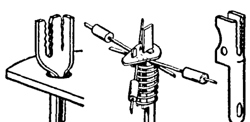
Stock No.	Mfr's Type	Size	No. of Contacts	EACH 1-19	20-99	100-199	200-999
47 D 0928	812	4½x6½″	16	2.73	2.46	2.29	1.83
47 D 5606	812WE*	4½x6½″	16	3.23	2.91	2.71	2.16
47 D 0927	837	3x4½″	12	2.13	1.92	1.79	1.43
47 D 5607	837WE*	3x4½″	12	2.36	2.12	1.98	1.58
47 D 5609	838A†	4½x6½″	22	2.57	2.42	2.33	2.08
47 D 5610	838AWE	4½x6½″	22	3.19	2.98	2.85	2.49
47 D 5611	838PWE*†	4½x6½″	22	3.56	3.31	3.16	2.74
47 D 5613	838WE	4½x6½″	43	3.92	3.69	3.55	3.16
47 D 5608	848WE*	4½x6½″	35	5.58	5.02	4.69	3.74
47 D 6022	838§	4½x6½″	44	3.34	3.17	3.06	2.77
47 D 6023	2536WE*	4½x6½″	35	6.38	5.74	5.36	4.27

Receptacles. With solder and taper tab leads. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Contacts	For	EACH 1-99	100-249	250-999
47 D 6024	R612-1	12	837, 837WE	1.64	1.12	1.02
47 D 6026	R616-1	16	812, 812WE	2.04	1.58	1.35
47 D 5635	R635	35	848WE, 2536WE	4.46	2.97	2.48
47 D 5612	R644	44	838, 838A, 838AWE, 838PWE, 838WE	2.62	2.10	2.10

VECTOR PUSH-IN TERMINALS

Solderless T32A springclip offers reliability, less than .020 ohms resistance. Fits .093″ "Vectorbord." T9.4 and T28 press-fit; teeth in slots hold lead till soldered. Shpg. wts: Pkg./100, 2 oz.; Pkg./1000, 12 oz.



T9.4 T32A T28

Mfr's Type	Fits Holes	Description	Stock No.	PER PKG. OF 100 1-19	20-99	Stock No.	PER PKG. OF 1000 1-4	5-24
T9.4	.093″	Tinned brass	47 D 0878	1.25	1.13	47 D 1437	8.90	7.48
T28	.062″	Tinned copper	47 D 0879	1.55	1.40	47 D 1438	11.00	9.90
T28S1	.062″	Silvered copper	47 D 6041	1.55	1.40	47 D 6042	11.00	9.90
T32A	.093″	Nickeled brass	47 D 6046	9.90	9.90	47 D 6047	75.00	67.50
T32A1	.062″	Nickeled brass	47 D 6048	9.90	9.90	47 D 6049	75.00	67.50

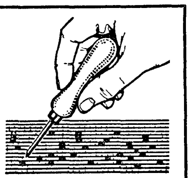
Insertion Tools. Simplify insertion or push-in terminals. Wt., 2 oz.

Stock No.	Mfr's Type	Used For	EACH 1-49	50-199	200-499	500-999
47 D 0601	P-91	T28	.50	.45	.35	.34
47 D 0603	P-92A	T30 series	.50	.45	.35	.34
47 D 0607	P-122	T9.4	1.00	1.00	1.00	1.00

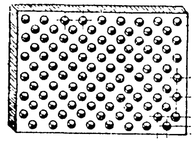
VERO MODEL BK-6 BOARD KIT

Basic circuit board kit with 6 Veroboards and spot-face cutter. Provides a simplified method of circuit construction. Lay parts on board with leads in holes, break strips with cutter and solder. In minutes a finished circuit without clips, terminals or tools.

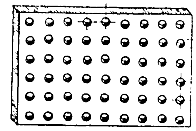
47 D 6001 . . . . Each 5.95



"VECTORBORD" PRE-PUNCHED TERMINAL BOARDS



Pattern G



Pattern A, AA, B, F

No suffix letters indicate boards are phenolic, XXXP per MIL-P-3115B; suffix EP indicates epoxy paper, EXXXP per MIL-P-22324; suffix WE indicates epoxy glass, G-10 per MIL-P-18177. Patterns A, B, F, G are 1/16″ thick; AA is 3/32″ thick. Patterns A and AA have .093″ holes on .265″ grid; B has .062″ holes on .188″ grid; G has .062″ holes on staggered 0.1″ grid; F has .062″ holes on .2″ grid. All 17″ long except *8½″. Push-in T9.4 and T32A terminals, below left, fit Pattern A and AA. T28 terminals fit B, F and G, or standard terminals and eyelets fit pre-punched holes. User can make own etched circuits. May be sawed, drilled or punched. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Width	Pattern	No. Holes	EACH 1-19	20-99	100-199	200-999
47 D 0916	85G24EP	4 13/16″	G	(85x23)x2	2.06	1.85	1.73	1.38
47 D 0917	32AA18	4 13/16″	AA	32x18	.84	.76	.71	.56
47 D 0918	64A18	4 13/16″	A	64x18	1.25	1.13	1.05	.84
47 D 0919	64AA18	4 13/16″	AA	64x18	1.60	1.44	1.34	1.07
47 D 0926	32AA9*	2 7/16″	AA	32x9	.60	.54	.50	.40
47 D 5601	64A18WE	4 13/16″	A	64x18	3.72	3.35	3.12	2.49
47 D 5604	85G24WE	4 13/16″	G	(85x23)x2	3.81	3.43	3.20	2.55
47 D 5605	85F24EP	4 13/16″	F	85x23	2.06	1.85	1.73	1.38
47 D 6008	64AA18EP	4 13/16″	AA	64x18	2.73	2.46	2.29	1.83
47 D 6009	42G24WE*	4 13/16″	G	(42x24)x2	1.89	1.70	1.59	1.27
47 D 6005	45B30*	5 5/8″	B	45x30	.84	.76	.71	.56
47 D 6006	90B30	5 5/8″	B	90x30	1.62	1.46	1.36	1.09
47 D 6007	64AA32	8½″	AA	64x32	2.45	2.21	2.06	1.64

VECTOR COPPER CLAD TERMINAL BOARDS

Pre-punched copper-clad boards for making printed circuits, shielding, or RF construction. Suffix 1XXXP and C1 are phenolic grade XXXP per MIL-P-3115, copper clad on 1 side; suffix C2 is the same but both sides; WEC1 epoxy glass Grade G-10 per MIL-P-13949B, 1 side; WEC2, same but both sides. Patterns F and G have .062″ holes, .2″ and 0.1″ grid respectively. For Type T28 terminals, below left. 1/16″ thick, 4½″ wide. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Lgth	Pattern	No. Holes	EACH 1-19	20-99	100-199	200-999
47 D 6013	3070-1XXXP	6½″	F	32x22	.84	.76	.71	.56
47 D 6016	42F22C1	8½″	F	42x22	1.00	.90	.84	.67
47 D 6017	42F22C2	8½″	F	42x22	1.32	1.19	1.11	.88
47 D 6019	42G22WEC2	8½″	G	(42x22)2	2.60	2.34	2.18	1.74
47 D 6020	85F42WEC1†	17″	F	85x42	9.33	8.40	7.84	6.25
47 D 6021	85F42WEC2†	17″	F	85x42	10.25	9.23	8.61	6.87

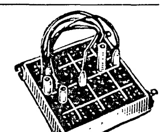
PAD CUTTER TOOLS

For isolating terminals from ground plane. Tools cut off ring of copper around hole to isolate it from the rest of the copper cladding. Small isolated pad is left for soldering if desired. Pad cutter permits use of inexpensive ZIP T28 terminals in place of expensive insulated standoffs. Mounts easily in any drill chuck for fast cutting. Shpg. wt., 2 oz.

47 D 6015. Type P116 ¼″ dia. Circle Cutter . . . . Each 1.85
47 D 6000. Type P116A 3/16″ dia. Pad Cutter . . . . Each 1.85

VECTOR PATCHBOARDS

Used for test panels, automation equipment, paging, etc. Independent gold-flashed wrap-around contacts spaced on .265″ centers; rated at 5 amps and 1000 VAC. Less than .002 ohms contact resistance. Satin black phenolic except *ivory epoxy paper. Brackets for flush or recessed mounting. 8 oz.



Stock No.	Mfr's Type	Description	EACH 1-49	50-199
47 D 6025	PB510-2	50 contacts 2.98x1.66″	6.45	5.81
47 D 6027	*PB1010	100 contacts 3.25x3.25″	10.75	9.68
47 D 6028	PB1010-2	100 contacts 2.98x2.98″	10.85	9.77
47 D 6030	PB1520-2	300 contacts 5.63x4.31″	32.35	29.12

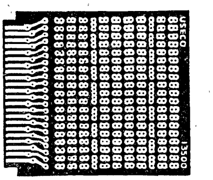
Patchcords. For above, .090″ diameter nickel-plated prongs. Colors, by length; 6″, black; 9″, blue; 15″, yellow. Shpg. wt., 8 oz.

Length	Single Conductor Each End: Stock No.	Mfr's Type	Per Bundle of 25	Piggy Back Each End: Stock No.	Mfr's Type	EACH
6″	47 D 6029	K2.06	2.00	47 D 6043	K9.06	.93
9″	47 D 6031	K2.09	2.25	47 D 6044	K9.09	.93
15″	47 D 6032	K2.15	2.50	47 D 6045	K9.15	.93

Printed Circuitry and Building Panels

TRIAD CIRCUIT CARDS

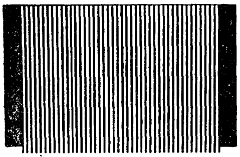
TYPE 13500 UNIVERSAL CIRCUIT CARD



An invaluable aid in developing experimental or prototype circuits. Land pattern is compatible with standard .1 grid design. Circuit card has 233 mounting pads of one or more holes each, front and back for a total of 444 holes per card; 22 fingers fit any standard plug-in, right angle or swage-type connector with .156″ spacing. Standard spacing of holes permits insertion of components directly into board. Standard hole size, .052″. Cards may be sawed or sheared to adapt to any circuit. Gold-plated finish for optimum performance. Size, 4x4½″; 1/16″ thick. Shpg. wt., 3 oz.

47 D 2926. 1-9 .... Each 6.60
10-24 .... Each 5.95   25-49 .... Each 5.35

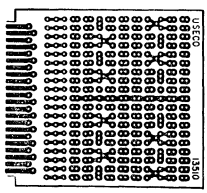
TYPE 13600 EXTENDER CARD



Used to extend the fingers of a circuit card to allow access to boards mounted in racks or panels. Frees both sides of electronic circuit for maintenance under operating conditions; engineering change testing during operation; investigation of parameters or parameter changes during operation. Card has 43 extension strips on each side of board; standard .156″ connector spacing. Quality gold plated finish. Size, 5x8″; 1/16″ thick. Shpg. wt., 6 oz.

47 D 2929. 1-9 .... Each 7.50
10-24 .... Each 7.00   25-49 .... Each 6.25

TYPE 13510 UNIVERSAL CIRCUIT CARD

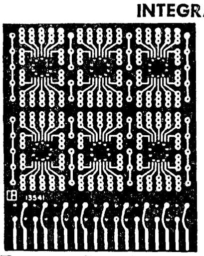


Incorporates advanced design specific transistor locating holes, a ground bus down center of card, and more convenient location for pad rows. Specially designed for Elco-type connectors. 190 mtg. pads of one or more holes each, front and back, for a total of 421 holes per card. 22 fingers for any connector with .156″ spacing, plus 22 pairs of pads. Std. hole size, .052″. Gold plated finish. 4x4½″; 1/16″ thick. Shpg. wt., 3 oz.

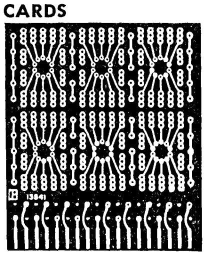
47 D 2927. 1-9 .... Each 6.60
10-24 .... Each 5.95   25-49 .... Each 5.35

Allied maintains complete stocks of Elco and Amphenol printed circuit connectors. Both the Elco 6007 and Amphenol 143 series of PC connectors can be used with boards described above.

INTEGRATED CIRCUIT CARDS

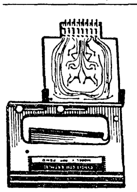


Use Both Sides. Build Circuit with Flat Pack on One Side or TO-5 Case on Other



For breadboarding integrated circuits or discrete components. Types 13540 and 13541 are two-sided 1/16″ G-10 glass epoxy, gold-plated, with flat pack mounting tabs on one side and TO-5 pads with .032″ hole on the other. Interconnection pads have .040″ hole. 13540 mates with 25 contact double-side connector on .050″ centers; 13541, 18 contact double-side connector on .156″ centers.

Stock No.	Mfr's Type	Dimensions (Inches)	EACH 1-9	10-24	25-49	50-99
47 D 2923	13540	3.00x3.187″	6.60	5.95	5.35	4.95
47 D 2924	13541	2.97x3.273″	6.60	5.95	5.35	4.95
47 D 2915	13540 With Connector		13.10	11.10	9.70	8.85
47 D 2918	13541 With Connector		8.85	7.75	6.85	6.30



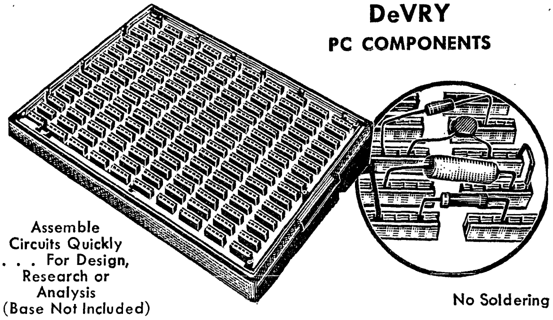
MODEL CE-5 INSERTER-EXTRACTOR

Designed to handle miniature integrated printed circuit cards and modules, as well as larger cards up to 4 inches in width. Handles cards as small as 1 inch. Grips the edges of the board for easy handling, insertion and extraction. Will not damage card. 4½x4½″.

47 D 2925. 1-9 .... Ea. 10.85   10-24 .... Ea. 9.77
25-49 .... Ea. 8.79   50-99 .... Ea. 8.17

DeVRY

PC COMPONENTS



Assemble Circuits Quickly . . . For Design, Research or Analysis (Base Not Included)

No Soldering

TYPE 15000 PRINTED CIRCUIT BUILDING PANEL

Provides a fast, simple means to breadboard a circuit. Connections are easily changed for circuit modification. Ideal for circuit design and development. Uses no clips, jacks, connectors—requires no soldering. Simply plug-in any size wire from #30 to #17 gauge for instant contact. Also, standard electronic components can be connected anywhere on the panel. Insulation resistance between contact strips is 1000 megohms. Contact strips of spring tempered phosphor bronze for long life. Dielectric strength is 5000 v. RMS. Panel contains 150 contact strips, 750 contact points. Parts may be spaced with similar density as in conventional wiring. Molded acrylic, punch vinyl plastic (ambient temperature 20°F to 135°F). 9½x14½x½″. Shpg. Wt., 2¼ lbs.

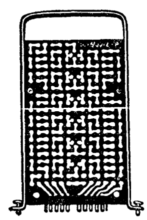
47 D 0654 .... Each 37.50
47 D 0659. Model 15006 Base for above .... Each 15.00

MATCHING PLUG-IN TUBE AND TRANSISTOR SOCKETS

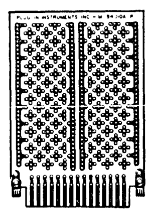
Designed for use with printed-circuit building panel above.

Stock No.	Type	Socket Type	EACH
47 D 0655	15070	Octal	1.80
47 D 0656	15060	9-Pin	1.80
47 D 0657	15050	7-Pin	1.80
47 D 0658	15080	Transistor	1.65

PLUG-IN INSTRUMENTS



With Bracket



With Finger Connections

PRINTED CIRCUIT BLANKS

Made of 1/16″ XXXP paper phenolic or epoxy-glass, with 1-oz. copperfoil and Sealbrite finish. Undrilled, except as indicated. Six transistor pads each blank. Fit Amphenol Type 143, 10 and 14/15 pin connectors. Suffix in Mfr's Type indicates specifications: EG—epoxy-glass board; TI—tin immersion plating; DH—No. 59 holes in pads; RF—rhodium-plated contacts. Choice of bracket and pins, or finger connections. Size: 5½″ high. Widths: 10-pin, 2¾″; 14-pin, 3 5/16″; 15-pin, 3 13/16″. Connectors, listed below. Wt., 4 oz.

PLUG-IN BLANKS WITH BRACKET

Stock No.	Mfr's Type	Pins	Pads	EACH 1-4	5-14	15-49	50-99
47 D 6687	M90014PE-DH	14	296	6.70	6.37	6.03	5.86
47 D 6688	M90014PE-EG-TI-DH	14	296	8.00	7.60	7.20	7.00
47 D 6681	M94003A-PG	15	764	1.95	1.85	1.76	1.70
47 D 6682	M94003A-PG-DH	15	764	3.50	3.33	3.15	3.06
47 D 6683	M94003A-PG-EG-RF-DH	15	764	4.70	4.47	4.23	4.11
47 D 6684	M96001A-PG	22	909	2.00	1.90	1.80	1.75
47 D 6685	M96001A-PG-DH	22	909	3.85	3.67	3.47	3.37
47 D 6686	M96001A-PG-EG-RF-DH	22	909	5.10	4.85	4.59	4.36

PLUG-IN BLANKS WITH FINGER CONNECTIONS

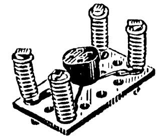
47 D 6689	M90026PH	10	254	2.30	2.18	2.07	2.01
47 D 6690	M90026PH-EG-RF-DH	10	254	5.05	4.80	4.54	4.42
47 D 6691	M94010PJ	15	282	2.15	2.04	1.94	1.87
47 D 6692	M94010PJ-EG-RF-DH	15	282	4.75	4.51	4.28	4.16

AMPHENOL SERIES 143 PC CONNECTORS

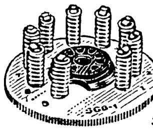
Stock No.	Mfr's Type 143-	Mates Pins	EACH 1-49	50-99	100-249	250-999	1000-2499
47 D 0503	010-01	10	.83	.70	.58	.50	.44
47 D 2851	010-03	10	.92	.77	.64	.55	.48
47 D 0500	015-01	14/15	1.08	.90	.76	.65	.57
47 D 2853	015-03	14/15	1.19	.99	.83	.71	.62

Breadboards and Elco Varipak Components

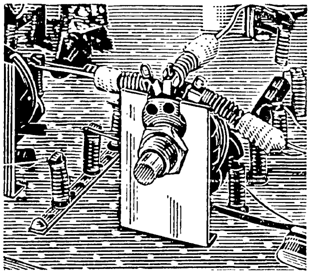
VECTOR BREADBOARD ACCESSORIES



570B



568-1C



B-20 Pot and Switch Bracket

Solderless Sockets. Have springclips attached to socket contacts. Up to 6 leads connect to each springclip without soldering. Provide fast, reliable connections. Sockets mount on any "A" or "AA" pattern Vectorbord with furnished hardware.

Stock No.	Mfr's Type	Description	EACH 1-49	50-199	200-499
47 D 5614	567-1C	8-Pin Octal	1.50	1.35	1.05
47 D 5615	568-1C	9-Pin Noval	1.65	1.49	1.16
47 D 5616	569-1C	7-Pin Miniature	1.35	1.22	.95
47 D 5617	570B	4-Lead Transistor Type	1.20	1.08	.84

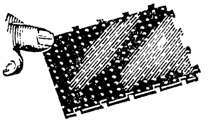
Type B-20 Pot and Switch Brackets. Handy brackets made of durable aluminum. Used for quick and easy mounting of pots and switches on any "A" or "AA" pattern Vectorbords. **4 per package.**
47 D 5618 .... Per Pkg. .46

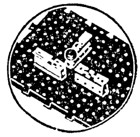
Bus Stripping. Precision punched fused-brass strip is tinned. .2″ wide with .093″ holes on .265 centers. Mount with T9.4 zip terminals, solderless T30 springclips, or #4 self-tapping screws in an "A" or "AA" pattern Vectorbord. **10 per package.**

Stock No.	Mfr's Type	Size	PKG. OF 10 1-49	50-199	200-499	500-999
47 D 5619	T-57 Pkg. X	16″	1.10	.99	.77	.74
47 D 5620	T-58 Pkg. X	8″	.70	.63	.49	.47

DeVRY SOLDERLESS BREADBOARD COMPONENTS

For high-density solderless breadboarding in circuit development. Permit a maximum number of circuit combinations to be wired in a minimum of time—no soldering, no clips or plugs, no damaged parts.





For High Density Breadboarding

Panels. Molded of red Cycolac. Each 3x4″ panel accepts up to 40 connectors (200 contact points) without stacking. Dovetail construction permits firm interlocking of panels in any direction, retaining the .30″ hole spacing across interlocks.

Connectors. Molded of white Celcon, have phosphor-bronze spring contacts that permit secure contact between as many as five wires of different size. Molded feet plug into panels or into sides and ends of other connectors without affecting insulation. Capacity, 1mmf or less between connectors. Compact, only 1 1/16x1 1/8x5/16″.

Miniature Tube Sockets. 7 and 9-pin sockets have center support posts and anti-rotation locator arms.

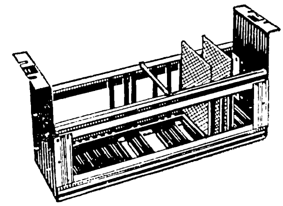
Stock No.	Type	Description	EACH
47 D 0688	2500-2	Cycolac Panel	.75
47 D 0689	2500-3	Celcon Connector	.30
47 D 0691	2500-5	9-Pin Min. Socket	.25
47 D 0692	2500-6	7-Pin Min. Socket	.25

RAYTHEON CIRCUIT-BOARD MOUNTING BRACKETS

Heavy-duty "L" brackets, to be used in pairs to mount terminal and resistor boards rigidly, under conditions of shock and vibration. Formed from .090″ cold-rolled carbon steel, brackets are cadmium-plated. Pair of brackets mounts one or two panels. Meet **MIL-STD-202 and MIL-S-901 (Ships)** specifications. Mounting feet and panel supports are drilled for 6-32 screws. *Indicates distance between centers of holes in panel supports. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Overall Height	Support Centers*	EACH 1-99	100-199	200-499
47 D 6619	MB-125	2 1/16″	1″	.20	.17	.16
47 D 6620	MB-126	2 5/16″	1 1/2″	.21	.179	.168
47 D 6621	MB-127	3 1/16″	2″	.22	.187	.176
47 D 6623	MB-128	3 5/16″	2 1/2″	.23	.196	.184

ELCO VARIPAK II PC CARD ENCLOSURES



Aluminum racks hold boards and connectors in correct alignment for efficient stacking. Fits 19″ standard rack or cabinet. Adjusts to hold PC boards to 8 1/2″ long, from 3 1/2 to 4 1/2″ wide. Supplied with blank connector panel for your own cut-out design, except Type 03-9016-06-2-00 has strap in place of panel mount. Dimensions: 1) depth of guide plate; 2) depth of mounting hanger. Av. shpg. wt., 2 1/4 lbs.

Stock No.	Mfr's Type	Dimensions 1	2	EACH 1-24	25-99
47 D 5488	03-9016-02-1-00	4″	5 1/2″	19.50	16.00
47 D 5695 X	03-9016-06-1-00	5 1/2″	8 1/2″	19.50	16.00
47 D 5696 X	03-9016-06-2-00	5 1/2″	8 1/2″	19.50	16.00
47 D 5489	03-9016-10-1-00	7″	8 1/2″	19.50	16.00
47 D 5490	03-9016-14-1-00	8″	11″	19.50	16.00

POLYCARBONATE GUIDES FOR ABOVE

Printed circuit boards slide into slots on guides and are firmly held in rack. Guides are made of polycarbonate and are designed to snap into place in guide slots. Supplied with snap rivets. Available in three thicknesses to accommodate boards of different sizes. Styles: A, for 03-9016-02-1-00 Varipaks: B, for 03-9016-06-1-00 and 03-9016-06-2-00; C, for 03-9016-10-1-00; and D, for 03-9016-14-1-00. Average shpg. wt., 2 oz. **10 per package.**

Stock No.	Mfr's Type	Size	Style	PER PACKAGE 1-9	10-99	100-499
47 D 5340	53-9016-1201	1/16″	A	1.40	1.20	1.00
47 D 5341	53-9016-1202	3/32″	A	1.10	.90	.70
47 D 5342	53-9016-1204	1/16″	B	.90	.70	.50
47 D 5343	53-9016-1205	3/32″	B	1.20	1.00	.80
47 D 5344	53-9016-1206	1/8″	B	1.20	1.00	.80
47 D 5345	53-9016-1207	1/16″	C	1.00	.80	.60
47 D 5346	53-9016-1208	3/32″	C	1.10	.90	.70
47 D 5347	53-9016-1209	1/8″	C	1.10	.90	.70
47 D 5348	53-9016-1210	1/16″	D	1.30	1.10	.90
47 D 5349	53-9016-1211	3/32″	D	1.30	1.10	.90
47 D 5350	53-9016-1212	1/8″	D	1.70	1.50	1.30

COMPONENTS FOR VARIPAK II

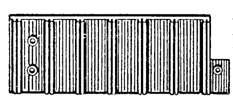
Type 53-9016.2201 Front Panel. Enhances the appearance of the Varipak and provides a mtg. for gauges and other instruments. For Type 03-9016-06-1-00 Varipak only. Wt., 1 lb.
47 D 5480. 1-24...... Each 9.25 25-Up............ Each 7.50

Type 53-9016.1302 Extra Guide Plates. For 03-9016-02-1-00. Wt., 1 oz.
47 D 5691. 1-49...... Each 5.50 50-199........... Each 4.50

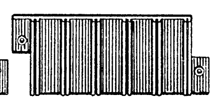
Type 53-9016.7501 Reinforcement Bar. Aluminum brace for additional rigidity. Shpg. wt., 10 oz. **2 per package.**
47 D 5472. 1-24 Pkgs., Per Pkg. 1.50 25-99 Pkgs., Per Pkg. 1.30

Type 53-9016.2402 Marker Strip. Flexible, white poly-vinyl chloride locator for guides, PC cards. 16-3/9″ long. Wt., 2 oz.
47 D 5454. Any Quantity.............................. Each .20

GUIDE STRIPS



53-9011.3011



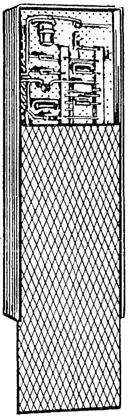
53-9011.3021

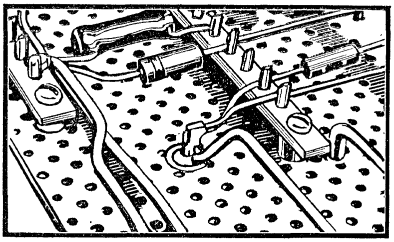
Designed for use in printed circuit packaging. Greatly reduces engineering design time and production expense. Allows you to accurately guide printed circuit cards—strips made for 1/16″ cards at .750″ spacing. Constructed of molded glass-filled diallylphthalate. Guide strips are assembled as "building blocks"—permit designer to include as many strips as required—in increments of 7 guide locations. Av. shpg. wt., 10 oz.

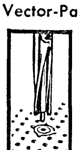
Stock No.	Mfr's Type	Description	EACH 1-24	25-249
47 D 5449	53-9011-3011	Right guide; 2″ high	1.43	1.24
47 D 5450	53-9011-3021	Center guide; 2″ high	1.43	1.24
47 D 5452	53-9012-3029	Right guide; 3 7/8″ high	2.50	1.95
47 D 5453	53-9012-3019	Left guide; 3 7/8″ high	2.50	1.95

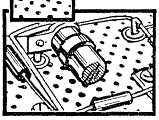
Vector Breadboard Kits and Expandable Cases

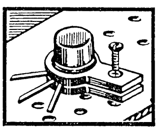
PAK 28X HIGH-FREQUENCY CIRCUIT BREADBOARDING KIT


Vector-Pak 28X


Circuit Detail Using Vector-Pak 28X


Pad Cutter Tool


Right Angle Transistor Socket


Epoxy Glass Pad

A simple method of constructing "RF tight" experimental circuits operating at very high frequencies and up through UHF ranges where "plumbing" is generally used. Virtually duplicates circuit performance of much more expensive construction techniques. Circuit may be slipped out easily and replaced with another, as required.

Complete 28X Kit Includes: aluminum case with 2 slide-out sides, 8½x3x2″; pre-punched, copper-clad, epoxy glass Vectorboard, 8⅛x3x 1/16″; 4 standoff terminal strips with 8 terminals; 2 standoff terminal strips with 12 terminals; 3 punched wall strips, 0.64x1.94″ with "L" mounting brackets, without terminals; 3 copper-clad punched strips for internal shielding, 0.90x2.85″; 50 "Miniklip" terminals; terminal inserting tool; pad cutter tool; 3 tetrode-type transistor sockets, without saddle; 3 right-angle-mounting tetrode-type transistor sockets.

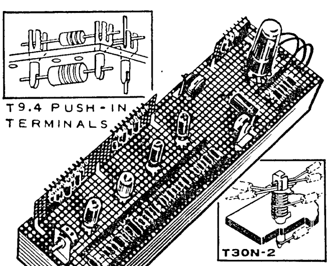
Also contains: 2 power transistor sockets; 36 mounting screws (#0-80x5/16″) with nuts; socket wrench for nuts; 15 steel spacers; 10 epoxy glass transistor mounting pads; roll of #24 copper wire, vinyl covered; roll of tinned copper wire; 18 pieces of plastic tubing for copper wire with 1/16″ O.D.; and 50 eyelets, 1/16x7/32″. Overall kit size, 8½x3x2″. Circuit components are not included. Shpg. wt., 2 lbs.

47 D 6034........................**25.00**

Type HF20-31 86/1. Case only. With 2 slide-out sides. Shpg. wt., 8 oz.

47 D 6036. 1-49................**Each 5.00**
50-199..Ea. 4.50 200-499..........Ea. 3.50

EXPERIMENTERS' CHASSIS KITS



KIT 21X TYPICAL ASSEMBLY WITH ADDED COMPONENTS

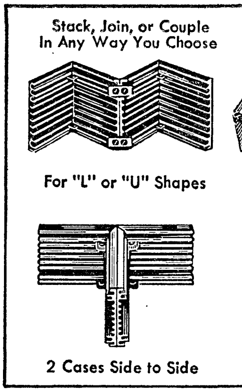
Designed for rapid setup of experimental circuits. Include push-in terminals, perforated XXXP phenolic decks, aluminum supports, T-30N-2 installation tool, spring pusher tool, hardware. Terminals: T-9.4 with insert tool (push-in type require soldering); T-30N-2 ("Springclip" holds up to 6 wires tightly without soldering); patchcords (supplied) slip in between spring coils of solderless terminals and speed wiring. Type 20X has 1 deck; Type 21X has 1 large and 2 small decks, 8 patchcords; Type 22X has 1 large, 2 small decks, 6 patchcords: Type 25X has 1 large and 2 small decks, 10 patchcords, aluminum frame parts. Each pair of small decks is: 1⅜x1.9x3/32″ and 1.9x8½ x3/32″

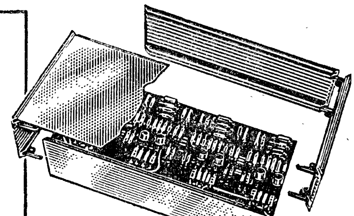
Stock No.	Mfr's Type	Main Deck	Wt., Lbs.	EACH 1-49	50-199	200-499	500-999
47 D 0906	20X	4¾x8½″	1	6.25	5.63	4.38	4.19
47 D 0907	21X	4¾x17″	2¾	15.25	13.73	10.68	10.22
47 D 0908	22X	4¾x8½″	1¼	10.50	9.45	7.35	7.04
47 D 0909	25X	8½x17″	3½	19.50	17.55	13.65	13.07

KITS ABOVE INCLUDE THE FOLLOWING:

Mfr's Type	Terminals T-9.4	Terminals T-30N-2	Patch-cords	Tube Sockets 7P	Tube Sockets 8P	Tube Sockets 9P	Trans. Sockets 3, 4P	Trans. Sockets Power
20X	75	20	....	3	2	3	0	0
21X	100	50	8	3	2	3	4	2
22X	75	20	6	0	0	0	6	2
25X	100	90	10	3	2	3	4	2

EXPANDABLE CASES FOR BREADBOARD KITS





- Modern Attractive Styling
- Easy Push-Slide Assembly
- Wide Variety of Designs
- Components Mount Easily

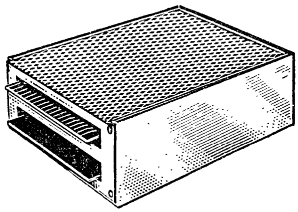
New Aluminum Frame Loc Rails have 45° end cuts that push together easily to form handsome cases that can be expanded, stacked, or coupled to fit just about any need. Inside grooves spaced .150″ apart accommodate boards, shields, or covers. Corner fasteners and screws lock corners together for strong, permanent mountings. .040″ aluminum cover panels (listed below) complete attractive case or chassis. 24″ length furnished without fasterners and with square cut ends for card guide or end plate (#4 self tap screws attach into rail end holes). *Indicates rails 1″ wide for 1/16″ panels. †, 2″ wide rails for 1/16″ panels; ‡, 2″ wide rails for 3/32″ panels; and §, 3″ wide rails for 1/16″ panels. Supplied only in packages of 2. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	No. Inside Board Grooves	Accommodates Panel Lgth.	PER PKG. of 2: 1-49	50-199	200-499	500-999
47 D 5950	SR1-3.1/062*	2	3″	.75	.68	.53	.50
47 D 5951	SR1-4.6/062*	2	4.5″	.85	.77	.60	.57
47 D 5952	SR1-6.6/062*	2	6.5″	.95	.86	.67	.64
47 D 5953	SR1-24/062*	2	24″	1.75	1.58	1.23	1.17
47 D 5954	SR2-3.1/062†	9	3″	.85	.77	.60	.57
47 D 5955	SR2-4.6/062†	9	4.5″	.95	.86	.67	.64
47 D 5956	SR2-6.6/062†	9	6.5″	1.05	.95	.74	.70
47 D 5957	SR2-10/062†	9	10″	1.25	1.13	.88	.84
47 D 5958	SR2-24/062†	9	24″	2.10	1.89	1.47	1.41
47 D 5959	SR2-3/093‡	7	3″	.85	.77	.60	.57
47 D 5960	SR2-4.8/093‡	7	4.8″	.95	.86	.67	.64
47 D 5961	SR2-8.5/093‡	7	8.5″	1.15	1.04	.81	.77
47 D 5962	SR2-10/093‡	7	10″	1.25	1.13	.88	.84
47 D 5963	SR2-17/093‡	7	17″	1.75	1.58	1.23	1.17
47 D 5964	SR3-3.1/062§	14	3″	1.00	.90	.70	.67
47 D 5965	SR3-4.6/062§	14	4.5″	1.15	1.04	.81	.77
47 D 5966	SR3-6.6/062§	14	6.5″	1.40	1.26	.98	.94
47 D 5967	SR3-10/062§	14	10″	1.80	1.62	1.26	1.21
47 D 5968	SR3-24/062§	14	24″	3.40	3.06	2.38	2.28

COVER PANELS

Stock No.	Mfr's Type	Cover Plate Dimensions	EACH 1-49	50-199	200-499	500-999
47 D 5969	PL2746	2.75″x4.5″	.42	.38	.29	.28
47 D 5970	PL4566	4.5″x6.5″	.49	.44	.34	.33
47 D 5971	PL4.8/8.5	4.8″x8.5″	.63	.57	.44	.43
47 D 5972	PL4.8/17	4.8″x17″	1.07	.96	.75	.72
47 D 5973	PL8.5/17	8.5″x17″	1.63	1.47	1.14	1.09

CASES FOR PRINTED CIRCUIT CARDS

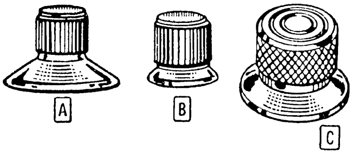


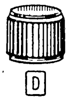
2″ wide smooth extruded aluminum cases with brushed satin finish. Two slide-out sides allow instant access to internal cards yet provide shielding with interlocking design. Nine inside 1/16″ grooves spaced .150″ apart to allow wide choice of positions. 2 cover grooves. Cases are furnished with plain .040″ bases on which the user can cut Plugboard slots or mount plugs. Dimensions are * 2.0″x 3.12″x4.21″., and † 2.0″x4.62″x6.21″. Shpg. wt., 10 oz.

Stock No.	Type HF20-	Maximum Size Inside Board	EACH 1-49	50-199	200-499
47 D 6002	31-42/1*	4.21 H x 3 W x 4″ L	3.40	3.06	2.38
47 D 6003	46-62/1†	6.21 H x 4.5 W x 6″ L	4.00	3.60	2.80

Control Knobs and Dial Cord

USECO KNOBS





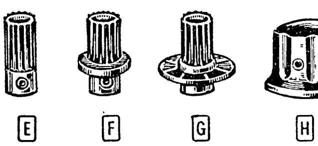
Round aluminum knobs. Rugged and attractive for use on receivers, test equipment, hi-fi systems—electronics equipment of any type. All have straight knurl except Type 310-20 which has a diamond knurl. All fit ¼″ shaft and have anodized aluminum finish. Supplied with 6-32 set screws, except Type 310-20, which has an 8-32 set screw.

Stock No.	Mfr's Type	Fig.	Knob Dia.	Skirt Dia.
47 D 3722	1000-20	A	⅝″	1″
47 D 3724	500-20	B	½″	⅝″
47 D 3725	625-20	D	⅝″	......
47 D 3727	310-20	C	57/64″	1¼″

PRICE CHART

Mfr's Type	EACH 1-10	11-24	25-49	50-99
1000-20	1.02	.93	.84	.75
500-20	.95	.87	.79	.71
625-20	.97	.89	.80	.72
310-20	1.16	1.06	.96	.86

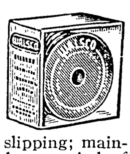
MILLEN MINIATURE PLASTIC KNOBS



Black, plastic knobs offering excellent appearance and miniature size. Easy to grip —ideal for compact equipment. Each is fitted with a brass insert that will accommodate a ⅛″ dia. shaft. Type A018 has slotted top for screwdriver blade. Wt., 4 oz.

Stock No.	Type	Fig.	Height	Dia.	EACH
47 D 3253	A019	E	9/16″	¼″	.36
47 D 3254	A018	F	9/16″	7/16″	.39
47 D 3255	A007	G	9/16″	⅝″	.42
47 D 3256	A006	H	½″	¾″	.48

WALSCO DIAL CORD SPOOLS



Medium, thin, and standard dial cord covering 80% of the replacement demand. All types of service spools have either a fiberglas or linen core, with a nylon-braided sleeve. Each spool of cord is pre-stretched to prevent slipping; maintains proper tension after long period of use. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Dia.	Strength	Length
47 D 3194	652-Med.	.040″	35 lbs.	25 ft.
47 D 3198	656-Thin	.025″	15 lbs.	25 ft.
47 D 3199	654-Std.	.028″	20 lbs.	25 ft.

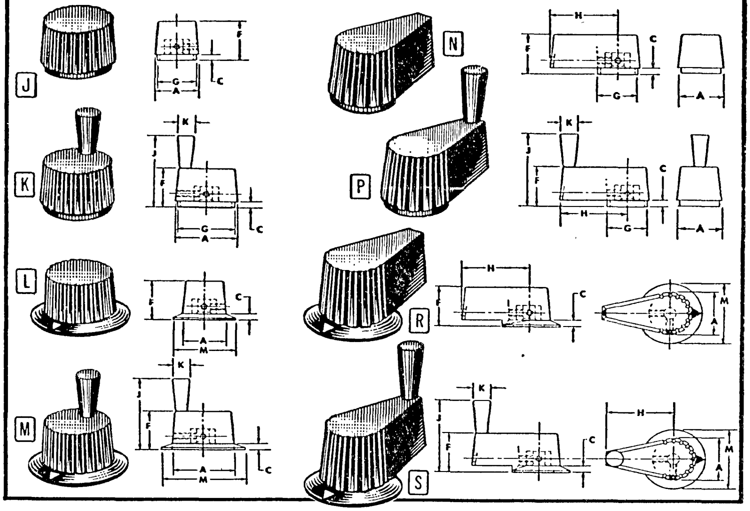
EACH .... .75

Stock No.	Mfr's Type	Dia.	Strength	Length
47 D 3197	652-Med.	.040″	35 lbs.	100 ft.
47 D 3195	656-Thin	.025″	15 lbs.	100 ft.
47 D 3196	654-Std.	.028″	20 lbs.	100 ft.

EACH 2.37

You get factory OEM prices at Allied, and prompt shipment. Order now!

RAYTHEON DESIGNER 400 SERIES KNOBS



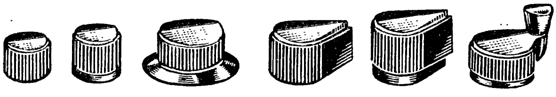
High-impact styrene control knobs. All have metal bushings, 2 set-screws. Shaft depth, 625″; ¼″ dia. shaft, except *⅛″. Types ending in "K1" are Black; "K3" Gray. 2 oz.

Stock No.	Mfr's Type	Dimensions in Inches A	C	F	G	H	J	K	M	EACH 1-99	100-199	200-499
(Figure J) ROUND DIAL—WITH SKIRT												
47 D 6458	*407R1K1	.720	.120	.813	.640	.....	.....	.....	.....	.38	.323	.304
47 D 6459	*407R1K3	.720	.120	.813	.640	.....	.....	.....	.....	.38	.323	.304
47 D 6460	407R2K1	.720	.120	.813	.640	.....	.....	.....	.....	.35	.298	.280
47 D 6461	407R2K3	.720	.120	.813	.640	.....	.....	.....	.....	.35	.298	.280
47 D 6462	*409R1K1	.875	.120	.813	.800	.....	.....	.....	.....	.40	.34	.32
47 D 6463	*409R1K3	.875	.120	.813	.800	.....	.....	.....	.....	.40	.34	.32
47 D 6464	409R2K1	.875	.120	.813	.800	.....	.....	.....	.....	.37	.314	.296
47 D 6465	409R2K3	.875	.120	.813	.800	.....	.....	.....	.....	.37	.314	.296
47 D 6466	412R2K1	1.250	.120	.813	1.170	.....	.....	.....	.....	.39	.332	.312
47 D 6467	412R2K3	1.250	.120	.813	1.170	.....	.....	.....	.....	.39	.332	.312
(Figure K) ROUND—WITH CRANK												
47 D 6468	412RC2K1	1.250	.120	.813	1.170	.....	1.540	.500	.....	.54	.459	.432
47 D 6469	412RC2K3	1.250	.120	.813	1.170	.....	1.540	.500	.....	.54	.459	.432
(Figure L) ROUND, DIAL SKIRTED												
47 D 6470	*407D1K1	.720	.120	.813	.....	.....	.....	.....	1.050	.47	.40	.376
47 D 6471	*407D1K3	.720	.120	.813	.....	.....	.....	.....	1.050	.47	.40	.376
47 D 6472	407D2K1	.720	.120	.813	.....	.....	.....	.....	1.050	.44	.374	.352
47 D 6473	407D2K3	.720	.120	.813	.....	.....	.....	.....	1.050	.44	.374	.352
47 D 6474	409D2K1	.875	.120	.813	.....	.....	.....	.....	1.270	.46	.391	.368
47 D 6475	409D2K3	.875	.120	.813	.....	.....	.....	.....	1.270	.46	.391	.368
47 D 6476	412D2K1	1.250	.120	.813	.....	.....	.....	.....	1.710	.48	.408	.384
47 D 6477	412D2K3	1.250	.120	.813	.....	.....	.....	.....	1.710	.48	.408	.384
(Figure M) ROUND, CRANK, DIAL SKIRTED												
47 D 6478	412DC2K1	1.250	.120	.813	.....	.....	1.540	.500	1.710	.63	.535	.504
47 D 6479	412DC2K3	1.250	.120	.813	.....	.....	1.540	.500	1.710	.63	.535	.504
(Figure N) BAR POINTER WITH SKIRT												
47 D 6480	407P2K1	.720	.120	.813	.640	1.120	.....	.....	.....	.39	.332	.312
47 D 6481	407P2K3	.720	.120	.813	.640	1.120	.....	.....	.....	.39	.332	.312
47 D 6482	409P2K1	.875	.120	.813	.800	1.375	.....	.....	.....	.44	.374	.352
47 D 6483	409P2K3	.875	.120	.813	.800	1.375	.....	.....	.....	.44	.374	.352
47 D 6484	412P2K1	1.250	.120	.813	1.170	2.000	.....	.....	.....	.49	.416	.392
47 D 6485	412P2K3	1.250	.120	.813	1.170	2.000	.....	.....	.....	.49	.416	.392
(Figure P) BAR POINTER—WITH CRANK												
47 D 6486	409PC2K1	.875	.120	.813	.800	1.375	1.540	.500	.....	.59	.501	.472
47 D 6487	409PC2K3	.875	.120	.813	.800	1.375	1.540	.500	.....	.59	.501	.472
47 D 6488	412PC2K1	1.250	.120	.813	1.170	2.000	1.540	.500	.....	.64	.544	.512
47 D 6489	412PC2K3	1.250	.120	.813	1.170	2.000	1.540	.500	.....	.64	.544	.512
(Figure R) BAR POINTER—WITH DIAL SKIRTED												
47 D 6490	407PD2K1	.720	.120	.813	.....	1.120	.....	.....	1.050	.48	.408	.384
47 D 6491	407PD2K3	.720	.120	.813	.....	1.120	.....	.....	1.050	.48	.408	.384
47 D 6492	409PD2K1	.875	.120	.813	.....	1.375	.....	.....	1.270	.53	.451	.424
47 D 6493	409PD2K3	.875	.120	.813	.....	1.375	.....	.....	1.270	.53	.451	.424
47 D 6494	412PD2K1	1.250	.120	.813	.....	2.000	.....	.....	1.710	.58	.493	.464
47 D 6495	412PD2K3	1.250	.120	.813	.....	2.000	.....	.....	1.710	.58	.493	.464
(Figure S) BAR POINTER—WITH CRANK AND DIAL SKIRTED												
47 D 6496	409PDC2K1	.875	.120	.813	.....	1.375	1.540	.500	1.270	.68	.578	.544
47 D 6497	409PDC2K3	.875	.120	.813	.....	1.375	1.540	.500	1.270	.68	.578	.544
47 D 6498	412PDC2K1	1.250	.120	.813	.....	2.000	1.540	.500	1.710	.73	.621	.582
47 D 6499	412PDC2K3	1.250	.120	.813	.....	2.000	1.540	.500	1.710	.73	.621	.582

RAYTHEON

Knobs, Knob and Shaft Locks, Fittings

MS91528C STANDARD CONTROL KNOBS



A B C D E F

A variety of round and pointer knob types and sizes combining strength with modern styling. Knobs are molded from top-quality, long-lasting polycarbonate resin. Each knob with anodized aluminum insert molded in for maximum strength. Two Allen-head setscrews with cup-point hold round or flatted control shafts securely. Choice of two standard finishes—a high gloss mirror finish and a uniform non-reflecting "matte" finish that conforms to MIL specifications (MS 91528 C). All for use with 1/4″ shafts except 50 Series, 1/8″ shaft size only. Types: A, Round; B, Skirted Round; C, Round Dial; D, Pointer; E, Skirted Pointer; F, Crank. *Knob diameter, excluding skirt. †Length. Av. shpg. wt., 3 oz.

50 SERIES

Stock No.	Mfr's Type	Fig.	Knob Dia.	Finish	EACH 1-99	100-199	200-499
47 D 6545	50-1-1	A	17/32″	Mirror	.51	.468	.44
47 D 6546	50-1-1G	A	17/32″	Matte	.56	.519	.488
47 D 6549	50-2-1	B	17/32″	Mirror	.59	.544	.512
47 D 6550	50-2-1G	B	17/32″	Matte	.64	.595	.56
47 D 6551	50-3-1	C	*17/32″	Mirror	.66	.612	.576
47 D 6552	50-3-1G	C	*17/32″	Matte	.72	.663	.624
47 D 6553	50-4-1	D	†11/16″	Mirror	.51	.468	.44
47 D 6554	50-4-1G	D	†11/16″	Matte	.56	.519	.488
47 D 6556	50-5-1	E	†11/16″	Mirror	.59	.544	.512
47 D 6557	50-5-1G	E	†11/16″	Matte	.64	.595	.56

70 SERIES

Stock No.	Mfr's Type	Fig.	Knob Dia.	Finish	EACH 1-99	100-199	200-499
47 D 6558	70-1-2	A	23/32″	Mirror	.64	.595	.56
47 D 6559	70-1-2G	A	23/32″	Matte	.70	.646	.608
47 D 6563	70-2-2	B	23/32″	Mirror	.73	.672	.632
47 D 6564	70-2-2G	B	23/32″	Matte	.78	.723	.68
47 D 6567	70-3-2	C	*23/32″	Mirror	.81	.748	.704
47 D 6568	70-3-2G	C	*23/32″	Matte	.86	.799	.752
47 D 6569	70-4-2	D	†13/16″	Mirror	.64	.595	.56
47 D 6570	70-4-2G	D	†13/16″	Matte	.70	.646	.608
47 D 6571	70-5-2	E	†13/16″	Mirror	.73	.672	.632
47 D 6572	70-5-2G	E	†13/16″	Matte	.78	.723	.68

90 SERIES

Stock No.	Mfr's Type	Fig.	Knob Dia.	Finish	EACH 1-99	100-199	200-499
47 D 6575	90-1-2	A	59/64″	Mirror	.68	.629	.592
47 D 6576	90-1-2G	A	59/64″	Matte	.74	.68	.64
47 D 6577	90-2-2	B	59/64″	Mirror	.76	.706	.664
47 D 6578	90-2-2G	B	59/64″	Matte	.82	.757	.712
47 D 6580	90-3-2	C	*59/64″	Mirror	.85	.782	.736
47 D 6581	90-3-2G	C	*59/64″	Matte	.90	.833	.784
47 D 6583	90-4-2	D	†1 3/8″	Mirror	.73	.672	.632
47 D 6584	90-4-2G	D	†1 3/8″	Matte	.78	.723	.68
47 D 6586	90-5-2	E	†1 3/8″	Mirror	.81	.748	.704
47 D 6587	90-5-2G	E	†1 3/8″	Matte	.86	.799	.752

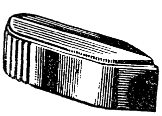
125 SERIES

Stock No.	Mfr's Type	Fig.	Knob Dia.	Finish	EACH 1-99	100-199	200-499
47 D 6589	125-1-2G	A	1 17/64″	Matte	.78	.723	.68
47 D 6590	125-2-2	B	1 17/64″	Mirror	.81	.748	.704
47 D 6591	125-2-2G	B	1 17/64″	Matte	.86	.799	.752
47 D 6594	125-3-2	C	*1 17/64″	Mirror	.88	.816	.768
47 D 6595	125-3-2G	C	*1 17/64″	Matte	.94	.867	.816
47 D 6596	125-6-2	F	†1 23/64″	Mirror	1.86	1.717	1.616
47 D 6597	125-6-2G	F	†1 23/32″	Matte	1.91	1.768	1.664

175 SERIES

Stock No.	Mfr's Type	Fig.	Knob Dia.	Finish	EACH 1-99	100-199	200-499
47 D 6598	175-1-2	A	1 49/64″	Mirror	.85	.782	.736
47 D 6599	175-1-2G	A	1 49/64″	Matte	.90	.833	.784
47 D 6600	175-2-2	B	1 49/64″	Mirror	.93	.859	.808
47 D 6601	175-2-2G	B	1 49/64″	Matte	.98	.91	.856
47 D 6602	175-3-2	C	*1 49/64″	Mirror	1.05	.969	.912
47 D 6603	175-3-2G	C	*1 49/64″	Matte	1.10	1.02	.96
47 D 6604	175-6-2	F	†2 25/64″	Mirror	2.02	1.87	1.76
47 D 6610	175-6-2G	F	†2 25/64″	Matte	2.08	1.921	1.808

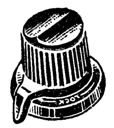
MS91528C PLASTIC BAR KNOBS



Give leverage for control of heavy detent switches. Fitted with aluminum insert that accepts standard 1/4″ control shaft. Two setscrews hold shaft securely. Size, 2 1/2″ long, 3/4″ wide and 7/8″ deep. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Finish	EACH 1-99	100-199	200-499
47 D 6537	125-7-2G	Matte	1.21	1.122	1.057
47 D 6540	125-7-2	Mirror	1.16	1.071	1.001

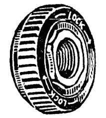
KNOB LOCK POINTER KNOB



Especially designed for easy legibility—feature pointer that curves over knob towards panel to increase accuracy in reading. Match standard series knobs at left. Constructed of sturdy, durable polycarbonate resin. In mirror finish, or non-reflective "matte," conforming to military specs. Less knob lock below. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fits Lock Type	Finish	EACH 1-99	100-199	200-499
47 D 6520	70-1LK-2	KL-701	Mirror	.86	.791	.744
47 D 6522	70-1LK-2G	KL-701G	Matte	.91	.842	.792
47 D 6524	90-1LK-2	KL-901	Mirror	.91	.842	.792
47 D 6527	125-1LK-2G	KL-1251G	Matte	1.02	.944	.888

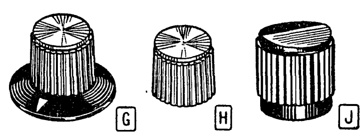
STANDARD KNOB LOCKS



Fit standard 3/8″-32 threaded shanks. Outer skirts are fabricated of tough, durable polycarbonate resin. For Series 70, 90 and 125 Fig. E and F knobs above left and for pointer knobs listed above. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fit Knob Series	Finish	EACH 1-99	100-199	200-499
47 D 6528	KL-701	70	Mirror	.71	.655	.616
47 D 6529	KL-701G	70	Matte	.76	.706	.664
47 D 6530	KL-901	90	Mirror	.81	.748	.704
47 D 6531	KL-901G	90	Matte	.86	.799	.752
47 D 6534	KL-1251	125	Mirror	.86	.791	.742
47 D 6536	KL-1251G	125	Matte	.91	.842	.794

DESIGNER SERIES KNOBS

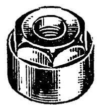


G H J

Molded black plastic knobs with spun aluminum cap inserts. "BD" in Type No. indicates knob has black dot as indicator. Meet MIL specs. Wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Shaft Size	O. D.	EACH 1-99	100-199	200-499
47 D 4101	DS70-1-2	H	.252″	.708″	.78	.718	.679
47 D 4102	DS70-1-3	H	.190″	.708″	.88	.81	.767
47 D 4103	DS70-1BD-2	H	.252″	.708″	.88	.81	.767
47 D 4105	DS70-2BD-2	J	.252″	.708″	.98	.902	.853
47 D 4106	DS70-3-2	G	.252″	.708″	.96	.883	.835
47 D 4108	DS90-1-2	H	.252″	.911″	.88	.81	.767
47 D 4113	DS90-3-2	G	.252″	.911″	1.05	.966	.914
47 D 4116	DS125-3-2	G	.252″	1.225″	1.14	1.05	.992

MOLDED-NYLON SHAFT LOCKS

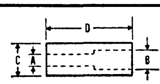


Reliable means of maintaining control settings under conditions of shock and/or vibration. Mount on control bushing, in place of the usual nut and washer. Molded nylon with nickel-plated brass insert. Threaded for 1/4″ or 3/8″ bushings. Shpg. wt., 3 oz.

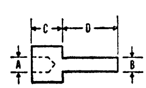
Stock No.	Mfr's Type	Thread Size	For Shaft	Color	EACH 1-99	100-199	200-499
47 D 6541	SL-100B	3/8-32	1/4″	Black	.28	.238	.224
47 D 6542	SL-101R	3/8-32	1/4″	Red	.28	.238	.224
47 D 6544	SL-105B	1/4-32	1/8″	Black	.22	.187	.176
47 D 6543	SL-110B	3/8-32	1/4″	Black	.22	.187	.176

H. H. SMITH

SHAFT FITTINGS



K



L

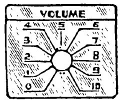
Couplings designed for extending shafts of volume controls, switches, etc., or for ganging units. Extenders for decreasing or increasing shaft diameter and length. *Insulated fiber; †Brass, nickel-plated. 1 oz.

Stock No.	Mfr's Type	Fig.	Dimensions A	B	C	D	EACH 1-9	10-49	50-99	100-499
47 D 1121	180†	K	1/8″	1/8″	9/32″	3/8″	.40	.36	.34	.30
47 D 1105	120†	K	1/4″	1/4″	7/16″	3/4″	.18	.162	.153	.135
47 D 1111	140*	K	1/4″	1/4″	7/16″	3/4″	.20	.18	.17	.15
47 D 1110	131†	K	3/8″	1/4″	1/2″	3/4″	.18	.162	.153	.135
47 D 1115	141*	K	3/8″	1/4″	1/2″	3/4″	.20	.18	.17	.15
47 D 1124	189†	L	1/8″	1/8″	1/4″	3/8″	.25	.225	.213	.188
47 D 1122	150†	L	1/4″	1/4″	1/2″	1 1/4″	.25	.225	.213	.188
47 D 1113	130*	L	1/4″	1/4″	1/2″	1 1/4″	.30	.27	.255	.225
47 D 1108	160†	L	1/4″	1/4″	1/2″	5/8″	.22	.198	.187	.165
47 D 1125	161*	L	1/4″	1/4″	1/2″	5/8″	.22	.198	.187	.165
47 D 1109	132†	L	3/8″	1/4″	1/2″	1 1/4″	.25	.225	.213	.188
47 D 1123	162†	L	3/8″	1/4″	1/2″	5/8″	.22	.198	.187	.165

Knobs, Dial Plates, Bearing Assembly, Shafts

WALDOM ACCESSORIES

SQUARE DIAL PLATES



Anodized aluminum dial plates designed especially for amplifiers and public address equipment. Polished finish; black figures and letters are deeply dyed into the extremely hard aluminum oxide surface. Require 1¼″ bar knob. Size, 2$\frac{3}{16}$″ h. x 2⅝″ w. Have $\frac{13}{32}$″ center hole. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description
47 D 3121	426	Volume, 0-10
47 D 3130	410	No title, 0-10

1-99 .... Each .34
100-Up .... Each .27

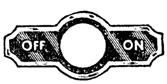
ROUND DIAL PLATES

Attractive, easy-to-read etched aluminum scale with highly polished black background. 1¾″ diameter. Type 25 has clockwise arrow labeled "Volume." Type 569, 0-100 over 180° clockwise, no label. Type 905, 0-100 over 270° clockwise, no label. For use with 1¼″ bar knobs. Diameter of center hole is $\frac{13}{32}$″. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description
47 D 3131	25	Volume (Arrow)
47 D 3135	569	0-100 (180°)
47 D 3136	905	0-100 (270°)

1-99 .... Each .28
100-Up .... Each .22

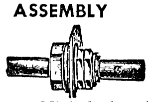
"OFF-ON" SWITCH PLATE



Economy-priced switch plate. Etched aluminum with black background. Has polished aluminum letters and border. For use with standard toggle switches mounted for horizontal operation of toggle. $1\frac{1}{16}$x$1\frac{1}{16}$″. Shpg. wt., 2 oz.

47 D 3139. Type 278. 1-99 .... Each .17
100-Up .... Each .14

H. H. SMITH PANEL BEARING ASSEMBLY



For use with either rigid or flexible couplings on panels up to ⅜″ thick, mounted away from controls, etc. Nickel-plated brass bearing has ⅜″-32 threaded shank, ½″ long. Bearing is secured to panel by hex nut supplied. ¼″ diameter shaft extends ½″ from bearing to accept a knob. Available with either 3″ or 6″ (overall length) shaft. Shpg. wt., 2 oz.

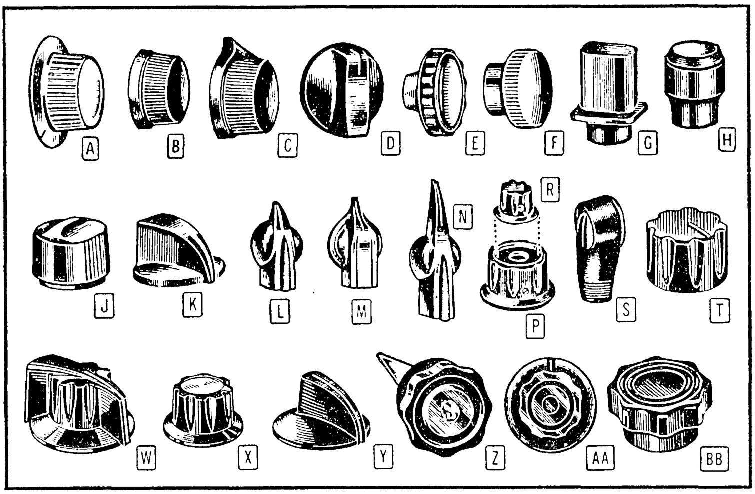
Stock No.	Overall Length	EACH 1-9	10-49	50-99	100-499
47 D 4094	3″	.33	.297	.274	.248
47 D 4095	6″	.39	.351	.324	.293
47 D 4096	Bearing	.15	.135	.125	.113

E. F. JOHNSON FLEXIBLE SHAFTS

Sturdy, non-rusting phosphor-bronze flexible shafts with universal ¼″ hubs. Excellent for connecting out-of-line shafts together to correct misalignment problems. An invaluable accessory for industrial manufacturers, Amateurs, experimenters, labs, etc. Permit up to 90 degrees angular control. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Lgth	EACH 1-49	50-99	100-499
47 D 6411	115-253	3″	.60	.524	.48
47 D 6412	115-254	6″	.86	.761	.70

HARRY DAVIES KNOBS



CONTROL, POINTER AND UTILITY KNOBS

Durable, plastic control, pointer and utility knobs. For replacement use, as well as original equipment application for radio and television sets and other equipment. Fig. B is for small radios. Figs. Z, AA and BB are high-gloss bakelite instrument knobs. Figs. T, W and X are fluted instrument knobs.

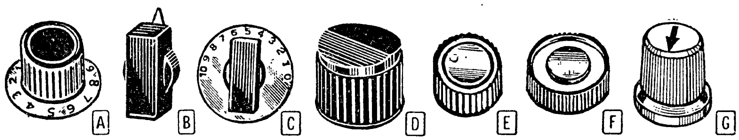
"Q" in Mfr's Type indicates stainless steel inlay. * Indicates for use with knurled shafts; † indicates ¼″ brass insert; Type 2710 screws on 8-32 threaded shaft, Type 1770-F screws on 6-32 threaded shaft; all others have set-screws for mounting on ¼″ round or flatted shafts. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Dia.	Color	EACH 1-24	25-99	100-499	500-999	1000-Up
47 D 4127	1600	A	1½″	Black	.15	.14	.122	.108	.103
47 D 4129	1610	A	$\frac{29}{32}$″	Black	.16	.13	.113	.10	.095
47 D 4134	1450	B	$\frac{11}{16}$″	Black	.09	.08	.065	.057	.055
47 D 4136	1450-D	*B	$\frac{11}{16}$″	Black	.05	.04	.038	.034	.032
47 D 4137	1475	B	1″	Black	.13	.11	.092	.082	.078
47 D 4138	1400	C	$\frac{11}{16}$″	Black	.10	.08	.065	.057	.055
47 D 4140	1470	C	1″	Black	.15	.13	.115	.10	.096
47 D 4141	1500	D	1⅛″	Black	.13	.11	.091	.084	.08
47 D 4142	1500	D	1⅛″	Red	.13	.11	.095	.088	.084
47 D 4144	2965	E	⅞″	Black	.14	.11	.094	.083	.078
47 D 4145	3000-A	E	1¾″	Black	.20	.17	.145	.137	.129
47 D 4146	2710	F	¾″	Black	.09	.07	.057	.051	.048
47 D 4166	5149-A	G	½″	Black	.07	.06	.051	.045	.043
47 D 4168	1770-F	H	$\frac{31}{64}$″	Black	.06	.05	.042	.036	.035
47 D 4170	1700	J	¾″	Black	.13	.11	.095	.085	.08
47 D 4171	1550	K	$1\frac{3}{16}$″	Black	.12	.10	.085	.076	.072
47 D 4172	2300	L	1¼″	Black	.10	.08	.07	.062	.059
47 D 4173	2300	L	1¼″	Red	.11	.09	.077	.067	.064
47 D 4174	2300-A	†L	1¼″	Black	.14	.12	.105	.098	.093
47 D 4175	2150	M	1¼″	Black	.13	.10	.09	.078	.075
47 D 4176	2350	N	2″	Black	.17	.15	.131	.122	.116
47 D 4177	2350	N	2″	Red	.18	.16	.137	.127	.121
47 D 4178	2350-A	†N	2″	Black	.22	.19	.162	.151	.144
47 D 4179	1920	R	1¼″	Black	.20	.18	.15	.14	.134
47 D 4181	1915	P-R	1¼-¾″	Blk., Red	.43	.39	.34	.30	.284
47 D 4182	1910	R	¾″	Black	.16	.15	.124	.11	.104
47 D 4184	2110	S	1⅝″	Black	.20	.18	.15	.14	.134
47 D 4156	1914-Y	T	¾″	Black	.27	.24	.203	.189	.180
47 D 4157	1919	W	1¼″	Black	.22	.20	.176	.156	.148
47 D 4159	1919	W	1¼″	Red	.24	.22	.191	.17	.16
47 D 4160	1925-Q	X	1¼″	Black	.32	.28	.24	.226	.214
47 D 4161	1925-Q	X	1¼″	Red	.34	.30	.254	.24	.226
47 D 4162	1580	Y	2″	Black	.74	.69	.585	.52	.496
47 D 4163	1580	Y	2″	Red	.78	.73	.62	.55	.522
47 D 4117	4100-Q	Z	1⅛″	Black	.37	.33	.278	.262	.25
47 D 4119	4102-BD	Z	1⅝″	Black	.41	.36	.302	.284	.27
47 D 4120	4103-W	Z	2⅜″	Black	.54	.48	.408	.38	.364
47 D 4121	4100	BB	1⅛″	Black	.24	.21	.18	.17	.161
47 D 4123	4102	BB	1⅝″	Black	.29	.25	.214	.202	.19
47 D 4124	4103	BB	2⅜″	Black	.42	.37	.312	.292	.278
47 D 4125	4104	AA	1½″	Black	.45	.40	.34	.32	.304
47 D 4126	4108	AA	$2\frac{1}{16}$″	Black	.56	.49	.42	.394	.374
47 D 4151	4106	AA	1½″	Black	.45	.40	.34	.32	.304
47 D 4152	4107	AA	1¾″	Black	.47	.41	.352	.33	.314
47 D 4153	4109	AA	3″	Black	.75	.65	.56	.525	.50

Allied Has the World's Largest Inventory of Electronic Components

NATIONAL Components

ALL-PURPOSE KNOBS

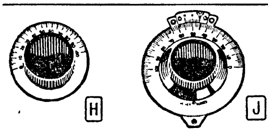


Choose from various sizes and styles. Enhance appearance of test instruments, receivers, etc. Useful for experimenters. Well-suited for production-line use. Deeply knurled for sure grip, except Types HRP and R, smooth knobs. Made of Tenite, except Types HRP-P and R, bakelite; HRM, satin-chromed brass. HRS Types have $\frac{7}{16}$″ chrome dial. Type R has $1\frac{5}{8}$″ aluminum dial. *Black, †gray.

Stock No.	Mfr's Type	Fig.	Description	Knob Dia.	EACH 1-49	50-99	100-199	200-499	500-999
47 D 2106	HRS-3*	A	300° 0-10 scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2107	HRS-3†	A	300° 0-10 scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2125	HRS-4*	A	1-line scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2126	HRS-4†	A	1-line scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2128	HRS-5*	A	0-10 180° scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2129	HRS-5†	A	0-10 180° scale	$1\frac{7}{16}$″	.66	.627	.594	.528	.495
47 D 2135	HRP-P*	B	Pointer	$1\frac{1}{4}$x$\frac{1}{2}$″	.44	.418	.396	.352	.33
47 D 2136	R*	C	180° 0-10 scale	$1\frac{5}{8}$″	.69	.656	.621	.552	.518
47 D 2176	HR*	E	White dot	$\frac{15}{16}$″	.39	.371	.351	.312	.293
47 D 2177	HR†	E	White dot	$\frac{15}{16}$″	.39	.371	.351	.312	.293
47 D 2178	HRT*	F	Chrome insert	$2\frac{1}{8}$″	1.04	.988	.936	.832	.78
47 D 2180	HRM*	G	Arrow	$\frac{5}{8}$″	.96	.912	.864	.768	.72

F **HRT-M Miniature Knob.** Smaller version of HRT knob, above. Made of black tenite with a chrome-plated circle that enhances appearance. Face-to-back size, $\frac{27}{32}$″; knob dia., $1\frac{1}{2}$″. Fastens to $\frac{1}{4}$″ shaft with two 8-32 slotted head set-screws at 90°.
47 D 2185. 1-49..............Each .58 50-99..............................Each .551
100-199......Each .522 200-499......Each .464 500-999..................Each .435

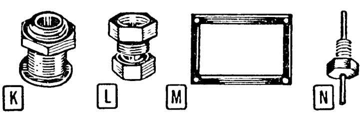
CALIBRATED DIALS



Planetary drive dials that are smooth performing, dependable and attractive. Recommended for all types of equipment. Knobs are black bakelite, with dials of nickel-plated brass. Type N dial has a vernier scale. Type AM dials have dial pointer. Type N are $1\frac{3}{8}$″ deep; Type AM, $1\frac{7}{16}$″ deep. For $\frac{1}{4}$″ shafts.

Stock No.	Mfr's Type	Fig.	Ratio	Scale	Dia.	EACH 1-49	50-99	100-199	200-499	500-999
47 D 2113	AM-2	H	5:1	0-100; 180°	3″	5.25	4.99	4.73	4.20	3.94
47 D 2150	AM-5	H	5:1	200-0; 360°	3″	5.25	4.99	4.73	4.20	3.94
47 D 2151	AM-6	H	5:1	0-150; 270°	3″	5.25	4.99	4.73	4.20	3.94
47 D 2000	N-2	J	5:1	0-100; 180°	4″	12.68	12.05	11.41	10.14	9.51

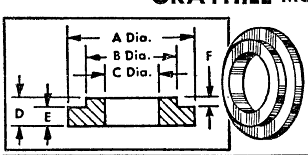
EQUIPMENT-DESIGN COMPONENTS



Selection of high-quality components for industrial, commercial and consumer design applications. Type SB bushing is made of nickel-plated brass. SL shaft lock is popular component for use with potentiometers, capacitors, etc. CFA frame is $\frac{1}{16}$″ thick, heavy-duty steel. TPB is a threaded-through point bushing constructed entirely of polystyrene; gives long, trouble-free service. Has removable through-point conductor molded in. Overall length is $1\frac{7}{16}$″ including conductor; conductor extends $\frac{29}{64}$″ beyond threaded portion on both sides; length of threaded portion, including shoulder, $\frac{17}{32}$″.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-49	50-99	100-199	200-499
47 D 2017	SB	K	Panel Bushing for $\frac{1}{4}$″ Shafts	.27	.257	.243	.216
47 D 2018	SL	L	Shaft Lock for $\frac{1}{4}$″ Shafts	.40	.38	.36	.32
47 D 2161	CFA	M	Chart frame; $2\frac{1}{4}$x$3\frac{1}{4}$″	.40	.38	.36	.32
47 D 2167	TPB	N	Threaded Polystyrene Bushing	.08	.076	.072	.064

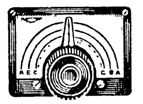
GRAYHILL MOLDED INSULATING WASHERS



Rugged, black electrical grade phenolic. Highly resistant to moisture absorption; do not support fungus growth. Have high dielectric strength. Available in a variety of commonly used sizes. Hole diameter is shown under "Dia. C" heading in table below; shoulder diameter, under "Dia. B"; various thicknesses under "Dim. D, E and F" in tabular headings.

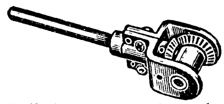
Stock No.	Mfr's Type	Screw Size	Dia. A	Dia. B	Dia. C	Dim. D	Dim. E	Dim. F	PKG. OF 10 1-49	50-99
47 D 5239	21B1001-2	#6	.500″	.375″	.145″	.094″	.063″	.031″	1.00	.80
47 D 5240	21B1002-2	#8	.500″	.375″	.171″	.094″	.063″	.031″	1.00	.80
47 D 5241	21B1003-2	#10	.500″	.375″	.198″	.094″	.063″	.031″	1.00	.80
47 D 5242	21B1004-2	$\frac{1}{4}$″	.500″	.375″	.258″	.094″	.063″	.031″	1.00	.80
47 D 5243	21B1005-2	$\frac{5}{16}$″	.500″	.375″	.319″	.094″	.063″	.031″	1.00	.80
47 D 5244	21B1006-2	$\frac{3}{8}$″	.625″	.500″	.384″	.094″	.063″	.031″	1.00	.80
47 D 5245	21B1021-2	#6	.375″	.250″	.145″	.094″	.063″	.031″	1.00	.80
47 D 5246	21B1022-2	#4	.375″	.250″	.117″	.094″	.063″	.031″	1.00	.80

TYPE MCN VERNIER DIAL FOR INDIVIDUAL CALIBRATION



A deluxe, compact, 3-scale vernier dial. Ideal for limited space applications in mobile equipment, small receivers, tuners, test instruments, etc. Offers three blank calibrating scales and 0-100 logging scale. Utilizes "Velvet Vernier" drive for smooth, back lash-free tuning. Drive ratio is 5:1. Size: $2\frac{3}{4}$x$3\frac{7}{8}$″. With extra scales, hardware, hub for $\frac{1}{4}$″ shafts.
47 D 2171..........................7.20

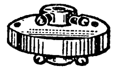
RIGHT-ANGLE DRIVES



Type RAD. Controls variable capacitors, pots, at right angles to front panel. Saves space. Will drive two units. Aluminum housing/gears. $2\frac{1}{2}$x$\frac{1}{4}$″ shaft.
47 D 2173..........................4.31

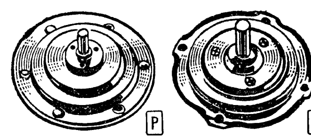
Type PRAD. Above, but deluxe model with brass gears. For remote operation of tuning capacitors, etc. Used for continuous operation at low speeds. Backlash under $1\frac{1}{2}$%. $\frac{1}{4}$″ shaft $2\frac{1}{2}$″ long.
47 D 2174..........................23.15

TYPE TX-9 SHAFT COUPLING



Compact coupling for joining two shafts together. Ruggedly constructed of rigid steatite; won't stretch or twist. Performance-proved in industrial, commercial and Amateur installations. Fully insulated. Has hubs and spiders of solid, nickel-plated brass. Includes two set-screws on each hub for firm, positive grip on shaft. Size, $1\frac{5}{8}$″ diameter. Fits all $\frac{1}{4}$″ shafts.
47 D 2008. 1-49..............Each 1.80
50-99......Each 1.71 100-199..Each 1.62
200-499....Each 1.44 500-999..Each 1.35

RUGGED PLANETARY DIAL-DRIVE MECHANISMS

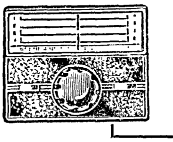


P **Type AN-250.** Planetary vernier tuning mechanism. The ouptut shaft coupling is fully insulated. Drive ratio is 5:1—five turns of the knob for each revolution of the drive. Output torque is one to three inch-pounds. Drive shaft is $\frac{1}{4}$″. Output coupling fits a $\frac{1}{4}$″ shaft, which is secured by means of two set-screws 90° apart on the coupling hub. Overall diameter, $2\frac{15}{32}$″; overall length, $1\frac{19}{32}$″; length, front of drive shaft to back of mounting plate, $1\frac{1}{16}$″. Unit quickly and easily mounts front of panel—includes three $\frac{1}{8}$″ mounting holes.
47 D 2023..........................3.75

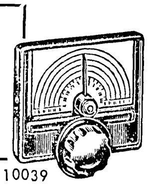
R **Type AVD-250.** Planetary vernier tuning mechanism. The output shaft coupling is non-insulated. Drive ratio is 5:1. Output torque is 1-3 inch-pounds. Drive shaft for $\frac{1}{4}$″ knobs. Output coupling takes a $\frac{1}{4}$″ shaft—two set screws supplied. Overall diameter, $2\frac{9}{16}$″; overall length, $1\frac{15}{32}$″; length from front of drive shaft to back of mounting plate, 1″. Rapidly mounts on the front of any equipment panel by means of the four $\frac{5}{32}$″ holes.
47 D 2025..........................2.63

Electronic and Mechanical Components

MILLEN COMPONENTS FOR PROTOTYPE, REPLACEMENT AND ORIGINAL EQUIPMENT



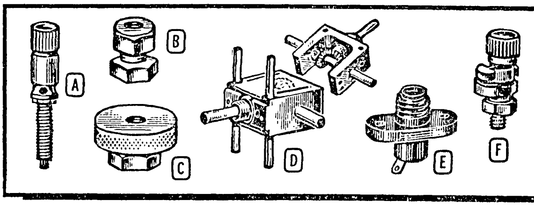
SERIES 10030 STANDARD AND MINIATURE MULTI-SCALE PANEL DIALS



10035   10039

Type 10035 Multi-Scale Dial. A deluxe-type illuminated slide-rule dial. Ideal for use in various types of electronic equipment such as Amateur receivers, VFO's, etc. Two built-in pilot lights provide even illumination over dial. Unit is self-contained. Large finger-grip knob control. Has 12 to 1 drive-ratio. Has 4 blank scales for calibration and one 0-100 logging scale. Cardboard scale supplied can be used on both sides. Clear plastic dial window. Ample panel space is provided for mounting and marking two auxiliary controls, such as switches, potentiometers, etc. Size, 8½x6½″. In handsome standard black finish.
47 D 3241 .... 9.24

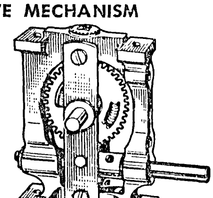
Type 10039 Midget Panel Dial. Economy model. Excellent for use in small transmitters, receivers and measurement equipment. Drive ratio is 8 to 1. Totally self-contained mechanism eliminates back-of-panel interference; permits quick, easy installation. Has 5 blank scales for calibration and one 0-100 logging scale. Attractive black finish. Size, 4x3¼″.
47 D 3242 .... 6.30



Form dimensions indicate diameters and winding lengths. Series 10061, 10062, and A061 shaft locks convert any control to locking-shaft type. Series 80070 cathode-ray bezels have satin-black finish, neoprene cushions and green lucite filters. *Not illustrated.

No.	Type	Fig.	Description	EA.
47 D 3220	10012	E	Right Angle Drive	5.85
47 D 3221	10050	G	Dial Lock	.54
47 D 3222	10061	C	Shaft Lock, for ⅜″ Bushing; ¼″ shafts	.40
47 D 3223	A061	C	Shaft Lock for ¼″ Bushing; ⅛″ shafts	.39
47 D 3224	10062	D	Shaft Lock with Knurled Nut, for ¼″ shafts	.54
47 D 3225	37001	F	High Voltage Terminal and Thru-Bushing Black	.45
47 D 3226	37001	F	High Voltage Terminal and Thru-Bushing, Red	.48
47 D 3229	37222	B	Binding Post	.30
47 D 3230	69046	A	Ceramic Slug-tuned Coil Form, ½x1 1/16″, Iron Slug	.68
47 D 3235	74400	*	Octal Base and Shield, 1 7/16x1⅞x3 15/16″	1.40
47 D 3239	80073	*	Bezel, Cushion and Filter for 3″ CR Tube	4.35

WORM DRIVE MECHANISM



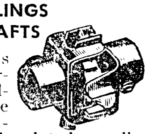
Ruggedly constructed drive mechanism offering a 16-to-1 step-down ratio. Rugged cast-aluminum frame is drilled for secure mounting on either panel or chassis base. Spring-loaded nickel-plated brass gears work with polished stainless-steel worm to provide smoothest operation and minimum of back lash. ¼″ left and right-hand shafts. Size, 3x2x⅜″.
47 D 3216 .... 12.00

39000 FLEXIBLE SHAFT COUPLINGS

39001 is an insulated, universal joint. 39006, "slide-action" coupling for longitudinal and eccentric shaft motion, out-of-line operation, and angular drive without backlash. 39005 (high torque) similar to 39001 but not insulated. 39016 (illus.). All resist mechanical shock. For ¼″ shafts.

Stock No.	Type	Description	EACH
47 D 3208	39001	Universal joint	.60
47 D 3209	39002	Fixed joint	.60
47 D 3212	39005	Universal joint	.60
47 D 3213	39006	Slide action	.60
47 D 3214	39016	Barrier	.60

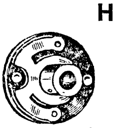
MINIATURIZED COUPLINGS FOR ⅛″ AND ¼″ SHAFTS



Type M006 (illustrated) is universal joint style, sturdily constructed of nickel-plated brass with steatite insulation and spring fingers. Type M008 is an insulated coupling with brass inserts; completely isolates shaft from panel. Type 39003 is a solid brass coupling for all ¼″ shafts; Type M006 and Type M008 are for use with ⅛″ shafts.

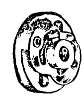
Stock No.	Type	Description	EACH
47 D 3205	M006	Univ. joint coupling	.84
47 D 3206	M008	Insulated coupling	.54
47 D 3207	39003	Solid brass coupling	.24

HAMMARLUND SLIP-PROOF COUPLINGS



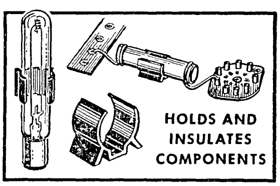
For coupling drive shafts to capacitors, gang switches, controls, etc. Hubs drilled to fit standard ¼″ shafts. Electrically insulates shaft from extension and chassis.
47 D 2405 .... .53

Type FC-46-S. Sturdy, slip-proof. Eliminates backlash. High resistance to mechanical shock. Has 4 set-screws (2 on each side). For standard ¼″ dia. shafts. Shaft clearance, 5/32″. Steatite insulation; flash voltage rating, 5000 volts. Size, 1¼″ dia. x 13/16″.
47 D 2403 .... 1.50



Type FNC-46-S. As left, but non-insulated. Heavy-duty. Maintains firm, slip-proof grip. Flexible arms handle out-of-line or eccentric shaft motion. For ¼″ dia. shafts. 1¼″ dia. by 23/32″.
47 D 2404 .... 1.20

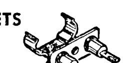
RICHCO PLASTIC COMPONENT CLIPS



High-dielectric, vinyl clips designed to hold and provide insulation for capacitors, resistors, batteries, fuses. Available in 12 sizes for parts with diameters from ¼″ to 1⅜″. V-1000 to V-1006 have one 3/32″ mtg. hole; V-1007 to V-1009 have one 5/32″ hole; V-1010 and V-1011 have two 5/32″ holes, ¾″ apart. All are ½″ long, except V-1010 and V-1011 which are 1⅛″ long. *In table heading below, D indicates diameter of part to be held.

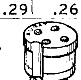
Stock No.	Mfr's Type	D*	PKG. OF 10 1-9	10-49	50-99
47 D 5223	V-1000	¼″	.29	.259	.239
47 D 5224	V-1001	5/16″	.29	.264	.243
47 D 5225	V-1002	⅜″	.30	.269	.248
47 D 5226	V-1003	7/16″	.30	.274	.253
47 D 5227	V-1004	½″	.31	.28	.259
47 D 5228	V-1005	9/16″	.31	.287	.264
47 D 5229	V-1006	⅝″	.32	.293	.27
47 D 5230	V-1007	11/16″	.35	.321	.296
47 D 5231	V-1008	¾″	.36	.331	.305
47 D 5232	V-1009	⅞″	.37	.34	.314
47 D 5233	V-1010	1″	.43	.391	.36
47 D 5235	V-1011	1⅜″	.49	.441	.407

AUGAT CRYSTAL AND TRANSISTOR SOCKETS



Resists vibration; permits easy crystal insertion and removal. Take HC-6/U, HC-13/U crystals, except *HC-18/U. †Anti-rotation tab.

Stock No.	Mfr's Type	Description	Insul.	EACH 1-99	100-499	500-999	1000-4999
47 D 6149	8000-AG2	Horiz. or	Teflon	.70	.65	.60	.47
47 D 6150	8000-AG6	vert. mtg.	Nylon	.40	.36	.32	.29
47 D 6151	8000-AG3†	Horiz.	Teflon	.70	.65	.60	.47
47 D 6152	8000-AG7†	PC mtg.	Nylon	.40	.36	.32	.29
47 D 6154	8000-DG1†	PC mtg. rd.	Teflon	1.00	.95	.88	.82
47 D 6155	8000-DG2	con. tails	Nylon	1.00	.95	.88	.82
41 D 6156	8000-IG1*†	Horiz.	Teflon	.65	.60	.55	.42
41 D 6157	8000-IG5*†	mtg.	Nylon	.37	.33	.29	.26
47 D 6158	8000-IG3*†	PC	Teflon	.65	.60	.55	.42
47 D 6159	8000-IG7*†	mtg.	Nylon	.37	.33	.29	.26



Miniature Teflon transistor sockets for TO-18 cases. Contacts beryllium copper closed entry type, gold or silver plated. .256″ max. dia. Pin circle, .140″ max. dia.

Stock No.	Type 8060-	No. Cont.	Contact Type	Pkg. of 5, EACH 1-19	20-99	100-199	200-999
47 D 6160	IG3	3	Printed circuit	3.10	2.65	2.20	2.10
47 D 6161	IG4	4	Printed circuit	3.60	3.15	2.70	2.60
47 D 6162	IG7	3	Printed circuit	3.10	2.65	2.20	2.10
47 D 6163	IG8	4	Printed circuit	3.60	3.15	2.70	2.60
47 D 6164	IG9	3	Turret	3.10	2.65	2.20	2.10
47 D 6165	IG10	4	Turret	3.60	3.15	2.70	2.60

TRANSFORMERS FOR INDUSTRY

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QUICK INDEX BY TYPE NUMBER OF MAJOR TRANSFORMER LINES

KNIGHT®

(OEM Prices Apply to Any Quantity Ordered)

Allied Electronics is your exclusive distributor for Knight transformers. Built to Allied's own rigid standards of quality, stability and performance, they carry a one full year warranty against defects in workmanship. You'll find a Knight transformer to meet virtually any need.

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CHICAGO-STANCOR

(OEM Prices to any Quantity)

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(OEM Prices to 249 Pieces)

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UTC (UNITED TRANSFORMER CORP.)

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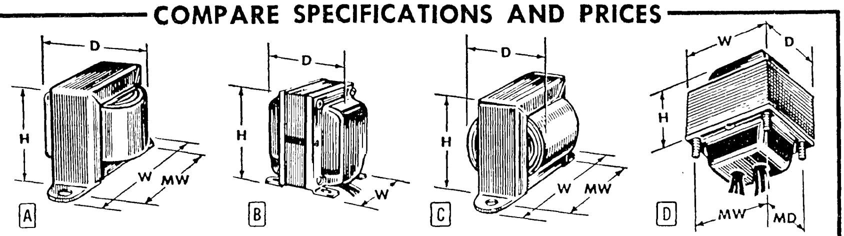
Allied supplies the complete line of every transformer and coil manufacturer listed in this section. Phone, wire or write the Allied facility nearest you for full information, price and delivery on types not shown.

Allied's Own *knight*® Transformers

COMPARE SPECIFICATIONS AND PRICES



Knight transformers are specially built to Allied's high standards for quality, stability and performance. Quantities of 100 to 499 are shipped bulk-packed. Phone, wire or write Allied Electronics for O.E.M. pricing on quantities of 500 and up.

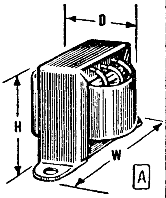
POWER TRANSFORMERS

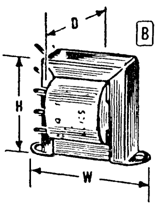
Quality power transformers for new equipment or replacement use. Shielded (except#) with 8″ flexible coded leads. Plate windings center-tapped except *half-wave type. Center-tapped 6.3-v. windings except †not center-tapped. ‡Electrostatic shield. **22.5 v. at 0.5 amp winding. Primaries 110-120 v., 50-60 cycle, except §60 cycle only. ††2 mtg. bolts in ctr. of lamination, no bottom cover.

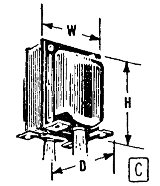
Stock No.	Fig.	Plate VCT	Plate Ma	5 V Amps	6.3 V Amps	Case Size HxWxD	Mtg. Size MWxMD	Wt. Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 3710	A‡	115*	15	....	0.6†	1 11/16x2 13/16x1 3/4″	2 3/8″	1	4.59	4.06	3.75	2.86	2.61
54 D 1410	C#	125*	15	....	0.6†	2x2 3/8x1 5/8″	2″	1/2	2.18	1.93	1.79	1.36	1.24
54 D 1411	A#	125*	50	....	2.0†	2 5/16x3 11/16x2 1/4″	3 1/8″	1 1/2	3.53	3.12	2.89	2.20	2.01
54 D 3709	D‡††	135*	15	....	0.9†	1 11/16x1 7/8x1 9/16″	1 1/4″	1	4.28	3.78	3.50	2.68	2.44
54 D 3708	D‡§	135*	200	....	5.5	2 1/8x3 3/8x2 13/16″	2 13/16x2 1/4″	3 1/2	7.97	7.05	6.53	4.98	4.54
54 D 4720	B	230	40	....	1.5	2 3/4x2 9/32x2 1/2″	1 3/4x1 5/8″	1 1/2	5.97	5.28	4.89	3.73	3.40
54 D 2008	C#	250	25	....	1.0†	2 3/8x2 7/8x1 7/8″	2 3/8″	1	2.62	2.32	2.15	1.74	1.49
54 D 2318	C#	380*	20	....	....	2 3/8x2 7/8x2 1/16″	2 3/8″	1 1/2	3.28	2.90	2.68	2.05	1.87
54 D 3706	B**	440	50	....	0.6†	3 1/8x2 5/8x2 11/16″	2x1 11/16″	2 3/4	6.46	5.72	5.29	4.04	3.68
54 D 2502	D	460	50	....	2.5†	1 3/4x3x2 1/2″	2 1/2x2″	2 3/4	4.71	4.17	3.86	2.94	2.68
54 D 1461	B	460	50	....	2.5†	3 3/16x2 5/8x2 11/16″	2x1 3/4″	2 3/4	4.71	4.17	3.86	2.94	2.68
54 D 2034	D	480	40	2	2.0	1 13/16x3x2 1/2″	2 1/2x2″	3	5.10	4.51	4.17	3.19	2.91
54 D 1427	B	480	40	2	2.0	3 3/16x2 5/8x2 3/4″	2x1 11/16″	3	5.10	4.51	4.17	3.19	2.91
54 D 2503	D	480	55	2	2.0	1 3/4x3x2 1/2″	2 1/2x2″	3	5.71	5.06	4.68	3.56	3.25
54 D 1462	B	480	55	2	2.0	3 3/16x2 5/8x2 11/16″	2x1 3/4″	3	5.71	5.06	4.68	3.56	3.25
54 D 2504	D	480	70	....	3.0†	1 7/8x3x2 1/2″	2 1/2x2″	3	5.39	4.77	4.41	3.36	3.07
54 D 1463	B	480	70	....	3.0†	3 3/16x2 5/8x2 15/16″	2x1 7/8″	3	5.39	4.77	4.41	3.36	3.07
54 D 2505	B	500	40	2	2.0	3 3/16x2 5/8x2 11/16″	2x1 11/16″	3	5.35	4.73	4.38	3.34	2.95
54 D 2550	D	500	40	....	2.0	1 3/4x2 5/8x2 3/16″	2 3/16x1 3/4″	2 1/4	5.19	4.59	4.25	3.24	2.95
54 D 2551	B	500	40	....	2.0	2 3/4x2 1/4x2 3/4″	1 25/32x1 7/8″	2 1/4	5.19	4.59	4.25	3.24	2.95
54 D 2506	D	500	70	2	2.5	2 1/8x3x2 1/2″	2 1/2x2″	3 1/2	6.22	5.51	5.10	3.89	3.55
54 D 1464	B	500	70	2	2.5	3 3/16x2 5/8x3 1/8″	2x2 1/8″	3 1/2	6.22	5.51	5.10	3.89	3.55
54 D 2507	D	520	90	....	4.0†	2 1/16x3 3/8x2 13/16″	2 13/16x2 1/4″	3 3/4	6.28	5.55	5.14	3.91	3.57
54 D 1465	B	520	90	....	4.0†	3 9/16x2 15/16x3 3/16″	2 1/4x2 1/16″	3 3/4	6.28	5.55	5.14	3.91	3.57
54 D 1444	D	520	90	2	3.0	2 3/8x3 3/8x2 13/16″	2 13/16x2 1/4″	4	6.46	5.72	5.29	4.04	3.68
54 D 1412	B	520	90	2	3.0	3 5/8x3x3 1/2″	2 1/4x2 1/4″	4	6.46	5.72	5.29	4.04	3.68
54 D 4722	D	525	90	2	5.0	2 9/16x3 3/8x2 13/16″	2 13/16x2 1/4″	4 1/2	9.74	8.61	7.97	6.08	5.54
54 D 2554	B	525	90	2	5.0	3 5/8x3x3 5/8″	2 1/4x2 1/2″	4 1/2	9.74	8.61	7.97	6.08	5.54
54 D 2509	D	540	120	3	3.5	2 1/4x3 3/4x3 1/8″	3 1/8x2 1/2″	5	9.06	8.02	7.42	5.66	5.16
54 D 1466	B	540	120	3	3.5	3 15/16x3 1/4x3 1/2″	2 1/2x2 1/4″	5	9.06	8.02	7.42	5.66	5.16
54 D 1467	D	550	50	2	2.5	2 5/16x3x2 1/2″	2 1/2x2″	3 3/4	7.06	6.25	5.78	4.41	4.02
54 D 3704	B‡§	600	65	....	2.7	3 1/8x2 5/8x2 11/16″	2x1 11/16″	2 3/4	7.92	7.00	6.48	4.95	4.51
54 D 1468	D	600	70	2	3.0	2 1/4x3x2 1/2″	2 1/2x2″	3 3/4	7.74	6.84	6.33	4.81	4.39
54 D 4725	B	600	70	2	3.0	3 3/16x2 5/8x3 1/4″	2x2 3/16″	3 3/4	7.74	6.84	6.33	4.81	4.39
54 D 2519	D	600	90	2	3.5	2 3/8x3 3/8x2 13/16″	2 13/16x2 1/4″	4 1/4	8.03	7.10	6.57	5.01	4.57
54 D 2523	B	600	90	2	3.5	3 9/16x2 15/16x3 11/16″	2 1/4x2 1/4″	4 1/4	8.03	7.10	6.57	5.01	4.57
54 D 1469	D	600	120	3	5.0	2 5/8x3 3/4x3 1/8″	3 1/8x2 1/2″	6	9.50	8.40	7.78	5.94	5.42
54 D 2526	B	600	120	3	5.0	3 15/16x3 1/4x3 7/8″	2 1/2x2 9/16″	6	9.50	8.40	7.78	5.94	5.42
54 D 2041	D	650	40	2	2.0	1 11/16x3x2 1/2″	2 1/2x2″	2 1/2	5.30	4.69	4.34	3.31	3.02
54 D 1413	B	650	40	2	2.0	3 3/16x2 5/8x2 11/16″	2x1 11/16″	2 1/2	5.30	4.69	4.34	3.31	3.02
54 D 2528	D	650	55	2	2.0	2 1/8x3x2 1/2″	2 1/2x2″	3 1/2	6.04	5.35	4.95	3.78	3.44
54 D 1470	B	650	55	2	2.0	3 3/16x2 5/8x3 1/8″	2x2 1/16″	3 1/2	6.22	5.51	5.10	3.89	3.55
54 D 2042	D	650	70	3	3.5	2 7/8x3x2 1/2″	2 1/2x2″	4 1/4	5.19	4.59	4.25	3.24	2.95
54 D 1428	B	650	70	3	3.5	3 13/16x2 5/8x3 3/4″	2x2 3/4″	4 1/4	5.19	4.59	4.25	3.24	2.95
54 D 1471	D	650	150	3	5.0	3x3 3/4x3 1/8″	3 1/8x2 1/2″	7 1/2	9.59	8.48	7.85	5.99	5.46
54 D 4730	B	650	150	3	5.0	3 15/16x3 1/4x4 1/4″	2 1/2x3″	7 1/2	9.59	8.48	7.85	5.99	5.46
54 D 3703	B	650	150	3	5.0†	3 7/8x3 1/4x3 13/16″	2 1/2x2 9/16″	6	9.97	8.82	8.17	6.23	5.68
54 D 2532	D	680	70	2	2.5	2 3/16x3 3/8x2 13/16″	2 13/16x2 1/4″	4	7.32	6.47	5.99	4.58	4.17
54 D 1472	B	680	70	2	2.5	3 9/16x2 15/16x3 5/16″	2 1/4x2 3/16″	4	7.32	6.47	5.99	4.58	4.17
54 D 2043	D	700	90	3	3.5	2 1/2x3 3/8x2 13/16″	2 13/16x2 1/4″	4 1/4	7.32	6.47	5.99	4.58	4.17
54 D 1429	B	700	90	3	3.5	3 9/16x2 15/16x3 9/16″	2 1/4x2 3/8″	4 1/4	7.32	6.47	5.99	4.58	4.17
54 D 2044	D	700	120	3	4.7	2 3/4x3 3/4x3 1/8″	3 1/8x2 1/2″	5 3/4	8.59	7.60	7.03	5.36	4.89
54 D 1430	B	700	120	3	4.7	3 15/16x3 1/4x3 15/16″	2 1/2x2 11/16″	5 3/4	8.59	7.60	7.03	5.36	4.89
54 D 2534	D	700	200	3	6.0	2 3/4x4 1/2x3 3/4″	3 3/4x3″	8	12.92	11.43	10.58	8.08	7.36
54 D 2535	B	700	200	3	6.0	4 5/8x3 7/8x4″	3x2 13/16″	8	12.92	11.43	10.58	8.08	7.36
54 D 2045	D	750	150	3	5.0	3 1/16x3 3/4x3 1/8″	3 1/8x2 1/2″	6 1/2	10.88	9.63	8.91	6.80	6.20
54 D 1431	B	750	150	3	5.0	3 15/16x3 1/4x4 3/8″	2 1/2x3 1/16″	6 1/2	10.88	9.63	8.91	6.80	6.20
54 D 2552	D	750	175	3	8.0	2 15/16x4 1/8x3 7/16″	3 7/16x2 3/4″	9 1/2	13.38	11.83	10.95	8.36	7.63
54 D 2553	B	750	175	3	8.0	4 1/4x3 1/2x4 3/8″	2 3/4x3 5/16″	9 1/2	13.38	11.83	10.95	8.36	7.63
54 D 3702	B‡	800	30	2	1.2†, 1.2†	3 1/8x2 5/8x3 3/16″	2x2 3/16″	3 1/2	9.61	8.50	7.86	6.00	5.47
54 D 2033	D	800	200	3	5.0	2 7/8x4 1/2x3 3/4″	3 3/4x3″	8	11.56	10.22	9.46	7.19	6.56
54 D 1414	B	800	200	3	5.0	4 5/8x3 7/8x4 1/16″	3x2 13/16″	8	11.56	10.22	9.46	7.19	6.56
54 D 2547	D	800	250	4	5.0	3 3/16x4 1/2x3 3/4″	3 3/4x3″	10 1/4	13.65	12.08	11.18	8.53	7.77
54 D 2548	B	800	250	4	5.0	4 5/8x3 7/8x4 3/8″	3x3 5/16″	10 1/4	13.65	12.08	11.18	8.53	7.77
54 D 3701	B‡§	900	250	4	2, 4†	4 5/8x3 7/8x4 11/16″	3x3 9/16″	12	17.20	15.21	14.08	10.76	9.82
54 D 1473	B	1200	200	3	3†, 3†	2 15/16x4 1/2x3 3/4″	3 3/4x3″	9 1/2	14.38	12.72	11.77	9.00	8.21
54 D 2549	D	1200	200	3	3†, 3†	4 5/8x3 7/8x4 1/4″	3x3 1/16″	9 1/2	14.38	12.72	11.77	9.00	8.21
54 D 3700	B§	1840	250 ind.; 200 cap.			4 5/8x3 7/8x5 1/16″	3x3 15/16″	13	15.98	14.14	13.08	9.99	9.11

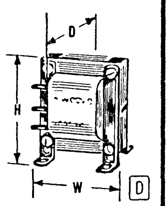
knight Filament and Control Transformers

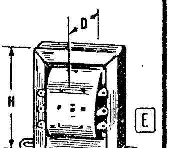
Allied's own line of top quality transformers. Compare prices and specs—you're dollars ahead with Knight transformers. Send us your specifications—let Allied handle your transformer needs.

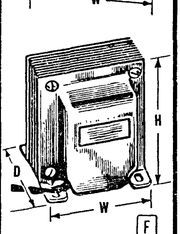


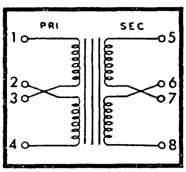












SCHEMATIC CONTROL TRANSFORMERS

FILAMENT TRANSFORMERS

Continuous duty. Primaries for 115-125 volt, (except §6.3 v.). Type with ** has tapped primary to produce lower voltages. 50-60 cycle input. All center-tapped except †. Types with * have primary tap for 107-volt operation. Types with ‡ have an electrostatic shield. †† multiple secondary—one winding center-tapped.

Stock No.	Fig.	V	Amps	Insul., RMS V	Size (HxWxD)	Mtg. Ctrs.	Wt. Lbs.	EACH 1-9	10-49	50-99	Bulk Packed 100-249	250-499
54 D 3712	A	2.5†	1.5	2500	1 11/16x2 13/16x1 9/16"	2 3/8"	.7	2.91	2.58	2.38	1.82	1.65
54 D 4132	A	2.5	3.0	1500	1 11/16x2 13/16x1 7/8"	2 3/8"	.7	2.69	2.38	2.21	1.69	1.54
54 D 1478	B	2.5	5.0	5000	2 3/4x3 1/8x2 1/8"	2 13/16"	1.75	3.68	3.25	3.01	2.30	2.10
54 D 3711	B	2.5*	10.0	7500	3 1/8x3 9/16x3"	3 1/8"	2.5	4.08	3.61	3.34	2.55	2.33
54 D 1474	C	2.5	10.0	2500	3 3/16x2 5/8x2 11/16"	2x1 11/16"	2.75	4.97	4.40	4.07	3.10	2.83
54 D 4133	A	2.5	10.0	3000	2 3/8x3 3/4x2 3/8"	3 1/8"	1.75	4.46	3.94	3.65	2.79	2.54
54 D 2319	D	2.5	10.0	10,000	3 3/8x2 7/8x2 1/2"	2 1/4x1 7/8"	2.75	6.83	6.04	5.59	4.26	3.89
54 D 1475	A	5.0	3.0	2500	2x3 1/4x2"	2 13/16"	2.4	3.20	2.83	2.62	2.00	1.82
54 D 3713	C‡	5.0*	3.0	2500	3 1/8x2 5/8x2 9/16"	1x1 9/16"	1.5	5.22	4.62	4.28	3.26	2.98
54 D 2028	A	5.0	6.0	2500	2 3/8x3 5/8x2 1/4"	3 1/8"	1.6	3.86	3.41	3.16	2.41	2.20
54 D 2320	D	5.0	10.0	2500	3 1/8x2 1/2x3"	2x3 3/8"	3.25	5.31	4.70	4.35	3.31	3.02
54 D 3714	D	5.0	15.0	2500	3x2 1/2x3"	2x2 1/4"	3.0	7.32	6.47	5.99	4.56	4.16
54 D 2321	D	5.0	21.0	2500	3 3/4x3 1/8x3 1/4"	2 1/2x2 1/4"	5.0	8.66	7.66	7.09	5.41	4.94
54 D 2322	C	5.0	30.0	2500	4 5/8x3 3/4x4"	3x2 7/8"	7.5	11.92	10.55	9.76	7.36	6.71
54 D 1416	A	6.3	0.6	1500	1 3/8x2 3/8x1 5/8"	2"	.5	1.57	1.38	1.28	.98	.89
54 D 2030	A	6.3	1.0	1500	1 5/8x2 13/16x1 3/4"	2 3/8"	.7	1.91	1.69	1.56	1.19	1.08
54 D 1419	A	6.3	1.2	3000	1 5/8x2 13/16x1 7/8"	2 3/8"	.75	1.78	1.58	1.46	1.11	1.01
54 D 2323	A	6.3†	1.2	5000	2x3 1/4x1 7/8"	2 13/16"	1.0	2.95	2.61	2.41	1.84	1.68
54 D 3715	A§	6.3†	1.2	5000	2x3 1/4x1 15/16"	2 13/16"	1.0	3.02	2.67	2.47	1.89	1.72
54 D 3719	C	(4) 6.3††	1.75	1500	3 1/8x2 5/8x3 1/16"	2x2 1/16"	3.3	7.39	6.54	6.05	4.61	4.21
54 D 3717	C	(2) 6.3	3.0	1500	3 1/8x2 5/8x2 11/16"	2x1 11/16"	2.5	6.46	5.72	5.29	4.04	3.68
54 D 2031	A	6.3	3.0	2500	2x3 1/4x2 3/8"	2 13/16"	1.4	2.68	2.37	2.19	1.66	1.52
54 D 2324	D‡	6.3	3.0	2500	3 1/8x2 1/2x2 3/8"	2x1 3/4"	2.0	4.42	3.91	3.62	2.76	2.52
54 D 3716	B	6.3†*	3.0	7000	3 1/8x3 9/16x2 3/4"	3 1/8"	2.3	5.51	4.88	4.51	3.44	3.14
54 D 1477	C‡	6.3*	4.0	2500	3 3/16x2 5/8x2 11/16"	2x1 1/16"	2.75	5.19	4.59	4.25	3.24	2.95
54 D 4134	C	6.3	6.0	1500	3 1/8x2 5/8x2 3/4"	2x1 3/4"	2.5	6.33	5.60	5.19	3.95	3.60
54 D 2325	B	6.3	6.0	2000	3 1/8x3 9/16x2 1/2"	3 1/8"	2.5	3.75	3.32	3.07	2.34	2.13
54 D 1417	D	6.3	6.0	2500	3x2 1/2x2 1/4"	2x2"	2.6	5.10	4.51	4.17	3.18	2.90
54 D 1418	D	6.3*	10.0	2500	3 3/8x2 13/16x2 7/8"	2 1/4x2 1/8"	3.3	7.01	6.20	5.74	4.38	3.99
54 D 4135	C	6.3	20.0	2000	3 7/8x3 5/16x4 1/8"	2 1/2x3"	7.0	11.74	10.38	9.61	7.34	6.69
54 D 2326	D‡	6.3*	20.0	2500	4 5/8x3 3/4x2 7/8"	3x2 3/8"	7.25	9.83	8.69	8.05	6.14	5.60
54 D 2327	D‡	7.5	4.0	2500	3 1/8x2 1/2x2 11/16"	2x2 1/8"	2.75	4.68	4.14	3.83	2.93	2.67
54 D 2328	D‡	7.5	8.0	2500	3 3/4x3 1/8x2 7/8"	2 1/2x2 1/4"	4.25	7.61	6.73	6.23	4.75	4.33
54 D 2329	D‡	10.0	4.0	2500	3 3/8x2 13/16x2 3/4"	2 1/4x2 1/8"	3.5	5.97	5.28	4.89	3.73	3.40
54 D 3720	D‡	10.0*	5.0	2000	3x2 1/2x4 3/4"	2x2 1/8"	3.0	4.82	4.27	3.95	3.01	2.75
54 D 2330	D‡	10.0	8.0	2500	3 3/4x3 1/8x3"	2 1/2x2 3/8"	5.0	7.61	6.73	6.23	4.75	4.33
54 D 3721	C	10.0	10.0	2000	3 7/8x3 1/4x3 3/4"	2 1/2x2 1/2"	5.7	8.97	7.94	7.35	5.60	5.11
54 D 3722	C‡	11.0*	10.0	2500	4 5/8x3 7/8x3 9/16"	3x2 1/16"	7.7	10.19	9.02	8.34	6.36	5.80
54 D 3723	D**	12-11-10	11.0	3000	4 1/8x3 7/16x3 1/8"	2 3/4x2 1/2"	6.5	13.10	11.59	10.73	8.19	7.47
54 D 4136	A	12.6	1.5	1500	2x3 1/4x2"	2 13/16"	1.3	3.53	3.12	2.89	2.20	2.01
54 D 1420	A	12.6	2.0	1500	2x3 1/4x2 1/4"	2 13/16"	1.4	3.19	2.82	2.61	1.99	1.81
54 D 4137	A	12.6	2.5	1500	2 1/4x3 5/8x2 1/4"	3 1/8"	1.6	5.01	4.43	4.10	3.13	2.85
54 D 3725	C	(2) 12.6††	2.5	1500	3 1/2x2 15/16x3 3/16"	2 1/4x2"	3.7	7.68	6.79	6.29	4.80	4.38
54 D 4709	A	12.6	3.0	1500	2 5/16x3 11/16x2 3/8"	3 1/8"	1.7	4.39	3.88	3.59	2.74	2.50
54 D 4710	A	24.0	1.0	1500	2x3 1/4x2"	2 13/16"	1.4	3.89	3.45	3.19	2.43	2.21
54 D 1421	A	25.2†	1.0	1500	2x3 1/4x2 1/8"	2 13/16"	1.4	3.06	2.70	2.50	1.91	1.74
54 D 4140	A	25.2	2.0	1500	2 5/8x4x2 3/8"	3 9/16"	2.3	5.42	4.80	4.44	3.39	3.09
54 D 1476	A	26.5	0.6	3000	2x3 1/4x2"	2 13/16"	1.5	2.88	2.54	2.35	1.80	1.64
54 D 4145	A	26.8	1.0	1500	2x3 1/4x2 1/8"	2 13/16"	1.4	3.51	3.11	2.88	2.19	2.00

[A] TUBE CHECKER TRANSFORMER

Multiple-secondary type for use in tube testers. Primary: 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/4.0/5.0/6.3/7.0/7.5/12/20/25/30/35/50/70/85/110/117. Mtg. ctrs., 3 9/16". With data sheet.

Stock No.	Primary Input Volts	Size (HxWxD)	Mtg. Ctrs.	Wt. Lbs.	EACH 1-9	10-49	50-99	Bulk Packed 100-249	250-499
54 D 2083	125/115/105	2 5/8x4x3 1/16"	3 9/16"	2.5	10.34	9.14	8.46	6.46	5.89

OSCILLOSCOPE POWER TRANSFORMERS

For use with 2X2A rectifiers in half-wave power supplies. All require primary input voltage of 117 volts, 60 cycle AC, except *117 volts, 50-60 cycle AC. Units are multi-output types; have 2, 3 or 4 secondaries; secondary outputs are shown in table below. Shpg. wts., lbs.: †1.8: §5; ‡6.4. † is not illustrated.

Stock No.	Fig.	Plate Supply AC Volts	DC Ma	Rect. Volts	Amps	Other Sec. Outputs	Size HxWxD	EACH 1-9	10-49	50-99	Bulk Packed 100-249	250-499
54 D 3726	†	1550	1.5	2.5	1.75	....	3 1/16x2 1/2x3"	9.39	8.31	7.69	5.86	5.35
54 D 3727	F§	1800*	2.0	2.5	1.8	2.5v @ 2.2A; 6.3v @ .6A	3 7/8x3 1/4x3 9/16"	9.61	8.50	7.87	6.00	5.47
54 D 3728	F‡	2400	5.0	2.5	2.0	2.5v @ 2.2A	4 1/4x3 9/16x3 13/16"	12.47	11.03	10.21	7.79	7.10

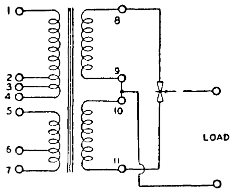
CONTROL TRANSFORMERS

Automation types for high-speed automatic equipment. Adapted to relays, pilot lamps, solenoids, small motors, etc. Also use in high current, low voltage power supplies. Secondaries have two identical windings for series or parallel operation. Primaries operate from either 115 or 230 v., 50-60 cycle.

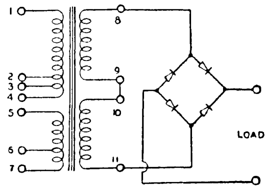
Stock No.	Fig.	Parallel Sec. Volts	Amps	Series Sec. Volts	Amps	Size H x W x D	Mtg. Ctrs.	Wt. Lbs.	EACH 1-9	10-49	50-99	Bulk Packed 100-249	250-499
54 D 2351	E	6	2	12	1	2 3/8x2 7/8x1 3/4"	2 3/8"	1	3.20	2.83	2.62	2.00	1.82
54 D 2352	E	6	4	12	2	2 3/4x3 1/8x2"	2 13/16"	1.2	3.79	3.35	3.10	2.36	2.15
54 D 2353	E	12	4	24	2	3 1/8x3 5/8x2 1/4"	3 1/8"	2.5	4.71	4.17	3.86	2.95	2.69
54 D 2354	D	12	8	24	4	3 3/8x2 7/8x3"	2 1/4x2 3/8"	4.5	7.68	6.79	6.29	4.80	4.38
54 D 3729	D	12	16	24	8	4 1/8x3 7/16x3 7/8"	2 3/4x3"	7.7	12.83	11.35	10.50	8.01	7.31

knight Transformers

MULTI-TAP SELENIUM RECTIFIER TRANSFORMERS



Full Wave
Center-Tapped



Full Wave
Bridge-Type

[A] Well-built transformers designed for full wave center-tapped or bridge-type circuits with standard rectifiers. Allow a variety of combinations using taps on both windings, plus "aiding" or "bucking" action of extra winding. Permit numerous output voltages in addition to those shown in the table below. Ideal for experimental design engineering. 117 v., 50-60 cycle primaries. Supplied complete with winding arrangement and terminal numbering diagrams for easy wiring. †Resistive or inductive load. *Capacitive load.

Stock No.	Rect. Circuit	Range of AC Volts	Max DC Output† Volts	Max DC Output† Amps	Max DC Output* Volts	Max DC Output* Amps	Size HxWxD	Mtg. Centers WxD	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2331	C.T.	11.5 to 29.5	11	2	13.6	2							
	Bridge	11.0 to 28.5	23	1.25	30.0	1.25	3x2 1/2x2 3/4″	2x2 1/8″	5.10	4.51	4.17	3.19	2.91
54 D 2332	C.T.	12.0 to 29.6	11	4	14.5	4							
	Bridge	12.0 to 29.6	24	2	33.0	2	3 3/8x2 7/8x3″	2 1/4x2 3/8″	7.06	6.25	5.78	4.40	4.01
54 D 2333	C.T.	11.5 to 29.0	12	8	14.5	8							
	Bridge	11.5 to 29.0	24	4	32.2	4	3 3/4x3 1/8x3 1/2″	2 1/2x2 7/8″	8.86	7.84	7.26	5.54	5.05
54 D 2334	C.T.	12.0 to 29.5	11.5	12	14.2	12							
	Bridge	12.0 to 29.5	24	6	32.0	6	4 1/8x3 1/2x3 7/8″	2 3/4x3 1/4″	12.61	11.16	10.33	7.89	7.19
54 D 2335	C.T.	12.0 to 29.0	11	15	14.5	15							
	Bridge	12.0 to 29.0	23	8	32.0	8	4 5/8x3 3/4x5″	3x3 3/4″	16.07	14.22	13.16	10.05	9.17

LOW-VOLTAGE RECTIFIER TRANSFORMERS

Primary, 115 v., except †110-120. *Tapped primary for lower voltages.

Stock No.	Fig.	Secondary Volts	Secondary Amps	Case Size HxWxD	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk-Packed 100-249	Bulk-Packed 250-499
54 D 4731	B*	10/20CT/40CT	.035	1 7/16x2 3/8x1 3/8″	2″	3.44	3.04	2.82	2.15	1.96
54 D 4732	B*	10/20CT/4CCT	.100	1 11/16x2 13/16x1 5/8″	2 3/8″	4.00	3.54	3.28	2.51	2.29
54 D 4733	B*	10/20CT/40CT	.300	2 5/16x3 11/16x2″	3 1/8″	4.66	4.12	3.81	2.93	2.67
54 D 4734	B*	10/20CT/40CT	.750	2 5/8x4x2 3/8″	3 9/16″	5.93	5.25	4.86	3.71	3.39
54 D 4735	C*	10/20CT/40CT	1.0	3 1/8x2 5/8x3 1/8″	2x2 1/4″	8.83	7.81	7.23	5.51	5.03
54 D 4736	A	0/17/18	3.0	3 1/8x2 9/16x2 7/8″	2x2 3/8″	6.52	5.76	5.33	4.08	3.72
54 D 4737	A	0/17/18	6.0	3 13/16x3 3/16x3 1/4″	2 1/2x2 5/8″	8.83	7.81	7.23	5.51	5.03
54 D 4738	A	0/6.5/13/19.5/26	3.0	3 1/2x2 7/8x2 3/8″	2 1/4x2 1/8″	7.08	6.26	5.80	4.43	4.04
54 D 4739	A	0/24/27/30/33/36	3.0	3 13/16x3 3/16x3 1/4″	2 1/8x2 5/8″	10.36	9.16	8.48	6.48	5.91
54 D 4740	A†	0/24/27/30/33/36	8.0	4 5/8x3 13/16x3 7/8″	3x3 1/4″	16.09	14.23	13.17	10.05	9.17
54 D 3977	A	0/24/26/28/30	15.0	4 1/2x3 3/4x5 3/4″	3x4 9/16″	46.87	41.46	38.37	29.29	26.71

HIGH-FIDELITY OUTPUT TRANSFORMERS

All have screen taps for ultra-linear operation, except †. All are flat from 15-35,000 cps, except *20-20,000 cps. Rated watts are @ 20-30,000 cps. Have 4, 8, 16 ohm outputs. §Maximum DC in each half of primary.

Stock No.	Fig.	Watts	P-P Imp.	§Ma	Size HxWxD	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2082	F	12	8000	60	3 3/4x3x3 1/4″	10.12	8.95	8.28	5.40	4.92
54 D 2024	C	12	8000	60	3 1/8x2 5/8x2 3/4″	8.63	7.63	7.06	5.39	4.91
54 D 2018	F	18*	800C†	65	3 3/4x3x3 1/4″	10.87	9.61	8.90	5.80	5.29
54 D 2058	B	18*	8000†	65	2 5/8x4x2 1/2″	6.81	6.02	5.57	3.64	3.32
54 D 2054	C	24	6600	75	3 7/8x3 1/4x3 7/8″	14.51	12.83	11.88	9.08	8.28
54 D 2019	G	30*	6600	100	4 1/4x3 5/8x4 1/2″	17.76	15.71	14.54	11.21	10.23
54 D 2059	C	30*	6600	100	3 7/8x3 1/4x4″	15.14	13.40	12.40	9.46	8.63
54 D 2395	C	50*	5000†	150	4 1/4x3 1/2x4″	14.41	12.75	11.80	9.01	8.22
54 D 2397	C	50*	6600†	125	4 1/4x3 1/2x4″	14.41	12.75	11.80	9.01	8.22

STANDARD LINE-TO-VOICE-COIL TRANSFORMERS

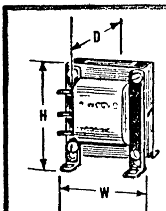
‡Autoformer for connecting one or more speakers across 500-ohm line. *Pri/sec. imp. 500/.06 to 8, 1000/.12 to 16, 1500/.18 to 24, 2000/.24 to 32, 2500/.30 to 40, 3000/.36 to 48.

Stock No.	Fig.	Pri. Imp.	Sec. Imp.	Audio Watts	Size HxWxD	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 1423	D	500	4, 8	5	1 3/8x2 3/8x1 1/2″	1.64	1.45	1.34	1.03	.93
54 D 1424	E	500	4, 6, 8, 15	25	2 3/8x2 7/8x1 7/8″	3.17	2.80	2.59	1.98	1.80
54 D 1425	D	2000/1500/1000/500	4, 8	8	1 5/8x2 13/16x1 5/8″	2.68	2.37	2.19	1.68	1.53
54 D 1442	D	2000/1500/1000/500	4, 8	4	1 3/8x2 3/8x1 1/2″	2.17	1.92	1.77	1.35	1.23
54 D 1443	D	2000/1500/1000/500	4, 8	12	2x3 1/4x1 7/8″	2.93	2.59	2.40	1.84	1.68
54 D 1451	E	3000/2000/1500/1000/500	4, 8, 16	10	2 3/8x2 7/8x1 7/8″	3.53	3.12	2.89	2.21	2.02
54 D 3978	E‡	*See impedance ranges above.		15	2 3/8x2 7/8x2″	4.11	3.64	3.37	2.58	2.35

STANDARD OUTPUT TRANSFORMERS

Audio output transformers for coupling single output tube to speaker. Ideal for use in radios, phonos. amplifiers. §Has hum-bucking primary tap for filter hum reduction.

54 D 2064	B	5000 @ 40 ma	3.2	3	1 1/4x2 1/8x1 3/8″	1.35	1.19	1.10	.84	.76
54 D 2063	B	2500 @ 50 ma	3.2	3	1 1/4x2 1/8x1 3/8″	1.35	1.19	1.10	.84	.76
54 D 2093	B	8000 @ 20 ma	3.2	3	1 1/4x2 1/8x1 3/8″	1.27	1.13	1.04	.80	.73
54 D 2065	B	2000 @ 50 ma	3.2	5	1 3/8x2 3/8x1 3/8″	1.27	1.13	1.04	.80	.73
54 D 1400	B	4000 @ 10 ma	3.5	3	1 1/4x2 1/8x1 1/4″	1.27	1.13	1.04	.80	.73
54 D 1401	B	2000 @ 50 ma	3.2	3	1 1/4x2 1/8x1 1/4″	1.29	1.14	1.05	.80	.73
54 D 1402	B	2000 @ 60 ma	4	5	1 3/8x2 3/8x1 3/8″	1.35	1.19	1.10	.84	.76
54 D 1403	B	5000 @ 40 ma	4	5	1 3/8x2 3/8x1 3/8″	1.35	1.19	1.10	.84	.76
54 D 1445	B	2000§ @ 60 ma	3.5	5	1 3/8x2 3/8x1 1/2″	1.89	1.67	1.55	1.18	1.07
54 D 1446	A	5000 @ 40 ma	6-8	10	2 3/8x2 7/8x1 7/8″	2.29	2.03	1.88	1.43	1.30
54 D 1447	B	7000 @ 30 ma	4	5	1 3/8x2 3/8x1 3/8″	1.55	1.37	1.27	.96	.88
54 D 1448	B	10000 @ 30 ma	4	5	1 3/8x2 3/8x1 3/8″	1.51	1.34	1.24	.95	.87
54 D 1449	B	25000 @ 5 ma	4	5	1 3/8x2 3/8x1 3/8″	1.80	1.59	1.48	1.13	1.03



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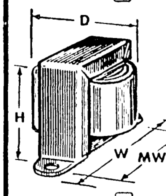

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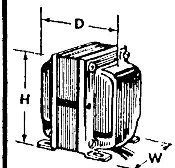

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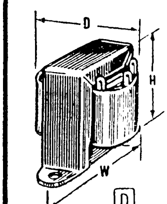

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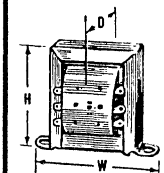

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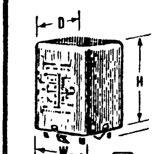

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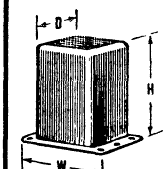
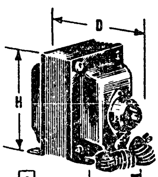


[G]

knight

General-Purpose Transformers

ONE ORDER TO ALLIED FILLS THE WHOLE BILL



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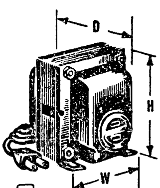

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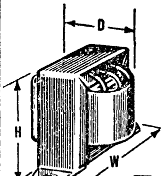
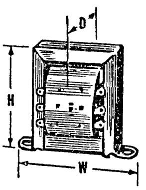
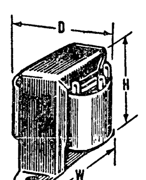


[C]



[D]



[E]

VARIABLE-VOLTAGE AND ISOLATION TRANSFORMERS

Isolate equipment from power line. Primaries operate from various 50-60 cycle input voltages (see table below); secondaries deliver 115 VAC output, except *105-115-125 VAC. With 6-ft. cord and plug.

Stock No.	Fig.	Input Volts	Output Volts	VA Output	Size HxWxD	Mtg. Ctrs. WxD	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2080	A	90-100-120-200-230-250	115	150	4⅝x3⅞x5½"	3x3⅛"	9¼	16.76	14.83	13.72	10.48	9.55
54 D 1490	A	105-115-125	115	100	4⅝x3⅞x4¾"	3x2 9/16"	7½	14.58	12.90	11.93	9.11	8.31
54 D 2563	B	117	*105-115-125	350	5½x4⅝x5¾"	3½x3⅞"	16	24.41	21.59	19.98	15.25	13.91

ISOLATION TRANSFORMERS

Reduce shock hazard, protect equipment. 6-ft. power cord, plug and receptacle, except Fig. C type.

Stock No.	Fig.	Input Volts	Output Volts	VA Output	Size H x W x D	Mtg. Ctrs. W x D	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 4719	C	115	115	35	2¼x3⅝x3⅛"	3⅛"	1¾	4.59	4.06	3.75	2.86	2.61
54 D 3982	C	115/230	115	50	2 5/16x3 11/16x2⅜"	3⅛"	2	6.42	5.68	5.26	4.01	3.66
54 D 1426	B	115	115	50	3⅝x3x3⅜"	2¼x1⅞"	3¾	7.24	6.41	5.93	4.53	4.13
54 D 2086	B	115	115	100	4⅜x3⅝x4"	2¾x2¾"	6½	12.78	11.30	10.46	7.99	7.28
54 D 3981	B	115	115	150	3⅞x3¼x4 7/16"	2½x2 15/16"	7¼	14.43	12.77	11.82	9.03	8.23
54 D 2087	B	115	115	250	4⅝x3⅞x4⅝"	3x3⅜"	10	22.37	19.79	18.31	13.98	12.75

230-TO-115 VOLT STEP-DOWN AUTOTRANSFORMERS

Well-built units to reduce 220-250 volts, 50-60 cycle AC to 110-125 volts. Black enamel finish. With 8-ft. cord and plug, except Fig. C types. Female outlet on case, except 20 and 40 VA models and Fig. C types.

54 D 2555	C	230	115	20	2x3¼x2"	2 13/16"	1¼	3.02	2.67	2.47	1.89	1.72
54 D 2556	C	230	115	40	2 5/16x3⅝x2⅛"	3⅛"	1¾	3.93	3.48	3.22	2.46	2.25
54 D 2510	B	230	115	80	3⅝x3x3¼"	2¼x1⅞"	3¼	7.28	6.44	5.96	4.55	4.15
54 D 2557	B	230	115	100	3½x2⅞x3⅜"	2¼x2"	4	7.75	6.86	6.35	4.85	4.42
54 D 2511	B	230	115	150	4x3⅜x3⅝"	2½x2¼"	4¾	9.17	8.11	7.51	5.74	5.23
54 D 2512	B	230	115	250	4⅝x3⅞x4¼"	3x2 3/16"	7¾	12.07	10.67	9.88	7.54	6.87
54 D 2513	B	230	115	500	4⅝x3⅞x4¾"	3x3 5/16"	11	16.58	14.67	13.57	10.36	9.45
54 D 1434	B	230	115	750	5½x4⅝x5"	3½x3¼"	13¾	20.88	18.47	17.09	13.05	11.90
54 D 1432	B	230	115	1000	5½x4⅝x5¼"	3½x3½"	15	25.97	22.97	21.26	16.24	14.81
54 D 1435	B	230	115	1500	6x4½x5⅝"	3 7/16x3 9/16"	19	30.65	27.11	25.09	19.15	17.46
54 D 1433	B	230	115	2000	6x4½x6⅜"	3 7/16x4⅜"	25	34.78	30.77	28.47	21.74	19.82

115-TO-230 VOLT STEP-UP AUTOTRANSFORMERS

For operation of 230-v appliances from 110-125 v. 50-60 cps AC. 8-ft. cord, outlet.

54 D 2558	B	115	230	80	3⅝x3x3¼"	2¼x1⅞"	3¼	7.28	6.44	5.96	4.55	4.15
54 D 2559	B	115	230	150	4x3⅜x3⅝"	2½x2¼"	4¾	9.17	8.11	7.51	5.74	5.23
54 D 2560	B	115	230	500	4⅝x3⅞x4¾"	3x3 5/16"	10¼	16.56	14.65	13.56	10.35	9.44

MINIATURE INTERCOM AND TRANSCEIVER TRANSFORMERS

Replace original manufacturer's units. *Transceiver input, mike or plate to grid; has 4.5% primary tap used in B+ filter network for hum reduction. †Intercom input, voice coil to grid. §Matches low-impedance line to voice coil. All are standard single plate to voice coil outputs. Av. shpg. wt., ½ lb.

Stock No.	Fig.	Impedance, Ohms Primary	Impedance, Ohms Secondary	Audio Watts	Size (HxWxd)	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 1491	C	*200/5000	60,000	5	1⅝x2⅞x1⅝"	2⅜"	2.66	2.35	2.18	1.66	1.52
54 D 1492	C	†4	25,000	....	1⅜x2⅜x1½"	2"	2.07	1.84	1.70	1.30	1.19
54 D 1493	E	§45/50	3-4, 6-8	3	1⅜x2⅜x1⅜"	2"	1.84	1.63	1.50	1.15	1.05

AUDIO INPUT TRANSFORMERS FOR LINE OR MIKE TO GRID

Stock No.	Fig.	Imped., Ohms Pri.	Imped., Ohms Sec.	Watts	Response (±3db) cps	Size H x W x D	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 3980	C	100	70K CT	5	100-15,000	1 11/16x2 13/16x1⅝"	3.39	2.99	2.77	2.11	1.93
54 D 3979	C	400 CT	195K	1	200-10,000	1¼x2 1/16x1¼"	2.98	2.64	2.44	1.86	1.70

UNIVERSAL AUDIO OUTPUT TRANSFORMERS

Six secondary taps match plates to speaker voice coil, except ‡secondary impedance is 50/125/200/333/500 ohms. Center-tapped primary for push-pull, except *for single-ended output.

Stock No.	Fig.	Primary Ohms	Watts	Size (HxWxD)	Mtg. Ctrs.	Wt. Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2023	E	2000-14,000	4	1⅜x2⅜x1½"	2"	½	2.26	2.00	1.85	1.41	1.29
54 D 2021	E	2000-14,000	8	1⅝x2⅞x1⅝"	2⅜"	¾	2.53	2.24	2.07	1.58	1.44
54 D 1452	D	2000-14,000	8	2x2⅜x1½"	2"	¾	2.89	2.56	2 37	1.80	1.64
54 D 2022	D	2000-14,000	18	2⅜x2⅞x2"	2⅜"	1¼	3.62	3.20	2.97	2.26	2.06
54 D 1453	E	6000-10,000	8	2x3¼x2 3/16"	2 13/32"	1¼	3.24	2.87	2.65	2.03	1.85
54 D 1404	E	*7000-10,000	4	1⅜x2⅜x1⅜"	2"	½	1.55	1.37	1.27	.96	.88
54 D 1454	E	‡5000, 10K, 20K	15 ma	2x3¼x1⅞"	2 13/16"	1	3.88	3.43	3.17	2.43	2.21

[C] INTERSTAGE AUDIO TRANSFORMERS

Maximum DC permissible in primary is 10 ma except ‡30 ma, §40 ma. Single plate to P-P grid except Type marked with *, single plate to single grid, †single or push-pull plate to push-pull grids. #to ½-secondary.

Stock No.	Impedance, Ohms Primary	Impedance, Ohms Secondary	Turns Ratio	Size (HxWxD)	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2062	*7000-20K	....	1:3	1⅜x2⅜x1⅜"	2"	1.87	1.66	1.53	1.18	1.07
54 D 1415	†7000-15K	....	1:3	1⅜x2⅜x1⅜"	2"	2.22	1.96	1.82	1.39	1.27
54 D 3983	§10,000	....	#2/1.5/1:1	2x3¼x1⅞"	2 13/16"	3.00	2.66	2.46	1.88	1.71
54 D 1458	10,000	40,000 CT	1:2	1⅜x2⅜x1½"	2"	2.22	1.96	1.82	1.39	1.27
54 D 1459	10,000	90,000 CT	1:3	2x3¼x2"	2 3/16"	3.37	2.98	2.76	2.10	1.92
54 D 1460	†10,000 CT	90,000 CT	1:3	1⅝x2⅞x1½"	2⅜"	2.77	2.45	2.26	1.73	1.57
54 D 4711	‡10,000	10,000 CT	1:1	1⅝x2⅞x1⅝"	2⅜"	2.22	1.96	1.82	1.39	1.27
54 D 4712	‡10,000	6600 CT	#3:1	1⅝x2⅞x1⅝"	2⅜"	2.22	1.96	1.82	1.39	1.27

BUYERS

Allied can supply production quantities of Knight transformers. Write, wire or phone for prices on quantities larger than shown.

Inquire for Quantity Prices on Knight Transformers in Lots of 500 or More

Transistor and Line Transformers

TRANSISTOR TRANSFORMERS

INPUT TRANSFORMERS Av. wt., 6 oz.

Stock No.	Fig.	Impedance, Ohms		Res., Ohms		Watts	Size	Mtg.	EACH			Bulk Packed	
		Pri.	Sec.	Pri.	Sec.		H x W x D	Ctrs.	1-9	10-49	50-99	100-249	250-499
54 D 4146	C	600 CT	10	42	.8	.050	13/16x1 5/8x3/4"	1 3/8"	2.04	1.80	1.67	1.28	1.16
54 D 2355	B	30 CT	50K	14.7	4060	.150	21/32x13/16x9/16"	25/32"	3.49	3.09	2.86	2.18	1.98
54 D 2356	C	1K CT	200K CT	123	1815	.300	13/16x1 5/8x3/4"	1 3/8"	3.49	3.09	2.86	2.18	1.98
54 D 4713	C	500K	200 CT	7000	8.5	.300	13/16x1 5/8x3/4"	1 3/8"	4.02	3.56	3.29	2.51	2.29

OUTPUT TRANSFORMERS

Stock No.	Fig.	Impedance Pri.	Impedance Sec.	Res. Pri.	Res. Sec.	Watts	Size H x W x D	Mtg. Ctrs.	1-9	10-49	50-99	100-249	250-499
54 D 2357	B	350 CT	4, 12	38	1.45	.150	21/32x13/16x9/16"	25/32"	3.37	2.98	2.76	2.10	1.92
54 D 2358	B	500 CT	4, 8, 16	75.3	3.55	.150	21/32x13/16x9/16"	25/32"	3.49	3.09	2.86	2.18	1.98
54 D 2359	B	600 CT	4, 8, 16	73.2	3.2	.150	21/32x13/16x9/16"	25/32"	3.49	3.09	2.86	2.18	1.98
54 D 2360	B	825 CT	4, 8, 16	74	2.7	.150	21/32x13/16x9/16"	25/32"	3.49	3.09	2.86	2.18	1.98
54 D 2361	B	1250	4, 12	132.5	1.4	.150	21/32x13/16x9/16"	25/32"	3.33	2.95	2.73	2.09	1.90
54 D 2362	B	2500	4, 16	370	2.3	.150	21/32x13/16x9/16"	25/32"	3.33	2.95	2.73	2.09	1.90
54 D 2363	B	10K CT	4, 8, 16	1174	2.6	.150	21/32x13/16x9/16"	25/32"	3.59	3.17	2.94	2.24	2.04
54 D 4714	C	1000	4, 8, 16	180	3.5	.200	13/16x1 5/8x3/4"	1 3/8"	4.99	4.41	4.08	3.11	2.84
54 D 4150	C	2000 CT	4, 8, 16	250	4	.200	13/16x1 5/8x3/4"	1 3/8"	5.31	4.70	4.35	3.33	3.03
54 D 2365	C	100 CT	4, 8, 16	10.9	1.45	.300	13/16x1 5/8x3/4"	1 3/8"	3.60	3.19	2.95	2.25	2.05
54 D 2366	C	160	4, 8, 16	18.7	1.4	.300	13/16x1 5/8x3/4"	1 3/8"	3.49	3.09	2.86	2.18	1.98
54 D 2367	C	400 CT	4, 8, 16	34	1.5	.300	13/16x1 5/8x3/4"	1 3/8"	3.44	3.04	2.82	2.15	1.96
54 D 2368	C	500 CT	4, 8, 16	47	.85	.300	13/16x1 5/8x3/4"	1 3/8"	3.49	3.09	2.86	2.18	1.98
54 D 2369	C	700 CT	4, 8, 16	77	1.15	.300	13/16x1 5/8x3/4"	1 3/8"	3.66	3.24	2.99	2.29	2.09
54 D 2370	C	2500	4, 8, 16	172	1.15	.300	13/16x1 5/8x3/4"	1 3/8"	3.44	3.04	2.82	2.15	1.96
54 D 2371	C	3000	4, 8, 16	192	1.2	.300	13/16x1 5/8x3/4"	1 3/8"	3.44	3.04	2.82	2.15	1.96
54 D 2336	C	48 CT	8, 16	5	1.5	5	2x3 5/16x1 3/4"	2 13/16"	3.79	3.35	3.10	2.36	2.15
54 D 2337	C	20 CT	8	.55	.35	10	1 7/16x2 3/8x1 3/4"	2"	1.97	1.74	1.61	1.23	1.12
54 D 4715	A	24 CT	16/4 CT	2.0	1.2	10	4 1/4x4 3/8x3 9/16"	3 7/8x2 3/4"	10.54	9.32	8.63	6.59	6.01
54 D 4147	C	48 CT	3.2, 8, 16	3.6	1.4	10	2 5/16x2 7/8x2"	2 3/8"	3.20	2.83	2.62	2.00	1.82
54 D 4149	C	100 CT	3.2, 8, 16	6.6	1.5	10	2 5/16x2 7/8x2"	2 3/8"	3.19	2.82	2.61	1.99	1.81

INTERSTAGE TRANSFORMERS

Stock No.	Fig.	Impedance Pri.	Impedance Sec.	Res. Pri.	Res. Sec.	Watts	Size H x W x D	Mtg. Ctrs.	1-9	10-49	50-99	100-249	250-499
54 D 2340	C	500 CT	5K CT	37	250	1.0	1 7/16x2 3/8x1 3/8"	2"	2.68	2.37	2.19	1.68	1.53
54 D 2372	B	100 CT	10 CT	19	1.27	.150	21/32x13/16x9/16"	25/32"	3.33	2.95	2.73	2.09	1.90
54 D 2373	B	500 CT	50	59.7	7.9	.150	21/32x13/16x9/16"	25/32"	3.28	2.90	2.68	2.05	1.87
54 D 2374	B	500 CT	50K	76.8	5135	.150	21/32x13/16x9/16"	25/32"	3.44	3.04	2.82	2.15	1.96
54 D 2375	B	1200	20K CT	142	1860	.150	21/32x13/16x9/16"	25/32"	3.37	2.98	2.76	2.10	1.92
54 D 2376	B	1500	500 CT	104	46.5	.150	21/32x13/16x9/16"	25/32"	3.20	2.83	2.62	2.00	1.82
54 D 2377	B	5K CT	7500 CT	650	790	.150	21/32x13/16x9/16"	25/32"	3.49	3.09	2.86	2.18	1.98
54 D 2378	B	5K CT	10K CT	635	1100	.150	21/32x13/16x9/16"	25/32"	3.37	2.98	2.76	2.10	1.92
54 D 4716	B	5K CT	45K	310	1400	.150	21/32x13/16x5/8"	25/32"	3.08	2.72	2.52	1.93	1.76
54 D 2381	B	5K CT	80K CT	573	5740	.150	21/32x13/16x9/16"	25/32"	3.55	3.14	2.91	2.21	2.02
54 D 2386	B	10K	200 CT	1200	33.4	.150	21/32x13/16x9/16"	25/32"	3.37	2.98	2.76	2.10	1.92
54 D 2387	B	10K	2K CT	1200	257	.150	21/32x13/16x9/16"	25/32"	3.33	2.95	2.73	2.09	1.90
54 D 2389	B	10K	3K CT	1200	385	.150	21/32x13/16x9/16"	25/32"	3.33	2.95	2.73	2.09	1.90
54 D 2390	B	500 CT	150 CT	62	21.2	.150	21/32x13/16x9/16"	25/32"	3.37	2.98	2.76	2.10	1.92
54 D 4180	B	20K	800 CT	1350	95	.150	21/32x13/16x5/8"	25/32"	2.86	2.53	2.34	1.79	1.63
54 D 2338	C	100 CT	10 CT	4.3	.8	.250	1 1/4x2 1/16x1 3/8"	1 3/4"	1.98	1.75	1.62	1.24	1.13
54 D 2339	C	100	1K CT	5.8	45	.250	1 7/16x2 3/8x1 3/8"	2"	1.98	1.75	1.62	1.24	1.13
54 D 2391	C	100K	1500 CT	3250	143	.300	13/16x1 5/8x3/4"	1 3/8"	3.51	3.11	2.88	2.20	2.01
54 D 4174	C	500 CT	500 CT	40	55	.300	13/16x1 5/8x3/4"	1 3/8"	3.20	2.83	2.62	2.00	1.82

DRIVER TRANSFORMERS Av. wt., 3.8 lbs.

Stock No.	Fig.	Impedance Pri.	Impedance Sec.	Res. Pri.	Res. Sec.	Watts	Size H x W x D	Mtg. Ctrs.	1-9	10-49	50-99	100-249	250-499
54 D 4151	C	1000	200 CT	400	115	.050	5/8x1 1/4x1/2"	1 1/16"	4.82	4.27	3.95	3.01	2.75
54 D 4717	C	2000	200 CT	720	115	.050	5/8x1 1/4x1/2"	1 1/16"	4.82	4.27	3.95	3.01	2.75
54 D 3985	G	2000 CT	200 CT	748	120	.100	5/8x1 1/4x1/2"	1 1/16"	5.51	4.88	4.51	3.45	3.15
54 D 4153	C	100	200 CT	6.5	15.5	.500	1 1/4x2 1/16x1 1/4"	1 3/4"	2.26	2.00	1.85	1.41	1.29
54 D 4165	C	500 CT	200 CT	36.5	15.5	.500	1 1/4x2 1/16x1 1/4"	1 3/4"	2.17	1.92	1.77	1.35	1.23
54 D 4166	C	100	100 CT	9	10-8	.500	1 11/16x2 13/16x1 3/8"	2 3/8"	1.95	1.72	1.59	1.21	1.11
54 D 4152	C	20	36 CT	2	4	1.0	1 1/4x2 1/16x1 1/4"	1 3/4"	1.80	1.59	1.48	1.13	1.03
54 D 4718	A	200 CT	400 CT	4	7	10.0	3x2 11/16x2 3/16"	2 3/8x1 1/2"	4.15	3.67	3.40	2.59	2.36

POWER TRANSFORMERS

Primaries for 117 v., 60 cycle AC. *For bridge rectifier—identical dual plate supplies.

Stock No.	Fig.	Plate Supply		Size	Mtg.	EACH			Bulk Packed	
		AC V.	DC Ma	H x W x D	Ctrs.	1-9	10-49	50-99	100-249	250-499
54 D 3987	F*	13 or 18	900	3 1/8x2 5/8x2 15/16"	2x1 15/16"	4.95	4.38	4.05	3.09	2.82
54 D 3988	F	80 CT	1200	3 1/2x2 15/16x3 9/16"	2 1/4x2 3/8"	6.77	5.99	5.54	4.24	3.86

CONSTANT-VOLTAGE LINE TRANSFORMERS

70.7-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

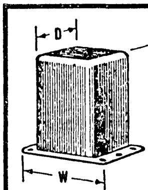
Stock No.	Fig.	Watt Taps	Sec. Imp. Ohms	Max. Watts	Size H x W x D	Mtg. Ctrs.	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 2081	D	5, 2.5, 1.25, .62, .31	4, 8	5	1 3/8x2 3/8x1 1/2"	2"	3/4	2.44	2.16	2.00	1.53	1.39
54 D 1422	E	8, 4, 2, 1, 0.5	4, 8, 16	8	2x2 3/8x1 5/8"	2"	3/4	3.20	2.83	2.62	2.00	1.82
54 D 2077	D	10, 5, 2.5, 1.25, .62	4, 8, 16	10	1 5/8x2 13/16x1 5/8"	2 3/8"	3/4	3.06	2.70	2.50	1.91	1.74
54 D 2078	E	18, 9, 4.5, 2.25, 1.12, .56	4, 8, 16	18	2 3/8x2 7/8x1 7/8"	2 3/8"	1 3/4	3.77	3.33	3.08	2.35	2.14
54 D 2079	D	24, 12, 6, 3, 1.5, .75	4, 8, 16	24	2 1/4x3 11/16x2 1/4"	3 1/8"	1 3/4	4.59	4.06	3.75	2.84	2.59
54 D 1440	D	2, 1, .5	4, 8	2	1 3/16x2 1/16x1 1/4"	1 3/4"	1/4	2.48	2.19	2.03	1.55	1.41
54 D 1450	E	16, 8, 4, 2, 1, 0.5	4, 8, 16	16	2 3/4x3 1/8x2 1/4"	2 13/16"	2	4.82	4.27	3.95	3.01	2.75

HIGH-FIDELITY 70.7-VOLT LINE-TO-VOICE-COIL TRANSFORMER

Stock No.	Fig.	Watt Taps	Sec. Imp. Ohms	Max. Watts	Size H x W x D	Mtg. Ctrs.	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 1441	D	5, 2.5, 1.25, .625, .31	4, 8, 16	5	1 5/8x2 13/16x1 5/8"	2 3/8"	3/4	3.24	2.87	2.65	2.03	1.85

25-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

Stock No.	Fig.	Watt Taps	Sec. Imp. Ohms	Max. Watts	Size H x W x D	Mtg. Ctrs.	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 1436	D	2, 1, 0.5	4, 8	2	1 3/16x2 1/16x1 1/4"	1 3/4"	1/4	2.35	2.08	1.92	1.48	1.35
54 D 1437	D	5, 2.5, 1.25, 0.625, 0.31	4, 8	5	1 5/8x2 13/16x1 5/8"	2 3/8"	3/4	2.80	2.48	2.29	1.75	1.60
54 D 1438	D	10, 5, 2.5, 1.25, 0.625	4, 8, 16	10	2 1/4x3 11/16x2"	3 1/8"	1 3/4	3.99	3.53	3.26	2.49	2.27
54 D 1439	D	18, 9, 4.5, 2.25, 1.12	4, 8, 16	18	2 5/8x4x2 1/4"	3 9/16"	2 1/2	4.77	4.22	3.90	2.98	2.71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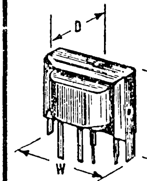
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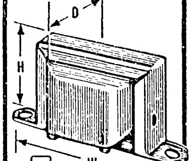
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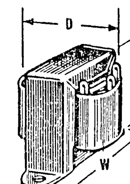
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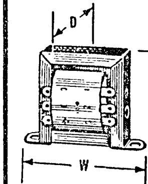
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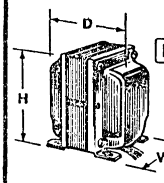
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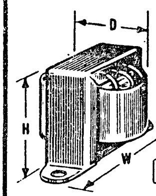
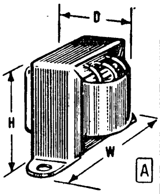

G

BUYERS

Allied can supply production quantities of Knight transformers. Write, wire or phone for prices on quantities larger than shown.

knight Transformers and Chokes



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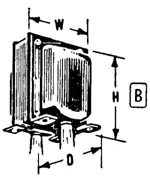

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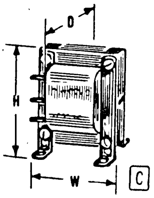

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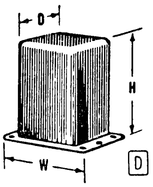

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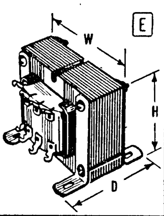


E

FILTER CHOKES

Rated at 10v., 60 cps with max. DC in winding. All −15%, +50% tol. 1500 v. rms insulation, except †2000 v., *3000 v. ‡Amperes. §Tapped for 8 hy @ 150 ma or 4 hy @ 200 ma. #Tapped for 150 hy @ 15 ma.

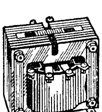
Stock No.	Fig.	Henries	Ma	Ohms	Size HxWxD	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 3997	E	.005	22.5‡	.03	3¾x4½x4 13/16"	3¾x3½"	13.41	11.87	10.98	8.39	7.65
54 D 3996	E	.01	8.0‡	.15	3⅛x3¾x3⅛"	3⅛x2¼"	8.01	7.08	6.56	5.00	4.56
54 D 2341	E	.01	12.5‡	.11	3½x4⅛x3"	3⅜x2⅜"	9.30	8.23	7.61	5.81	5.30
54 D 2342	E	.025	4‡	.425	2⅞x3⅜x2¾"	2¾x2⅛"	6.12	5.41	5.01	3.83	3.49
54 D 2343	E	.035	2‡	.75	2⅜x2⅝x2½"	2⅛x2"	3.49	3.09	2.86	2.18	1.98
54 D 4700	C	.08/.02	2.5/5.0‡	.61/.155	3 13/16x3 5/16x3 9/16"	2½x3 1/16"	10.54	9.32	8.63	6.59	6.01
54 D 4701	C	.3/.075	1.0/2.0‡	3/.75	3½x2⅞x3 5/16"	2¼x2 11/16"	7.59	6.71	6.21	4.74	4.32
54 D 4702	A	.32	600	10	2x3¼x2¼"	2 13/16"	2.88	2.54	2.35	1.80	1.64
54 D 4703	A	.70	290	30	1 11/16x2 13/16x1½"	2⅜"	1.53	1.35	1.25	.95	.87
54 D 1405	A	0.8	375	25	2¼x3 11/16x2"	3⅛"	3.29	2.91	2.70	2.05	1.87
54 D 1479	A	1.0†	300	40	2¼x3 11/16x2"	3⅛"	2.89	2.56	2.37	1.80	1.64
54 D 1480	A	1.5*	10	95	1 3/16x2⅛x1¼"	1¾"	1.33	1.18	1.09	.83	.75
54 D 1406	A	1.5	200	60	1⅝x2 13/16x1⅝"	2⅜"	1.66	1.47	1.36	1.04	.95
54 D 3990	A	2.0	15	70	1¼x2 1/16x1¼"	1¾"	1.53	1.35	1.25	.95	.87
54 D 1481	A	2.0	200	65	2¼x3 11/16x2"	3⅛"	2.91	2.58	2.38	1.83	1.66
54 D 1482	A	2.3	150	60	2x3¼x1¾"	2 13/16"	2.29	2.03	1.88	1.44	1.31
54 D 2344	A	2.5†	130	100	2x3¼x1¾"	2 13/16"	2.24	1.98	1.83	1.40	1.28
54 D 2345	A	2.8	300	60	2⅝x4x2⅛"	3 9/16"	3.99	3.53	3.26	2.49	2.27
54 D 1483	A	3†	150	97	2¼x3 11/16x2"	3⅛"	2.64	2.33	2.16	1.65	1.50
54 D 1407	A	3.5	50	200	1⅝x2 13/16x1½"	2⅜"	1.51	1.34	1.24	.95	.87
54 D 2346	B	4.0*	175	100	3⅛x2⅝x2¾"	2x1¾"	4.51	3.99	3.70	2.83	2.58
54 D 3991	B	4.0*	250	60	3½x2 15/16x3 9/16"	2¼x2⅜"	7.04	6.23	5.77	4.40	4.01
54 D 2347	B	4.5*	200	80	3 9/16x3¼x3"	2¼x2 1/16"	5.73	5.07	4.69	3.59	3.27
54 D 2348	D	5.0	100	300	2⅝x2¼x2¾"	1½x2⅜"	3.44	3.04	2.82	2.15	1.96
54 D 3992	A	5.0	65	330	1 1/16x2 13/16x1 7/16"	2⅜"	2.29	2.03	1.88	1.44	1.31
54 D 2135	A	5.5	50	330	1⅜x2⅜x1¼"	2"	1.33	1.18	1.09	.83	.75
54 D 4704	A	6.0	200	150	2⅝x4x2¼"	3 9/16"	3.79	3.35	3.10	2.36	2.15
54 D 4705	B	6.0	200	150	3⅛x2⅝x2¾"	2"	5.15	4.56	4.22	3.23	2.94
54 D 1484	A	7.0	150	200	2⅝x4x2¼"	3 9/16"	3.62	3.20	2.97	2.26	2.06
54 D 1408	A	7.0	50	550	1⅜x2⅜x1⅜"	2"	1.33	1.18	1.09	.83	.75
54 D 1485	A	8.0	85	260	2x3¼x2"	2 13/16"	2.37	2.09	1.94	1.48	1.35
54 D 1409	C	8.5*	200	140	3⅜x2 13/16x2⅜"	2¼x2⅛"	6.90	6.10	5.65	4.31	3.93
54 D 2136	A	8.5	50	400	1⅝x2 13/16x1⅜"	2⅜"	1.26	1.11	1.03	.79	.72
54 D 3993	A	9.0	125	250	2 5/16x3 11/16x1 15/16"	3⅛"	3.15	2.79	2.58	1.96	1.79
54 D 4706	B	10.0†	200	150	3½x2 15/16x3½"	2¼x2⅜"	7.48	6.62	6.12	4.68	4.26
54 D 4707	A	10.0	90	270	2x3¼x2"	2 13/16"	2.68	2.37	2.19	1.68	1.53
54 D 2139	A	10.5	110	220	2⅝x4x2⅛"	3 9/16"	3.29	2.91	2.70	2.05	1.87
54 D 3995	A	12.0†	30	400	1 7/16x2⅜x1 5/16"	2"	1.89	1.67	1.55	1.19	1.08
54 D 1486	B	12.0*§	100	145	3x2⅝x2 11/16"	2x1¾"	4.59	4.06	3.77	2.86	2.61
54 D 1487	A	13.0	65	385	2x3¼x1¾"	2 13/16"	2.37	2.09	1.94	1.48	1.35
54 D 1488	B	16.0	80	365	3 3/16x2⅝x2 11/16"	2x1¾"	4.90	4.33	4.01	3.06	2.79
54 D 2138	A	15.0	75	400	2¼x3 11/16x2"	3⅛"	2.66	2.35	2.18	1.66	1.52
54 D 2137	A	16.0	50	550	2x3¼x1⅝"	2 13/16"	1.98	1.75	1.62	1.24	1.13
54 D 1489	A	20.0	15	900	1⅝x2 13/16x1½"	2⅜"	2.07	1.84	1.70	1.30	1.19
54 D 2349	A	35.0	15	1600	1⅜x2⅜x1¼"	2"	1.67	1.48	1.37	1.05	.96
54 D 2350	A	350.0*#	5	5500	2x3¼x1¾"	2 13/16"	3.48	3.08	2.85	2.18	1.98

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

Push-pull plates to voice coil.

Stock No.	Fig.	Impedance, Ohms: Primary	Impedance, Ohms: Secondary	Audio Watts	Size H x W x D	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-249	Bulk Packed 250-499
54 D 1457	A	4000 CT	32, 16, 8	7½	2¼x3 11/16x2¼"	3⅛"	3.88	3.43	3.18	2.43	2.21
54 D 3998	B	5000 CT	500,250,15,8,4	30	3½x2 15/16x3⅛"	2¼x2"	6.88	6.09	5.63	4.30	3.92
54 D 1455	B	6600 CT	500,250,16,8,4	35	3 15/16x3¼x3½"	2½x2¼"	8.75	7.74	7.17	5.46	4.98
54 D 3999	A	10,000 CT	8, 4, 2	5	1 11/16x2 13/16x1¾"	2⅜"	2.75	2.43	2.25	1.71	1.56
54 D 4114	B	10,000 CT	500, 15, 8, 4	25	3½x2 15/16x3⅛"	2¼x2"	6.55	5.80	5.36	4.10	3.74
54 D 4115	B	10,000/7000 CT	500, 15, 8, 4	25	3⅛x2⅝x2⅝"	2x1 11/16"	6.48	5.73	5.30	4.06	3.71
54 D 1456	A	25,000 CT	4	5	1⅜x2⅜x1⅜"	2"	2.11	1.87	1.73	1.33	1.21

MILWAUKEE TRANSFORMER CO. CONTROL TRANSFORMERS



3200 Series—Type CWI. Industrial control transformers for use where accurate voltage control is required. Interleaved windings designed for minimum regulation even under high inrush conditions. 60 cycle AC input. Dual primaries, 240/480 v., parallel or series connected. Can operate at 220 or 230 v. combinations. Power factor, 95% min. Secondaries, 120 or 120/240 v. Screw-type terminals. Open frame core and coil construction; 4 oblong mtg. holes.

PRIMARY, 240/480 V.—SEC., 120 V.

Stock No.	Mfr's Type	KVA	Mtg. Ctrs.	Size (HWD)	Wt., Lbs.	EACH
54 D 2220	C1-13361	.050	2½x2¼"	2 9/16x3x3½"	3	9.40
54 D 2221	C1-13362	.075	2½x2⅞"	2 9/16x3x4⅛"	4¼	10.10
54 D 2222	C1-13363	.100	2 13/16x2¾"	2⅞x3⅜x4⅜"	5½	10.50
54 D 2223	C1-23166	.150	3⅛x3⅜"	3 3/16x3¾x5¼"	8½	11.50
54 D 2224	C1-23167	.200	3¾x2⅞"	3 13/16x4½x4⅞"	9½	13.75
54 D 2225	C1-23091	.250	4½x3⅝"	4½x5¼x5⅞"	12	15.00
54 D 2231	C1-33188	.300	3¾x3 13/16"	3 13/16x4½x5 15/16"	13½	16.35
54 D 2333 Z	C1-33189	.350	4⅜x4"	4⅝x5¼x5⅞"	21	17.35
54 D 2244 Z	C1-33112	.500	4½x5"	4½x5¼x7½"	26	18.80
54 D 2245 Z	C1-43192	.750	4½x5¾"	4½x5¼x8¼"	32	22.90
54 D 2250 Z	C1-43137	1.0	5¼x5¼"	5¾x6⅛x7½"	40	26.50
54 D 2251 Z	C1-53091	1.5	5⅞x6½"	6 1/32x7 1/16x8¾"	59	36.50
54 D 2252 Z	C1-53129	2.0	5⅞x8"	6 1/32x7 1/16x10¼"	72	44.75
54 D 2254 Z	C1-73023	5.0	7½x10½"	7x9x15¼"	107	103.00

PRIMARY, 240/480 V.—SEC., 120/240 V.

Stock No.	Mfr's Type	KVA	Mtg. Ctrs.	Size (HWD)	Wt., Lbs.	EACH
54 D 4251	C1-13381	.050	2½x2¼"	2 9/16x3x3½"	3	9.65
54 D 4253	C1-13383	.100	2 13/16x2¾"	2⅞x3⅜x4⅜"	5½	10.75
54 D 4254	C1-23174	.150	3⅛x3⅜"	3 3/16x3¾x5¼"	8½	11.80
54 D 4259	C1-23175	.200	3¾x2⅞"	3 13/16x4½x4⅞"	9½	14.10
54 D 4260	C1-23089	.250	4½x3⅝"	4½x5¼x5⅞"	12	15.35
54 D 4270	C1-33196	.300	3¾x3 13/16"	3 13/16x4½x5 15/16"	13½	16.70
54 D 4271	C1-33197	.350	4⅜x4"	4⅝x5¼x5⅞"	18	17.70
54 D 4280 Z	C1-33110	.500	4½x5"	4½x5¼x7½"	28	19.15
54 D 4300 Z	C1-43044	.750	4½x5¾"	4½x5¼x8¼"	35	23.30
54 D 4282 Z	C1-43135	1.0	5¼x5¼"	5¾x6½x7½"	40	27.00
54 D 4302 Z	C1-53089	1.5	5⅞x6½"	6 1/32x7 1/16x8¾"	53½	37.00
54 D 4303 Z	C1-53132	2.0	5⅞x8"	6 1/32x7 1/16x10¼"	78	45.40
54 D 4304 Z	C1-63033	3.0	7½x8¼"	7x9x13"	110	79.75
54 D 4305 Z	C1-73024	5.0	7½x10½"	7x9x15¼"	133	106.00

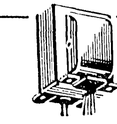
Filter Chokes and Transformers

CHICAGO STANCOR

FILTER CHOKES

All ratings are with maximum DC in winding. Rated at 1500 volts rms, except *2000, ‡2500, †3000. Filter chokes listed in table below are designed for both input and smoothing use. C2690 and C2691 have dual windings; first rating is series operation and second rating parallel. §Similar to Fig. F, but with lugs.

Stock No.	Mfr's Type	Fig.	Hys.	Ma	DC Res. Ohms	Size H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4057	C1001†	C	10.5	110	225	2⅝x4x2¼"	2¼	4.02	3.62	3.42	3.22
54 D 4056	C1002	C	15.0	75	400	2¼x3¾x2¼"	1¼	3.15	2.84	2.68	2.52
54 D 4055	C1003	C	16.0	50	580	2x3¼x1¾"	1½	2.37	2.13	2.01	1.90
54 D 4067	C1355	D	8.0	75	290	2 1/16x2 5/16x1¾"	1½	2.84	2.56	2.41	2.27
54 D 4466	C1411†	A	4.5	200	80	3⅝x3x3⅛"	3½	6.47	5.82	5.50	5.18
54 D 4455	C1412†	A	4.0	250	60	3⅝x3x3½"	4½	7.97	7.17	6.77	6.38
54 D 2407	C1414	....	7.5	400	60	4¾x4x5⅛"	12	18.29	16.46	15.55	14.63
54 D 4058	C1515	C	20.0	15	900	1⅝x2⅞x1½"	1	2.60	2.34	2.21	2.08
54 D 2408	C1646	A	5.0	200	90	4x3¼x3⅜"	4½	7.94	7.15	6.75	6.35
54 D 2409	C1703	B	4.0	250	60	3½x2⅞x3 3/16"	4¼	7.02	6.32	5.97	5.62
54 D 4050	C1706	C	4.5	50	300	1⅜x2⅜x1⅜"	¾	1.49	1.34	1.27	1.19
54 D 4051	C1707	C	7.0	50	550	1⅜x2⅜x1⅜"	¾	1.74	1.57	1.48	1.39
54 D 4052	C1708	C	13.0	65	500	2x3¼x1¾"	1	2.67	2.40	2.27	2.14
54 D 4053	C1709	C	8.0	85	250	2x3¼x2"	1¾	2.70	2.43	2.30	2.16
54 D 4054	C1710	C	7.0	150	200	2⅝x4x2¼"	2¼	4.22	3.80	3.59	3.38
54 D 4069	C1721†	F	8.5	200	120	3⅞x3⅛x3"	4½	8.57	7.71	7.28	6.86
54 D 4456	C1722†	F	8.0	300	80	4⅝x3¾x3½"	7½	11.99	10.79	10.19	9.59
54 D 4059	C2303*	C	2.5	130	100	2x3¼x1¾"	1½	2.54	2.29	2.16	2.03
54 D 4060	C2304	C	2.3	150	60	2x3¼x1¾"	1½	2.57	2.31	2.18	2.06
54 D 4061	C2305	E	5.0	100	300	2 11/16x2¾x2 3/16"	1½	3.89	3.50	3.31	3.11
54 D 4064	C2308†	A	8.0	300	80	4¾x4x3⅞"	7¾	14.19	12.77	12.06	11.35
54 D 2410	C2318	C	12.0	30	400	1⅜x2⅜x1⅜"	½	2.20	1.98	1.87	1.76
54 D 4505	C2325	C	2.0	200	60	3¾x2¼x2¼"	2	3.27	2.94	2.78	2.62
54 D 4520	C2326	C	1.0	300	43	3¾x2¼x2¼"	1¾	3.27	2.94	2.78	2.62
54 D 4073	C2327	C	1.5	200	85	1⅝x2⅞x1½"	¾	2.19	1.97	1.86	1.75
54 D 4458	C2328	C	.8	375	25	2½x3¾x2"	1½	4.12	3.71	3.50	3.30
54 D 4459	C2334	C	2.8	300	60	2⅝x2¼x4"	2½	4.12	3.71	3.50	3.30
54 D 1238	C2685	B	.035	2A	.75	2⅜x2⅝x2¾"	2	3.95	3.56	3.36	3.16
54 D 1239	C2686	B	.025	4A	.425	3x3⅜x2⅞"	3½	6.90	6.21	5.87	5.52
54 D 1240	C2687	B	.010	8A	.15	3¼x3¾x3 3/16"	5½	9.04	8.14	7.68	7.23
54 D 1241	C2688	B	.010	12½A	.11	3½x4⅛x3 9/16"	6	10.50	9.45	8.93	8.40
54 D 1242	C2689	B	.005	22½A	.03	3⅞x4½x4½"	12	15.14	13.63	12.87	12.11
54 D 1137	C2690	§	.3/.075	1.0/2.0	3/.75	3 7/16x2⅞x3¼"	5	8.59	7.73	7.30	6.87
54 D 1138	C2691	§	.08/.02	2.5/5A	.6/.15	3¾x3⅛x3¾"	7	11.95	10.76	10.16	9.56
54 D 1139	C2704	C	9.0	125	250	2¼x3⅝x1⅞"	1¾	3.62	3.26	3.08	2.90
54 D 1140	C2705‡	A	10.0	200	150	3 9/16x3x3½"	4½	8.47	7.62	7.20	6.78
54 D 2411	C2707	C	2.0	15	70	1 3/16x2 3/16x1¼"	¼	1.72	1.55	1.46	1.38
54 D 2413	C2708	C	0.32	600	10	1 15/16x3 5/16x2"	1¼	3.49	3.14	2.97	2.79



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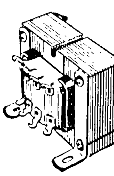

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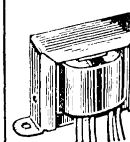

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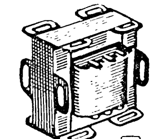

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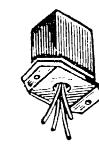

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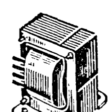

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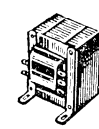


G

SWINGING CHOKES

Stock No.	Mfr's Type	Fig.	Inductance Range Hys.	Ma	Ohms	Size H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 3657	C1400†	A	12-2	17.5-175	100	3 3/16x2⅝x2⅝"	2½	5.87	5.28	4.99	4.70
54 D 3659	C1401†	A	12-2	20-200	80	3⅝x3⅛x3"	3½	7.10	6.39	6.04	5.68
54 D 3660	C2307†	A	20-4	30-300	80	4¾x3⅞x4"	8	13.85	12.47	11.77	11.08

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

For single-ended or push-pull output stages matching to line or voice-coil. *Push-pull; others single-ended.

Stock No.	Mfr's Type	Fig.	Primary	Sec.	Watts	Size (In.) H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4144	A3309	C	5,000	3-4	3	1 3/16x2⅛x1⅜	½	2.19	1.97	1.86	1.75
54 D 4297	A3311*	A	10K CT	500/15/8/4	25	3⅝x3x3⅛	3½	7.39	6.65	6.28	5.91
54 D 4244	A3328	C	4,000	3.5	3	1 3/16x2⅛x1	½	1.62	1.46	1.38	1.30
54 D 4243	A3332	C	2,000	3.2	3	1 3/16x2⅛x1	½	1.57	1.41	1.33	1.26
54 D 4020	A3800*	A	5,000 CT	500/250/15/8/4	30	3⅝x3x3⅜	4	7.77	6.99	6.60	6.22
54 D 4021	A3801*	A	6,600 CT	500/250/15/8/4	35	4x3¼x3⅜	4¾	9.89	8.90	8.41	7.91
54 D 4004	A3877	C	5,000	4	5	1⅜x2⅜x1⅜	½	1.67	1.50	1.42	1.34
54 D 4010	A3879	C	10,000	4	5	1⅜x2⅜x1⅜	½	1.70	1.53	1.45	1.36

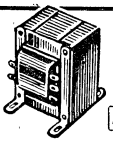
G RECTIFIER TRANSFORMERS

Multi-tap transformers for low-voltage, high-current power supplies with full-wave center-tapped or bridge rectifier circuits. Have tapped primary and additional tapped winding, permitting a wide range of output voltages. Primaries operate from 117 volts, 50-60 cycle AC. With wiring charts.

Stock No.	Type RT-	Range of AC Volts	Max. DC Output Load Resistive	Capacitive	Size (In.) H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4372	201	11.7-29.4	11.2v @ 2.0A	13.8v @ 2.0A						
		11.1-28.5	23.0v @ 1.25A	30.0v @ 1.25A	3⅛x2½x3⅜	2½	5.55	5.00	4.72	4.44
54 D 4373	202	12.0-29.8	11.1v @ 4.0A	14.7v @ 4.0A						
		12.0-29.8	24.3v @ 2.0A	33.0v @ 2.0A	3⅝x2⅞x3½	4	7.72	6.95	6.56	6.18
54 D 4374	204	11.7-29.2	12.0v @ 8.0A	14.5v @ 8.0A						
		11.6-29.2	24.0v @ 4.0A	32.4v @ 4.0A	4x3¼x4⅛	6¼	9.95	8.96	8.46	7.96
54 D 4375	206	12.0-29.7	11.5v @ 12.0A	14.4v @ 12.0A						
		12.0-29.7	24.0v @ 6.0A	32.0v @ 6.0A	4¼x3 7/16x5⅛	9¼	14.24	12.82	12.10	11.39
54 D 4376	208	12.1-29.2	11.4v @ 15.0A	14.8v @ 15.0A						
		12.1-29.2	23.7v @ 8.0A	32.5v @ 8.0A	4¾x3¾x5¼	12½	17.95	16.16	15.26	14.36
54 D4378U	2012	12.2-29.0	11.4v @ 22.5A	14.3v @ 22.5A						
		12.2-29.0	23.5v @ 12.0A	33.0v @ 12.0A	5⅜x4⅜x6⅜	20½	31.35	28.22	26.65	25.08

Transformers

SINGLE-SECONDARY FILAMENT TRANSFORMERS



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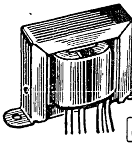

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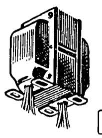

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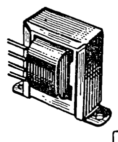

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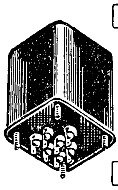

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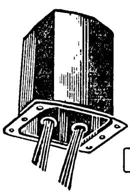

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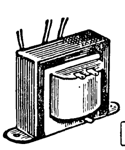

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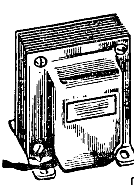

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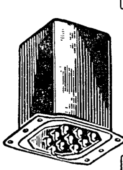


J

Filament transformers that provide voltages and currents for heating a wide variety of receiving and transmitting tubes. All are center-tapped, except Types P4026, P6469, P8190 and P6462, not tapped. All operate from 117 v., 50-60 cycle AC. *Indicates units with 107 v. primary tap for low line voltage conditions.

Stock No.	Mfr's Type	Fig.	Volts	Amps	rms V. Insul.	Size HxWxD	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4197	P4026	B	2.5	1.5	2500	1⅝x2⅞x1½"	1	3.32	2.99	2.82	2.66
54 D 4141	P6133	D	2.5	5.0	7500	2 11/16x3 5/16x2¼"	1½	4.30	3.87	3.66	3.44
54 D 3506	P6454*	D	2.5	10.0	7500	3⅛x3⅝x2½"	2½	4.67	4.20	3.97	3.74
54 D 4301	P3060	A	2.5	10.0	10KV	3½x2⅞x2½"	2½	7.70	6.93	6.55	6.16
54 D 4262	P6467	B	5.0	3.0	2500	2x3 5/16x2"	1½	3.65	3.29	3.10	2.92
54 D 3507	P3026*	C	5.0	3.0	2500	3 3/16x2⅝x2⅝"	2½	5.89	5.30	5.01	4.71
54 D 3508	P6455*	D	5.0	6.0	2000	2⅝x3 5/16x2¼"	2	5.20	4.68	4.42	4.16
54 D 3510	P6135	A	5.0	10.0	2500	3⅛x2½x2⅞"	3	6.00	5.40	5.10	4.80
54 D 4199	P6433	A	5.0	15.0	2500	3⅛x2½x2⅞"	3	8.39	7.55	7.13	6.71
54 D 3511	P6468*	H	5.0	30.0	2500	4 5/16x3 9/16x3⅞"	4½	16.05	14.45	13.64	12.84
54 D 4888	P6492	C	5.0	30.0	2500	4¾x3¾x3⅞"	7½	13.39	12.05	11.38	10.71
54 D 4887	P6465	B	6.3	.6	1500	1⅜x2⅜x1⅜"	½	2.24	2.02	1.90	1.79
54 D 4308	P6134	B	6.3	1.2	3000	1⅝x2¾x1¾"	1	2.39	2.15	2.03	1.91
54 D 4584	P8190	B	6.3	1.2	5000	2x3¼x1¾"	1	3.10	2.79	2.64	2.48
54 D 4263	P6466	B	6.3	3.0	2500	2x3 5/16x2"	1½	3.62	3.26	3.08	2.90
54 D 4309	P5014	A	6.3	3.0	2500	3⅛x2½x2½"	2	5.00	4.50	4.25	4.00
54 D 3512	P6462*	D	6.3	3.0	7000	3x3½x2⅝"	2	6.60	5.94	5.61	5.28
54 D 1200	P6456*	B	6.3	6.0	2000	2¼x3⅝x2½"	2	4.29	3.86	3.65	3.43
54 D 4312	P3064	A	6.3	6.0	2500	3⅛x2½x2⅞"	2½	5.80	5.22	4.93	4.64
54 D 4313	P6308*	A	6.3	10.0	2500	3½x2⅞x2⅞"	3½	7.34	6.61	6.24	5.87
54 D 4265	P6309*	A	6.3	20.0	2500	4⅝x3¾x3"	6¾	11.19	10.07	9.51	8.95
54 D 4314	P5015	A	7.5	4.0	2500	3⅛x2½x2⅞"	3	5.27	4.74	4.48	4.22
54 D 4257	P5016	A	10.0	4.0	2500	3½x2⅞x2⅝"	3¼	6.74	6.07	5.73	5.39
54 D 3514	P6458*	A	10.0	5.0	2000	3 1/16x2½x2⅛"	3	5.34	4.81	4.54	4.27
54 D 4318	P6139	A	10.0	8.0	2500	3⅞x3⅛x3⅛"	5	8.62	7.76	7.33	6.90
54 D 3530	P6461	C	10.0	10.0	2000	3⅞x3¼x3⅝"	5	9.67	8.70	8.22	7.74
54 D 4196	P3020*	C	11.0	10.0	2500	4¾x4x3½"	7¾	11.54	10.39	9.81	9.23
54 D 4200	P8130	B	12.6	2.0	1500	2x3¼x2"	1½	3.95	3.56	3.36	3.16
54 D 3532	P8358	B	12.6	3.0	1500	2¼x3⅝x2⅛"	1¾	4.82	4.34	4.10	3.86
54 D 4143	P6469	B	25.2	1.0	1500	2x3¼x2"	1½	3.69	3.32	3.14	2.95
54 D 3531	P8357	B	25.2	2.0	1500	2⅝x4x2¼"	2¼	5.95	5.36	5.06	4.76

E FULL-FREQUENCY-RANGE AUDIO TRANSFORMERS

Response: ±2 db, 30-20,000 cps. Maximum operating level: +7 db. 2x1½x1½". Av. shpg. wt., 10 oz.

Stock No.	Mfr's Type	Application	Primary Impedance	Secondary Impedance	EACH 1-9	10-24	25-49	50-99
54 D 3187	WF20	Input	50, 125/150, 200, 250, 333, 500/600	50,000	19.10	17.19	16.24	15.28
54 D 3192	WF30	Mixing	50, 125/150, 200, 250, 333, 500/600	50, 125/150, 200, 250, 333, 500/600	20.35	18.32	17.30	16.28

G TUBE CHECKER TRANSFORMER

Multiple-secondary type for use in tube testers. Primary; 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/4.0/5.0/6.3/7.0/7.5/12/20/25/30/35/50/70/85/110/117. Mtg. ctrs., 3 9/16. With data sheet.

Stock No.	Mfr's Type	Primary Impedance	Size	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4139	P-1834-3	125/115/105	2⅝x4x2½"	2½	10.94	9.85	9.30	8.75

H OSCILLOSCOPE POWER TRANSFORMERS

For 2X2 rectifiers in half-wave supplies. P-8150 Secondaries (2): 1550 v. AC at 1.5 ma; 2.5 v. AC at 1.75 A. P-8151 Secondaries (3): 2400 v. AC at 5 ma; 2.5 v. AC at 2 A; 2.5 v. AC at 2 A. P-8178 Secondaries (4); 1800 v. AC at 2 ma; 2.5 v. AC at 1.8 A; 2.5 v. at 2. 2A; 6.3 v. at 0.6 A. Type P-8150 not illustrated.

Stock No.	Mfr's Type	Primary Input Voltage	Size HxWxD	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 3533	P-8150	117 v., 60 cycle AC	3 1/16x3x2½"	2	9.99	8.99	8.49	7.99
54 D 3534	P-8151	117 v., 60 cycle AC	4 5/16x3 9/16x3⅞"	6½	14.79	13.31	12.57	11.83
54 D 3274	P-8178	117 v., 50-60 cycle AC	3⅞x3¾x3¼"	5	11.70	10.53	9.95	9.36

POWER TRANSFORMERS FOR CAPACITOR-REACTOR INPUT FILTERS

Capacitor input rating is for intermittent duty: 200 ma; †160 ma. *For reactor input. 117 v. 60-cy. primaries.

Stock No.	Mfr's Type	Fig.	Plate VCT	Plate Ma	Filaments V @ A	Filaments V @ A	Size H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 3461	PC-8301†	C	830	*200	....	....	4x3¼x3 7/16"	4¾	8.84	7.96	7.51	7.07
54 D 3462	PC-8302	C	1030	*235	....	....	4 5/16x3⅝x4⅛"	6¾	11.82	10.64	10.05	9.46
54 D 4193	PC-8304	C	1500	*265	....	....	4¾x4x4⅞"	11½	16.90	15.21	14.37	13.52
54 D 4194	PC-8305	C	1840	*250	....	....	4¾x4x5"	12	18.87	16.98	16.04	15.10

POWER TRANSFORMERS FOR CAPACITOR INPUT FILTERS

Compound-sealed construction. *Extra winding: 6.3 v. CT at 1 amp; 117 v., 50-60 cycle primaries.

54 D 4617	PCC-105	F	690	105	5 @ 2	6.3 @ 3.5	4 5/16x3 5/16x3 11/16"	6½	14.75	13.28	12.54	11.80
54 D 4620	*PCC-200	F	770	200	5 @ 3	6.3 @ 4.5	5 5/16x4⅛x4 9/16"	12	25.50	22.95	21.68	20.40
54 D 3572	*PSC-200	J	770	200	5 @ 3	6.3 @ 4.5	5 5/16x4⅛x4 9/16"	12	33.82	30.44	28.75	27.06

POWER TRANSFORMER FOR CHOKE INPUT FILTERS. 117 v., 50-60 cycle primary.

54 D 3593	PCR-105	F	900	105	5 @ 2	6.3 @ 3.5	4 5/16x3 5/16x3 11/16"	6½	14.87	13.38	12.64	11.90

Transformers — CHICAGO STANCOR

TRANSISTOR TRANSFORMERS

†Maximum primary DC. All have shpg. wts. of 3 oz., except: TP-1, 2 3/4 lbs.; TA-11, 1 lb.; TA-58, 1/2 lb.

INPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp.	Sec. Imp.	† Ma	Pri. Res.	Sec. Res.	Watts	Size HxWxD	EACH 1-9	10-24	25-49	50-99
54 D 3889	TA-47	A	1K CT	200K CT	....	123	1815	.300	1 3/16x1 5/8x3/4"	3.99	3.59	3.39	3.19

OUTPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp.	Sec. Imp.	† Ma	Pri. Res.	Sec. Res.	Watts	Size HxWxD	1-9	10-24	25-49	50-99
54 D 3962	TA-11	A	48 CT	8/16	275	5	1.5	5	2x3 5/16x1 3/4"	4.52	4.07	3.84	3.62
54 D 3963	TA-12	A	20 CT	8	500	.55	.35	10	1 3/8x1 7/16x1 1/2"	2.22	2.00	1.89	1.78
54 D 3863	TA-21	B	500 CT	4/8/16	....	75.3	3.55	.150	2 1/32x1 3/16x5/8"	4.19	3.77	3.56	3.35
54 D 3881	TA-39	A	100 CT	4/8/16	....	10.9	1.45	.300	1 3/16x1 5/8x3/4"	4.17	3.75	3.54	3.34
54 D 3884	TA-42	A	500 CT	4/8/16	....	47	.85	.300	1 3/16x1 5/8x3/4"	3.99	3.59	3.39	3.19
54 D 3885	TA-43	A	700 CT	4/8/16	....	77	1.15	.300	1 3/16x1 5/8x3/4"	4.17	3.75	3.54	3.34

INTERSTAGE TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp.	Sec. Imp.	† Ma	Pri. Res.	Sec. Res.	Watts	Size HxWxD	1-9	10-24	25-49	50-99
54 D 3873	TA-31	B	5K CT	10K CT	....	635	825	.150	2 1/32x1 3/16x5/8"	3.99	3.59	3.39	3.19
54 D 3876	TA-34	B	10K	200 CT	....	1200	33.4	.150	2 1/32x1 3/16x5/8"	4.22	3.80	3.59	3.38
54 D 3877	TA-35	B	10K	2K CT	....	1200	257	.150	2 1/32x1 3/16x5/8"	3.99	3.59	3.39	3.19
54 D 3880	TA-38	B	500 CT	150 CT	....	62	21.2	.150	2 1/32x1 3/16x5/8"	4.05	3.65	3.44	3.24

DRIVER TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp.	Sec. Imp.	† Ma	Pri. Res.	Sec. Res.	Watts	Size HxWxD	1-9	10-24	25-49	50-99
54 D 3958	TA-7	A	100	100 CT	100	12	12	.5	1 5/8x2 7/8x1 3/8"	2.19	1.97	1.86	1.75
54 D 1131	TA-58	A	100	200 CT	200	6.5	15.5	.5	1 1/4x2x1 1/4"	2.60	2.34	2.21	2.08
54 D 3478	TA-59	A	500 CT	200 CT	50	36.5	15.5	.5	1 1/4x2x1 1/4"	2.67	2.40	2.27	2.14

POWER TRANSFORMERS

Primaries for 117-volt 60 cycle AC. TP-1 for bridge rectifier; identical, dual plate supplies. *Tapped primary.

Stock No.	Mfr's Type	Fig.	Plate Supply AC V.	DC Ma	Wt., Lbs.	Size HxWxD	EACH 1-9	10-24	25-49	50-99
54 D 3966	TP-1	C	13 or 18	900	2 3/4	3x3x2 1/2"	5.60	5.04	4.76	4.48
54 D 2398	*TP-2	A	10/20 CT/40 CT	100	3/4	1 5/8x2 13/16x1 5/8"	4.52	4.07	3.84	3.62
54 D 2399	*TP-3	A	10/20 CT/40 CT	300	1 1/2	2 1/4x3 3/4x2"	6.07	5.46	5.16	4.86
54 D 2401	*TP-4	C	10/20 CT/40 CT	1000	3 1/4	3 3/16x2 5/8x3"	10.19	9.17	8.66	8.15
54 D 1642	P-8196	C	80 CT	1200	4 1/2	3 1/2x2 7/8x3 1/2"	7.65	6.89	6.50	6.12

[D] INVERTER TRANSFORMER FOR TRANSISTOR CIRCUITS

For circuits requiring conversion of 12 v. battery voltage to 250 VDC @ 275 ma or 500 VDC @ 165 ma.

Stock No.	Mfr's Type	Size HxWxD	Mtg. Ctrs.	Shpg. Wt.	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
54 D 3476	DCT-2	2 11/16x2 1/8x2 1/4"	1 1/2x2 1/4"	1 1/2 lbs.	20.82	18.74	17.70	16.66

[E] ISOLATION TRANSFORMERS

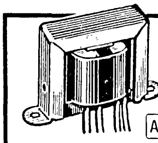
Electrostatic shield for complete line isolation. Switch for 3 primary v.—125, 115, 105. On 115-v. line, secondaries are 105, 115 and 125 v. 8' cord; standard receptacle on secondary. For 50-60 cycles.

Stock No.	Mfr's Type	Watts	Size (HWD)	Mtg. Ctrs.	Wt., Lbs.	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
54 D 4726	IS-50	50	4 11/16x3 5/16x3 11/16"	2 3/4x3 7/8"	5	12.22	11.00	10.39	9.78
54 D 4727	IS-100	100	5 5/16x4 1/8x4 9/16"	2 1/2x4 3/4"	8 1/2	21.29	19.16	18.10	17.03
54 D 4728	IS-150	150	6 1/16x4 13/16x5 5/16"	3 1/2x5 3/8"	12 1/2	25.64	23.08	21.79	20.51
54 D 4729	IS-250	250	6 1/16x4 13/16x5 5/16"	3 1/2x5 3/8"	18 1/4	32.05	28.85	27.24	25.64

PLATE-FILAMENT POWER TRANSFORMERS

CT 6.3 volt filament windings except *for 6AX5, 6X4, 6X5 tubes or with selenium rectifiers. †1/2 wave. Primaries, 117 v. 60 cycle. ‡For AC powered photoflash circuits, 105/115/125 v. primary, no center tap.

Stock No.	Mfr's Type	Fig.	Plate VCT	Plate Ma	Filaments V @ A	Filaments V @ A	Size H x W x D	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4162	*PS-8415	G	†125	15	....	6.3 @ .6	2x2 3/8x1 3/8"	3/4	2.69	2.42	2.29	2.15
54 D 4078	*PA-8421	A	†125	50	....	6.3 @ 2	2 1/4x3 3/4x2 1/8"	1 1/2	4.22	3.80	3.59	3.38
54 D 4216	*PS-8416	G	250	25	....	6.3 @ 1	2 5/16x2 7/8x1 3/4"	1	3.22	2.90	2.74	2.58
54 D 4445	‡P-6425	G	380	20	....	....	2 5/16x2 15/16x2"	1 1/2	4.17	3.75	3.54	3.34
54 D 4077	*PC-8418	C	460	50	....	6.3 @ 2.5	3 3/16x2 5/8x2 5/8"	2 1/4	5.34	4.81	4.54	4.27
54 D 4176	PC-8401	C	470	40	5 @ 2	6.3 @ 2	3 3/16x2 5/8x2 5/8"	2 1/4	6.15	5.54	5.23	4.92
54 D 4177	PC-8402	C	480	55	5 @ 2	6.3 @ 2	3 3/16x2 5/8x2 3/4"	2 1/2	5.87	5.28	4.99	4.70
54 D 2402	*PC-8417	C	440	50	6.3 @ 0.6	25.2 @ 0.5	3 3/16x2 5/8x2 5/8"	2 1/4	7.37	6.63	6.26	5.90
54 D 4215	*PC-8419	C	480	70	....	6.3 @ 3	3 3/16x2 5/8x2 7/8"	2 3/4	6.12	5.51	5.20	4.90
54 D 4179	PC-8404	C	520	90	5 @ 2	6.3 @ 3	3 5/8x3x3 1/2"	4	7.90	7.11	6.72	6.32
54 D 4183	PC-8405	C	540	120	5 @ 3	6.3 @ 3.5	4x3 1/4x3 1/2"	5	10.30	9.27	8.76	8.24
54 D 1133	*P-6358	C	600	65	....	6.3 @ 2.7	3 1/8x2 5/8x2 1/2"	3	6.52	5.87	5.54	5.22
54 D 4184	PC-8407	C	650	55	5 @ 2	6.3 @ 2	3 3/16x2 5/8x3 1/8"	3 1/4	6.90	6.21	5.87	5.52
54 D 4185	PC-8409	C	700	90	5 @ 2	6.3 @ 3	3 5/8x3x3 5/8"	4 1/2	10.48	9.43	8.91	8.38
54 D 4186	PC-8410	C	720	120	5 @ 3	6.3 @ 3.5	4x3 1/4x3 3/4"	5 1/2	10.04	9.04	8.53	8.03
54 D 2406	PC-8422	C	650	150	5 @ 3	6.3 @ 5	4x3 1/4x3 7/8"	6	10.94	9.85	9.30	8.75
54 D 1237	PM-8423	F	650	90	5 @ 2	6.3 @ 3.5	3x2 13/16x3 3/8"	4	9.27	8.34	7.88	7.42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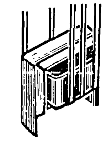
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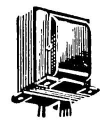
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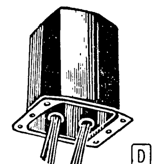
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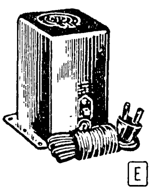
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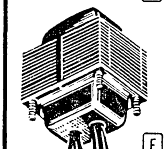
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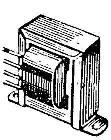
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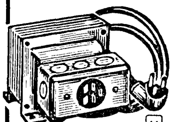

[H]

[H] AIR CONDITIONER AUTOTRANSFORMERS

Type PSU-2000. For home air conditioners with 1/2 to 1-hp motors (1/2 to 1-ton units). Converts 208-v. unit to 230-v. line, or 230-v. unit to 208-v. line. With line cord, polarized plug, receptacle. Rated: 2.3 KVA. 3 1/2x6 1/2x3 3/4". Shpg. wt., 9 lbs.

54 D 3967. 1-9....................................Each 19.60
10-24.............Each 17.64 25-49..............Each 16.66

Type PSU-3000. Similar to above, but for a 1 to 2-hp motor (1 to 2-ton units). Rated: 3 KVA. 4x6x4 1/2". 10 lbs.

54 D 3968. 1-9....................................Each 23.12
10-24.............Each 20.81 25-49..............Each 19.65

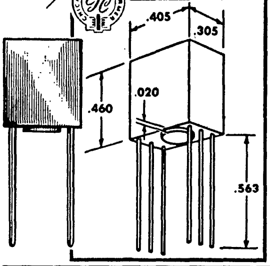
[A] INTERSTAGE TRANSFORMERS

Have maximum primary DC rating of 10 ma. Single plate to push-pull grids, except A-53, single plate to single grid. Core dimensions: 1/2x1/2" in. A-53, A-53-C. Have turns ratio of 1:3 for primary to secondary, except A-53, not center-tapped; and A-52-C, 1:2.

Stock No.	Mfr's Type	Pri. Imp.	Size HxWxD	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4079	A-52-C	7-15K	1 3/8x2 3/8x1 3/8"	1/2	2.57	2.31	2.18	2.06
54 D 4090	A-53	7-20K	1 3/8x2 3/8x1 1/2"	1/2	2.34	2.11	1.99	1.87
54 D 4081	A-53-C	7-15K	1 3/8x2 3/8x1 3/8"	1/2	2.74	2.47	2.33	2.19

CHICAGO STANCOR

Military Transformers, Inductors

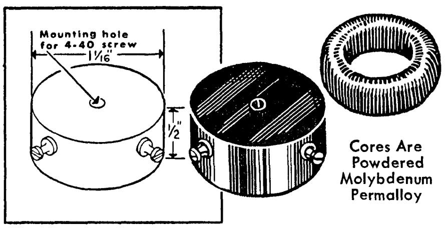


MIL-T-27A POLYCHROMATRAN TRANSFORMERS, CHOKES

- Color-Coded According to Application
- Fatigue-Resistant Gold-Plated Leads
- Extended Low-Frequency Response
- Reduced Distortion Levels
- Minimum Size and Weight
- Rms Test Rating of 500 Volts

Specially engineered for use with printed circuit boards. Feature minimum size and weight, and low distortion levels. All units have leads of fatigue-resistant nickel-iron alloy, .020″ in diameter, and gold-plated to meet MIL-G-45204 Class I specifications. Incorporating the latest advances in transformer design, these units offer reductions in distortion of up to 50%, plus substantially improved lower-end frequency response. In addition, each unit is color-coded according to application—greatly reducing chance of error in selection and handling during production. Saves time and money. All have rms test-voltage rating of 500 volts. Extremely lightweight and compact—actual weight per unit is approximately ¾ ounce. Average size, .460x.405x.305″.

Stock No.	Mfr's Type	MIL Type No.	Cap., Mw	Application	Impedance Primary	Impedance Sec.	Unbal. DC Ma In Pri.	DC Resist. Pri.	DC Resist. Sec.	Turns Ratio	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99
54 D 3407	PCT-15	TF5SX16ZZ	35	Input	50,000 CT	1,000 CT	0	4600	90	7.1:1	8.19	7.37	6.96	6.55
54 D 3410	PCT-23	TF5SX13ZZ	55	Interstage	25,000 CT	1,000 CT	0.5	2000	140	5:1	7.71	6.94	6.55	6.17
54 D 3411	PCT-25	TF5SX13ZZ	75	Interstage	10,000 CT	1,500 CT	1	1250	360	2.57:1	7.71	6.94	6.55	6.17
54 D 3413	PCT-31	TF5SX13ZZ	75	Driver	10,000 CT	2,000 CT	1	1250	400	2.24:1	7.39	6.65	6.28	5.91
54 D 3415	PCT-43	TF5SX17ZZ	75	Output	1,000	50	3	175	9.5	4.4:1	6.26	5.63	5.32	5.01
54 D 3416	PCT-54	TF5SX17ZZ	75	Output	600 CT	12	4.5	92	3.6	7.06:1	6.42	5.78	5.46	5.14
54 D 3422	PCT-76	TF5SX13ZZ	75	Output or Isolation	10,000 CT	10,000 CT	1	1440	1500	1:1	8.35	7.52	7.10	6.68
54 D 3423	PCT-77	TF5SX17ZZ	75	Output or Isolation	600 CT	600 CT	3	85	110	1:1	10.07	9.06	8.56	8.06
54 D 3424	PCT-116	TF5SX20ZZ	....	Choke	6 HYS	....	2	1800	....	....	6.10	5.49	5.19	4.88
54 D 3425	PCT-117	TF5SX20ZZ	....	Choke	1.25 HYS	....	2	200	....	....	5.14	4.63	4.37	4.11
54 D 3427	PCT-128	TF5SX20ZZ	....	Choke	0.3 HY	....	4	50	....	....	5.14	4.63	4.37	4.11



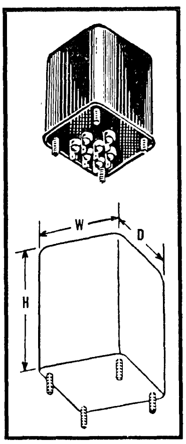
Cores Are Powdered Molybdenum Permalloy

MIL-T-27A HERMETICALLY SEALED TOROIDAL INDUCTORS—TF5RX20ZZ

- High Q Over Wide Frequency Ranges
- 1% Tolerance on Inductance
- Impervious to Humidity
- Operate from −55° to +85° Centigrade

Four hermetically sealed toroidal inductors conforming to MIL-T-27A. Feature high Q over wide frequency range, minimum pickup from external magnetic fields, tolerance of ±1% on inductance, and high stability over temperature range, −55° to +85° C. Toroids are wound on cores of powdered molybdenum permalloy, with attention to stability, low temperature coefficients, and ruggedness. Plastic encapsulated in molded cases. Individual units can be stacked and mounted to obtain various inductance combinations. Highly resistant to shock and vibration.

Stock No.	Mfr's Type	Inductance (Mh)	DC Ohms	Size HxWxD	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99
54 D 3439	TM-5A	5	1.85	1 1/16″ Dia. x ½″ H.	10.00	9.00	8.50	8.00
54 D 3434	TM-10A	10	3.25	1 1/16″ Dia. x ½″ H.	10.00	9.00	8.50	8.00
54 D 3440	TM-20A	20	7	1 1/16″ Dia. x ½″ H.	10.00	9.00	8.50	8.00
54 D 3452	TM-1000A	1000	340	1 1/16″ Dia. x ½″ H.	10.00	9.00	8.50	8.00



MIL-T-27A HERMETICALLY SEALED FILAMENT TRANSFORMERS—TF4RXO1YY

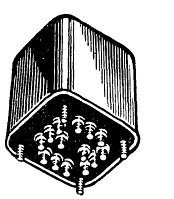
Quality transformers for heating a wide range of receiving and transmitting tubes. Conform to MIL-T-27A specifications. All have 115-230 v., 50-60 cycle primaries and 2500 v. insulation. Maximum operating temperature. 105° C. Minimum life expectancy, 10,000 hours. Type FH-615 has four 6-32 mounting studs; Types FH-65 and FH-610 have 8-32 mounting studs. Mounting centers: FH-615, 1.562x1.375″; FH-65, 2.000x1.875″; FH-610, 2.375x2.125″. All are metal encased and hermetically sealed.

Stock No.	Mfr's Type	Sec. VCT	Amps	Size HxWxD	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99
54 D 4721	FH-615	6.3	1.5	2 11/16x2⅛x2¼″	19.17	17.25	16.29	15.34
54 D 3621	FH-65	6.3	5.5	3½x2 23/32x2⅞″	19.99	17.99	16.99	15.99
54 D 4695	FH-610	6.3	10	4¼x3x3¼″	17.18	15.46	14.60	13.74

MIL-T-27A HERMETICALLY SEALED POWER TRANSFORMERS—TF4RX03YY

All transformers are hermetically sealed. Max. altitude, 10,000 feet. All are designed for use in capacitor input filtering systems except *reactor input. Primary windings are for 117 v., 50-60 cycle AC.

Stock No.	Mfr's Type	Plate VCT	Plate Ma	Filaments V @ A	Filaments V @ A	Size H x W x D	Wt., Lbs.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99
54 D 3687	PHC-70	670	70	5 @ 2	6.3 @ 3	4¼x3x3¼″	4½	30.60	27.54	26.01	24.48
54 D 3689	PHC-120	750	120	5 @ 3	6.3 @ 4	4 11/16x3 5/16x3 11/16″	9½	25.27	22.74	21.48	20.22
54 D 3697	*PHR-55	700	55	5 @ 2	6.3 @ 2	3¾x2 11/16x2⅞″	3¼	19.64	17.68	16.69	15.71
54 D 3718	*PHR-120	1000	120	5 @ 3	6.3 @ 4	4 11/16x3 5/16x3 11/16″	9½	23.75	21.38	20.19	19.00



MS (MILITARY STANDARD) FILAMENT TRANSFORMERS

Both units have solder terminals. Maximum operating altitude is 10,000 feet. With 6-32 mounting studs. Mounting centers: FMS-62, 1.687x1.437″; FMS-65, 2.125x1.750″. Secondary AC voltages have ±3% tolerances. Both transformers have primaries tapped at 105, 115 and 125 volts, 54-66 cycles. Built to meet requirements of MIL-T-27. Made under quality control conditions specified in MIL-Q-9858.

Stock No.	Mfr's Type	Secondary V	Secondary A	Insul. V rms	Size H x W x D	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-99
54 D 3493	FMS-62	6.3	2.0	2500	2½x2 7/16x2 5/16″	13.71	12.34	11.65	10.97
54 D 3494	FMS-65	6.3	5.0	2500	2 13/16x2⅜x2¾″	15.60	14.04	13.26	12.48

General-Purpose Transformers

CHICAGO STANCOR

ISOLATION TRANSFORMERS

All have electrostatic shields grounded internally to core. RMS insulation test: 1500 v. *Primary is tapped for 125, 115 and 105 v.; 115-volt secondary, †Isolation testing transformer with 117 v. primary; has tapped secondary with three standard receptacles for 105, 115 and 125 volts. ‡117 v. primary and 117 v. secondary. §Stepdown isolation transformers with primary tapped for 250, 230 and 210 v.; 115-volt secondary.

Stock No.	Mfr's Type	Fig.	Size HxWxD	Watts	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 3552 K	P-6125*	A	7¾x5⅝x7¾"	1000	37¾	85.20	76.68	72.42	68.16
54 D 4443	P-6160*	B	4¾x4x3⅞"	100	7	16.47	14.82	14.00	13.18
54 D 3551	P-6161*	B	4¾x4x5⅜"	250	14¼	22.90	20.61	19.47	18.32
54 D 4448 K	P-6298*	B	7⅝x6⅛x7⅝"	500	25¼	59.70	53.73	50.75	47.76
54 D 4475	P-6371‡	C	5 5/16x4 9/16x5¼"	175	9	22.12	19.91	18.80	17.70
54 D 3553	P-6385§	B	4¾x4x5⅜"	250	14¼	26.05	23.45	22.14	20.84
54 D 4207 K	P-6387§	B	7¾x5⅝x7½"	500	26½	69.07	62.16	58.71	55.26
54 D 4449	P-6410‡	B	3 9/16x2 15/16x3⅛"	50	4	8.49	7.64	7.22	6.79
54 D 4444	P-6415†	D	5⅜x4½x5¾"	350	17	27.65	24.89	23.50	22.12

CONTROL TRANSFORMERS

Automation-type transformers designed to provide trouble-free performance in high-speed automatic equipment. Well adapted to relays and pilot lamps. Primaries for either 115 or 230 v., 50-60 cycle.

Stock No.	Mfr's Type	Fig.	Secondary Parallel	Secondary Series	Size HxWxD	Mtg. Ctrs.	Wt. Lbs,	EACH 1-9	10-24	25-49	50-99
54 D 3276	P-6375	E	6V @2A	12V @1A	2⅜x2⅞x1¾"	2⅜"	1	3.67	3.30	3.12	2.94
54 D 3277	P-6376	E	6V @4A	12V @2A	2¾x3⅛x2"	2 13/16"	1½	4.30	3.87	3.66	3.44
54 D 3278	P-6377	E	12V @4A	24V @2A	3⅛x3⅝x2⅜"	3⅛"	2½	5.35	4.82	4.55	4.28
54 D 3279	P-6378	F	12V @8A	24V @4A	3½x2⅞x3"	2¼x2¼"	4¼	8.70	7.83	7.40	6.96
54 D 3280	P-6379	F	12V @16A	24V @8A	4⅛x3¾x3½"	3x2¾"	8	14.25	12.83	12.11	11.40

LINE-TO-VOICE-COIL TRANSFORMERS

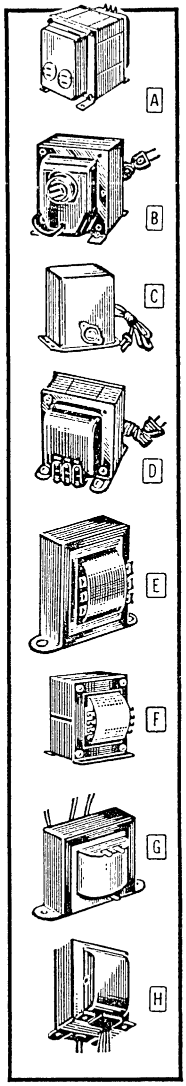
*Type A3837 is an autotransformer for one or more speakers in parallel across 500-ohm line. †Constant-voltage P.A., EIA 70.7 volt types. §25 volt types. #Indicates power steps in watts.

Stock No.	Mfr's Type	Fig.	Primary Impedance	Secondary Impedance	Watts	Mtg. Ctrs.	Wt. in Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4088	A3837*	E	500/1000 1500/2000 2500/3000	.06 to 8, .12 to 16 .18 to 24, .24 to 32 .30 to 40, .36 to 48	15	2⅜"	1½	4.84	4.36	4.11	3.87
54 D 4085	A7947	G	2000/1500/ 1000/500	6-8/3.2	8	2⅜"	¾	3.29	2.96	2.80	2.63
54 D 4089	A8101	G	500	3.2/6-8	5	2"	½	1.99	1.79	1.69	1.59
54 D 4091	A8102†	E	8/4/2/1/.5#	4/8/16	8	2"	¾	3.97	3.57	3.37	3.18
54 D 4092	A8103†	E	16/8/4/2/1/.5#	4/8/16	16	2 13/16"	1½	5.44	4.90	4.62	4.35
54 D 4099	A8104	E	3000/2000/ 1500/1000/500	16/8/4	10	2⅜"	1½	4.77	4.29	4.05	3.82
54 D 4889	A8105†	G	5/2.5/1.25/ .62/.31#	4/8	5	2"	½	3.24	2.92	2.75	2.59
54 D 1296	A8080†	G	5/4/3/2/1#	8/16	5	2"	½	3.22	2.90	2.74	2.58
54 D 1298	A8082†	E	15/14/13/12/11#	8/16	15	2⅜"	1¼	4.30	3.87	3.66	3.44
54 D 1202	A8096§	E	8/4/2/1/0.5#	4/8/16	8	2"	¾	4.24	3.82	3.60	3.39
54 D 1203	A8097§	E	16/8/4/2/1/.5#	4/8/16	16	2 13/16"	1¾	5.22	4.70	4.44	4.18

HIGH-FIDELITY OUTPUT TRANSFORMERS

*Has screen taps for ultralinear operation. †For twin-coupled amplifiers. 4 5/16x3 9/16x4¼", except ‡3 3/16x2⅝x3¼".

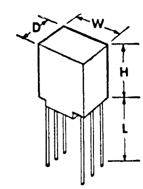
Stock No.	Mfr's Type	Fig.	Pri. Ohms (P-P)	Sec. Ohms	Pri. Ma	Max. Watts	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99
54 D 4563	A8053	H	5000	8, 16	150	50	6½	16.27	14.64	13.83	13.02
54 D 4570	A8056	H	6600	8, 16	125	50	6½	16.30	14.67	13.86	13.04
54 D 4564	A8054	H	9000	8, 16	100	50	6½	16.30	14.67	13.86	13.04
54 D 4574	A8072*	H	7600	4, 8, 16	100	25	6½	19.47	17.52	16.55	15.58
54 D 1183	A8098‡†	H	2000	8, 16, 32	140	15	3½	9.65	8.69	8.20	7.72



TRIAD "RED SPEC" SP SERIES MIL-T-27A MINIATURE TRANSISTOR TRANSFORMERS

Engineered to MIL-T-27A. Specially designed for use in all transistorized and printed circuit applications. Each unit weighs only 1/10th of an ounce! All have solid epoxy-molded cases. Provide top performance from 100 cps to 100 kc. 105-volt DC operating voltage. High-strength, bare nickel-alloy leads (.020" dia.) eliminate need for stripping or tinning. Spaced on standard 1/10" grid centers to fit printed circuit boards. Decals permanently affixed giving type, usage, lead numbers and connection data. When mounted on printed circuit board, separator plate leaves viewing area under transformer for lead inspection. *Dry hydrogen annealed Trialloy deep-drawn .020" case for 20-45 db magnetic shielding. Av. wt., 2 oz.

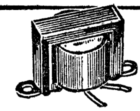
SP SPECS
H = .485
W = .410
D = .310
L = .75



Stock No.	Mfr's Type	MIL-T-27A Designation	Primary Impedance	Secondary Impedance	Mw	Application	EACH 1-9	10-24	25-49	50-99	100-249
54 D 3535	SP-4	TF5RX16ZZ	200,000 CT	1000 CT	10	Input	10.50	9.45	8.51	7.91	7.44
54 D 3539	SP-13	TF5RX13ZZ	20,000/30,000 CT	800/1200 CT	40	Interstage	9.07	8.16	7.34	6.83	6.42
54 D 3541	SP-20	TF5RX13ZZ	10,000/12,000 CT	1200/1500 CT	50	Driver	8.72	7.85	7.07	6.58	6.19
54 D 3542	SP-21	TF5RX13ZZ	10,000/12,000 CT	2000/2500 CT	50	Driver	8.77	7.89	7.10	6.60	6.20
54 D 3543	SP-29	TF5RX13ZZ	10,000/12,000 CT	500/600 CT	50	Driver	8.49	7.64	6.88	6.40	6.02
54 D 3561	SP-50	TF5RX17ZZ	500 CT	600	50	Output	7.62	6.86	6.17	5.74	5.40
54 D 3563	SP-52	TF5RX17ZZ	1500 CT	600	50	Output	7.98	7.18	6.46	6.01	5.65
54 D 3585	SP-65	TF5RX13ZZ	8000/10,000 CT	3.2/4	50	Output	7.50	6.75	6.08	5.65	5.31
54 D 3586	SP-66	TF5RX13ZZ	10,000 CT	10,000 CT	50	Output Isolation	8.48	7.63	6.87	6.39	6.00
54 D 2000	SP-67	TF5RX17ZZ	600 CT	600 CT	50	Output Isolation	7.55	6.80	6.12	5.69	5.35
54 D 3591	SP-310	....	*Magnetic shielding case			....	.84	.80	.76	.70	.67

Triad Transformers

Allied can supply the complete line of Triad transformers at OEM prices. Write, wire, or phone the Allied facility nearest you.



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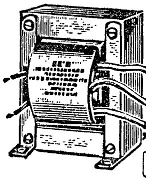

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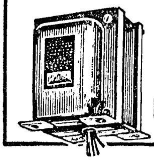


C

SINGLE-SECONDARY FILAMENT TRANSFORMERS

All 115 volt, 50-60 cycle AC primary except *60 cycle operation only.

Stock No.	Mfr's Type	Fig.	Secondary Volts	Secondary Amp	Insul. rms V	Size	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 1931	F-1X*	A	2.5CT	3	1500	1 11/16x2 13/16x1 7/8″	3/4	3.55	3.19	2.87	2.67	2.51
54 D 1932	F-3X*	A	2.5CT	10	3000	2 1/4x3 13/16x2 1/4″	1 3/4	4.98	4.48	4.03	3.75	3.53
54 D 1934	F-6X*	A	2.5CT	6	2500	1 15/16x3 1/4x2″	1 1/4	4.62	4.16	3.74	3.48	3.27
54 D 1935	F-7X	A	5CT	3	1500	1 15/16x3 1/4x2″	1 1/4	4.00	3.60	3.24	3.01	2.83
54 D 2005	F-11U	B	5.2CT	24	1500	3 13/16x3 3/16x3 7/16″	6 3/4	10.79	9.71	8.74	8.13	7.64
54 D 4953	F-13X	A	6.3	.6	1500	1 3/4x2 3/8x1 3/8″	1/2	2.67	2.40	2.16	2.01	1.89
54 D 4954	F-14X*	A	6.3CT	1.2	2500	1 11/16x2 13/16x1 5/8″	3/4	3.17	2.85	2.57	2.39	2.25
54 D 4955	F-16X	A	6.3CT	3	2500	1 15/16x3 1/4x2″	1 1/4	3.98	3.58	3.22	2.99	2.81
54 D 4956	F-18A	C	6.3CT	6	1500	3 3/16x2 5/8x2 5/8″	2 1/2	7.05	6.35	5.71	5.31	4.99
54 D 2004	F-18X	A	6.3CT	6	1500	2 9/32x4x2 1/4″	2 1/4	5.88	5.29	4.76	4.43	4.16
54 D 4957	F-21A	C	6.3CT	10	1500	3 9/16x3x3 1/4″	3 1/2	9.00	8.10	7.29	6.78	6.37
54 D 4958	F-22A	C	6.3CT	20	2000	4x3 1/4x4 3/16″	7	12.50	11.25	10.13	9.42	8.85
54 D 4935	F-23U	B	10CT	7	1500	3 1/2x2 7/8x2 15/16″	4	7.77	6.99	6.29	5.85	5.50
54 D 4234	F-28U	B	7.5CT-6.3CT	25	3000	4 5/8x3 13/16x3 7/16″	7 1/2	18.07	16.26	14.63	13.61	12.79
54 D 4235	F-29U	B	12CT-11CT-10CT	11	3000	4 3/8x3 1/2x3 1/16″	6 1/2	12.51	11.26	10.13	9.42	8.76
54 D 4959	F-25X	A	12.6CT	1.5	1500	1 15/16x3 1/4x2″	1 1/4	3.75	3.38	3.04	2.83	2.66
54 D 1937	F-26X*	A	12.6CT	2.5	1500	2 9/32x3 1/16x2 3/8″	2 1/4	4.15	3.74	3.37	3.13	2.94
54 D 4974	F-40X*	A	26.8CT	1	1500	1 15/16x3 1/4x2″	1 1/4	3.39	3.05	2.75	2.54	2.42
54 D 1938	F-41X*	A	25.2CT	2.2	1500	2 5/8x4 1/16x2 1/2″	2 1/4	4.82	4.34	3.91	3.64	3.42
54 D 3661	F-45X*	A	24CT	1	1500	1 15/16x3 1/4x2″	1 1/4	3.77	3.39	3.05	2.84	2.67

MULTIPLE-SECONDARY FILAMENT TRANSFORMERS (115-Volt, 50-60 Cycle AC Primary)

Windings may be connected in series to obtain their combined voltage—when properly phased, current will be equal to current of lowest winding—or connected in parallel to obtain combined current. F-83A has tapped primary, 105-115-125, 60 cycle operation only.

Stock No.	Mfr's Type	Fig.	Secondaries Volts	Secondaries Amperes	Insul. rms V	Size	Wt. Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2006	F-32A	C	6.3CT/6.3CT	3/3	1500	3 3/32x2 21/32x2 5/8″	2 1/2	7.02	6.32	5.69	5.29	4.97
54 D 2007	F-34A	C	6.3CT/6.3/6.3/6.3	1.75/1.75/1.75/1.75	1500	3 3/32x2 21/32x3″	3 1/4	8.67	7.80	7.02	6.53	6.14
54 D 2010	F-36A	C	6.3CT/6.3/6.3/6.3	3.5/3.5/3.5/3.5	1500	3 7/8x3 9/32x3 1/4″	5	11.39	10.25	9.23	8.58	8.07
54 D 2011	F-42A	C	12.6CT/12.6	2.5/2.5	1500	3 1/2x2 21/32x3 1/8″	3 3/4	7.40	6.66	5.99	5.57	5.24
54 D 4247	F-83A	C	12.6CT/12.6	5/5	2500	3 7/8x3 9/32x3 1/2″	6	12.27	11.04	9.94	9.24	8.69

ISOLATION TRANSFORMERS

Types N-68X and N-471A have split primaries; N-73A and N-74A, split secondaries. For 50-60 cycle AC operation.

Stock No.	Mfr's Type	Fig.	Output VA	Pri. Volts	Secondary V. ±5%	Secondary A.	Size	Mtg. Ctrs.	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2149	N-51X	A	35	115	115	.3	2 9/32x3 11/16x2 1/8″	3 1/8″	1 3/4	4.73	4.26	3.83	3.56	3.35
54 D 2150	N-68X	A	50	115/230	115	.435	2 9/32x3 11/16x2 1/8″	3 1/8″	1 3/4	5.88	5.29	4.76	4.43	4.16
54 D 2151	N-53M	....	85	115	115	.74	3 1/2x3 31/32x3 1/2″	2 1/4x2 3/8″	4 1/2	12.84	11.56	10.40	9.67	9.09
54 D 2152	N-54M	....	150	115	115	1.3	3 7/8x3 9/32x3 7/8″	2 1/2x3″	6 3/4	14.84	13.36	12.02	11.18	10.51
54 D 4226	N-59M	....	1000	115	115	8.7	5 5/16x4 1/2x7 7/8″	3 1/2x6 7/8″	34	57.00	51.30	46.17	42.94	40.36
54 D 4227	N-73A	C	150	115	115/230	.65	3 7/8x3 9/32x3 7/8″	2 1/2x3″	7	11.25	10.12	9.11	8.47	7.96
54 D 4228	N-74A	C	150	115	67.5/115	1.3	3 7/8x3 9/32x3 7/8″	2 1/2x3″	7	11.67	10.50	9.45	8.79	8.26
54 D 2153	N-471A	C	300	220/440	115	2.6	4 5/8x3 15/16x4 1/2″	3x3 3/8″	10 1/4	16.91	15.22	13.70	12.74	11.98

RECTIFIER POWER TRANSFORMERS

UNIVERSAL RECTIFIER POWER TRANSFORMER (115-Volt, 60-Cycle Primary)

Stock No.	Mfr's Type	Fig.	Secondary Volts	Secondary Amps	Size	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2012	F-47U	B	17/18	3	3 1/8x2 9/16x2 13/16″	3 1/4	8.07	7.26	6.53	6.07	5.71
54 D 2013	F-48U	B	17/18	6	3 13/16x3 3/16x3 3/16″	5 1/2	9.97	8.97	8.07	7.51	7.06
54 D 2014	F-49U	B	36/36	3	4 5/8x3 13/16x3 9/16″	9 3/4	16.39	14.75	13.28	12.35	11.61
54 D 2015	F-60U	B	6.5/13/19.5/26	3	3 1/2x2 7/8x2 11/16″	3 1/2	7.10	6.39	5.75	5.35	5.03
54 D 4811	F-61U	B	24/27/30/33/36	3	3 13/16x3 3/16x3 3/16″	6	10.17	9.15	8.23	7.65	7.19
54 D 4812	F-65U	B	13/150/160	75	3 13/16x3 3/16x3 5/16″	6	10.17	9.15	8.23	7.65	7.19
54 D 2016	F-67U	B	24/22/30/33/36	8	4 5/8x3 13/16x3 1/16″	10 3/4	19.52	17.57	15.81	14.70	13.82
54 D 2025	F-79U	B	24/26/28/30	15	3 13/16x4 5/8x5 1/16″	18 1/2	28.19	25.37	22.83	21.23	19.96
54 D 4813	F-80U	B	12/13.5/15/16.5/18	20	5 3/8x4 7/16x4 3/4″	26	47.08	42.37	38.13	35.46	33.33

LOW-VOLTAGE RECTIFIER TRANSFORMERS (Transistor Drive Voltage)

All types have 115 volt primaries, tapped to produce lower voltages.

Stock No.	Mfr's Type	Fig.	Secondary Volts	Secondary Amps	Size	Wt., Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2020	F-90X	A	10/20CT/40CT	.1	1 5/8x2 13/16x1 5/8″	3/4	3.77	3.39	3.05	2.84	2.67
54 D 2027	F-91X	A	10/20CT/40CT	.3	2 9/32x3 11/16x2″	1 1/2	4.45	4.01	3.61	3.36	3.16
54 D 2029	F-92A	C	10/20CT/40CT	1	3 3/32x2 31/32x3″	3 3/4	7.73	6.96	6.26	5.82	5.47
54 D 4249	F-93X	A	10/20CT/40CT	.75	2 19/32x4x2 1/4″	2 1/2	5.48	4.93	4.44	4.13	3.88
54 D 4250	F-94X	A	10/20CT/40CT	.035	1 3/8x2 3/8x1 3/8″	1/2	3.72	3.35	3.02	2.81	2.64

"N SERIES" STEP-DOWN AUTOFORMERS (50-60 Cycles)

Stock No.	Mfr's Type	Fig.	Output VA	Primary Volts	Secondary V ±5%	Secondary A	Size	Wt. Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2154	N-1X	A	50	230	115	0.435	2 9/32x3 11/16x2″	1 1/2	4.10	3.69	3.32	3.09	2.91
54 D 4229	N-34X	A	150	0-95-105-115-125-135	115	1.3	2 19/32x4x2 1/4″	2 1/2	6.25	5.62	5.06	4.71	4.43

 Fill Your Transformer Requirements at Allied—at OEM Prices

Triad Transformers

AUDIO INPUT TRANSFORMERS (Line or Mike to Grid) Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Application	Pri. Imp.	Response CPS ±3Db	Mtg. Ctrs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2188	A-3X	A	Mike or line to grid	400 CT	200-10,000	1¾″	3.32	2.99	2.69	2.50	2.35
54 D 2189	A-4X	A	Line to single grid	500CT/333/200CT/125/67.5CT/50	100-20,000	1¾″	4.15	3.74	3.37	3.13	2.94

INTERSTAGE TRANSFORMERS (Plate to Grid) Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Watts Out.	Application	Imp. (Ohms) Pri.	Sec.	Mtg. Ctrs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 4818	A-31X	A	3	Plate to sgl. or P-P grids	10K	90KCT	2″	3.90	3.51	3.16	2.94	2.76
54 D 4819	A-33X	A	6	Plate to sgl. or P-P grids	10K	90KCT	2 13/16″	4.85	4.36	3.92	3.65	3.43

LOW-POWER AUDIO TRANSFORMERS *40-15,000 cps. †Static shields. ‡Split primary and secondary. 5 oz.

Stock No.	Mfr's Type	Fig.	Mw Out.	Application	Impedance (Ohms) Pri.	Sec.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2194	A-9J†	B	1	Line or mike to grid	600/250/50	86.5K	10.00	9.00	8.10	7.53	7.08
54 D 4800	A-10J†	B	1	Bal. line, mike to grid	600CT/150	66K	9.43	8.49	7.64	7.11	6.68
54 D 2195	A-12J†	B	10	Bal. line, mike to grid	600CT/150	60K	9.95	8.95	8.05	7.49	7.04
54 D 2200	A-66J*	B	100	Plate to line	15K†	600/250/50	8.65	7.78	7.00	6.51	6.12
54 D 2201	A-67J‡	B	50	Bal. line to bal. line	600CT/150	600CT/150	9.77	8.79	7.91	7.36	6.93

DRIVER TRANSFORMERS

*Transistor type, used in Delco 50- and 100-watt solid-state amplifier; min. pri. inductance, 3.5 h. §Watts. Av. 2 lbs.

54 D 4801	A-81X	A	0.5	Driver-plate to sgl. or P-P grids	15K	8.5KCT	3.23	2.91	2.62	2.44	2.30
54 D 4802	A-85X	A	5	Driver-plate to class B P-P grids	7K	4KCT	4.12	3.71	3.34	3.11	2.92
54 D 4803	A-89A	C	15	Univ. P-P plates to AB or B grids	4K/8K	4.4K/8.8K	8.55	7.70	6.93	6.44	6.06
54 D 3536	TY160X*	A	3-5§	Class AB, P-P. Turns ratio, 6.1:1	45(DC Pri)	3.6, ea.	5.47	4.92	4.43	4.12	3.87

HERMETICALLY SEALED HIGH-FIDELITY OUTPUT TRANSFORMERS Shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Fig.	Watts Out.	Application	Impedance (Ohms) Primary	Secondary	EACH 1-9	10-24	25-49	50-99	100-249
54 D 4805	HSM-80	D	5	Sgl. or P-P plates to line	20KCT/5K	600CT/250CT/150/62.5	24.45	22.00	19.80	18.41	17.31

HERMETICALLY SEALED LOW-LEVEL AUDIO OUTPUT (Mixing, Matching, Bridging) Shpg. wt., 1 lb.

54 D 4806	HS-52	E	0.4	P-P plates to line	20KCT/5K	600/250/150/62.5	26.27	23.64	21.28	19.79	18.60

HERMETICALLY SEALED LOW-LEVEL AUDIO INTERSTAGE Shpg. wt., 2 lbs.

54 D 4807	HSM-31	E	3	Sgl. or P-P plates to sgl. or P-P grids	20KCT/5K	20KCT/5KCT	27.33	24.60	22.14	20.59	19.35

HERMETICALLY SEALED MINIATURE AUDIO TRANSFORMERS

Feature layer-wound coils of microscopically fine wire. †Static shield. Av. shpg. wt., 2 oz.

54 D 4808	JAF-2†	G	.001	Line or mike to grid	600/250/50	250K	13.74	12.37	11.13	10.31	9.79
54 D 4809	JAF-15	G	.010	Plate to grid	15K	1 Meg.	14.57	13.11	11.80	10.97	10.31
54 D 4810	JAF-33†	G	.010	Line to line	5KCT	5KCT	16.49	14.84	13.36	12.42	11.67

"R SERIES" COMBINED PLATE AND FILAMENT TRANSFORMERS

Fig. A except R-82B, Fig. F. Primary, 115 v., 60 cycle. †Transistor type used in Delco 100-W. amplifier. §Amps.

Stock No.	Mfr's Type	Plate (CT) Volts	Ma	Filaments (*CT) V	A	V	A	Size	Wt. Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 1900	R-6A	480	50	5	2	6.3*	2	3⅛x2⅝x2⅝″	2.7	8.03	7.23	6.51	6.05	5.69
54 D 1902	R-8A	500	75	5	2	6.3*	2.5	3⅛x2⅝x3⅛″	2.7	8.65	7.79	7.01	6.52	6.13
54 D 1903	R-10A	525	90	5	2	6.3*	5	3½x3x3⅝″	4.5	10.09	9.08	8.17	7.60	7.14
54 D 4976	R-4A	550	40	...	...	6.3*	2	2¾x2⅜x2¾″	1.7	6.65	5.99	5.39	5.01	4.71
54 D 1904	R-12A	550	110	5	2	6.3*	5	3⅞x3¼x3⅛″	4.5	9.64	8.68	7.81	7.25	6.82
54 D 4978	R-7A	600	50	5	2	6.3*	2	3 3/16x2⅝x2⅝″	2.7	8.22	7.40	6.66	6.19	5.82
54 D 4977	R-5A	600	65	...	...	6.3*	2.7	3⅛x2⅝x2⅝″	2.7	7.77	6.99	6.29	5.85	5.50
54 D 4979	R-9A	600	75	5	2	6.3*	3	3 9/16x3x3⅜″	3.5	10.15	9.13	8.22	7.64	7.18
54 D 4986	R-11A	700	90	5	3	6.3*	3.5	3 9/16x3x3⅞″	4.2	10.79	9.69	8.72	8.11	7.62
54 D 4987	R-14A	700	125	5	3	6.3*	4.5	4x3¼x3 15/16″	6.0	12.67	11.40	10.66	9.54	8.97
54 D 1907	R-20A	700	200	5	3	6.3*	8	4¼x3⅝x4⅛″	9.2	15.95	14.36	12.92	12.02	11.30
54 D 2047	R-72A	800	140	5	3	6.3*	4	4½x3 19/32x3⅝″	5.7	12.20	10.98	9.88	9.19	8.64
54 D 2038	R-24A	800	300	5	6	6.3*	6	4⅝x3 15/16x4½″	14.0	19.65	17.78	16.00	14.88	13.99
54 D 2039	R-25A	800	500	5	6	6.3/6.3*	3/7	5 5/16x4½x5⅝″	19.0	34.01	30.61	27.55	25.62	24.08
54 D 1912	R-71A	900	250	5*	4	6.3*/6.3	2/4	4⅝x4x5″	12.0	18.94	17.05	15.34	14.27	13.41
54 D 3537	R-82B†	70	3.5§	...	...	...	...	4½x3¾x3¾″	14.0	13.93	12.54	11.29	10.50	9.87

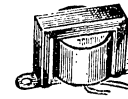
"R SERIES" REGULATED POWER-SUPPLY TRANSFORMERS

Primary, 115 volts, 60 cycle. †For CRT's. Shpg. wt. (lbs.): R-70A, 4.5; R-26A, 12; R-43C, 3.5.

Stock No.	Mfr's Type	Fig.	Plate (*CT) Volts	Ma	Filaments (*CT) V	A	V	A	Size	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2048	R-70A	A	880*	59	6.3/6.3	6/.03	6.3/6.3	0.9/3	3⅞x3 9/32x3⅛″	11.10	9.99	8.99	8.36	7.86
54 D 2049	R-26A	A	880/720*	157	5	3	6.3*/6.3/6.3	8/3/1	4⅝x3 15/16x4¾″	18.90	17.01	16.31	15.17	14.26
54 D 2069	R-43C†	F	1600	3	2.5-6-.3	1	2.5-5-6.3	3	2⅜x3 1/16x2 9/16″	12.49	11.24	10.12	9.41	8.85

"R SERIES" TRANSFORMERS FOR PREAMPS, VTVM'S, ETC. Pri., 115 v., 60 cycle. §Independent windings. Av. wt. 2 lbs.

54 D 2052	R-68A	C	800*	30	5	2	6.3§/6.3§	1.2/1.2	3 3/32x2 21/32x3⅛″	9.77	8.79	7.91	7.36	6.92
54 D 1901	R-2C	F	135	15	...	...	6.3	0.9	1¾x1⅞x1 9/16″	6.35	5.72	5.15	4.79	4.50
54 D 2053	R-23B	F	250*	22	...	...	6.3/15.5/12.6	.81/6/.6	1⅞x2⅝x2 3/16″	6.45	5.80	5.22	4.85	4.56
54 D 4936	R-3A	C	500*	20	...	...	6.3*	2	2 25/32x2 11/32x2½″	6.83	6.15	5.54	5.15	4.84
54 D 1909	R-29A	C	230*	40	...	...	6.3*	1.5	2 25/32x2 11/32x2⅜″	5.92	5.33	4.80	4.46	4.19
54 D 1910	R-30X	A	135	50	...	...	6.3	1.5	2 9/32x3¾x2⅛″	5.45	4.91	4.42	4.11	3.86
54 D 1911	R-54X	A	115	15	...	...	6.3	0.6	2 13/16x1⅝x2⅜″	2.72	2.45	2.21	2.06	1.94
54 D 2060	R-56A	C	130	20	...	...	15/22.5/30	.6/.6/.6	2 25/32x2 11/32x2¾″	6.55	5.89	5.30	4.93	4.63
54 D 2061	R-73B	F	135	200	...	...	6.3*	5.5	1⅞x3⅜x2 13/16″	8.64	7.78	7.00	6.51	6.12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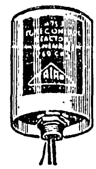
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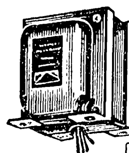
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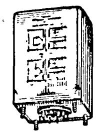
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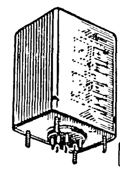
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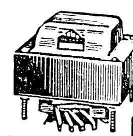
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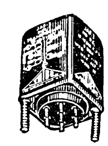
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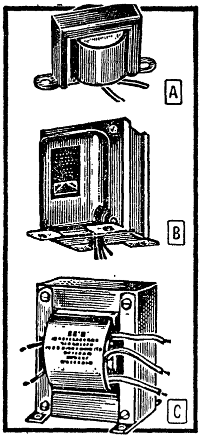
Call, Wire or Write for Prices on Quantities Greater than Those Shown

Triad Inductors, Reactors and Transformers

TRIAD C SERIES SMOOTHING FILTER REACTORS

Inductance tolerance is −20%, +50%. Transformer types C-47U and C-48U have split windings.

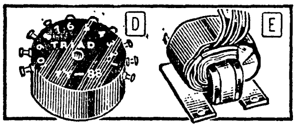


Stock No.	Mfr's Type	Fig.	DC Ma	Ind. (Hys)	Res. (Ohms)	Test Volts	Size HxWxD	EACH 1-9	10-24	25-49	50-99	100-249
54 D 4814	C-2X	A	15	2	70	1500	1 3/16x2 1/16x1 1/4"	2.07	1.86	1.67	1.55	1.46
54 D 2057	C-1X	A	20	15	1000	1000	1 3/16x2 1/16x1 1/4"	2.35	2.12	1.91	1.78	1.67
54 D 2155	C-3X	A	50	10	500	1500	1 5/8x2 13/16x1 1/2"	2.75	2.48	2.23	2.07	1.95
54 D 4815	C-6X	A	65	5	330	1500	1 5/8x2 13/16x1 1/2"	2.73	2.46	2.21	2.06	1.94
54 D 2156	C-5X	A	75	12	390	1000	1 15/16x3 5/16x1 3/4"	3.28	2.95	2.66	2.47	2.32
54 D 2159	C-7X	A	90	10	270	1000	1 15/16x3 5/16x2"	3.48	3.13	2.82	2.62	2.46
54 D 2164	C-10X	A	125	9	250	1000	2 9/32x3 11/16x2"	4.13	3.72	3.35	3.12	2.93
54 D 2167	C-14A	B	200	6	150	1500	2 3/32x2 21/32x2 5/8"	6.48	5.83	5.25	4.88	4.59
54 D 2168	C-16A	B	200	10	150	2500	3 1/2x2 31/32x3 1/2"	8.25	7.43	6.69	6.22	5.85
54 D 2171	C-27X	A	290	0.7	30	1500	1 5/8x2 13/16x1 1/2"	2.50	2.25	2.03	1.89	1.78
54 D 4816	C-17X	A	300	1.5	40	1500	2 9/32x3 11/16x2"	3.37	3.39	3.05	2.84	2.67
54 D 2174	C-19A	B	300	10	105	3000	4 1/4x3 19/32x4 1/8"	12.30	11.07	9.96	9.26	8.70
54 D 2175	C-20A	B	400	6	60	3000	4 5/8x3 15/16x4 1/2"	13.65	12.29	11.06	10.29	9.67
54 D 2178	C-40X	A	600	0.32	10	1500	1 15/16x3 5/16x2"	3.15	2.84	2.56	2.38	2.24
54 D 2182	C-47U	C	1A/2A	.3/.075	3/.75	1500	3 1/2x2 7/8x3 3/16"	7.60	6.84	6.16	5.73	5.39
54 D 2183	C-48U	C	2.5A/5A	.08/.02	.61/.155	1500	3 13/16x3 3/16x3 9/16"	9.55	8.60	7.74	7.20	6.77

TRIAD C SERIES SWINGING FILTER REACTORS

Provide a swinging input reactance which improves regulation of high-voltage power supplies. Prevents DC v. from rising to maximum of peak AC rectifier input; inductance reduction reduces phase shift.

54 D 2184	C-31A	B	20-200	25-5	150	2500	3 1/2x2 31/32x3 1/2"	8.13	7.32	6.59	6.13	5.76
54 D 2185	C-35A	B	40-400	20-4	65	3000	4 5/8x3 15/16x4 1/2"	13.98	12.58	11.32	10.53	9.90
54 D 2186	C-39A	B	50-500	25-5	65	3000	5 5/16x4 1/2x5 1/8"	23.24	21.01	18.91	17.59	16.53



D TRIAD EPOXY-MOLDED TOROIDAL TRANSISTOR DC to DC SUPPLY TRANSFORMERS

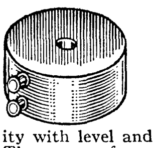
DC to DC transformers (Fig. D) are hermetically sealed, small in size, mount with a single bolt to permit ready stacking. Usable in common emitter or common collector circuits. Exceed MIL-T-27B, Grade 5, Class R. All transformers, including DC to AC (Figs. C, E; see second table below), permit current conversion in small volume at high efficiency. Lack of moving parts increases life. Circuitry and circuit constants for various transistors are supplied.

Stock No.	Mfr's Type	DC Input Volts	DC Output Volts	DC Ma	Size (Dia. x Ht.)	Wt. Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 3617	TY-78	12.6	250/125	100	1 3/4x1 1/16"	.35	14.72	13.25	11.93	11.09	10.42
54 D 3618	TY-79	12.6	300/150	200	1 3/4x1"	.35	14.72	13.25	11.93	11.09	10.42
54 D 3619	TY-80	12.6	325/162.5	150	1 3/4x1"	.35	15.94	14.35	12.92	12.02	11.30
54 D 3624	TY-81	12.6	375/187.5	200	2x1"	.50	15.19	13.67	12.30	11.44	10.75
54 D 3625	TY-82	12.6	450/125	150	2x1"	.50	14.72	13.25	11.93	11.09	10.42
54 D 2203	TY-83	12.6	500/250	250	2 3/4x1 3/8"	.85	21.17	19.05	17.15	15.95	14.99
54 D 3626	TY-84	12.6	600/300	200	2 3/4x1 3/8"	1.0	21.57	19.41	17.47	16.25	15.28
54 D 3627	TY-88	28.0	250/125	80	1 5/16x9/16"	.25	13.02	11.72	10.55	9.81	9.22
54 D 3628	TY-89	28.0	300/150	100	1 3/4x1 1/16"	.35	12.82	11.54	10.39	9.66	9.08
54 D 3638	TY-99	6.0	300/150	100	1 3/4x1"	.35	15.10	13.59	12.23	11.37	10.69

C E TRIAD TRANSISTOR DC to AC POWER-SUPPLY TRANSFORMERS (See Description Above)

Stock No.	Mfr's Type	Fig.	DC Input Volts	AC Output Volts	AC Output CPS	AC Output Watts	Size (HWD)	Wt. Lbs.	EACH 1-9	10-24	25-49	50-99	100-249
54 D 3647	TY-468	E	28		400	60	1 7/8x2 1/4x2"	.5	13.35	12.02	10.82	10.06	9.46
54 D 2204	TY-462	E	12	110/115/125	400	60	1 7/8x2 1/4x2"	.5	16.64	14.98	13.48	12.54	11.79
54 D 3648	TY-75A	C	12		60	115	3 7/8x3 9/32x3 1/4"	5.0	16.54	14.89	13.40	12.46	11.71
54 D 3649	TY-76A	C	12		60	60	3 3/32x2 21/32x2 5/8"	3.0	10.67	9.60	8.64	8.04	7.56

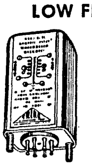
TRIAD EC SERIES EPOXY-MOLDED TOROIDAL INDUCTORS



Epoxy-molded and encapsulated per MIL-T-27A. Gold-plated fixed terminals fight tarnishing and corrosion. Highly resistant to shock and vibration. High Q and high measure of stability with level and temperature variations. The cores, of powdered nickel-alloy dust, are wound with low distributed capacitance and resistance—each coil providing a minimum inductance tolerance of ±2%. Size, 23/32" high; 1 1/16" diameter. Av. wt., 14 oz.

Stock No.	Mfr's Type	L (Mh)	Approx. Ohms	DC Ma for 5% L Drop	EACH 1-9	10-24	25-49	50-99	100-249
54 D 2074	EC-005A	5	.92	233	5.73	5.16	4.64	4.32	4.06
54 D 2089	EC-020A	20	1.85	116	6.27	5.64	5.08	4.72	4.44
54 D 2090	EC-030A	30	2.85	95	5.92	5.33	4.80	4.46	4.19
54 D 2092	EC-050A	50	4.60	74	6.38	5.74	5.17	4.81	4.52
54 D 2095	EC-100A	100	8.00	52	6.92	6.23	5.61	5.22	4.91
54 D 2096	EC-200A	200	25.00	37	6.72	6.05	5.45	5.07	4.77
54 D 2097	EC-250A	250	28.00	33	6.80	6.12	5.51	5.12	4.81
54 D 2098	EC-300A	300	38.20	30	6.95	6.26	5.63	5.24	4.93
54 D 2100	EC-500A	500	63.50	23	6.93	6.24	5.62	5.23	4.92
54 D 2110	EC-1000A	1000	113.00	16.5	7.25	6.53	5.88	5.47	5.14
54 D 2145	EC-10000A	10000	1190.00	5.2	9.60	8.64	7.78	7.24	6.81

LOW FREQUENCY INSTRUMENTATION COMPONENTS



Discriminate against interference from stray magnetic fields, ground loops, common mode signals, machine-made noise, etc. All have electrostatic shield between primary and secondary winding, except G-64. Meet MIL-T-27A specs. *Indicates chopper input transformer, †interstage transformer, and ‡sub-miniature transformer. Wts., G-21, G-25, and G-31, 5¼ oz.; G-22, 1 lb., and G-64, 2¾ oz.

Stock No.	Mfr's Type	Impedance (Ohms) Primary	Secondary	Turns Ratio	EACH 1-9	10-24	25-49
54 D 2102	G-21*	200K CT	12,500 CT	4:1	31.67	28.50	25.65
54 D 2103	G-22*	50K CT	800K CT	1:4	38.12	34.31	30.88
54 D 2104	G-25*	40/10K CT	10K CT	2:1	31.11	28.00	25.20
54 D 2105	G-31†	10K	100K	1-3.16	25.69	23.12	20.81
54 D 2106	G-64‡	500/125	500/125	1-1	17.40	15.66	14.09

SPRAGUE TRIGATE PULSE TRANSFORMERS

High performance and low cost for industrial and commercial SCR triggering applications. Feature balanced pulse characteristics, efficient energy transfer, fast pulse rise time, and increased current capability. Minimum saturation allows operation where increased pulse widths are required. Temp., −10 to +70°C; min. L_P (μH), 200; typical L_L (μH), 2; typical Cc (pF), 500; max. R_{DC} (ohms), 1.5; max. voltage, 240. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Turns Ratio	No. of Leads	EACH 1-14	15-49	50-99	100-249	250-499	500-999
54 D 0300	11 Z 12	1:1	4	2.80	2.20	1.44	1.04	.96	.88
54 D 0301	11 Z 13	1:1:1	6	3.08	2.42	1.58	1.14	1.06	.968

Thordarson Transistor Transformers

MINIATURE TRANSISTOR TRANSFORMERS

Built to meet MIL-T-27B, Grade 4, Class R specifications. All have type RAV-6 case (5/16" dia. x 13/32") except # has RAV-4 case (5/16" dia. x 1/4"). Freq. range, 200-20,000 Hz. *Split winding. †Static shielded.

Stock No.	Mfr's Type	MIL-T-27B TF4RX-	Impedance, Ohms Primary	Impedance, Ohms Secondary	Application	Power Mw	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-499
54 D 4820	MIT-241	17YY	400/500CT	400/500*	J, S, P	500	7.50	6.38	6.00	5.22
54 D 4821	MIT-247	13YY	9000/10,000CT†	9000/10,000CT	J	100	7.50	6.38	6.00	5.22
54 D 4822	MIT-236	13YY	10,000/12,000CT	10,000/12,000CT	J, P	100	7.05	6.00	5.64	4.91
54 D 4823	MIT-220	17YY	500CT	600	S, M	500	6.00	5.10	4.80	4.18
54 D 4824	MIT-221	17YY	900CT	600	S	500	6.00	5.10	4.80	4.18
54 D 4825	MIT-219	17YY	300CT	600	S, M	500	6.00	5.10	4.80	4.18
54 D 4826	MIT-244	17YY	80/100CT	32/40*	J, M, S	500	7.50	6.38	6.00	5.22
54 D 4827	MIT-222	13YY	1500CT	600	S, M	500	6.00	5.10	4.80	4.18
54 D 4828	MIT-242	17YY	400/500CT	120/150*	D, J	500	7.50	6.38	6.00	5.22
54 D 4829	MIT-237	13YY	2000/2500CT	8000/10,000*	J, P	100	7.05	6.00	5.64	4.91
54 D 4830	MIT-211	13YY	10,000/12,500	2000/2500CT	D, J	100	6.00	5.10	4.80	4.18
54 D 4831	MIT-238	13YY	10,000/12,000CT	2000/2400*	D, J	100	7.05	6.00	5.64	4.91
54 D 4832	MIT-225	13YY	10,000/12,000CT	1500/1800CT	D, J	100	7.05	6.00	5.64	4.91
54 D 4833	MIT-210	13YY	10,000/12,500	1200/1500CT	D, J	100	6.00	5.10	4.80	4.18
54 D 4834	MIT-243	17YY	400/500CT	40/50*	J, M, S	500	7.50	6.38	6.00	5.22
54 D 4835	MIT-202	17YY	500/600	50/60	S, M	100	5.40	4.59	4.32	3.76
54 D 4836	MIT-212	17YY	150/200CT	12/16	S	500	6.00	5.10	4.80	4.18
54 D 4837	MIT-245	12YY	1000/1250CT	16,000/20,000*	J, P	100	7.05	6.00	5.64	4.91
54 D 4838	MIT-209	13YY	10,000/12,000	500/600CT	D, S	100	6.00	5.10	4.80	4.18
54 D 4839	MIT-213	17YY	300/400CT	12/16	S	500	5.40	4.59	4.32	3.76
54 D 4840	MIT-201	13YY	20,000/30,000	800/1200	D, J	50	6.00	5.10	4.80	4.18
54 D 4841	MIT-223	13YY	20,000/30,000CT	800/1200CT	D, J	100	6.00	5.10	4.80	4.18
54 D 4842	MIT-229	17YY	120/150CT	3.2/4	S	500	5.40	4.59	4.32	3.76
54 D 4843	MIT-230	17YY	320/400CT	3.2/4	S	500	5.40	4.59	4.32	3.76
54 D 4844	MIT-204	17YY	600	3.2	S, M	100	5.40	4.59	4.32	3.76
54 D 4845	MIT-246	16YY	100,000CT†	500CT	A	25	7.50	6.38	6.00	5.22
54 D 4846	MIT-207	16YY	200,000	1000	A	25	6.00	5.10	4.80	4.18
54 D 4847	MIT-224	16YY	200,000CT	1000CT	A	25	7.05	6.00	5.64	4.91
54 D 4848	MIT-205	13YY	1200	3.2	S	100	5.40	4.59	4.32	3.76
54 D 4849	MIT-235	13YY	8000/10,000CT	3.2/4	S	500	6.00	5.10	4.80	4.18
54 D 4900	MIT-206	13YY	10,000	3.2	S	100	5.40	4.59	4.32	3.76
54 D 4908	MIT-271	17YY#	400/500CT	400/500*	J, S, P	500	7.05	6.00	5.64	4.91
54 D 4909	MIT-268	13YY#	10,000/12,000CT	10,000/12,000CT	J, P	100	7.05	6.00	5.64	4.91
54 D 4910	MIT-252	13YY#	1500CT	600	S	500	5.40	4.59	4.32	3.76
54 D 4911	MIT-270	13YY#	10,000/12,000CT	2000/2400*	J	100	7.05	6.00	5.64	4.91
54 D 4912	MIT-264	13YY#	10,000/12,000CT	1500/1800CT	J	100	7.05	6.00	5.64	4.91
54 D 4913	MIT-251	13YY#	10,000/12,000	500/600CT	D, S	100	6.00	5.10	4.80	4.18
54 D 4914	MIT-253	13YY#	20,000/30,000CT	800/1200CT	D, J	50	6.00	5.10	4.80	4.18
54 D 4901	MIT-249	20YY	Induct.: Ser. 8 hy @ 3 ma DC; par. 2 hy @ 6 ma DC				7.50	6.38	6.00	5.22
54 D 4902	MIT-226	20YY	Inductor: 1.5 hy @ 5 ma DC				5.40	4.59	4.32	3.76
54 D 4903	MIT-208	20YY	Inductor: 1 hy @ 5 ma DC				5.40	4.59	4.32	3.76
54 D 4904	MIT-227	20YY	Inductor: 0.5 hy @ 11 ma DC				4.80	4.08	3.84	3.34
54 D 4905	MIT-228	20YY	Inductor: 0.15 hy @ 20 ma DC				4.80	4.08	3.84	3.34
54 D 4915	MIT-258	20YY#	Inductor: 0.9 hy @ 4 ma DC				4.32	3.68	3.47	3.03
54 D 4866	MIT-226	20YY#	Inductor: 0.5 hy @ 6 ma DC				4.32	3.68	3.47	3.03
54 D 4906	MIT-200	03YY	Fil.: Pri. 28 v. @ 380-1000 Hz; sec. 6.3v. @ 60 ma DC				6.00	5.10	4.80	4.18
54 D 4907	MIT-300	....	High permeability cover and shield, 25-30 db				.90	.77	.72	.63
54 D 4867	MIT-295	#	High permeability cover and shield, 25-30 db				.90	.77	.72	.63

MINIATURE TRANSFORMERS

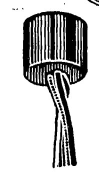
Stock No.	Mfr's Type	Mtg. Type	Impedance, Ohms Primary	Impedance, Ohms Secondary	Mtg. Ctrs.	Power Mw	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-499
54 D 4868	MIT-184	BAH	30/7.5	50,000	1 3/8"	3	4.05	3.45	3.25	2.85
54 D 4869	MIT-166	BAH	600/250/50	600/250/50	1 1/16"	12	4.05	3.45	3.25	2.85
54 D 4870	MIT-182	BAH	600/250/50CT	50,000	1 3/4"	3	4.05	3.45	3.25	2.85
54 D 4871	MIT-183	BAH	600/250/50CT	50,000CT	1 3/4"	3	4.05	3.45	3.25	2.85
54 D 4872	MIT-167	BAH	5000CT	5000CT	1 1/16"	12	4.05	3.45	3.25	2.85
54 D 4873	MIT-143	MAH	10,000 to 25,000	200 to 500	....	200	3.30	2.80	2.64	2.30
54 D 4874	MIT-189	BAH	15,000	600/250/50CT	1 3/8"	8	3.50	3.00	2.80	2.45
54 D 4875	MIT-186	BAH	15,000	60,000	1 3/8"	25	4.05	3.45	3.25	2.85
54 D 4876	MIT-187	BAH	15,000	95,000CT	1 3/8"	3	3.50	3.00	2.80	2.45
54 D 4877	MIT-73	MAH	25,000	500	....	9	3.75	3.19	3.00	2.61
54 D 4878	MIT-76	MAH	30,000	50	....	9	3.75	3.19	3.00	2.61
54 D 4879	MIT-144	MAH	30,000	50	....	200	3.30	2.80	2.64	2.30
54 D 4880	MIT-191	BAH	30,000CT	600/250/50CT	1 3/8"	8	3.50	3.00	2.80	2.45
54 D 4881	MIT-79	MAH	100,000	60	....	9	3.75	3.19	3.00	2.61
54 D 4882	MIT-146	MAH	100,000	60	....	200	3.60	3.06	2.88	2.51

MINIATURE AUDIO INDUCTORS

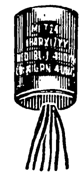
Stock No.	Mfr's Type	Series Connected Ind., Hys	Series Connected DC Ma	Series Connected Ohms	Parallel Connected Ind., Hys	Parallel Connected DC Ma	Parallel Connected Ohms	Mtg. Type	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-499
54 D 4883	MIT-140	3.5	2	160	1.5	5	40	MAH	2.70	2.30	2.16	1.88
54 D 4884	MIT-139	8	2	650	4	5	162	MAH	2.70	2.30	2.16	1.88
54 D 4885	MIT-82	50	1	4500	....	....	....	MAH	3.75	3.19	3.00	2.61
54 D 4886	MIT-145	50	1	2675	....	....	....	MAH	2.70	2.30	2.16	1.88
54 D 4891	MIT-194	300/50	0/3	6000	....	....	....	BAH	3.50	3.00	2.80	2.45

ALIGNAIRE VARIABLE INDUCTORS (CASE AL-1)

Stock No.	Mfr's Type	MIL-T-27B Type	Induct. Hys. Max.	Induct. Hys. Min.	Max. DC Ma	Ohms	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-499
54 D 4892	27C182	TF4RX20YY	.111	.011	40	3.5	27/32"	8.10	6.88	6.48	5.65
54 D 4893	27C183	TF4RX20YY	.300	.030	30	8.7	27/32"	8.10	6.88	6.48	5.65
54 D 4894	27C184	TF4RX20YY	.700	.070	20	22	27/32"	8.10	6.88	6.48	5.65
54 D 4895	27C185	TF4RX20YY	2.00	.200	16	55	27/32"	8.10	6.88	6.48	5.65
54 D 4896	27C153	TF4RX20YY	5.00	.500	10	140	27/32"	8.25	7.01	6.60	6.05
54 D 4897	27C186	TF4RX20YY	11.0	1.10	7	365	27/32"	9.00	7.65	7.20	6.27
54 D 4898	27C187	TF4RX20YY	30.0	3.00	5	945	27/32"	9.00	7.65	7.20	6.27
54 D 4899	27C188	TF4RX20YY	70.0	7.0	3.6	2200	27/32"	9.00	7.65	7.20	6.27



RAV-4

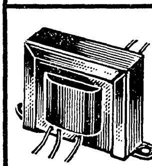


RAV-6

KEY TO APPLICATIONS

- A—Input
- D—Driver
- J—Interstage
- M—Mixing or Matching
- P—Pulse
- S—Output

ALLIED CAN FURNISH THE COMPLETE T-M TRANSFORMER LINE AT OEM PRICES. WRITE FOR FULL INFORMATION.



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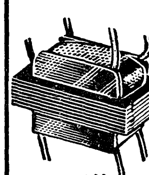

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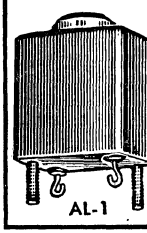


AL-1

Write for Information and OEM Prices on Unlisted Items

UTC Miniature Transformers

OUNCER AUDIO UNITS

Compact, weigh just 1 ounce. Aluminum housing $1\frac{3}{16}''$ high, $\frac{7}{8}''$ dia. Ideal for hearing aids, aircraft, concealed service. 0-1 thru 0-16 have max. dbm level of +8; 0-18 thru 0-21 and 0-26 thru 0-29, +20; 0-25, +15. *Indicates 1 watt at 200 cps. "S" indicates split winding. Current ratings are DC. $\frac{11}{16}''$ mtg. ctrs.

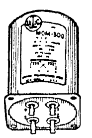
Stock No.	Mfr's Type	Primary Impedance Ohms	Secondary Imped. Ohms	May Be Assorted EACH 1-24	25-99	100-Up
54D2780	0-1	50, 200-250, 500-600	50K	7.80	6.63	6.24
54D2781	0-2	50, 200-250, 500-600	50K CT	7.80	6.63	6.24
54D2782	0-3	7.5-30	50K	7.50	6.38	6.00
54D2783	0-4	15K	60K	6.60	5.61	5.28
54D2785	0-6	15K	95K CT	7.50	6.38	6.00
54D2786	0-7	15K; 4 ma	95K CT	7.50	6.38	6.00
54D2787	0-8	15K	50,	7.80	6.63	6.24
54D2788	C-9	15K; 4 ma	200-250,	7.80	6.63	6.24
54D2789	0-10	30K CT	500-600	8.40	7.14	6.72
54D2790	0-12	50, 200-250		7.80	6.63	6.24
54D2791	0-14	200	500K	7.50	6.38	6.00
54D2268	0-15	15K	1 meg	7.50	6.38	6.00
54D2794	0-16	250 CT	50K	10.20	8.67	8.16
54D2493	0-18	10K-2.5K S; 4 ma	2K-500	7.80	6.63	6.24
54D2494	0-19	10K-2.5K S; 4 ma	4K-1K S	7.80	6.63	6.24
54D2495	0-20	1500 CT; 8 ma	500-125	6.30	5.36	5.04
54D1763	0-24	1.6 Hys @ 3 ma DC; 25 Ω		5.10	4.34	4.08
54D1764	0-25	600-500 S	2000-500 S	8.10	6.89	6.48
54D1765	0-26	10K CT; 4 ma	100-20K	8.10	6.89	6.48
54D1766	0-27	10K CT; 4 ma	500-125 S	8.40	7.14	6.72
54D1769	0-30*	500-125 S; 20 ma	500-125 S	8.10	6.89	6.48
54D3497	0-37*	4K/1K S; 4 ma	600/150 S	8.10	6.89	6.48
54D3499	0-38*	0, 4, 8, 16; O DC	....	5.10	4.34	4.08
54D2492	0-17	Mumetal Shield; fits any Ouncer unit		1.50	1.28	1.20
54D3581	0-BR	Ouncer Chassis Mount Bracket		.21	.18	.17

SUB-SUBOUNCER TRANSFORMERS

Even smaller and lighter than sub-ouncers above, right—weigh less than $\frac{1}{3}$ oz. Ideal miniaturized components having high efficiency and wide frequency response—provide exceptional performance and reliability. Securely anchored 4″ color-coded leads are employed. Mount with leads or Channel Mounts (SSO-CH, below). Units are vacuum-processed and double-sealed (waterproof). Types SSO-1, and SSO-21 have maximum dbm level of +7; SSO-2, +15; all other units, +20. *Indicates both windings center-tapped; †both windings split. Size of all units, $\frac{7}{16}x\frac{3}{4}x\frac{43}{64}''$.

Stock No.	Mfr's Type	Use (T.=Transistor)	Primary Imped. Ohms	Sec. Imped. Ohms	May Be Assorted EACH 1-24	25-99	100-Up
54 D 2236	SSO-1	Input	200, 50	250K 62.5K	4.50	3.83	3.60
54 D 2237	SSO-2	Interstage	10K	90K	4.80	4.08	3.84
54 D 2235	SSO-7	T. Interstage	20K,30K	800,1200	3.30	2.81	2.64
54 D 2229	SSO-8	T. to PP sec.	10K	2000 CT	3.90	3.32	3.12
54 D 2303	SSO-11	T. Output	500, 600	50, 60	3.00	2.55	2.40
54 D 2498	SSO-14	T. Interstage	10K CT 25K CT	200 CT 500 CT	4.20	3.57	3.36
54 D 2499	SSO-15	T. Interstage	20K CT 30K CT	800 CT 1200 CT	4.20	3.57	3.36
54 D 1780	SSO-19	Out. Matching	500 CT	600 CT	3.30	2.81	2.64
54 D 1781	SSO-20	Output	1500 CT	600 CT	3.30	2.81	2.64
54 D 1782	SSO-21	Crystal/Chop.	200K CT	1000 CT	4.80	4.08	3.84
54 D 1783	SSO-22	Interstage	12K,10K*	1.5K, 1.8K*	3.90	3.32	3.12
54 D 1784	SSO-23	Reactor: 8 hys @ 2 ma; 4 hys @ 5 ma; 650 ohms			3.00	2.55	2.40
54 D 1786	SSO-25	T. Interstage	10K,12K*	10K,12K*	5.10	4.34	4.08
54 D 1787	SSO-26	T. Interstage	40K,50K*	400,500†	5.10	4.34	4.08
54 D 3330	SSO-27	T. Output	4000*	600†	5.10	4.34	4.08
54 D 2304	SSO-CH	Mtg. Channel for SSO units			.30	.26	.24

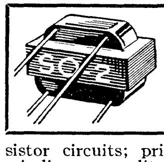
MQL, MQM LOW-FREQUENCY HIGH-Q COILS



Hermetically sealed to MIL-T-27B, MQL and miniaturized MQM laminated coils are ideal when permalloy dust toroids are unsuitable. Lab-adjusted to 2% tolerance at 1 v., 60 cycles. Hipermalloy shielding greatly reduces hum pickup. Two identical windings brought out to 4 terminals permit series, parallel, cen.-tap, or transformer-type connections. MQL: $1\frac{13}{16}x2\frac{1}{2}''$. MQM: $1\frac{5}{16}x1\frac{5}{8}''$. Wt.: MQL, 16 oz.; MQM, 5 oz.

Stock No.	Mfr's Type	Series Hy.	Parallel Hy.	May Be Assorted EACH 1-24	25-99	100-Up
54 D 2898	MQL-3	200	50	30.00	25.50	24.00
54 D 3399	MQL-5	2500	625	33.00	28.05	26.40
54 D 4403	MQM-16	16	4	12.60	10.71	10.08
54 D 4404	MQM-40	40	10	12.60	10.71	10.08
54 D 4405	MQM-300	300	75	13.50	11.48	10.80
54 D 4406	MQM-600	600	150	13.50	11.48	10.80

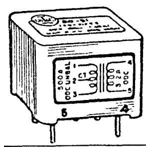
SUB-OUNCER TRANSFORMERS



Tiny, lightweight transformers for miniature equipment. Weigh less than $\frac{1}{2}$ oz. and handle higher level than Sub-Subouncer transformers below. Mount by 4″ color-coded leads or with Type SO-CH channels below. Vacuum-processed and double-sealed (waterproof). Transformers SO-11 through SO-16 are for transistor circuits; primary windings are center-tapped, secondary windings are split. SO-1 has maximum dbm level of +10; SO-2, +20; SO-3 through SO-8, +23; SO-10 through SO-16, +24. Types SO-1, SO-3, and SO-10 have fixed impedance ratio of 1250:1. Any impedance between values shown may be employed. Size of all units, $\frac{19}{32}x\frac{23}{32}x\frac{7}{8}''$.

Stock No.	Mfr's Type	Use	Primary Imped. Ohms	Sec. Imped. Ohms	May Be Assorted EACH 1-24	25-99	100-Up
54 D 2210	SO-1	Input	200, 50	250K, 62.5K	3.60	3.06	2.88
54 D 2211	SO-2	Interstage	10K	90K	3.30	2.81	2.64
54 D 2212	SO-3	Pl. to line	10K, 25K	200, 500	3.30	2.81	2.64
54 D 2213	SO-4	Output	30K	50	3.30	2.81	2.64
54 D 2217	SO-8	Transistor to PP sec.	10K	2000 CT	3.60	3.06	2.88
54 D 2497	SO-10	Transistor to VC	2000 CT 4000 CT	8 16	3.60	3.06	2.88
54 D 1773	SO-11	T. Interstage	400, 500	400, 500	4.20	3.57	3.36
54 D 1774	SO-12	T. Interstage	400, 500	120, 150	4.20	3.57	3.36
54 D 3324	SO-15	T. Output	600	600	4.20	3.57	3.36
54 D 3325	SO-16	T. Interstage	2500	2500	4.20	3.57	3.36
54 D 3326	SO-17	Ser:16Hys @ 2ma; Par:4 @4ma			3.30	2.81	2.64
54 D 2301	SO-CH	Mtg. channel for SO units			.30	.26	.24

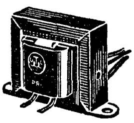
MOLDED-CASE SUBOUNCERS AND SUB-SUBOUNCERS



Vacuum molded, hermetically sealed. Meet MIL-T-27B Grade 5 specs. Epoxy-encased with same design as Subouncers and Sub-Subouncers. Pin terminals are $\frac{1}{4}''$ x .04″ dia. *windings split. SO-3P thru SO-8P have max. dbm level of +23; SO-9P thru SO-15P, +24; SSO-21P, +7; all others, + 20. SO-P Series, $\frac{23}{32}x\frac{3}{4}x1''$. SSO-P Series, $\frac{3}{4}$x@x$\frac{9}{16}''$. Av. shpg. wt., $\frac{1}{2}$ oz.

Stock No.	Mfr's Type	Use	Primary Imped. Ohms	Sec. Imped. Ohms	MAY BE ASSORTED EACH 1-24	25-99	100-Up
54D3331	SO-2P	Interstage	10K	90K	6.90	5.87	5.52
54D3350	SO-3P	Pl. to Line	10K, 25K	200, 500	6.90	5.87	5.52
54D3351	SO-5P	Ser, 40 hys @ 1 ma; Par, 10 @ 2			6.90	5.87	5.52
54D3352	SO-7P	T. Interstage	20K, 30K	800, 1200	6.60	5.61	5.28
54D3354	SO-8P	T. to PP Sec.	10K	2000CT	7.50	6.38	6.00
54D3356	SO-9P	PP T. to V.C.	500CT	3.2	7.50	6.38	6.00
54D3358	SO-14P	T. Interstage	80, 100CT	32*, 40*	7.80	6.63	6.24
54D3360	SO-15P	T. Output	600CT	600*	7.80	6.63	6.24
54D3374	SO-17P	Ser, 16 hys @ 2 ma; Par, 4 @ 4			6.90	5.87	5.52
54D3376	SSO-3P	Pl. to Line	10K, 25K	200, 500	7.20	6.12	5.76
54D3377	SSO-5P	Ser, 100 hys @ 0 ma; Par, 25 @ 0			6.90	5.87	5.52
54D3378	SSO-8P	T. to PP Sec.	10K	2000CT	7.20	6.12	5.76
54D3446	SSO-14P	T. Interstage	10K, 25K CT	200, 500CT	7.50	6.38	6.00
54D3465	SSO-15P	T. Interstage	20K, 30K CT	800, 1200CT	7.50	6.38	6.00
54D3480	SSO-19P	Output Match	500CT	600CT	7.20	6.12	5.76
54D3483	SSO-20P	Output	1500CT	600CT	7.20	6.12	5.76
54D3484	SSO-21P	Xtal/Chop.	200K CT	1000CT	8.10	6.89	6.48
54D3486	SSO-23P	Ser, 8 hys @ 2 ma; Par, 2 @ 4			6.90	5.87	5.52
54D3488	SSO-24P	Ser, 3.5 hys @ 2 ma; Par, 0.9 @ 4			6.90	5.87	5.52
54D3495	SSO-25P	T. Interstage	10K CT	10K/ 2500*	8.10	6.89	6.48
54D3490	SSO-27P	Tr.Out or Dr	4K CT	600 split	8.10	6.89	6.48

FILAMENT and TRANSISTOR TRANSFORMERS



Industrial-type transformers (primary 117 volts, 60 cycle) with demonstrated reliability. All of the units listed below are low-temperature-rise, vacuum-sealed. *Transistor types with taps on primary to modify secondary nominal voltage from —6%, to +6%, or +12%. Av. shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Secondary VCT	@Amps	Size (HWD)	May Be Assorted EACH 1-24	25-99	100-Up
54 D 4124	FT-2	6.3	1.2	$1\frac{11}{16}x2\frac{7}{8}x1\frac{5}{8}''$	4.50	3.83	3.60
54 D 4125	FT-4	6.3	3	$2x3\frac{5}{16}x1\frac{7}{8}''$	5.10	4.34	4.08
54 D 4128	FT-8	6.3	8	$2\frac{5}{8}x4x2\frac{1}{2}''$	6.30	5.36	5.04
54 D 4129	FT-10	24/12	2/4	$2\frac{11}{16}x4x2\frac{5}{8}''$	6.90	5.87	5.52
54 D 4130	*FT-13	26	.04	$1\frac{1}{4}x2\frac{1}{8}x1\frac{3}{8}''$	5.70	4.85	4.56
54 D 4131	*FT-14	26	.25	$1\frac{11}{16}x2\frac{7}{8}x1\frac{5}{8}''$	5.70	4.85	4.56
54 D 4126	*FT-15	48	1	$2\frac{5}{8}x4x2\frac{1}{2}''$	7.80	6.63	6.24
54 D 4127	*FT-16	11/5.5	2.5/5	$2\frac{5}{16}x3\frac{3}{4}x2\frac{1}{8}''$	7.80	6.63	6.24

UTC Transformers May Be Assorted To Take Advantage of Quantity Pricing

UTC DO-T and DI-T Transformers, Inductors

DO-T TRANSISTOR TRANSFORMERS AND INDUCTORS

Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	May Be Assorted EACH 1-24	25-99	100-Up
54 D 2686	DO-T1	Interstage	20K-30K	800-1200	6.00	5.10	4.80
54 D 2687	DO-T2	Output	500-600	50-60	5.40	4.59	4.32
54 D 2688	DO-T3	Output	1K-1.2K	50-60	5.40	4.59	4.32
54 D 2689	DO-T4	Output	600	3.2	5.40	4.59	4.32
54 D 2690	DO-T5	Output	1.2K	3.2	5.40	4.59	4.32
54 D 2691	DO-T6	Output	10K	3.2	6.00	5.10	4.80
54 D 2692	DO-T7	Input	200K	1K	9.30	7.91	7.44
54 D 2693	DO-T8	Inductor 3.5 hys @ 2 ma DC			4.80	4.08	3.84
54 D 2694	DO-T9	Out. or Driver	10K-12K	500-600 CT	6.60	5.61	5.28
54 D 2695	DO-T10	Driver	10K-12.5K	1.2K-1.5K CT	6.60	5.61	5.28
54 D 2696	DO-T11	Driver	10K-12.5K	2K-2.5K CT	6.60	5.61	5.28
54 D 2697	DO-T12	S/PP Output	150-200 CT	12-16	5.70	4.85	4.56
54 D 2698	DO-T13	S/PP Output	300-400 CT	12-16	5.70	4.85	4.56
54 D 2876	DO-T15	S/PP Output	800-1070 CT	12-16	6.00	5.10	4.80
54 D 2877	DO-T16	S/PP Output	1K-1.33K CT	12-16	6.00	5.10	4.80
54 D 2878	DO-T17	S/PP Output	1.5K-2K CT	12-16	6.00	5.10	4.80
54 D 3087	DO-T18	S/PP Output	7.5K-10K CT	12-16	6.30	5.36	5.04
54 D 3088	DO-T19	Output to line	300 CT	600	6.00	5.10	4.80
54 D 3089	DO-T20	Out. or Match to line	500 CT	600	6.00	5.10	4.80
54 D 3091	DO-T22	Output to line	1.5K CT	600	6.00	5.10	4.80
54 D 3092	DO-T23	Interstage	20K-30K CT	800-1.2K CT	6.90	5.87	5.52
54 D 3093	DO-T24	Input	200K CT	1K CT	9.90	8.42	7.92
54 D 3094	DO-T25	Interstage	10K-12K CT	1.5K-1.8K CT	7.20	6.12	5.76
54 D 3095	DO-T26	Inductor 6 hys. @ 2 ma DC			5.70	4.85	4.56
54 D 3096	DO-T27	Inductor 1.25 hys @ 2 ma DC			4.80	4.08	3.84
54 D 1752	DO-T28	Inductor .3 hys @ 4 ma DC			4.80	4.08	3.84
54 D 1753	DO-T29	Single/PP Output	120-150 CT	3.2-4	5.70	4.85	4.56
54 D 1754	DO-T30	Single/PP Output	320-400 CT	3.2-4	5.70	4.85	4.56
54 D 1755	DO-T31	Single/PP Output	640-800 CT	3.2-4	6.00	5.10	4.80
54 D 1756	DO-T32	Single/PP Output	800-1K CT	3.2-4	6.00	5.10	4.80
54 D 1757	DO-T33	Single/PP Output	1.06K-1.33K CT	3.2-4	6.00	5.10	4.80
54 D 1758	DO-T34	Single/PP Output	1.6K-2K CT	3.2-4	6.00	5.10	4.80
54 D 1759	DO-T35	Single/PP Output	8K-10K CT	3.2-4	6.30	5.36	5.04
54 D 1760	DO-T36	Isol. or Interstage	10K-12K CT	10K-12K CT	7.50	6.38	6.00
54 D 3284	DO-T37	Interstage	2K-2.5K CT	8K-10K split	7.80	6.63	6.24
54 D 3293	DO-T38	Interstage	10K-12K CT	2K-2.4K split	7.80	6.63	6.24
54 D 3294	DO-T39	Interstage	20K-30K CT	1K-1.5K split	7.80	6.63	6.24
54 D 3295	DO-T40	Interstage	40K-50K CT	400-500 split	8.40	7.14	6.72
54 D 3296	DO-T41	Output	400-500 CT	400-500 split	7.50	6.38	6.00
54 D 3297	DO-T42	Interstage	400-500 CT	120-150 split	7.50	6.38	6.00
54 D 3298	DO-T43	Interstage	400-500 CT	40-50 split	7.50	6.38	6.00
54 D 3299	DO-T44	Interstage	80-100 CT	32-40 split	7.50	6.38	6.00
54 D 1648	DO-T45	Interstage	1K-1.25K CT	16K-20K split	7.80	6.63	6.24
54 D 1649	DO-T46	Input	100K CT	500 CT	9.60	8.16	7.68
54 D 4044	DO-T47	Isol. or Interstage	9K-10K CT	9K-10K CT	8.10	6.89	6.48
54 D 4045	DO-T48	Isol. or Interstage	8K-10K CT	1.2K-1.5K CT	7.80	6.63	6.24
54 D 4046	DO-T49	Ser., 20 hys @ 1 ma; Par., 5 hys @ 2 ma			7.80	6.63	6.24
54 D 3185	DO-T51	Interstage	2K-2.5K CT	2K-2.5K split	7.80	6.63	6.24
54 D 3188	DO-T410	Pri., 28 v. 380-1000 cps; 2 sec., ea. 6.3 v. 30 ma			7.80	6.63	6.24
54 D 3189	DO-T420	Isol.—pri. and sec., 28 v., 380-1000 cps., 20 ma.			7.80	6.63	6.24
54 D 3097	DO-TSH	Hipermalloy shield and cover for any DO-T units			.90	.77	.72

DI-T TRANSISTOR TRANSFORMERS AND INDUCTORS

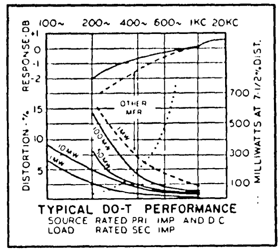
Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	1-24	25-99	100-Up
54 D 3106	DI-T2	Output	500-600	50-60	5.40	4.59	4.32
54 D 3107	DI-T3	Output	1K-1.2K	50-60	5.40	4.59	4.32
54 D 1744	DI-T5	Output	0.2K	3.2	5.40	4.59	4.32
54 D 3108	DI-T8	Inductor 2.5 hys @ 2 ma DC			4.80	4.08	3.84
54 D 3109	DI-T9	Output or Driver	10K-12K	500-600 CT	6.60	5.61	5.28
54 D 3110	DI-T10	Driver	10K-12.5K	1.2K-1.5K CT	6.60	5.61	5.28
54 D 3111	DI-T11	Driver	10K-12.5K	2K-2.5K CT	6.60	5.61	5.28
54 D 3114	DI-T22	Output to line	1.5K-CT	600	6.00	5.10	4.80
54 D 1746	DI-T25	Interstage	10K-12K CT	1.5K-1.8K CT	7.20	6.12	5.76
54 D 1747	DI-T26	Inductor 4:5 hys @ 2 ma DC			5.70	4.85	4.56
54 D 1748	DI-T27	Inductor .9 hys @ 2 ma DC			4.80	4.08	3.84
54 D 1750	DI-T36	Isol. or Interstage	10K-12K	10K-12K	7.50	6.38	6.00
54 D 1651	DI-T37	Isol. or Interstage	2K-2.5K CT	8K-10K split	7.80	6.63	6.24
54 D 1653	DI-T41	Interstage	400-500 CT	400-500 Split	7.50	6.38	6.00
54 D 3242	DI-T51	Interstage	2K-2.5K CT	2K-2.5K Split	7.80	6.63	6.24
54 D 1751	DI-TSH	Hipermalloy shield and cover for any DI-T units			.90	.77	.72

DI-T 200 TRANSISTOR TRANSFORMERS

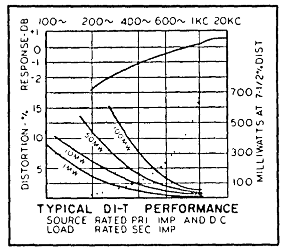
Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	1-24	25-99	100-Up
54 D 4012	DI-T255	Output	1K-1.2K CT	50-60 CT	6.90	5.87	5.52
54 D 4014	DI-T260	Output to line	1.5K CT	600 CT	7.20	6.12	5.76
54 D 4016	DI-T265	Isol. or Interstage	2K-2.5K CT	8K-10K split	8.70	7.40	6.96
54 D 4017	DI-T270	Output or Driver	10K-12K CT	500-600 CT	7.80	6.63	6.24
54 D 4019	DI-T276	Interstage	10K-12K CT	2K-2.4K CT	7.80	6.63	6.24
54 D 4032	DI-T283	Isol. or Interstage	10K-12K CT	10K-12K CT	8.40	7.14	6.72

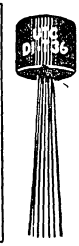
PIL ULTRAMINIATURE AUDIO TRANSFORMERS AND INDUCTORS

Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	1-24	25-99	100-Up
54 D 3300	PIL-5	Series, .10 hy @ 5 ma; Parallel, .025 hy @ 10 ma			6.00	5.10	4.80
54 D 3301	PIL-8	Series, .18 hy @ 5 ma; Parallel, .05 hy @ 10 ma			6.00	5.10	4.80
54 D 3302	PIL-12	Series, .40 hy @ 3 ma; Parallel, .15 hy @ 5 ma			6.00	5.10	4.80
54 D 3303	PIL-50	Out. or Match to Line	500 CT	500CT	7.20	6.12	5.76
54 D 3304	PIL-70	Output or Driver	10K CT	500 CT	7.50	6.38	6.00
54 D 3305	PIL-75	Driver	10K CT	2K CT	7.50	6.38	6.00

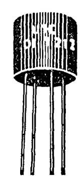


DO-T Series. Subminiature transistor transformers and inductors. 5/16″ diameter x 13/32″ high. Hermetically sealed. Exceed MIL-T-27B, Grade 4. Actual wt., 1/10 oz. Outstanding performance is shown by response curves, above. Bobbin of units is completely rigid to eliminate stress and wire movement. Turns are circular to eliminate turn corner stress, and provide uniform wire lay. Coil wire and leads are brought out through a strain relief—use no tapes. 1½″ leads are solder-melting plastic, insulated solid copper No. 24-26 AWG. Shpg. wt., 1 oz.





DI-T Series. Similar in construction to DO-T series as described above, but with considerable reduction in height. Offer comparably outstanding performance, as shown by response curves, above. Utilize same rugged rigid-bobbin construction with circular wire turns and hermetically sealed metal case to MIL-T-27B, Grade 4 specs. 1½″ solder-melting plastic, insulated solid copper leads. Actual wt., 1/15 oz. Av. shpg. wt., 2 oz.



DI-T200 SERIES. Same as DO-T and DI-T series, but with leads of uninsulated gold-plated .017D Dumet wire, for solder or weld termination. Leads are spaced on 1/10″ radius circle. Hermetically sealed, metal cased to meet MIL-T-27B Grade 4 Class R (105° C max.). 5/16″ diameter, ¼″ high. Actual wt., 1/10 oz. Av. shpg. wt., 2 oz.

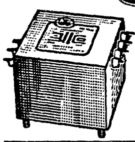
NEW! PIL ULTRAMINIATURE SERIES. Audio transformers and inductors. DO-T type structure and design. Ruggedized units with rigid cylindrical bobbin and circular wire turns overcome poor electrical characteristics sometimes found in conventional construction audio units. With firmly anchored, weldable or solderable gold-plated Dumet leads. Each is hermetically sealed and metal cased to MIL-T-27B, Grade 4 specifications. Dimensions are 5/16-in. dia. by 3/16-in. high. Actual weight 1/20 oz. Av. shpg. wt., 2 oz.

Allied can furnish the complete line of UTC DI-T, DO-T and PIL series transformers at OEM factory prices.

UTC Transformers May Be Assorted to Take Advantage of Quantity Pricing

UTC Filters, Inductors and Transformers

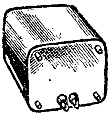
POWER-LINE ISOLATION TRANSFORMERS



Ultrashielded—provide maximum isolation for critical circuits. Coupling less than 0.10 mmf. MIL type TF4RX01YY—meet MIL-T-27B specs. Pri., 115 v. 50-60 cycle; sec., 115 v. Except HIT-450, for 400 cycles. *Industrial rating.

Stock No.	Mfr's Type	Watts *	Size	Wt., Lbs.	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 3365	HIT-1	60	4 1/32x4 1/32x3 1/32″	5 1/2	33.00	28.05	26.40
54 D 3366	HIT-15	150	5 11/32x5x3 1/2″	13	39.00	33.20	31.20
54 D 3367	HIT-2	200	5 17/32x5 17/32x4 17/32″	15 1/2	48.00	40.80	38.40
54 D 3368 X	HIT-3	480	8x6 17/32x5 17/32″	33 3/4	69.00	58.70	55.20
54 D 3942	HIT-450	100	4 1/32x4 1/32x3 1/32″	5 1/2	33.00	28.05	26.40

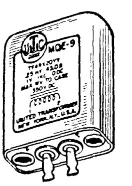
MIL-T-27B HERMETICALLY SEALED FILTER INDUCTORS



Hermetically sealed for highest reliability. Inductance values shown are given for maximum military current ratings. H-72 is rated at 2500 volts rms; H-70 and H-170, 1000 volts. Stainless steel mtg studs. Sizes (HxWxD″): H-70, 1 3/4x1 5/16x1 5/16; H-72, 2 13/16x2 3/4x2 3/8; H-170, 2 13/16x2 3/4x2 3/8. *2 windings. †Millihenrys. H-72, 3/8 lb.; H-70 and H-170, 2 1/2 lbs.

Stock No.	Mfr's Type	Ind. Hys	DC Ma	DC Ohms	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 1729	H-70	10.0	35	925	8.10	6.89	6.48
54 D 1731	H-72	7.0	125	215	11.40	9.69	9.12
54 D 3941	*H-170	†140, 35	250, 500	.6, .15	11.70	9.95	9.36

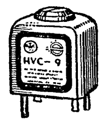
MIL-TF4RX20YY TYPE M PERMALLOY DUST TOROIDS



Hermetically sealed, meet MIL-T-27B specs. 1% tolerance. Type M toroids offer high voltage stability, maximum Q factor in their class, and miniature dimensions. Inductance is virtually independent of frequency, temperature or vibration. The DC currents shown will cause only a slight drop in coil inductance. Extremely low hum pickup. Toroid sizes: Type MQA, 1 9/32x1 31/32x11/16″; Type MQB, 2 9/16x2 13/16x1 3/16″; Type MQE, 1 1/16x1 7/32x1/2″. MQA, 4 oz.; MQB, 14 oz.; MQE, 1 1/2 oz.

Stock No.	Mfr's Type	Inductance	Max. Ma	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 2985	MQA-1	7 mhy	250	7.50	6.38	6.00
54 D 2986	MQA-2	12 mhy	200	7.80	6.63	6.24
54 D 2987	MQA-3	20 mhy	150	8.10	6.89	6.48
54 D 2989	MQA-5	50 mhy	100	8.70	7.40	6.96
54 D 2990	MQA-6	70 mhy	80	9.00	7.65	7.20
54 D 2991	MQA-7	120 mhy	60	9.30	7.91	7.44
54 D 2992	MQA-8	.2 hy	50	9.60	8.16	7.68
54 D 2994	MQA-10	.5 hy	30	10.20	8.67	8.16
54 D 2996	MQA-12	1 hy	20	10.80	9.18	8.64
54 D 2999	MQA-15	4 hy	10	12.00	10.20	9.60
54 D 2968	MQA-17	10 hy	7	13.80	11.73	11.04
54 D 3383	MQB-1	10 mhy	400	12.90	10.97	10.32
54 D 2956	MQB-4	120 mhy	120	13.80	11.73	11.04
54 D 2957	MQB-5	.5 hy	60	14.10	11.99	11.28
54 D 2958	MQB-6	1 hy	40	14.40	12.24	11.52
54 D 2959	MQB-7	2 hy	30	14.70	12.50	11.76
54 D 2962	MQB-8	3.5 hy	22	15.00	12.75	12.00
54 D 3385	MQB-12	25 hy	8	19.20	16.32	15.36
54 D 3393	MQE-0	4 mhy	160	6.90	5.87	5.52
54 D 2947	MQE-3	20 mhy	80	7.80	6.63	6.24
54 D 2949	MQE-5	50 mhy	50	8.10	6.89	6.48
54 D 3394	MQE-6	70 mhy	40	8.40	7.14	6.72
54 D 2976	MQE-7	100 mhy	35	8.40	7.14	6.72
54 D 2978	MQE-9	.25 hy	22	8.70	7.40	6.96
54 D 2979	MQE-10	.4 hy	17	9.00	7.65	7.20
54 D 2981	MQE-12	.9 hy	12	9.30	7.91	7.44
54 D 3397	MQE-16	4 hy	5	13.50	11.48	10.80

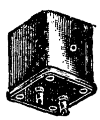
MIL-T-27B TYPES HVC AND TVC VARIABLE INDUCTORS



Hermetically sealed, provide a wide inductance range with a high Q in an extremely compact unit. Ideal for tuned circuits. Adjustable, −70% to +200% of mean inductance by 900° rotation. Usable over a wide frequency range. Highly stable with temperature and voltage change. TVC series has taps at 30% and 50% of total turns Units have two 4-40 mtg. studs. Size: 1 1/8x25/32x1 9/32″. Wt., 2 oz.

Stock No.	Mfr's Type	Mean Hys.	Max. Ma	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 2114	HVC-1	.006	100	9.00	7.65	7.20
54 D 2115	HVC-2	.015	60	9.00	7.65	7.20
54 D 2116	HVC-3	.040	40	9.00	7.65	7.20
54 D 2117	HVC-4	.1	30	9.00	7.65	7.20
54 D 2118	HVC-5	.25	20	9.00	7.65	7.20
54 D 2119	HVC-6	.6	15	9.00	7.65	7.20
54 D 2121	HVC-7	1.5	10	9.60	8.16	7.68
54 D 2122	HVC-8	4.0	7	9.60	8.16	7.68
54 D 2123	HVC-9	10	5	9.60	8.16	7.68
54 D 2124	HVC-10	25	3.5	9.90	8.42	7.92
54 D 2127	HVC-12	150	1.5	12.00	10.20	9.60
54 D 1330	TVC-1	.006	100	11.10	9.44	8.88
54 D 1331	TVC-2	.015	60	11.10	9.44	8.88
54 D 1333	TVC-4	.1	30	11.10	9.44	8.88
54 D 1334	TVC-5	.25	20	11.10	9.44	8.88
54 D 1335	TVC-6	.6	15	11.10	9.44	8.88
54 D 1336	TVC-7	1.5	10	11.70	9.95	9.36

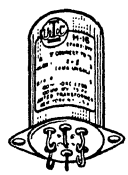
TYPE VIC VARIABLE INDUCTORS



Type VIC inductors offer a convenient approach to the problem of tuned audio circuits. By adjusting a set screw in the side of the case, any inductance value of −45% to +85% from the mean value is obtained. Range is covered in 600° rotation with positive setting. Mounting centers on terminal board side are 13/16x29/32″, and tapped for 4-40 screws. 1 11/32x1 1/4x1 7/16″. Wt., 5 1/2 oz.

54 D 2907	VIC-8	.21	21	6.90	5.87	5.52
54 D 2908	VIC-9	.34	18	6.90	5.87	5.52
54 D 2909	VIC-10	.54	15	6.90	5.87	5.52
54 D 2911	VIC-12	1.3	10	7.20	6.12	5.76
54 D 2912	VIC-13	2.2	8	7.20	6.12	5.76
54 D 2913	VIC-14	3.4	7	7.20	6.12	5.76
54 D 2914	VIC-15	5.4	6	7.50	6.38	6.00
54 D 2915	VIC-16	8.5	5	7.50	6.38	6.00
54 D 2917	VIC-18	21	3.5	7.80	6.63	6.24

TRANSISTOR AND VACUUM-TUBE TYPE MINIATURE MIL-T-27B AUDIO TRANSFORMERS



Occupy Less Than 2 Cubic Inches

For use in either vacuum tube or transistor circuits. Meet MIL-T-27B specs. Bead terminals permit use in printed circuits. May be used in reverse, input to secondary. Impedance ratio is constant. Freq. response and max. level: H-1, 50-10,000 cps, +5 dbm; H-6, 200-10,000 cps, +11 dbm; H-7, 200-10,000 cps, +21 dbm; H-8, 50-10,000 cps, +8 dbm. Level ratings given are for low distortion at lowest frequency specified. Higher levels are permissible for higher frequencies. In drawn steel cases, occupying less than 2 cubic inches. Size (HxWxD): 1 7/16x61/64x1 13/32″. Requires 7/8″ dia. cutout. *Indicates split primary. †Split secondary. Av. shpg. wt., 1 1/2 oz.

Stock No.	Mfr's Type	Pri. Impedance (Ohms)	Sec. Impedance (Ohms)	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 1700	H-1	50/200CT/500CT	50,000	9.00	7.65	7.20
54 D 1705	H-6	15,000	†95,000	10.20	8.67	8.16
54 D 1706	H-7	20,000CT	†600/150	9.60	8.16	7.68
54 D 1707	H-8	*600/150	600CT	9.00	7.65	7.20

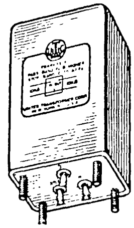
TYPE PIP SUBMINIATURE PULSE TRANSFORMERS FOR TRANSISTORIZED CIRCUITRY

Precision-made subminiature pulse transformers are ideal for use in transistorized circuitry. Have same physical design and reliability as UTC DO-T and DI-T transformers. Metal-cased and hermetically sealed according to MIL-T-21038B. Types 1 through 9 are MIL type TP6-RX-4410CZ and have a 4:4:1 ratio. Types 11 and 12 are MIL type TP6RX-5310CZ and have a 5:3:1 ratio. Each transformer is 3/16″ high and has 5/16″ diameter. Actual wt., 1/20 oz. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Width (μsec)	Rise Time (μsec)	Volts Out	Imp. In, Out, (Ohms)	May Be Assorted 1-24 EACH	25-99 EACH	100-Up EACH
54 D 1654	PIP-1	.05	.02	9	50	6.00	5.10	4.80
54 D 1656	PIP-3	.2	.030	7	100	6.00	5.10	4.80
54 D 1657	PIP-4	.5	.05	7	100	6.00	5.10	4.80
54 D 1658	PIP-5	1	.08	6.8	100	6.00	5.10	4.80
54 D 1659	PIP-6	2	.10	6.6	100	6.00	5.10	4.80
54 D 1660	PIP-7	3	.20	6.8	100	6.00	5.10	4.80
54 D 1661	PIP-8	5	.30	7.9	200	6.00	5.10	4.80
54 D 1662	PIP-9	10	.35	6.5	200	6.00	5.10	4.80
54 D 4120	PIP-11	1	.02	6.6	280/100	6.00	5.10	4.80
54 D 4121	PIP-12	5	.05	8	560/200	6.00	5.10	4.80
54 D 2126	PIPSH	Hipermalloy Shield and Cover				.90	.77	.72

UTC Filters, Inductors and Transformers

INTERSTAGE AND LINE FILTERS

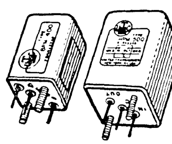


Good-quality filters for the more common mid-range frequency filter requirements. Suffix in Mfr's Type indicates cutoff frequency. BMI filters are bandpass interstage units for use between a tube plate (or 10K ohms) and a grid. Provide gain of 2 at center frequency. BML units have source and load imp. of 500/600 ohms, gain of 9. HMI filters are high-pass interstage units with source and load of 10K. HML filters are for use with source and load impedance of 500/600 ohms. BMI and BML units are sharply peaked, and are 2 db down ±3% from center frequency, and down 40 db per octave. All cases are sealed to MIL-F-18327B specifications. BMI, LMI, BML, 1⅝x1¹¹⁄₁₆x1³⁄₁₆"; HMI, HML, LML, 2½x1¹¹⁄₁₆x1³⁄₁₆".

Mfr's Type	Stock No.	Mfr's Type	Stock No.	Mfr's Type	Stock No.
BMI-60	54 D 3048	LMI-800	54 D 3083	LMI-400	54 D 3121
BMI-400	54 D 3059	LMI-1000	54 D 3084	HMI-500	54 D 3122
BMI-1000	54 D 3064	LMI-2500	54 D 3100	BML-400	54 D 3127
BMI-10000	54 D 3078	LMI-3000	54 D 3101	HML-300	54 D 3130
LMI-100	54 D 3079	LMI-5000	54 D 3103	LML-2000	54 D 3135
LMI-400	54 D 3081	LMI-10000	54 D 3104	LML-3000	54 D 4066
LMI-500	54 D 3082	HMI-200	54 D 3119	LML-8000	54 D 3145

Type BMI. 1-24 .... Each 30.00
25-99 .... Each 25.50 100-Up .... Each 24.00
Type LMI. 1-24 .... Each 31.50
25-99 .... Each 26.78 100-Up .... Each 25.20
Type HMI. 1-24 .... Each 31.50
25-99 .... Each 26.78 100-Up .... Each 25.20
Type BML. 1-24 .... Each 30.00
25-99 .... Each 25.50 100-Up .... Each 24.00
Type HML. 1-24 .... Each 39.00
25-99 .... Each 33.15 100-Up .... Each 31.20
Type LML. 1-24 .... Each 31.50
25-99 .... Each 26.78 100-Up .... Each 25.20

MINIFILTERS



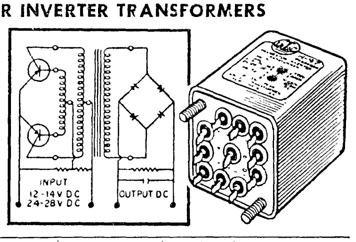
BPM HPM, LPM

Ultra-compact hermetically-sealed interstage filters. Meet MIL-F-18327B specifications. Cutoff frequency indicated by Manufacturer's Type number. All input and output impedances are 10K. BPM bandpass filters have 2:1 gain. Attenuation is approximately 2 db ±3% for center frequency, down 35 db per octave. For tube circuits, continuity is on grid side and input is DC blocking. For transistor use, units may be reversed so that continuity is on input side and output is DC blocking. Size, 1⅛" high, ¾" wide, ¾" deep. HPM high-pass filters are down less than 6 db at cutoff frequency, more than 30 db at 0.67 cutoff frequency, 40 db at 0.6 cutoff frequency. Size, 1⅜" high, 1" wide, 1" deep. LPM low-pass filters are down less than 6 db at cutoff frequency, over 30 db at 1.5 cutoff frequency, 40 db at 1.65 cutoff frequency. Size, 1⅜x1x1".

Mfr's Type	Stock No.	Mfr's Type	Stock No.	Mfr's Type	Stock No.
BPM-400	54 D 3221	HPM-1000	54 D 3252	LPM-2000	54 D 3263
BPM-800	54 D 3932	LPM-200	54 D 3253	LPM-3000	54 D 3264
BPM-1000	54 D 3225	LPM-500	54 D 3254	LPM-5000	54 D 3266
BPM-8000	54 D 3933	LPM-1000	54 D 3255	LPM-10000	54 D 4074

Type BPM. 1-24 .... Each 27.00
25-99 .... Each 22.95 100-Up .... Each 21.60
Type HPM. 1-24 .... Each 30.00
25-99 .... Each 25.50 100-Up .... Each 24.00
Type LPM. 1-24 .... Each 30.00
25-99 .... Each 25.50 100-Up .... Each 24.00

TRANSISTOR INVERTER TRANSFORMERS



Hermetically sealed to MIL-T-27B. New winding/coupling method greatly reduces transitory peaks—protects driving transistors. DC output shown for 12/14 or 24/48 v. battery. Current ratings same with 6/7 v. battery but output v. is halved. Optimum results approximately at 1000 cps.

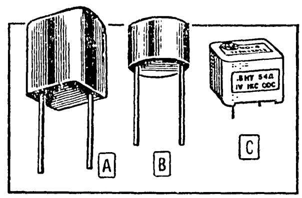
Stock No.	Mfr's Type	DC Output		Size (Inches)	May Be Assorted		
		V	Ma		1-24 EACH	25-99 EACH	100-Up EACH
54 D 3934	H-97	250	60	1⁵⁄₁₆x1⁵⁄₁₆x1¾	16.50	14.03	13.20
54 D 3935	H-98	375	100	1⅝x1⅝x2⅜	17.40	14.79	13.92
54 D 3936	H-99	425	175	2⁵⁄₁₆x2¹⁄₁₆x3⅛	22.20	18.87	17.76
54 D 3937	H-100	550	200	2¾x2⅜x2¹³⁄₁₆	22.20	18.87	17.76

MINIDUCTORS

[A] ML Series, Sealed in Hipermalloy Case

[B] MM, MH, MW Series. Symmetrical Torroids

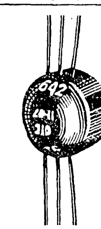
[C] MO Series. Has Low Hum-Pickup



For transistor and printed circuit, as well as vacuum tube designs. Provide high Q in miniature form. Miniductors meet specs of MIL-T-27B. MH, MM cases are 7⁄16" dia. x ¼" high; actual wt., .07 oz. MW cases are 23⁄32" dia. x 13⁄32" high; actual wt., .25 oz. ML cases are 7⁄16x31⁄64x9⁄16" high; actual wt., 2 oz. MO cases are ¾x1¹⁄₁₆x1³⁄₁₆" high; actual wt., 1 oz.

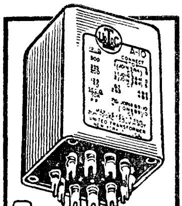
Stock No.	Mfr's Type	Inductance (0 DC)	DC Ma Max.	May Be Assorted		
				1-24 EACH	25-99 EACH	100-Up EACH
54 D 1385	MH-1	.6 mhy	90.0	8.10	6.89	6.48
54 D 1386	MH-2	1.5 mhy	57.0	8.10	6.89	6.48
54 D 1387	MH-3	2.5 mhy	44.0	8.40	7.14	6.72
54 D 1389	MH-5	10.0 mhy	22.0	8.70	7.40	6.96
54 D 1392	MH-8	40.0 mhy	11.0	9.00	7.65	7.20
54 D 1378	MM-2	5.0 mhy	40.0	7.50	6.38	6.00
54 D 1379	MM-3	8.0 mhy	30.0	7.80	6.63	6.24
54 D 1381	MM-5	20.0 mhy	20.0	8.10	6.89	6.48
54 D 1382	MM-6	30.0 mhy	16.0	8.10	6.89	6.48
54 D 1383	MM-7	60.0 mhy	11.0	8.40	7.14	6.72
54 D 1384	MM-8	120.0 mhy	8.0	8.40	7.14	6.72
54 D 4188	MW-.05	.05 hy	25	7.20	6.12	5.76
54 D 4189	MW-.10	.10 hy	18	7.50	6.38	6.00
54 D 4116	MW-.25	.25 hy	11	7.50	6.38	6.00
54 D 4107	MW-.5	.5 hy	8	7.80	6.63	6.24
54 D 4108	MW-.75	.75 hy	7	8.40	7.14	6.72
54 D 4109	MW-1	1.0 hy	6	8.70	7.40	6.96
54 D 4113	MW-5	5 hy	3	13.50	11.48	10.80
54 D 4117	ML-0	.15 hy	12	8.40	7.14	6.72
54 D 1347	ML-1	.25 hy	9.0	8.40	7.14	6.72
54 D 1348	ML-2	.4 hy	7.0	8.40	7.14	6.72
54 D 1349	ML-3	.7 hy	5.0	8.40	7.14	6.72
54 D 1370	ML-4	1.4 hy	3.0	8.40	7.14	6.72
54 D 1371	ML-5	2.5 hy	1.0	8.40	7.14	6.72
54 D 1372	ML-6	4.0 hy	.7	8.40	7.14	6.72
54 D 1373	ML-7	6.0 hy	.6	8.40	7.14	6.72
54 D 1374	ML-8	10.0 hy	.5	8.40	7.14	6.72
54 D 1375	ML-9	25.0 hy	.3	8.70	7.40	6.96
54 D 1376	ML-10	60.0 hy	.2	9.90	8.42	7.92
54 D 4118	MO-.1	.1 hy	55	9.30	7.91	7.44
54 D 4095	MO-.5	.5 hy	23	9.30	7.91	7.44
54 D 4100	MO-1	1 hy	16	9.30	7.91	7.44
54 D 4102	MO-5	5 hy	5	9.60	8.16	7.68
54 D 4104	MO-20	20 hy	2.7	9.60	8.16	7.68
54 D 4106	MO-100	100 hy	1.1	9.90	8.42	7.92

MINIATURE PULSE TRANSFORMERS VACUUM TUBE TYPE

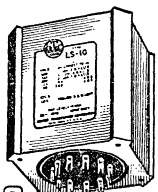


Wound-core pulse transformers for tube applications. Meet MIL-T-21038B. Hermetically sealed—usable from —70°C to +130°C. Individually adjusted to parameters shown. Width shown is time between 50% amplitude points on leading and trailing pulse edges. Rise time shown is time from 10% to 90% of max amplitude. *Both blocking oscillator and coupling characteristics. Sizes: Types 45 and 461, ⅜x⅜"; 47 through 52 plus 501, 9⁄16x9⁄16"; 53 through 57 plus 531 and 561, ⅝x⅝". Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Width (μsec)*	Rise Time (μsec)	Volts Out	May Be Assorted		
					1-24 EACH	25-99 EACH	100-Up EACH
54 D 1719	H-45	.05	.01	17	7.35	6.25	5.88
54 D 1720	H-46	.10	.01	19	7.35	6.25	5.88
54 D 1721	H-47	.20	.01	18	6.60	5.61	5.28
54 D 1722	H-48	.50	.01	20	6.60	5.61	5.28
54 D 1723	H-49	1.0	.02	24	6.60	5.61	5.28
54 D 1724	H-50	2	.05	27	6.60	5.61	5.28
54 D 1725	H-51	3	.07	26	6.60	5.61	5.28
54 D 1726	H-52	5	.15	23	6.60	5.61	5.28
54 D 3262	H-53	7	.20	24	6.60	5.61	5.28
54 D 1727	H-54	10	.25	24	6.90	5.87	5.52
54 D 1346	H-55	16	.40	23	6.90	5.87	5.52
54 D 3265	H-56	20	.6	23	6.90	5.87	5.52
54 D 1728	H-57	25	1.50	24	6.90	5.87	5.52
54 D 3268	H-461	.1	.02	19	7.50	6.38	6.00
54 D 3271	H-501	2	.06	27	6.60	5.61	5.28
54 D 3319	H-531	7	.23	24	6.60	5.61	5.28
54 D 3320	H-561	20	.7	23	6.90	5.87	5.52



A TYPE A CASE



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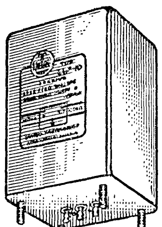

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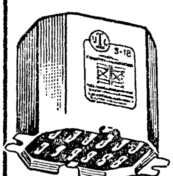

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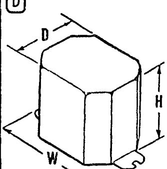

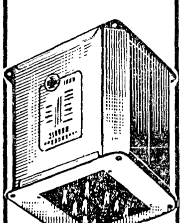

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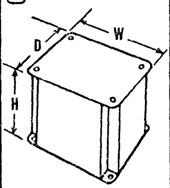


UTC Transformers and Chokes

A ULTRACOMPACT TRANSISTOR AND TUBE-TYPE AUDIO HI-FI TRANSFORMERS

Meet broadcast standards. Response (cps): ‡20-20,000; †40-20,000; A-27 and A-44, 30-20,000; A-20, 10-50,000; A-21, 30-30,000; A-26, 20-40,000; A-43, 20-30,000. All ±2 db. *Multiple-alloy shield for extremely low hum pickup. §High electrostatic shielding. A-33 (hipermalloy shield) fits entire "A" series. Wt., ½ lb.

Stock No.	Mfr's Type	Application	Primary Imp. (ohms)	Secondary Imp. (ohms)	May Be Assorted 1-24.EA.	25-99.EA.	100-Up.EA.
54 D 2820	A-10‡	Low imp. to grid	50, 125-150, 200-250, 333, 500-600	50K	15.00	12.75	12.00
54 D 2821	A-11*‡	Low imp. to 1, 2 grids	50, 200, 500	50K, P.P	12.00	10.20	9.60
54 D 2822	A-12‡	Low imp. to PP grids	Same as A-10	80K 2 sect	13.50	11.48	10.80
54 D 2864	A-15†	Transistor interstage	10K-2.5K	500-2K	10.80	9.18	8.64
54 D 2824	A-16‡	Plate to grid	15K	60K-2:1	11.40	9.69	9.12
54 D 2825	A-18†	1 or PP pl. to PP gr.	15K (Split)	80K P.P. 2.3:1	13.20	11.22	10.56
54 D 2826	A-19†	Plate to PP grids	15K—8 ma DC	80K P.P. 2.3:1	12.00	10.22	9.60
54 D 2827	A-20§	Mixing, matching	Same as A-10	Same as Pri.	14.40	12.24	11.52
54 D 2828	A-21*§	Mixing, matching	50, 200-250, 500-600	Same as Pri.	12.00	10.20	9.60
54 D 2868	A-22†	T. interstage or out.	500	125-250 (Split)	9.90	8.42	7.92
54 D 2873	A-23†	T. interstage or out.	500	4-16 (Split)	9.90	8.42	7.92
54 D 2779	A-26	1 or PP pl. to line	30K P. to P.	As A-10 pri.	15.30	13.01	12.24
54 D 2306	A-27	Xtal/hi. imp. to line	100K (Split)	As A-10 pri.	13.50	11.48	10.80
54 D 2307	A-28†	Transistor to V.C.	48 CT	16 (Split)/8/4	10.20	8.67	8.16
54 D 1799	A-39*‡	Line to transistor	600-150 (Split)	2000-500 (Split)	11.70	9.95	9.36
54 D 2562	A-43§	Mixing/matching line	600-150 (Split)	Two 600-125 (Split)	14.70	12.50	11.76
54 D 3943	A-44	T. interstage or out.	4K-1K (Split)	600-150 (Split)	12.00	10.20	9.60
54 D 3944	A-45†	Autoxformer, matching	4, 8, 16. 4 w. @ 80 cps		12.00	10.20	9.60
54 D 2874	A-33	Mu-metal shield; for any of above. Size, 1¹⁹⁄₃₂x1¹⁹⁄₃₂x2⅓₂"			3.00	2.55	2.40

B LS-33 HIGH-LEVEL MATCHING TRANSFORMER

High level matching transformer designed to keep hum pickup extremely low. Built with hipermalloy core, multiple section, and inter-leaved windings. Response ±1 db at 10-40,000 cps. Size, 4³⁄₁₆x3½x4⁷⁄₁₆".

Stock No.	Mfr's Type	Max. Level	Primary Imp. (Ohms))	Secondary Imp. (Ohms)	Wt., Lbs.	EACH 1-24.	25-99.	100-Up
54 D 2800	LS-33	20 w.	50, 125, 200, 250, 333, 500/600	1.2, 2.5, 5, 7.5, 10, 15, 30, 50, 125, 200, 250, 333, 500/600	7½	24.00	20.40	19.20

B TYPE LS HYBRID AND REPEAT COILS

Repeat and hybrid units with many applications. LS units are designed for uniform frequency response, low wave form distortion and high efficiency. *High electrostatic shielding. 3⅛x2⅝x3¼". Shpg. wt., 3 lbs.

Stock No.	Mfr's Type	Application	Primary Imp. (Ohms)	Secondary Imp. (Ohms)	May Be Assorted 1-24. EA.	25-99. EA.	100-Up. EA.
54 D 3306	LS-68*	Mix, match lines and/or transistors	600/150 split	2 sec. each 600/150 split	27.00	22.95	21.60
54 D 3307	LS-140*	Isol. bal. and unbal. circuits	500/600 split	500/600 split	27.00	22.95	21.60
54 D 3940	LS-141	Hybrid Coil	3 bal. windings, each 500/600 CT		24.00	20.40	19.20

C LOW FREQUENCY, LOW PASS FILTERS

Has a loss of less than 3 db at nominal frequency, with attenuation of more than 40 db at twice nominal frequency. Housed in a hermetically sealed metal case to meet MIL-F-18327B specs. Shpg. wt., 1½ lbs.

Stock No.	Mfr's Type	Nominal Frequency	Source and Load Impedance (Ohms)	Size (HWD)	May Be Assorted 1-24. EA.	25-99. EA.	100-Up. EA.
54 D 3308	LLP-10	10 CPS	100 K	3⅛x2⁵⁄₁₆x2⅙"	60.00	51.00	48.00
54 D 3310	LLP-15	15 CPS	100 K	3⅛x2⁵⁄₁₆x2⅙"	60.00	51.00	48.00

FILTER, SWINGING, AND AUDIO CHOKES

Stock No.	Mfr's Type	Fig.	Henrys *Mhy	Ma †A	Ohms	Size (HWD)	Wt., Lbs.	May Be Assorted 1-24.EA.	25-99.EA.	100-Up.EA.
54 D 2751	S-33	E	8	300	100	4⅝x4⅝x5½"	8	9.90	8.42	7.92
54 D 2734	S-34	E	4/20	300	100	4⅝x4⅝x5½"	8	10.50	8.93	8.40
54 D 2737	S-37	E	8	550	60	4⅝x5⅜x5⅜"	12	16.50	14.03	13.20
54 D 2738	S-38	E	4/20	550	60	4⅝x5⅜x5⅜"	12	16.50	14.03	13.20
54 D 2316	S-81	D	100/8* 25/2*	2.5† 5†	.6 .15	2 windings 2½x3¾x2⁵⁄₃₂"	2	6.60	5.61	5.28

SINGLE-SECONDARY FILAMENT TRANSFORMERS (Primary 105/115 v., 50-60 Cycle)

Stock No.	Mfr's Type	Fig.	Secondary	Size (HWD)	Wt., Lbs.	May Be Assorted 1-24.EA.	25-99.EA.	100-Up.EA.
54 D 2707	S-57	E	2.5V CT @ 10A	3¾x3⅛x4½"	4½	9.90	8.42	7.92
54 D 2708	S-58	E	2.5V CT @ 20A	3¾x3⅛x4½"	4½	10.50	8.93	8.40
54 D 2709	S-59	E	5V CT @ 13A	3¾x3⅛x4½"	4½	9.90	8.42	7.92
54 D 2710	S-60	E	5V CT @ 22A	4⅝x4⅝x5½"	8	15.00	12.75	12.00
54 D 2712	S-62	E	10V CT @ 10A	3¾x3⅛x4½"	4½	10.20	8.67	8.16
54 D 2713	S-63	E	14, 12, 11V CT @ 10A single wdg, tapped	4⅝x4⅝x5½"	8	15.00	12.75	12.00

TRANSISTOR/FILAMENT SUPPLY TRANSFORMERS (Primary, 115 v., 50-60 C.)

54 D 2128	S-75	D	Two-6.3V @ .6A each	1⅞x2¹³⁄₁₆x1¾"	1	6.60	5.61	5.28
54 D 2129	S-76	D	Two-12.6V @ 2.0A each	2¹⁵⁄₁₆x4⅛x2⁵⁄₁₆"	3	9.90	8.42	7.92
54 D 2134	S-77	E	Two-17/21.5V @ 1.5A each } Tapped	3¾x3⅛x4½"	4½	11.40	9.69	9.12
54 D 2317	S-78	E	Two-34/43V @ 4.5A each } Primary	5⅞x5⅜x6¾"	21	33.00	28.05	26.40

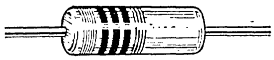
PLATE TRANSFORMERS (Primary 115 v., 50-60 Cycles)

54 D 2744 K	S-44	E	575-525-0-525-575 @ 500 ma	5⅞x5⅜x6¾"	22½	27.00	22.95	21.60
54 D 2745	S-45	E	900-750-0-750-900 @ 200 ma	4⅝x5⅜x5⅜"	12	22.50	19.13	18.00
54 D 2746 K	S-46	E	1000-750-0-750-1000 @ 300 ma	5⅞x5⅜x6¾"	20½	25.50	21.68	20.40
54 D 2748 K	S-47	E	1500-1250-1000-0-1000-1250-1500 @ 300 ma	5⅞x6⅛x6⅝"	26¾	36.00	30.60	28.80
54 D 2749 K	S-48	E	1500-1250-1000-0-1000-1250-1500 @ 500 ma	5⅞x6¹⁹⁄₃₂x7⅜"	31	42.00	35.70	33.60
54 D 2750 K	S-49	E	2100-1800-1500-0-1500-1800-2100 @ 300 ma	5⅞x6¹⁹⁄₃₂x7⅜"	31	39.00	33.15	31.20
54 D 2700 Z	S-50	E	3000-2500-0-2500-3000 @ 300 ma	10¼x7⅜x9¼"	52	66.00	56.10	52.80

UTC Transformers May Be Assorted To Take Advantage of Quantity Pricing

Miniature Molded Inductors NYTRONICS

"SUPER WEE-DUCTOR" SUBMINIATURE RF INDUCTORS



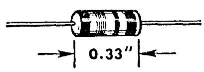
Subminiature RF inductors, epoxy molded and shielded for minimum coupling in high-density packaging. Meet all the electrical and environmental requirements of MIL-C-15305C specifications, Grade 1 (resistant to moisture and immersion), Class B (operation from −55° to +125° C). For altitudes up to 70,000 ft. ±10% inductive tolerance. Less than 3% coupling. Low DC resistance. 700 v. rms dielectric strength. Size, 0.410″ long x 0.157″ dia. 1¼″ long AWG #22 leads with T termination. Weigh only 0.750 grams maximum.

- Only 0.410″ by 0.157″
- Meets MIL-C-15305C

µh	EACH 1-24	25-49	50-99	100-249	250-499	500-999
Values 100,000-10,000	1.50	1.30	1.20	1.15	1.05	1.00
Values 6800-22	1.40	1.00	.90	.80	.75	.70
Values 15-.1	1.20	.90	.80	.70	.65	.60

Stock No.	Type SWD-	Ind. µh	Q	@ Mc	Stock No.	Type SWD-	Ind. µh	Q	@ Mc
54 D 0100	100,000	100,000	18	.079	54 D 0119	68	68	51	2.5
54 D 0101	68,000	68,000	23	.079	54 D 0120	47	47	52	2.5
54 D 0102	47,000	47,000	23	.079	54 D 0121	33	33	45	2.5
54 D 0103	33,000	33,000	27	.079	54 D 0122	22	22	46	2.5
54 D 0104	22,000	22,000	27	.079	54 D 0123	15	15	44	2.5
54 D 0105	15,000	15,000	31	.079	54 D 0124	10	10	49	7.9
54 D 0106	10,000	10,000	39	.25	54 D 0125	6.8	6.8	50	7.9
54 D 0107	6800	6800	43	.25	54 D 0126	4.7	4.7	44	7.9
54 D 0108	4700	4700	44	.25	54 D 0127	3.3	3.3	44	7.9
54 D 0109	3300	3300	43	.25	54 D 0128	2.2	2.2	45	7.9
54 D 0110	2200	2200	50	.25	54 D 0129	1.5	1.5	45	7.9
54 D 0111	1500	1500	49	.25	54 D 0130	1.0	1.0	47	25
54 D 0112	1000	1000	65	.79	54 D 0131	.68	.68	42	25
54 D 0113	680	680	60	.79	54 D 0132	.47	.47	44	25
54 D 0114	470	470	60	.79	54 D 0133	.33	.33	46	25
54 D 0115	330	330	54	.79	54 D 0134	.22	.22	49	25
54 D 0116	220	220	58	.79	54 D 0135	.15	.15	51	25
54 D 0117	150	150	56	.79	54 D 0136	.10	.10	50	25
54 D 0118	100	100	52	2.5	....	....	....	....	....

"WEE WEE DUCTOR" MINIATURE SHIELDED INDUCTORS

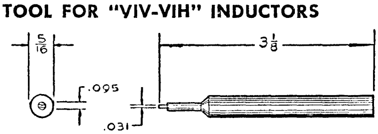


High-inductance RF inductors for use in miniaturized modules. Encapsulated, non-flammable, shielded. Conform to MIL-C-15305C specifications, Grade 1, Class B. Operating temperature, −55°C to +125°C. Resistant to moisture and immersion. Inductance tolerance: values 0.1 to 1.0 µh ±20%; values above 1.0 ±10%. Less than 3% coupling (two 1000 µh units, side-by-side). Low DC resistance. Size, 0.335″ long x 0.133″ dia. 1¼″ long AWG *24 leads. Actual weight, 0.40 grams maximum.

µh	EACH 1-24	25-49	50-99	100-249	250-499	500-999
Values 0.1-0.68	1.50	1.20	1.10	1.00	.90	.80
Values 1-10	1.60	1.30	1.20	1.10	1.00	.90
Values 15-1000	1.85	1.50	1.35	1.25	1.10	1.00

Stock No.	Type WEE-WEE-	Ind. µh	Q	@ Mc	Stock No.	Type WEE-WEE-	Ind. µh	Q	@ Mc
54 D 0137	.10	.10	42	25	54 D 0150	15	15	45	2.5
54 D 0138	.15	.15	42	25	54 D 0151	22	22	42	2.5
54 D 0139	.22	.22	42	25	54 D 0152	33	33	46	2.5
54 D 0140	.33	.33	42	25	54 D 0153	47	47	42	2.5
54 D 0141	.47	.47	41	25	54 D 0154	68	68	46	2.5
54 D 0142	.68	.68	36	25	54 D 0155	100	100	43	2.5
54 D 0143	1.0	1.0	42	25	54 D 0156	150	150	49	0.79
54 D 0144	1.5	1.5	38	7.9	54 D 0157	220	220	53	0.79
54 D 0145	2.2	2.2	36	7.9	54 D 0158	330	330	57	0.79
54 D 0146	3.3	3.3	38	7.9	54 D 0159	470	470	50	0.79
54 D 0147	4.7	4.7	42	7.9	54 D 0160	680	680	56	0.79
54 D 0148	6.8	6.8	45	7.9	54 D 0161	1000	1000	49	0.79
54 D 0149	10	10	51	7.9	....	....	....	....	....

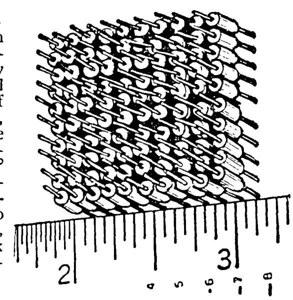
TUNING TOOL FOR "VIV-VIH" INDUCTORS



Tuning tool for Nytronics "Vari-Ductor" variable inductors, listed at right. Tool is made of polyester-bonded fiberglass. 3⅛x.095″. .031″ wide slot.

54 D 0216 .... .50

DECI-DUCTOR SUBMINIATURE INDUCTORS



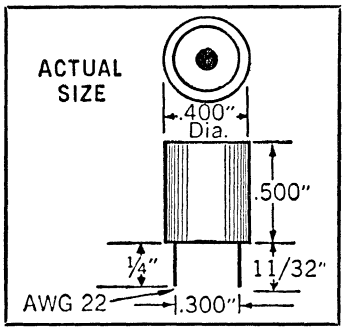
Epoxy molded, unshielded subminiature RF inductors with extreme inductance-to-size ratio. One hundred require only one square inch space. Meet all environmental requirements of MIL-C-15305C specifications, Grade 1 (resistance to moisture and immersion), Class B (operating temperature) from −55° C to +125° C. Inductance tolerance, ±10% over entire inductance range. Operate up to 70,000 ft. altitude. Vibration, shock resistant. Size, ¼″ long x 1/10″ dia. 1¼″ #24 leads. Actual weight, 0.352 grams.

µh	EACH 1-24	25-49	50-99	100-249	250-499	500-999
Values 0.1-1	.68	.55	.47	.43	.40	.37
Values 1.5-22	.72	.58	.50	.45	.42	.39
Values 33-100	.76	.61	.53	.48	.45	.42
Values 150-1000	1.08	.86	.75	.68	.63	.59

Stock No.	Type DD-	Ind. µh	Q	@ Mc	Stock No.	Type DD-	Ind. µh	Q	@ Mc
54 D 0162	.10	.10	40	25	54 D 0175	15	15	47	2.5
54 D 0163	.15	.15	38	25	54 D 0176	22	22	50	2.5
54 D 0164	.22	.22	35	25	54 D 0177	33	33	50	2.5
54 D 0165	.33	.33	32	25	54 D 0178	47	47	50	2.5
54 D 0166	.47	.47	32	25	54 D 0179	68	68	52	2.5
54 D 0167	.68	.68	33	25	54 D 0180	100	100	50	2.5
54 D 0168	1.0	1.0	30	25	54 D 0181	150	150	28	.79
54 D 0169	1.5	1.5	32	7.9	54 D 0182	220	220	26	.79
54 D 0170	2.2	2.2	35	7.9	54 D 0183	330	330	26	.79
54 D 0171	3.3	3.3	45	7.9	54 D 0184	470	470	27	.79
54 D 0172	4.7	4.7	45	7.9	54 D 0185	680	680	28	.79
54 D 0173	6.8	6.8	52	7.9	54 D 0186	1000	1000	28	.79
54 D 0174	10	10	60	7.9	....	....	....	....	....

TYPE "VIV" MINIATURE VARIABLE INDUCTORS

Epoxy encapsulated variable inductors conforming to MIL-C-15305A, Grade 1, Class B. Feature high reliability, light weight and stable inductance over extreme temperature variations. Types to give every value of inductance from 0.33 µh to 5640 µh with high Q characteristics. Tunable range: values: 0.33 µh —4700, ±20%; values 0.15 µh—0.22 µh, ±15%; 0.1 µh, ±10%. Size, ½″x.400″ dia. Vertical mounting—AWG #22 start and finish lugs .300″ apart.



µh	EACH 1-24	25-49	50-99	100-249
Values 0.1-15	3.25	2.60	2.26	2.06
Values 22-4700	3.48	2.78	2.42	2.20

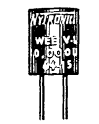
Stock No.	Type VIV-	µh	Q	@ Mc	Stock No.	Type VIV-	µh	Q	@ Mc
54 D 0187	0.10	0.10	85	25	54 D 0202	33.0	33.0	54	2.5
54 D 0188	0.15	0.15	100	25	54 D 0203	47.0	47.0	51	2.5
54 D 0189	0.22	0.22	100	25	54 D 0204	68.0	58.0	55	2.5
54 D 0190	0.33	0.33	100	25	54 D 0205	100	100.0	50	2.5
54 D 0191	0.47	0.47	100	25	54 D 0206	150	150	50	.79
54 D 0192	0.68	0.68	100	25	54 D 0207	220	220	50	.79
54 D 0193	1.00	1.00	90	25	54 D 0208	330	330	48	.79
54 D 0194	1.50	1.50	70	7.9	54 D 0209	470	470	45	.79
54 D 0195	2.20	2.20	73	7.9	54 D 0210	680	680	42	.79
54 D 0196	3.30	3.30	80	7.9	54 D 0211	1000	1000	40	.79
54 D 0197	4.70	4.70	75	7.9	54 D 0212	1500	1500	40	.25
54 D 0198	6.80	6.80	80	7.9	54 D 0213	2200	2200	44	.25
54 D 0199	10.0	10.0	82	7.9	54 D 0214	3300	3300	46	.25
54 D 0200	15.0	15.0	65	2.5	54 D 0215	4700	4700	48	.25
54 D 0201	22.0	22.0	55	2.5	....	....	....	....	....

Variable Inductors and Multi-Purpose RF Chokes

NYTRONICS "WEE V-L" VARIABLE INDUCTORS

- Inductance Range Adjustable ±10% of Rated Value
- Moisture, Vibration and Shock Resistant for Long-Life Reliability

Subminiature (0.4x0.3″), ±10% adjustable hi-Q epoxy-molded inductors. Meet MIL-C-15305C Style LT-K, Grade 1, Class B specs. 0.2″ grid spacing. −55° to +125° C temp. For up to 70,000 ft. 300 WVDC. Shielded for minimum couplings. *Type No. and inductance in µh.

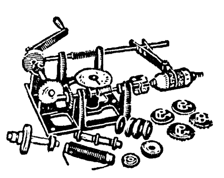


Actual Size

Values in µh	EACH 1-24	25-49	50-99	100-249	250-499
1.5 to 10,000	4.72	3.77	3.28	2.98	2.76

Stock No.	*WEE V-L-	Kc	Nom. Q	Stock No.	*WEE V-L-	Kc	Nom. Q
54 D 0240	10,000	250	70	54 D 0228	100	2500	95
54 D 0239	6800	250	75	54 D 0227	68	2500	105
54 D 0238	4700	250	85	54 D 0226	47	2500	101
54 D 0237	3300	250	90	54 D 0225	33	2500	100
54 D 0236	2200	250	100	54 D 0224	22	2500	125
54 D 0235	1500	250	90	54 D 0223	15	2500	120
54 D 0234	1000	790	100	54 D 0222	10	7900	90
54 D 0233	680	790	100	54 D 0221	6.8	7900	85
54 D 0232	470	790	100	54 D 0220	1.7	7900	95
54 D 0231	330	790	100	54 D 0219	3.3	7900	90
54 D 0230	220	790	95	54 D 0218	2.2	7900	110
54 D 0229	150	790	90	54 D 0217	1.5	7900	100

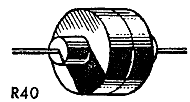
MORRIS "COILMASTER" COIL WINDER



Make professional-looking self-supporting, universal, and honeycomb coils; solenoids; single-layer coils; etc. Just set winder for type wanted and turn handle. Indicator counts turns. 3 cams, 4 gears—easily adjusts for pi spacing and different coil forms. For No. 22 to No. 40 wire. Base size, 5x5″. Wire and coil forms not included. 3 lbs.
54 D 1053..................6.95

NATIONAL FERRITE BEAD AND FERRITE CORE CHOKES

R45



R40

R-45 Series. Ferrite bead chokes designed for use as filament chokes, parasitic suppressors, and series elements of low-pass filters for 5 to 200 mc. Handle 2 amps of filament current with a voltage drop of less than 0.02 volts. Performance is unaffected by extremes of humidity and temperatures as high as 125° C. Insulated by means of an epoxy-filled, epoxy shell.

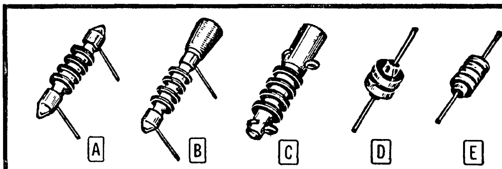
SERIES R-45 FERRITE BEAD

Stock No.	Mfr's Type	AC Res. @ 10 Mc.	Imped. @ 10 Mc.	EACH 1-49	50-99	100-199	200-499
54 D 1814	R-45-1	25 ohms	16 ohms	.92	.874	.828	.736
54 D 1815	R-45-2	50 ohms	32 ohms	.86	.817	.774	.688
54 D 1817	R-45-4	100 ohms	60 ohms	.89	.846	.801	.712
54 D 1819	R-45-12	320 ohms	230 ohms	1.95	1.85	1.76	.156
54 D 1821	R-45-154	610 ohms	100 ohms	1.38	1.31	1.24	.110
54 D 1823	R-45-254	1400 ohms	230 ohms	1.10	1.05	.99	.88

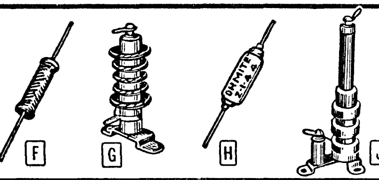
R-40 Series. Ferrite core chokes combining high Q with small size. For use in networks and filters at frequencies from 50 kc to 1500 kc. Coated with fungus-proof varnish per MIL-V-173A specs. Temperature coefficient is less than 550 ppm per degree centigrade for coils with inductance value of less than 1 mh, and less than 250 ppm per degree C for coils with value of 1 mh or larger. *Indicates figure is in millihenries. †Indicates self-resonant frequency ± 10%. Av. shpg. wt., 2 oz.

SERIES R-40 FERRITE CORE

Stock No.	Mfr's Type	µh	Ma	†Mc	EACH 1-99	100-199	200-299	300-399
54 D 1824	R-40 -150	150	250	7.9	.50	.48	.45	.43
54 D 1825	R-40-220	220	250	7.0	.50	.48	.45	.43
54 D 1830	R-40-1	1.0*	175	3.3	.53	.50	.48	.45
54 D 1832	R-40-2.2	2.2*	150	1.9	.53	.50	.48	.45
54 D 1833	R-40-3.3	3.3*	125	1.6	.53	.50	.48	.45
54 D 1837	R-40-10	10.0*	80	0.85	.56	.53	.50	.48



POPULAR RF CHOKES FOR EVERY PURPOSE



Versatile RF chokes designed for highly reliable performance in original equipment, or for replacement use. Cover a wide range of inductance values from 0.2 microhenries to 10 millihenries. Current ratings up to 1.5 amperes available. (Based on 20° C temp. rise.) Precision wound on rugged forms with moisture-proof varnish finish. Under Mfr's Type, suffix "U" after number indicates standoff insulator is removable; suffix "S" after number indicates fixed standoff with silverplated spring clips; §symbol after number indicates choke has standoff insulator for vertical mounting. ‡Millihenries. **Microhenries. Av. shpg. wt., 2 oz.

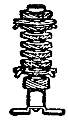
NATIONAL CHOKES

Stock No.	Mfr's Type	Fig.	Mh‡	Ma	Ohms	EACH 1-49	50-99	100-199	200-499
54 D 1115	R-33	D	11**	350	1.8	.36	.34	.32	.31
54 D 1116	R-33	D	50**	225	3.5	.36	.34	.32	.31
54 D 1117	R-33	D	100**	200	5	.36	.34	.32	.31
54 D 1118	R-33	D	750**	125	16	.36	.34	.32	.31
54 D 1119	R-50	D	0.5	150	15	.42	.40	.38	.36
54 D 1160	R-50	E	1	135	23	.42	.40	.38	.36
54 D 1161	R-50	E	2.5	125	38	.42	.40	.38	.36
54 D 1162	R-50	E	10	115	36	.72	.68	.65	.61
54 D 1168	R-60	F	2**	700	0.06	.29	.28	.26	.25
54 D 1169	R-60	F	4**	700	0.15	.29	.28	.26	.25
54 D 1301	R-100	A	2.5	115	44	.57	.54	.51	.48
54 D 1367	R-100	A	10	60	130	1.12	1.06	1.01	.95
54 D 1495	R-100S§	C	2.5	115	44	.99	.94	.89	.84
54 D 1497	R-100S§	C	10	60	130	1.49	1.42	1.34	1.27
54 D 1368	R-100U§	B	2.5	115	44	.74	.70	.67	.63
54 D 1399	R-100U§	B	10	60	130	1.26	1.20	1.13	1.07
54 D 1501	R-152	J	4	600	10	2.45	2.33	2.21	2.08
54 D 1503	R-154U	G	1	600	6	2.01	1.91	1.81	1.71
54 D 1504	R-175A	J	145**	800	5	4.46	4.24	4.01	3.79
54 D 1505	R-300	A	0.5	400	7	.57	.54	.51	.48
54 D 1506	R-300	A	1	400	11	.57	.54	.51	.48
54 D 1507	R-300	A	2.5	375	17	.74	.70	.67	.63
54 D 1508	R-300	A	5	325	24	.90	.86	.81	.71
54 D 1514	R-300S§	C	1	400	11	1.00	.95	.90	.85
54 D 1515	R-300S§	C	2.5	375	17	1.12	1.06	1.01	.95
54 D 1511	R-300U§	B	2.5	375	17	.92	.87	.83	.78

OHMITE CHOKES

Stock No.	Mfr's Type	Fig.	**µh	Ma	Mc	EACH 1-9	10-24	25-99
54 D 1548	Z-460	H	0.2	1000	320-520	.43	.37	.30
54 D 1549	Z-235	H	0.84	1000	160-350	.43	.37	.30
54 D 1550	Z-144	H	1.8	1000	80-200	.43	.37	.30
54 D 1551	Z-50	H	7.0	1000	35-110	.46	.39	.32
54 D 1552	Z-28	.....	21	600	20-60	.57	.48	.40
54 D 1553	Z-14	.....	44	600	7-35	.68	.58	.48
54 D 1554	Z-7	.....	84	1000	3-20	1.37	1.16	.96

J.W. MILLER RF POWER TRANSFORMERS



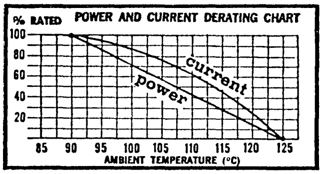
For use with RF oscillator and 1B3 rectifier. Also can be used as high voltage power supplies. Complete schematic is included with each unit.

Type 4525. RF power supply transformer for all types of TV receivers, oscilloscopes, etc. Provides up to 5000 volts DC power. Size: 3¾x4¼″.
54 D 1101................................6.00

Type 4526. Provides up to 10,000 volts DC power (up to 30,000 volts in rectifier-tripler circuit). 6x2¼″ diameter.
54 D 1102................................9.00

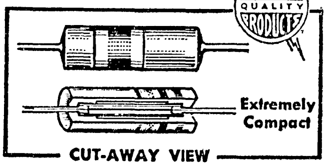
Allied is your direct factory source for electronic components at OEM prices. Our large stocks assure prompt shipment.

J. W. Miller Chokes and Inductors



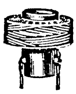
MOLDED RF CHOKES

All meet MIL-C-15305 specs except 9360. 9310 (MS-18130), .155x.375″; 9320 (MS-75008), .185x.437″; 9330 (MS-16222), .215x.560″; 9340 (MS-91189), .280x.010″; 9350 (MS-75055), .010x.010″; 9360 (MS-91189, LT8 K), .300x.968″. Ratings (90° C): 9310, 9320, ¼ w.; 9340, 9350, ⅜ w.; 9360, 1 w. AWG #22 (9340, 9350, #21), 1 7/16″ leads, (9360, 1 13/32″.) *phenolic core, †iron core.



Stock No.	Mfr's Type	μ hy	Tol. ±%	Q	Mc	Min. Fo (Mc)	DC Ohm Max.	Ma Max.	EACH 1-24	25-49	50-99	100-249
54 D 2802	9310-00*	.15	20	50	25	525	.03	2450	.60	.55	.51	.43
54 D 2803	9310-02*	.22	20	50	25	450	.05	1900	.60	.55	.51	.43
54 D 2804	9310-04*	.33	20	45	25	370	.09	1400	.60	.55	.51	.43
54 D 2807	9310-06*	.47	20	45	25	310	.12	1225	.60	.55	.51	.43
54 D 2808	9310-08*	.68	10	50	25	310	.14	1100	.60	.55	.51	.43
54 D 2809	9310-10*	.82	10	50	25	220	.22	900	.60	.55	.51	.43
54 D 2811	9310-12*	1.00	10	50	25	200	.26	830	.60	.55	.51	.43
54 D 2812	9310-14*	1.20	10	33	7.9	180	.42	650	.60	.55	.51	.43
54 D 2814	9310-16*	1.50	10	33	7.9	150	.50	600	.60	.55	.51	.43
54 D 2815	9310-18*	1.80	10	33	7.9	135	.65	525	.60	.55	.51	.43
54 D 2819	9310-20*	2.20	10	33	7.9	120	.95	425	.60	.55	.51	.43
54 D 2823	9310-22*	2.70	10	33	7.9	110	1.20	385	.60	.55	.51	.43
54 D 2832	9310-24*	3.30	10	33	7.9	100	2.00	300	.60	.55	.51	.43
54 D 2833	9310-26*	3.90	10	33	7.9	100	2.30	280	.60	.55	.51	.43
54 D 2834	9310-28*	4.70	10	33	7.9	90	2.60	260	.60	.55	.51	.43
54 D 2836	9310-30†	5.60	10	45	7.9	60	.32	750	.66	.59	.55	.47
54 D 2838	9310-32†	6.80	10	50	7.9	55	.50	600	.66	.59	.55	.47
54 D 2839	9310-34†	8.20	10	50	7.9	50	.60	545	.66	.59	.55	.47
54 D 2842	9310-36†	10.0	10	55	7.9	45	.90	445	.66	.59	.55	.47
54 D 2852	9310-40†	15.0	10	65	2.5	40	1.30	370	.66	.59	.55	.47
54 D 2853	9310-42†	18.0	10	75	2.5	34	2.25	280	.66	.59	.55	.47
54 D 2854	9310-44†	22.0	10	75	2.5	30	2.50	265	.66	.59	.55	.47
54 D 2856	9310-46†	24.0	5	60	2.5	26	2.50	265	.75	.69	.64	.53
54 D 2859	9310-52†	33.0	5	65	2.5	19	2.90	250	.75	.69	.64	.53
54 D 2865	9320-04*	.33	20	55	25	390	.05	2600	.60	.55	.51	.43
54 D 2879	9320-10*	1.00	10	55	25	190	.25	930	.60	.55	.51	.43
54 D 2883	9320-18†	3.30	10	35	7.9	68	.12	1350	.60	.55	.51	.43
54 D 2885	9320-22†	4.70	10	35	7.9	58	.21	1100	.60	.55	.51	.43
54 D 2888	9320-28†	8.20	10	35	7.9	43	.40	750	.60	.55	.51	.43
54 D 2889	9320-30†	10.0	10	35	7.9	40	.60	640	.60	.55	.51	.43
54 D 2892	9320-36†	22.0	10	60	2.5	24	2.00	335	.66	.55	.51	.43
54 D 2893	9320-38†	27.0	10	65	2.5	22	2.75	300	.66	.55	.51	.43
54 D 2925	9330-04*	1.00	10	65	2.5	200	.14	1290	.66	.55	.51	.43
54 D 2935	9330-24†	10.0	10	35	7.9	42	.26	950	.75	.68	.63	.53
54 D 2937	9330-28†	15.0	10	45	2.5	32	.52	670	.75	.68	.63	.53
54 D 2938	9330-30†	18.0	10	50	2.5	28	7.0	580	.75	.68	.63	.53
54 D 2942	9330-38†	39.0	10	70	2.5	18	2.00	340	.75	.68	.63	.53
54 D 0375	9340-00*	1.2	10	60	7.9	170	.075	2400	.78	.70	.65	.55
54 D 0376	9340-03*	1.8	10	60	7.9	140	.135	1750	.78	.70	.65	.55
54 D 0377	9340-04*	2.2	10	60	7.9	125	.160	1600	.78	.70	.65	.55
54 D 0378	9340-06*	2.7	10	60	7.9	115	.220	1300	.78	.70	.65	.55
54 D 0379	9340-08*	3.3	10	60	7.9	100	.305	1150	.78	.70	.65	.55
54 D 0380	9340-10*	3.9	10	60	7.9	95	.45	955	.78	.70	.65	.55
54 D 0381	9340-12*	4.7	10	60	7.9	90	.560	860	.78	.70	.65	.55
54 D 0382	9340-20*	10.0	10	60	7.9	60	1.9	460	.78	.70	.65	.55
54 D 0383	9340-28†	22.0	10	50	2.5	25	.295	1150	.84	.76	.70	.69
54 D 0384	9340-30†	27.0	10	45	2.5	22	.350	1050	.84	.76	.70	.69
54 D 0385	9340-34†	39.0	10	55	2.5	18	.65	810	.84	.76	.70	.69
54 D 0386	9430-39†	68.0	10	75	2.5	13	1.85	470	.84	.76	.70	.69
54 D 0387	9430-40†	82.0	10	75	2.5	13	2.10	440	.84	.76	.70	.69
53 D 0388	9350-00*	47	10	18	2.5	13.5	5.9	195	1.02	.92	.85	.72
54 D 0389	9350-04†	68	10	70	2.5	13	3.3	255	1.08	.97	.90	.76
54 D 0390	9350-06†	82	10	65	2.5	11.7	3.5	245	1.08	.97	.90	.76
54 D 0391	9350-10†	120	10	75	.790	9.3	4.7	215	1.08	.97	.90	.76
54 D 0392	9350-12†	150	10	75	.790	8.3	5.3	200	1.08	.97	.90	.76
54 D 0393	9350-16†	220	10	80	.790	5.5	5.9	220	1.08	.97	.90	.76
54 D 0394	9350-20†	330	10	75	.790	4.2	7.8	185	1.08	.97	.90	.76
54 D 0395	9350-26†	560	10	80	.790	3.5	10.0	180	1.11	.99	.93	.79
54 D 0396	9350-37†	2200	10	85	.250	1.8	27.0	115	1.14	1.03	.95	.81
54 D 0069	9360-01†	1.1	20	60	10	200	.09	2800	1.26	1.14	1.05	.89
54 D 0070	9360-02†	2.2	20	65	10	165	.20	1800	1.26	1.14	1.05	.89
54 D 0074	9360-03†	3.3	10	50	6.0	130	.32	1500	1.26	1.14	1.05	.89
54 D 0075	9360-04†	4.7	10	45	5.0	100	.60	1100	1.26	1.14	1.05	.89
54 D 0076	9360-05†	6.8	10	40	4.0	90	1.10	800	1.26	1.14	1.05	.89
54 D 0077	9360-06†	10.0	10	40	3.5	70	1.80	600	1.26	1.14	1.05	.89
54 D 0079	9360-07*	15.0	10	40	3.0	55	3.0	500	1.26	1.14	1.05	.89
54 D 0080	9360-08†	22.0	10	30	2.5	27	.30	1500	1.35	1.22	1.13	.95
54 D 0082	9360-09†	33.0	10	45	2.0	21	.60	1100	1.35	1.22	1.13	.95
54 D 0095	9360-10†	47.0	10	70	1.5	16	1.20	700	1.35	1.22	1.13	.95
54 D 0096	9360-11†	82.0	10	85	1.2	14	2.20	600	1.35	1.22	1.13	.95
54 D 0097	9360-12†	100.0	10	85	1.0	14	2.80	500	1.35	1.22	1.13	.95
54 D 0098	9360-13†	120.0	10	85	1.0	13	4.0	400	1.35	1.22	1.13	.95

PRINTED CIRCUIT RF CHOKES



Available in a wide range of inductances for transmitters, receivers, and test equipment. With printed-circuit type mounting lugs for quick, easy soldering. Coil forms are ⅞″ long.

Stock No.	Type	Mh	Ohms	Ma	Dia.	1-24	25-49	50-99	100-249
54 D 1061	970	1	17.2	125	11/16″	.75	.68	.63	.53
54 D 1063	972	1.5	21.8	125	¾″	.75	.68	.63	.53
54 D 1067	975	2.7	31.2	125	13/16″	.81	.73	.68	.57
54 D 1068	976	3.3	34.8	125	13/16″	.84	.75	.70	.59
54 D 1070	978	4.7	43.2	125	⅞″	.84	.75	.70	.59
54 D 1074	982	10	68	100	⅞″	.87	.78	.72	.61
54 D 1076	984	15	87.7	100	15/16″	.89	.80	.74	.63
54 D 1078	986	22	108	75	31/32″	.93	.84	.77	.66
54 D 1079	987	27	121	75	1 1/16″	.98	.88	.81	.69
54 D 1086	994	100	394	50	1 1/16″	1.32	1.19	1.10	.93

SUBMINIATURE IRON CORE RF CHOKES

Type 70F. Iron core RF chokes designed for high-reliability in ultra-miniature components. Ideal for network and filter design, delay lines and computer applications. Rated 50 ma. maximum DC current. Impregnated with a moisture-resistant lacquer. All are ¼″ in length except * which are ⅜″. †Indicates millihenries.

Stock No.	Mfr's Type	μh	Q	Freq.	EACH 1-24	25-49	50-99	100-249
54 D 1878	70F104AI	100	50	790 Kc	.69	.62	.58	.49
54 D 1879	70F154AI	150	55	790 Kc	.69	.62	.58	.49
54 D 1880	70F224AI	220	57	790 Kc	.69	.62	.58	.49
54 D 1881	70F334AI	330	59	790 Kc	.69	.62	.58	.49
54 D 1882	70F474AI	470	59	790 Kc	.75	.68	.63	.50
54 D 1883	70F684AI	680	55	790 Kc	.75	.68	.63	.50
54 D 1885	70F103AI	1.00 mh†	50	790 Kc	.75	.68	.63	.50
54 D 1886	70F153AI	1.50 mh†	50	250 Kc	.75	.68	.63	.50
54 D 1887	70F223AI	2.20 mh†	50	250 Kc	.81	.73	.67	.54
54 D 1888	70F333AI*	3.30 mh†	70	250 Kc	.84	.75	.70	.56
54 D 1889	70F473AI*	4.70 mh†	68	250 Kc	.84	.75	.70	.56
54 D 1890	70F683AI*	6.80 mh†	64	250 Kc	.84	.75	.70	.56
54 D 1891	70F823AI*	8.20 mh†	60	250 Kc	.99	.89	.82	.67
54 D 1892	70F102AI*	10.0 mh†	60	250 Kc	.99	.89	.82	.67

MOISTURE-RESISTANT RF CHOKES

Low distributed capacity. Moisture and fungus-resistant. Max. ma, 300, except 4612, 200. Phenolic, .188″ dia. x .75″ long; iron, .219″x.875″. *Maximum.

Stock No.	Mfr's Type	μ hy	Q Min.	Min. Fo(Mc)	DC* Ohms	EACH 1-24	25-49	50-99	100-249
PHENOLIC FORM—SINGLE LAYER WINDING									
54 D 3828	4602	1.00	46	186	.060	.51	.46	.43	.36
54 D 3829	4604	1.50	49	156	.096	.51	.46	.43	.36
54 D 3830	4606	2.40	50	123	.192	.51	.46	.43	.36
54 D 3836	4612	10.0	53	61	1.80	.54	.49	.45	.38
IRON CORE FORM—SINGLE LAYER WINDING									
54 D 3838	4624	15.0	46	30	.144	.60	.55	.51	.43
54 D 3840	4628	39.0	74	20	.780	.63	.57	.53	.45
54 D 3841	4629	55.0	71	17	1.10	.66	.59	.55	.47
54 D 3844	4632	100.0	64	12	2.40	.66	.59	.55	.47
PHENOLIC FORM—3-SECTION WINDING									
54 D 3845	4642	100	51	8.8	4.92	.66	.59	.55	.47
54 D 3846	4644	150	54	7.8	6.84	.66	.59	.55	.47
54 D 3850	4646	240	52	6.0	8.16	.66	.59	.55	.47
54 D 3856	4652	1000	52	2.5	19.8	.72	.65	.60	.51

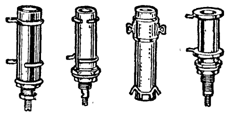
FERRITE CORE RF CHOKES

Meet industrial standards. High permeability of the ferrite core provides increased inductance—permits size of choke to be much smaller for a given inductance than one with a conventional core. Applications: transmitters, receivers, test equipment and other similar kinds of electronic equipment. Provide high inductance and low DC resistance. Size: ¼″ diameter; ⅞″ long. 1½″ axial leads.

Stock No.	Mfr's Type	Mh	Ohms	Ma	EACH 1-24	25-49	50-99	100-249
54 D 1893	6302	2.5	8.3	200	.93	.84	.77	.66
54 D 1894	6304	5	13.5	200	1.08	.97	.90	.76
54 D 1895	6306	10	28.	125	1.20	1.08	1.00	.84
54 D 1896	6308	25	70.	75	1.26	1.14	1.05	.89
54 D 1897	6310	50	110.	75	1.44	1.30	1.20	1.02

J. W. Miller Coils, Coil Forms and Chokes

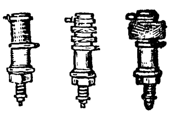
RF COIL FORMS



Top-grade forms for use in most standard and industrial electronic equipment. Types 20A000RBI, 20A157RBI, 21A000RBI, and 22A-000RBI are of a resinite material that is a phenolic impregnated tubing and can be certified to meet the specifications of MIL-P-79B, type PBG. Types 40A000CBI, 41A000CBI, 42A000CBI, 43A000CBI, 4300, 4400, and 4500 are made of a silicone-impregnated ceramic material that reduces moisture absorption and conforms to JAN-I-10, grade 1.5 specifications. Type 4200 is constructed of nylon. Include all hardware, core with range of 1-30 mc. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	1-24 EA.	25-49 EA.	50-99 EA.	100-249 EA.
54 D 3908	20A000RBI	.90	.81	.75	.64
54 D 0367	20A157RBI	1.02	.91	.85	.72
54 D 3909	21A000RBI	.90	.81	.75	.64
54 D 3910	22A000RBI	1.38	1.25	1.15	.98
54 D 0250	40A000CBI	1.44	1.28	1.20	1.01
54 D 0251	41A000CBI	1.50	1.35	1.25	1.06
54 D 3913	42A000CBI	1.56	1.40	1.30	1.10
54 D 3914	43A000CBI	1.62	1.46	1.35	1.14
54 D 3915	4200	.69	.62	.58	.49
54 D 0995	4300	1.08	.97	.90	.76
54 D 0982	4400	1.32	1.18	1.10	.93
54 D 0870	4500	1.17	1.05	.97	.82

MINIATURE AND STANDARD RF COILS



A wide selection of variable coils designed for exacting requirements. All are wound on high-grade silicone-impregnated ceramic forms to reduce moisture absorption. Both Standard and Miniature Types are tuned by means of a powdered-iron core. Supplied complete with mounting hardware, see below.

STANDARD High "Q" units with large inductance range. Mounting bushing requires a 1/4" diameter hole. Size: 3/8" dia., 1 1/16" long. Includes hardware: nut, lock washer, spring clip. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Inductance Min. µh	Inductance Max. µh	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 0983	4403	.90	1.6	1.62	1.46	1.35	1.14
54 D 0984	4404	1.5	3.2	1.65	1.49	1.37	1.16
54 D 0985	4405	3.1	6.8	1.68	1.51	1.39	1.18
54 D 0986	4406	6.7	15.0	1.74	1.57	1.44	1.20
54 D 0987	4407	14.8	31.0	1.80	1.62	1.49	1.27
54 D 0988	4408	30.0	69.0	1.83	1.65	1.52	1.29
54 D 0989	4409	68.0	130	1.89	1.70	1.57	1.33
54 D 0990	4410	126	250	1.92	1.73	1.59	1.35
54 D 0991	4411	245	475	1.95	1.76	1.62	1.37
54 D 0992	4412	450	800	1.98	1.78	1.64	1.39
54 D 0993	4413	750	1400	2.01	1.81	1.67	1.42
54 D 0994	4414	1300	2100	2.01	1.81	1.67	1.42

MINIATURE. Same high-quality coils as above, but designed for limited-space applications. Units mount in a 3/16" diameter hole. Size: 1/4" dia., 7/8" long. Includes all required mounting hardware: nut, lock washer and spring clip. Av. shpg. wt., 2 oz.

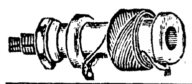
Stock No.	Mfr's Type	Inductance Min. µh	Inductance Max. µh	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 3930	4501	.40	.80	1.50	1.35	1.25	1.06
54 D 0871	4502	1.0	1.6	1.50	1.35	1.25	1.06
54 D 0872	4503	1.6	2.8	1.56	1.40	1.30	1.10
54 D 0873	4504	2.8	5.0	1.59	1.43	1.32	1.12
54 D 0874	4505	5.0	9.0	1.65	1.49	1.37	1.16
54 D 0875	4506	9.0	16.0	1.71	1.51	1.42	1.20
54 D 0876	4507	16.0	24.0	1.77	1.59	1.47	1.25
54 D 0877	4508	24.0	35.0	1.80	1.62	1.49	1.27
54 D 0878	4509	35.0	60.0	1.83	1.65	1.52	1.29
54 D 0879	4511	60.0	120	1.86	1.67	1.54	1.31
54 D 0880	4512	110	200	1.89	1.70	1.57	1.33
54 D 0881	4513	190	330	1.92	1.73	1.59	1.35
54 D 0882	4514	320	500	1.95	1.76	1.62	1.37

ALUMINUM COIL SHIELDS

Made of finest quality drawn aluminum, with tarnish-proof satin finish. Have two #6-32 threaded bolts riveted to shield. *Has 1/4" dia. hole in top. Av. shpg. wt., 2 oz.

Stock No.	Type No.	Dimensions	Mtg. Center	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 2566	S-21	2 1/16" dia. x 3 1/2"	2"	.57	.52	.48	.40
54 D 2570	S-32	1 1/8" square x 2 1/8"	1 1/16"	.57	.52	.48	.40
54 D 2571	*S-33	1 1/8" square x 2 1/8"	1 1/16"	.57	.52	.48	.40
54 D 0011	S-34	1" square x 1 1/4"	....	.57	.52	.48	.40
54 D 0012	S-42	2" dia. x 3"	....	.54	.49	.45	.38
54 D 0013	S-42C	Cover for S-42	....	.45	.40	.38	.32
54 D 2587	S-51	1 3/8" square x 3 1/4"	1 5/16"	.57	.52	.48	.40
54 D 2590	S-74	1 1/4" dia. x 2"	1 5/16"	.57	.52	.48	.40
54 D 2591	L-110	2" square x 4 1/4"	1 15/16"	.81	.72	.67	.56
54 D 2595	S-727	2 1/16" dia. x 2 1/2"	2"	.57	.52	.48	.40

SUBMINIATURE ADJUSTABLE RF COILS



Ceramic terminal rings and coil molded as one unit to avoid adverse effects on Q and tuning, and prevent broken leads. 11/64" axial leads. 7/32" dia., 19/32" long. Av., 2 oz.

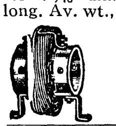
Stock No.	Mfr's Type	Inductance Min. µh	Inductance Max. µh	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 0252	40A107CBI	.091	.125	1.98	1.77	1.65	1.40
54 D 0253	40A157CBI	.124	.188	1.98	1.77	1.65	1.40
54 D 0254	40A227CBI	.184	.275	1.98	1.77	1.65	1.40
54 D 0255	40A337CBI	.265	.413	1.98	1.77	1.65	1.40
54 D 0256	40A477CBI	.327	.587	2.01	1.80	1.67	1.43
54 D 0257	40A687CBI	.482	.850	2.01	1.80	1.67	1.43
54 D 0258	40A827CBI	.630	1.02	2.10	1.89	1.75	1.48
54 D 0259	40A106CBI	.730	1.25	2.10	1.89	1.75	1.48
54 D 0260	40A156CBI	1.06	1.88	2.10	1.89	1.75	1.48
54 D 0261	40A226CBI	1.50	2.75	2.13	1.91	1.77	1.50
54 D 0262	40A336CBI	2.15	4.13	2.13	1.91	1.77	1.50
54 D 0263	40A476CBI	3.00	5.87	2.22	1.99	1.85	1.58
54 D 0264	40A686CBI	4.40	8.50	2.22	1.99	1.85	1.58
54 D 0265	40A826CBI	5.25	10.20	2.22	1.99	1.85	1.58
54 D 0267	40A155CBI	11.90	18.80	2.28	2.04	1.90	1.61
54 D 0268	40A225CBI	17.10	27.50	2.34	2.10	1.95	1.65
54 D 0269	40A335CBI	26.60	41.30	2.34	2.10	1.95	1.65

HEAVY-DUTY HARSH FILTER CHOKES

Relatively high inductance, high current chokes. Molded, powdered iron form. 9/16" dia., 1 1/4" long. Av. wt., 2 oz.

Stock No.	Mfr's Type	µh ±20%	DC Ohms	EACH
54 D 0368	5218	3.35	.010	1.35
54 D 0369	5219	4.9	.016	1.35
54 D 0370	5220	8.8	.021	1.35
54 D 0371	5230	4.0	.012	.99
54 D 0372	5240	40.0	.082	1.05
54 D 0373	5248	68.0	.054	1.17
54 D 0374	5250	100.0	.216	1.17

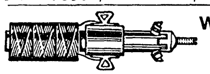
DUO-LATERAL LINE FILTER CHOKES



Ideal for AC lines to filter RF or noise pulses from transmitters, power supplies, intermittent-type switching systems—many more. Type 7825 on bakelite form; 1 7/8x1 3/4". 7827, ceramic form; 2 1/2x4". 4 oz.

Stock No.	Type No.	Millihenries	Amps	DC Ohms	EACH
54 D 1054	7825	.600	2	.7	2.16
54 D 1055	7827	.370	10	.15	5.40

WIDE-RANGE ADJUSTABLE INDUCTORS



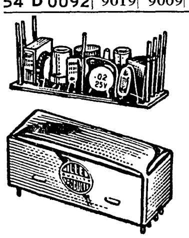
Excellent for prototypes when exact inductance value is unknown. Max. diameter 3/4"; length, 2 1/4". 1000-cycle test current used to measure values. *Indicates µh. 3 oz.

UNTAPPED INDUCTORS

Stock No.	Mfr's Type	Min. Mh	Q Min.	Max. Mh	Q Min.	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 3900	9001	35*	88	.300	244	1.35	1.19	1.12	.92
54 D 3901	9002	.150	77	1.00	175	1.50	1.35	1.28	1.06
54 D 3902	9003	.500	88	3.50	157	1.80	1.62	1.53	1.27
54 D 3903	9004	1.75	92	10.0	110	2.10	1.89	1.79	1.48
54 D 3904	9005	5.00	83	20.0	120	2.37	2.13	2.01	1.67
54 D 3905	9006	10.0	72	50.0	90	2.76	2.48	2.35	1.95
54 D 3906	9007	25.0	45	130	76	2.85	2.57	2.42	2.01
54 D 3907	9008	65.0	45	300	70	2.88	2.59	2.45	2.04
54 D 0091	9009	150	20	750	40	2.97	2.69	2.50	2.10

TAPPED OSCILLATING INDUCTORS (Basic Type Refers to Table Above)

Stock No.	Mfr's Type	Basic Type	Total Turns	Turns to Tap	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-249
54 D 0036	9011	9001	102	34	1.62	1.46	1.38	1.14
54 D 0037	9012	9002	204	68	1.80	1.62	1.53	1.27
54 D 0040	9013	9003	376	128	2.10	1.89	1.79	1.48
54 D 0042	9014	9004	608	203	2.40	2.16	2.04	1.69
54 D 0043	9015	9005	1000	333	2.67	2.40	2.27	1.88
54 D 0045	9016	9006	1480	493	2.79	2.52	2.32	1.97
54 D 0048	9017	9007	2480	827	2.82	2.54	2.40	2.01
54 D 0060	9018	9008	3860	1286	3.18	2.86	2.70	2.25
54 D 0092	9019	9009	6100	2030	3.27	2.96	2.75	2.30



TYPE 8903 PRE-PACKAGED PRE-TUNED 455-KC IF STRIP

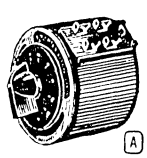
Precision assembled unit with one Type 8901 IF transformer and one type 8902 IF strip. Precisely tuned 455-kc strip offers excellent gain (55 db) and selectivity (6 db down at 8 kc). Factory-aligned, no further adjustment required. 21 components on PC board, including mechanical filter, 2-transistor amplifier and diode detector that can drive earphones. 1/2x1/2x1 1/2". Shpg. wt., 3 oz.
54 D 0099 .... 5.75

 Depend on Allied Electronics for Off-the-Shelf Delivery in Industrial Quantities

BENCH AND PANEL-MOUNTING AUTOTRANSFORMERS

knight

Single-layer winding on high-grade toroidal core. Sliding brush permits 0 to 132 volt output on over-voltage units; others 0 to line voltage, or as indicated in table. Overload units may be wired 0 to line output. Zero wave-form distortion. Moderate temperature rise. Low-resistance brush-track plating reduces oxidation and wear. Aluminum housed bench models have pilot light, fuse, line cord/plug and output receptacle. 50-60 cycle AC; 25 cycle operation at 50% of 50-cycle voltage.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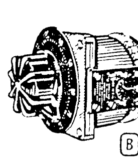
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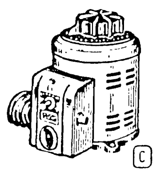
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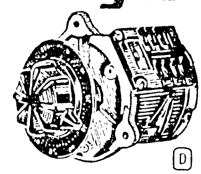
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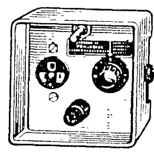
Stock No.	Fig.	Max. KVA	Input Volts	Output Volts	Output Amps.	Description	Size	Wt. Lbs.	EACH 1-9	10-24	25-99	100-Up
54 D 4938	A	.23	120	0-132/0-120	1.75	Panel type; for panels to 1/4″ thick.	2 3/32x2 13/32″	2	8.50	7.20	6.90	6.50
54 D 4939	B	.53	120	0-140/0-120	3.75	Panel type; for panels to 1/2″ thick.	3 3/4x3 3/4x3 1/4″	5	13.40	11.25	11.03	10.20
54 D 4940	C	1.05	120	0-140	7.5	Enclosed; fused with switch and pilot light.	7 1/4x6 1/2″	9	24.20	20.80	20.41	18.50
54 D 4941	D	1.05	120	0-140/0-120	7.5	Panel type; for panels to 1/2″ thick.	5 11/16x5″	8	17.80	15.05	14.60	13.60

POWERDIAL SCR POWER CONTROLS

LUTRON

Solid-state circuit weighs 1/10 and occupies 1/2 space of variable autotransformers controls. Continuously adjustable output on AC or DC. No brush burnout or wear. SCR firing angles: 45° (low output), 90° (medium output), 170° (high output). PD series features selector switch for AC, DC or off, fuse, 3-wire cord and receptacle. PDU series is suitable for panel mounting; may be wired for AC or DC output. 2-wire connection. All units are for 60-cycle operation. All are bench models except * panel mount.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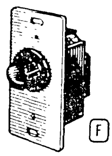
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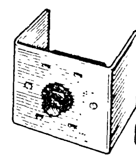
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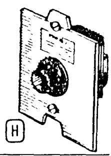
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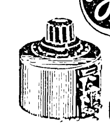
Stock No.	Mfr's Type	Fig.	RMS Amps AC	RMS Amps. DC	AC Volts Input	AC Volts Output	RMS Output Volts-DC	Size	Wt. Lbs.	EACH 1-9	10-24	25-99
54 D 4850	PD-50	E	0-5	0-5	120	0-120	0-85	4 1/2x4 1/2x2 1/2″	2.0	24.00	21.60	19.15
54 D 4851	PD-75	E	0-7.5	0-7.5	120	0-120	0-85	4 1/2x4 1/2x2 1/2″	2.0	27.00	24.30	21.55
64 D 4852	PD-100	E	0-10	0-7.5	120	0-120	0-85	4 1/2x6x2 1/2″	2.3	30.00	27.00	23.94
54 D 4853	PD-150	E	0-15	0-10	120	0-120	0-85	6x6x2 1/2″	2.6	60.00	54.00	47.88
54 D 4854	2PD-50	E	0-5	0-5	240	0-240	0-170	4 1/2x4 1/2x2 1/2″	2.0	33.00	29.70	26.33
54 D 4855	2PD-75	E	0-7.5	0-7.5	240	0-240	0-170	4 1/2x4 1/2x2 1/2″	2.0	36.00	32.40	28.73
54 D 4856	2PD-100	E	0-10	0-7.5	240	0-240	0-170	4 1/2x6x2 1/2″	2.3	39.00	35.10	31.12
54 D 4857	2PD-150	E	0-15	0-10	240	0-240	0-170	6x6x2 1/2″	2.6	81.00	72.90	64.64
54 D 4858	*PDU-50	F	0-5	0-5	120	0-120	0-85	4x2x1 5/8″	.25	15.75	14.18	12.57
54 D 4859	*PDU-75	H	0-7.5	0-7.5	120	0-120	0-85	4x4x1 5/8″	.34	18.75	16.88	14.96
54 D 4860	*PDU-100	H	0-10	0-7.5	120	0-120	0-85	4x4x1 5/8″	.53	30.00	27.00	23.94
54 D 4861	*PDU-150	H	0-15	0-10	120	0-120	0-85	4 1/2x4 1/2x3 3/4″	1 0	60.00	54.00	47.88
54 D 4862	*2PDU-50	F	0-5	0-5	240	0-240	0-170	4x2x1 5/8″	.25	30.00	27.00	23.94
54 D 4863	*2PDU-75	H	0-7.5	0-7.5	240	0-240	0-170	4x4x1 5/8″	.34	33.00	29.70	26.33
54 D 4864	*2PDU-100	H	0-15	0-7.5	240	0-240	0-170	4x4x1 5/8″	.53	39.00	35.00	31.12
54 D 4865	*2PDU-150	G	0-15	0-10	240	0-240	0-170	4 1/2x4 1/2x3 3/4″	1.0	78.00	70.20	62.24

GENERAL ELECTRIC "VOLT-PAC" VARIABLE TRANSFORMERS

Series of manually-operated variable transformers. Feature: even-flow heat sink for greatly reduced heat buildup at critical brush contact point; exclusive "quick-transfer" current collector; "grain-oriented" solid carbon brush to eliminate carbon-to-metal brush fusing. Ratings for 60-cycle current input; when used on 50-cycle output voltages are limited to rated input except † can be used for 117% of rated input on 50 or 60 cycles. ‡60 cycles only. *Cased units; others are uncased. **Similar to Fig. K., cased units with enclosed terminal board for wire or conduit connecting. **All Types of General Electric Volt-Pacs, Stabilizers and DC Power Supplies are available from Allied. Contact your nearest Allied Facility for data.**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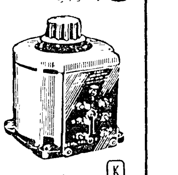
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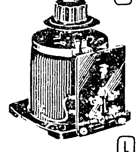
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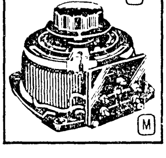
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SINGLE-PHASE, SINGLE CORE TYPES (2 1/2 AMPS)

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Max. Size (DWH)	Wt., Lbs.	EACH 1-9	10-24	25-99
54 D 3099	9T92Y1	J	120	0-132	2.5	3 3/8x2 7/8x3″	3	9.00	8.10	7.29

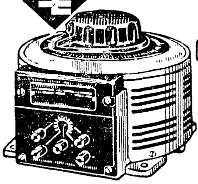
SINGLE-PHASE, SINGLE-CORE TYPES (4-30 AMPS)

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Max. Size (DWH)	Wt., Lbs.	EACH 1-9	10-24	25-99
54 D 3139	9T92Y5	L	120	0-140	4.0	4 7/16x3 7/8x4 5/16″	5	14.00	12.60	11.34
54 D 3140	‡9T92Y8	L	120	0-120	10.0	5 11/16x5x6 1/4″	10	18.00	16.20	14.58
54 D 3142	‡9T92Y10	L	120	0-120	11.5	5 11/16x5x6 1/4″	10	28.00	25.20	22.68
54 D 3143	‡9T92Y12	L	240	0-240	4.0	5 11/16x5x6 1/4″	10	20.00	18.00	16.20
54 D 3158	9T92Y7	L	120	0-140	7.5	5 11/16x5x6 1/4″	10	18.00	16.20	14.58
54 D 3161	*9T92Y7G2	K	120	0-140	7.5	5 11/16x5x6 1/4″	11	23.00	20.70	18.63
54 D 3667 X	**9T92Y7G3	.....	120	0-140	7.5	6 3/8x5x6 1/4″	12	24.00	21.60	19.44
54 D 3164	9T92Y9	L	120	0-140	9.0	5 11/16x5x6 1/4″	10	22.00	19.80	17.82
54 D 3168 X	9T92Y29	M	120/240	0-280	7.0	6 7/8x6 1/4x6 1/4″	17	40.00	36.00	32.40
54 D 3169 X	9T92Y30	M	120/240	0-280	8.5	6 7/8x6 1/4x6 1/4″	17	47.00	42.30	38.07
54 D 3668 K	*9T92Y30G2	K	120/240	0-280	8.5	6 7/8x6 1/4x6 1/4″	18	52.00	46.80	42.12
54 D 3669 K	**9T92Y30G3	.....	120/240	0-280	8.5	7 7/8x6 1/4x6 1/4″	18	55.00	49.50	44.55
54 D 3179 X	9T92Y27	M	120	0-140	15.0	6 7/8x6 1/4x6 1/4″	17	38.00	34.20	30.78
54 D 3180 X	*9T92Y27G2	K	120	0-140	15.0	6 7/8x6 1/4x6 1/4″	18	43.00	38.70	34.83
54 D 3183 K	9T92Y37	K	120	0-140	30.0	10 1/4x9 3/8x6 1/2″	33	89.00	80.10	72.09
54 D 3184 K	*9T92Y37G2	M	120	0-140	30.0	10 1/4x9 3/8x6 1/2″	35	94.00	84.60	76.14
54 D 3672 K	**9T92Y37G3	.....	120	0-140	30.0	11 5/8x9 3/8x6 1/2″	37	100.00	90.00	81.00

SINGLE-PHASE, SINGLE-CORE TYPES (30 AND 35 AMPS)

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Max. Size (DWH)	Wt., Lbs.	EACH 1-9	10-24	25-99
54 D 3230 Z	†9T92Y51	M	120/240	0-280	30.0	14 1/8x13 1/4x8 1/8″	65	130.00	117.00	105.30
54 D 3677 Z	**†9T92Y51G3	.....	120/240	0-280	30.0	15 5/8x13 1/4x8 1/8″	69	144.00	129.60	116.64
54 D 3679 Z	†9T92Y52	M	120/240	0-280	35.0	14 1/8x13 1/4x8 1/8″	65	185.00	166.50	149.85

Superior Electric Variable Transformers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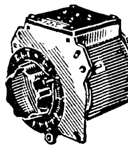
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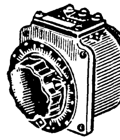
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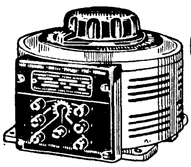
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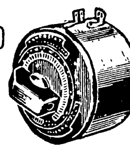
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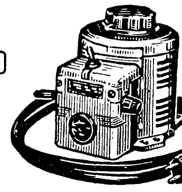
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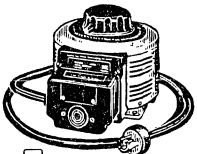
POWERSTAT® VARIABLE TRANSFORMERS WITH POWERKOTE™ COILS

Deliver continuously adjustable output voltage from AC line. Zero waveform distortion, good regulation, conservative ratings. For 50-60 cycles. (§60 cycles only.) Enclosed for plane-surface mtg. except 10B, 10B-40, 21, 22, and other types with suffix "U" are open types for panel mtg. Series 21, 22, 126, 136B, 226, 236B, 1156D and 1256D are for both panel and surface mtg. Prefix "Q" same as Fig. B, but 4-hole square mtg. plate. Suffix "T" indicates terminals enclosed in metal box. †When mounted on metal panel; for non-metallic panel, or bracket mtg., derate to 1.75 amps with corresponding reduction in max. KVA.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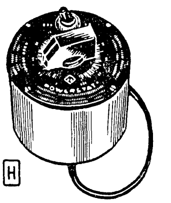
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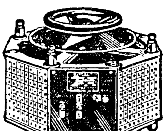
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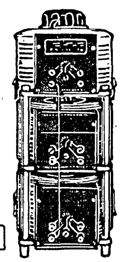
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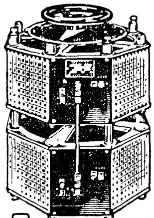
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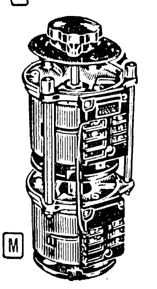

M

SINGLE-PHASE TYPES

Portable Types 2PF10, 116B, 216B have 2-wire parallel blade input cord-plug sets and output receptacles. *In table indicates unit is equipped with 3-wire plug and receptacle. Type LW136B is a double-wound assembly with an isolated secondary winding. Type 22 employs a unique new coil-winding technique designed to provide higher voltage ratings without increase in size or weight of transformer. ††Rating when mounted on metal panel. Derated to 0.5 amps when mounted for non-metallic panel or bracket.

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Output KVA	Max. Size (DWH)	Wt., Lbs.	EACH 1-5	EACH 6-24	EACH 25-99
54 D 2576 K	LW136B	A	120-240	0-30	25.0	0.75	9x7¾x6⅝″	23	77.00	69.30	65.45
54 D 2592	§117BT	B	120	0-120	12.0	1.4	7⅛x5⅛x6½″	12	25.00	22.50	21.25
54 D 1667	§117BU	B	120	0-120	12.0	1.4	5x5⅛x5¾″	11	20.00	18.00	17.00
54 D 4310	§Q117U	B	120	0-120	12.0	1.4	4⅞x4¼x5$\frac{11}{16}$″	11	18.00	16.20	15.30
54 D 1163	21	C	120	0-140	4.5	0.63	3⅜x3¾x4½″	6	14.00	12.60	11.90
54 D 2524	116BU	B	120	0-140	10.0	1.4	5x5⅛x5¾″	11	18.00	16.20	15.30
54 D 4311	Q116U	B	120	0-140	9.0	1.3	4⅞x4¼x5$\frac{11}{16}$″	11	18.00	16.20	15.30
54 D 1970	126	D	120	0-140	15.0	2.1	6¾x6¼x5⅜″	17	39.00	35.10	33.15
54 D 1669	126U	D	120	0-140	15.0	2.1	4¼x6x6¾″	16	34.00	30.60	28.90
54 D 2543 K	136B	A	120	0-140	22.0	3.1	8⅞x7¾x6⅛″	24½	55.00	49.50	46.75
54 D 2531 K	136BU	A	120	0-140	22.0	3.1	4$\frac{5}{16}$x7¾x8$\frac{11}{16}$″	24	50.00	45.00	42.50
54 D 2577 K	146	A	120	0-140	30.0	4.2	11x10x6⅜″	38	94.00	84.60	79.90
54 D 2573	216BU	B	240	0-280	3.5	0.98	5x5⅛x5¾″	11	22.00	19.80	18.70
54 D 4316	Q216U	B	240	0-280	3.5	0.98	4⅞x4¼x5$\frac{11}{16}$″	11	20.00	18.00	17.00
54 D 1671	§217BT	B	240	0-240	5.0	1.2	7⅛x5⅛x6½″	12	28.00	25.20	23.80
54 D 1673	§217BU	B	240	0-240	5.0	1.2	5x5⅛x5¾″	11	23.00	20.70	19.55
54 D 4315	§Q217U	B	240	0-240	5.0	1.2	4⅞x4¼x5$\frac{11}{16}$″	11	20.00	18.00	17.00
54 D 3024	22	C	240	0-280	2.25	0.63	4$\frac{9}{16}$x3¾x4$\frac{13}{16}$″	6	15.00	13.50	12.75
54 D 1675	226	D	240	0-280	7.5	2.1	6¾x6¼x5⅜″	17	39.00	35.10	33.15
54 D 1677	226U	D	240	0-280	7.5	2.1	4¼x6x6¾″	16	34.00	30.60	28.90
54 D 1678 K	236B	A	120-240	0-280	10.0	2.8	8⅞x7¾x6⅛″	23¾	55.00	49.50	46.75
54 D 2520 K	236BU	A	120-240	0-280	10.0	2.8	4$\frac{5}{16}$x7¾x8$\frac{11}{16}$″	23¼	50.00	45.00	42.50
54 D 2586 K	246	A	120-240	0-280	15.0	4.2	11x10x6⅜″	38	94.00	84.60	79.90

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Output KVA	Max. Size (DWH)	Wt., Lbs.	EACH 1-11	EACH 12-99
54 D 1663	§10B-40	E	40	0-40	7.0	0.28	2¼x2⅞x3⅛″	3.3	11.00	9.35
54 D 1666	*3PN117B	F	120	0-120	12.0	1.4	7¼x5⅛x6½″	12	35.00	29.75
54 D 2575	§2PF10	H	120	0-132	1.0	0.132	3½x3½x3½″	3.3	18.00	15.30
54 D 2536	§10B	E	120	0-132	†2.25	0.3	2⅛x2⅞x3⅛″	2.4	9.00	7.65
54 D 2525	116B	F	120	0-140	10.0	1.4	7⅛x5⅛x6½″	12	26.00	22.10
54 D 2578	3PN116B	F	120	0-140	10.0	1.4	7⅛x5⅛x6½″	12	30.00	25.50
54 D 1668	*3PN126	G	120	0-140	15.0	2.1	8⅜x6¼x5⅜″	18.5	48.00	40.80
54 D 1670 K	*3PN136B	G	120	0-140	22.0	3.1	10¼x7¾x6⅛″	26½	72.00	61.20
54 D 1682	12	E	240	0-240	††0.7	0.17	2⅛x2⅞x3⅛″	2.5	12.00	10.20
54 D 2527	216B	F	240	0-280	3.5	0.98	7⅛x5⅛x6½″	12	29.00	24.65
54 D 1672	§3PN217B	F	240	0-240	5.0	1.2	7⅛x5⅛x6½″	12	35.00	29.75
54 D 1676	*3PN226	G	240	0-280	7.5	2.1	8⅜x6¼x5⅜″	18.5	48.00	40.80
54 D 1679 K	*3PN236B	G	240	0-280	10.0	2.8	10¼x7¾x6⅛″	25¾	72.00	61.20

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Output KVA	Max. Size (DWH)	Wt., Lbs.	EACH 1	EACH 2-49
54 D 1680 Z	1156D	J	120	0-140	50.0	7.0	15⅝x13⅞x9⅜″	79	130.00	110.50
54 D 1681 Z	1256D	J	240	0-280	28.0	7.8	15⅛x13⅞x9⅜″	79	130.00	110.50
54 D 1805 Z	1256D-2P	L	240	0-280	56.0	15.7	15⅝x15⅝x16″	158	266.40	251.60
54 D 1806 Z	1256D-3P	....	240	0-280	84.0	23.5	15⅝x15⅝x22⅝″	274	414.00	391.00

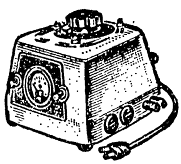
THREE-PHASE TYPES

Consist of single units ganged together. Types with suffix "-2" are open delta connected; Type Nos. which have suffixes "-3" and "-3Y" are wye connected. For 50-60 cycles. (§60 cycles only.) †See general description atop page. **Items with suffix "F" in Stock No. Shipped F.O.B. Bristol, Connecticut.**

54 D 1687 K	§117BU-2	M	120	0-120	12.0	2.5	11⅛x5⅛x5¾″	22	45.00	42.50
54 D 1688 K	116BT-2	....	120	0-140	10	2.4	7⅛x5⅛x12¾″	24	53.10	50.15
54 D 1689 K	116BU-2	M	120	0-140	10	2.4	11⅛x5⅛x5¾″	22	44.10	41.65
54 D 1996 Z	136B-2	....	120	0-140	22.0	5.3	9⅛x8¾x12½″	52	116.10	109.65
54 D 2588	§10B-3	....	240	0-240	†2.2	0.94	8⅛x3⅞x3⅞″	8½	39.60	37.40
54 D 1164	§21-3	....	240	0-280	4.5	2.18	10⅞x4⅝x5″	17	58.50	55.25
54 D 1690 K	§116BT-3	....	240	0-280	10	4.8	7⅛x5⅛x18⅜″	36	76.50	72.25
54 D 1800 Z	§126-3	K	240	0-280	15.0	7.27	7⅛x7¼x15⅛″	49	116.10	109.65
54 D 1801 Z	§136B-3	K	240	0-280	22.0	10.66	9⅛x8¾x17¾″	76	168.30	158.95
54 D 1802 ZF	§1156D-3Y	....	240	0-280	50.0	24.2	15½x13⅞x22⅝″	225	389.70	368.05
54 D 1999 Z	§236B-3	K	480	0-560	10.0	9.7	9⅛x8¾x17¾″	76	168.30	158.95
54 D 1807 Z	§1256D-3Y	....	480	0-560	28.0	27.2	15⅛x13⅞x22⅝″	225	389.70	368.05

Superior Electric Variable Transformers

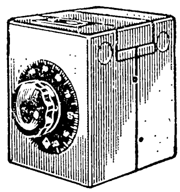
TYPE UC1MB VOLTBOX® VARIABLE TRANSFORMER



Output continuously variable 0 to 140 volts from 120 volt 50-60 cycle, single-phase AC source. Rated at 10 amps. Has: direct-reading voltmeter; line switch; line/load meter switch; two, 5-way binding posts; 3 output receptacles. Includes 6-ft. 2-wire cord and plug. Fused. Size, $7\frac{3}{16}$x$7\frac{7}{8}$x$8\frac{1}{2}$". Shpg. wt., $17\frac{3}{4}$ lbs.

54 D 2533 X 72.00

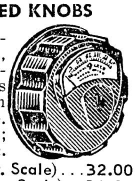
ENCLOSED POWERSTATS®



Single-phase variable transformers. Housed in lightweight, functional aluminum enclosures that permit easy installation, wiring and servicing. Can be mounted on wall or front of panel, on bench or floor, and back of panel. *50-60 cycles, †60 cycles. Amperage and KVA ratings shown in the table below are for constant current load. $6\frac{13}{16}$x$5\frac{3}{4}$x6". Shpg. wt., 15 lbs.

Stock No.	Mfr's Type	Input Volts	Output Volt	Output Amp	Output KVA	EACH 1-5	EACH 6-24	EACH 25-99
54 D 1808	EN116B	120*	0-140	8	1.1	25.00	22.50	21.25
54 D 1809	EN117B	120†	0-120	10.0	1.2	25.00	22.50	21.25
54 D 1810	EN216B	240*	0-280	3.0	0.84	30.00	27.00	25.50
54 D 1811	EN217B	240†	0-240	4.4	1.1	31.00	27.90	26.35

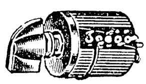
POWERSTAT METERED KNOBS



For 21-22, 116B-216B, 117B-217B, 126-226, 136B-236B, 146-246 Powerstats. Direct-reading voltmeter remains stationary inside knob rim —does not turn with knob. VS150 for 120 v. types; VS300 for 240 v. 2.5% acc.

54 D 2541. VS150 (0-150 v. Scale) ... 32.00
54 D 2542. VS300 (0-300) v. Scale) ... 32.00

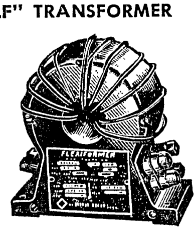
TYPE 5-1011 SINGLE-GANG VARIABLE TRANSFORMER



Single unit for 115 volt AC single phase input. Variable transformer output: 83-113v., 98-130v., or 116-149v. Low voltage output; 0-26v. Line corrector output: 115v., with 90-113v., 104-133v., or 117-149v. inputs. 400/1600 cycle. Max. output current, 2.6 amps. $1\frac{13}{16}$x$1\frac{13}{16}$x$3\frac{9}{16}$". Wt., 1 lb.

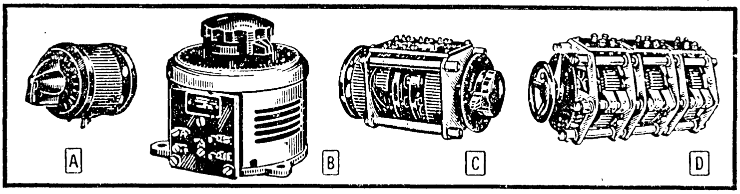
54 D 4353. 1-5 .... Each 33.00
6-24 ..... Each 29.70 25-99 .... Each 28.05

FLEXIFORMER® TYPE TP-150 "DO-IT-YOURSELF" TRANSFORMER



Serves as current transformer and multiple source of AC voltages. Primary has high-impact plastic case molded over toroidal coil. User winds secondary to suit. Output, 150 VA max. Input for 110-120 v., 50-60 cycle AC. As current transformer, unit acts as secondary. Permits 1% accuracy ammeter readings up to 400 amps. Intermittent rating of 800 amps with slight decrease in accuracy. Color-coded 5-way binding posts. Reference chart and instructions. Wt., $5\frac{1}{2}$ lbs.

54 D 2599 .... 25.00



400/800-CYCLE POWERSTAT® VARIABLE TRANSFORMERS

• Vibration, Shock, Inclination Resistant • Operate at Altitudes to 50,000 Feet

High-frequency variable transformers for industrial and military applications. Perform the same task as a comparably rated 60-cycle unit but weigh one-third as much and occupy one-half the space. Meet MIL specs for environmental conditions. Operate at full rated load from —55°C to +50°C, but above +50°C must be derated per table at right. All are knob-operated, open construction except *enclosed, †square-frame construction. Mount behind panel except §surface mounting. All except 28-volt types have tap to permit over-voltage output of 17%. Three-phase types wye-connected.

SINGLE-PHASE UNITS

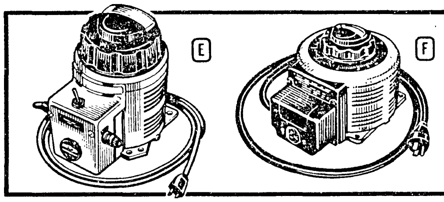
Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amp	Max. Size (HWD)	Wt., Lbs.	EACH 1-5	EACH 6-24	EACH 25-99
54 D 4317	3HS02UK	A	28	0-28	2.0	$2\frac{3}{16}$x2x$2\frac{5}{8}$"	1	20.00	18.00	17.00
54 D 4336	1HS01UK	A	120	0-120/140	1.0	$2\frac{11}{16}$x$2\frac{3}{8}$x$3\frac{5}{32}$"	$1\frac{1}{2}$	14.50	13.05	12.33
54 D 4339	†1HMS03UK	....	120	0-120/140	3.0	$4\frac{3}{4}$x$4\frac{1}{8}$x$4\frac{3}{32}$"	$2\frac{3}{4}$	15.50	13.95	13.18
54 D 4340	†1HMS07UK	....	120	0 120/140	7.5	$4\frac{3}{4}$x$4\frac{1}{8}$x$4\frac{21}{32}$"	$3\frac{3}{4}$	20.00	18.00	17.00
54 D 4342	*§1HMD07CK	B	120	0-120/140	7.5	$5\frac{9}{16}$x$5\frac{3}{32}$x$4\frac{3}{4}$"	$4\frac{3}{4}$	22.00	19.80	18.70
54 D 4343	1HL15UK	....	120	0-120/140	15.0	$8\frac{1}{16}$x$8\frac{1}{16}$x$7\frac{9}{32}$"	14	50.00	45.00	42.50
54 D 4347	2HL09UK	....	240	0-240/280	9.0	$8\frac{1}{16}$x$8\frac{1}{16}$x$7\frac{17}{32}$"	$15\frac{1}{2}$	50.00	45.00	42.50

THREE-PHASE UNITS

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amp	Max. Size (HWD)	Wt., Lbs.	EACH 1	EACH 2-49
54 D 4348	2HMS03UK-3Y	C	240	0-240/280	3.0	$4\frac{3}{4}$x$4\frac{1}{8}$x$8\frac{23}{32}$"	$8\frac{1}{2}$	44.55	42.08
54 D 4349	2HMS07UK-3Y	C	240	0-240/280	7.5	$4\frac{3}{4}$x$4\frac{1}{8}$x$9\frac{27}{32}$"	$11\frac{1}{2}$	60.30	56.95
54 D 4350 U	2HL15UK-3Y	D	240	0-240/280	15.0	$8\frac{1}{16}$x$8\frac{1}{16}$x$16\frac{3}{4}$"	41	126.00	119.00

METERED-KNOB POWERSTAT VARIABLE TRANSFORMERS

- Voltmeter Reads 0 to 150 Volts
- Remains Stationary Inside Knob
- Full Scale Accuracy of ±2.5%



Each Powerstat incorporates a large, easy-to-read voltmeter stationary inside its control knob. Powerstats are especially suited for applications where close voltage control is necessary. Voltmeters have full scale accuracy of ±2.5%; are insensitive to stray magnetic fields; read from 0 to 150 volts AC. Units listed operate from 120 volt, 50-60 cycle AC input; provide continuously variable AC output of 0 to 140 volts. Have input cord, output receptacle and fuse except *Type VS136B is less cord and receptacle; but has terminals for screw, push-on, or solder connections. Type VS116B has On-Off switch. All have provision for limiting output voltage to line voltage values.

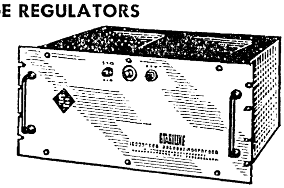
Stock No.	Mfr's Type	Fig.	Constant Current Load Max. Amps	Constant Current Load Max. KVA	Dimensions	Wt. Lbs.	EACH 1-11	EACH 12-99
54 D 2544	VS116B	E	10.0	1.4	$6\frac{13}{16}$x$5\frac{1}{8}$x$7\frac{1}{8}$"	12	58.00	49.30
54 D 2545 K	*VS136BB	F	22.0	3.1	$6\frac{3}{16}$x$7\frac{3}{4}$x$8\frac{13}{16}$"	$24\frac{1}{4}$	87.00	73.95
54 D 2546 K	VS3PN136B	F	22.0	3.1	$10\frac{7}{32}$x$7\frac{3}{4}$x$6\frac{3}{16}$"	26	104.00	88.40

AUTOMATIC VOLTAGE REGULATORS

STABILINE

Stabiline Automatic Voltage Regulators of the new IES Series are highly accurate, fast correcting units featuring solid-state circuitry.

- Highly Reliable
- Solid-State Construction
- Distortion under 3%
- Instant Correction

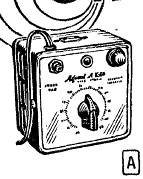


Maintain output voltage within a 100 millivolt rms band for any combination of input voltage and load current changes and for changes for load power factor from 1.0 to 0 lagging. Time constant resp., 30 msec. Nom. output volts; 115, *220; input v. range; 95-135, *195-255; output v. range; 110-120, *220-240. Can be rack mounted.

Stock No.	Mfr's Type	Max. Output Amps	Rated Output KVA	Max. Size (DWH)	Shpg. Wt., Lbs.	EACH 1	EACH 2-49
54 D 2537 Z	IES9101	8.7	1.0	$13\frac{1}{4}$x19x$5\frac{3}{8}$"	72	387.00	365.50
54 D 2538 Z	IES9103	26.1	3.0	$15\frac{1}{8}$x19x$8\frac{3}{4}$"	136	594.00	561.50
54 D 2539 Z	IES9106	52.2	6.0	$15\frac{1}{8}$x19x$12\frac{1}{4}$"	181	738.00	697.00
54 D 2540 Z	IES9206*	26.1	6.0	$15\frac{1}{8}$x19x$12\frac{1}{4}$"	171	774.00	731.00

Standard Electric Variable Transformers

STACO *Adjust-A-Volt*® VARIABLE AUTOTRANSFORMERS



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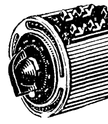

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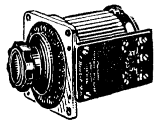

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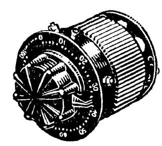

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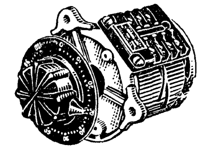
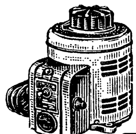


E

Selected Variable Transformers for Control of AC voltage, Heat, Speed, Power, and Light



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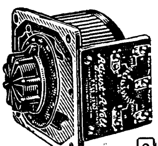

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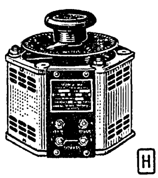

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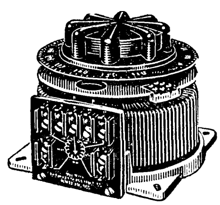

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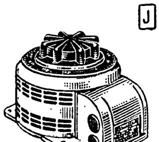

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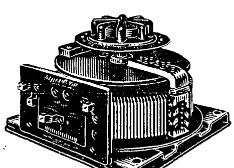

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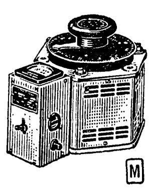


M

An extremely wide selection of adjustable autotransformers designed to provide variable output voltages with high conversion efficiency. All STACO autotransformers feature rugged mechanical construction. Each consists of a single-layer winding on a high-grade toroidal core. A sliding brush taps the transformer to permit selection of any desired output voltage between 0 and 132 volts on units with over-voltage feature; 0 to line voltage, or as indicated in table for others. Units with over-voltage feature may be wired for 0 to line output. Regulation is substantially independent of the load; zero waveform distortion. Temperature rise is moderate. Low-resistance alloy brush-track plating eliminates oxidation and deterioration of commutator surface. Brush is always in contact with at least one turn of wire. This provides a smooth, uninterrupted flow of current when the knob is rotated for voltage adjustment. Brush replacement is easy because of special brush holders with pre-adjusted coil springs. All autotransformers are for 50-60 cycle AC operation, except *60 cycle only; 25 cycle operation is permissible if output power ratings are reduced by 50%. Green hammertone finish.

120-VOLT SINGLE-PHASE PANEL MOUNTING

Stock No.	Mfr's Type	Fig.	Output			Size	Wt. Lbs.	EACH				
			Volts	Amps	KVA			1	2-5	6-11	12-24	25-49
54 D 2583	100BU	B	*0-132	1.25	.165	2 13/16x2 3/32"	2	8.50	8.50	8.50	6.85	6.80
54 D 4307	175BU	B	*0-132	1.75	.23	2 13/16x2 3/32"	2.5	8.75	8.75	8.75	7.25	7.20
54 D 2579	250BU	B	*0-132	2.5	.33	2 13/16x2 9/16"	2.5	9.75	9.75	9.75	8.10	8.00
54 D 1966	T21U	C	0-140	2.4	.33	3 1/4x3 1/4x3 15/16"	3	15.00	15.00	15.00	13.35	13.20
54 D 2580	300BU	D	*0-140	3.0	.42	3 11/16x3 11/16"	4	13.50	13.50	10.95	10.95	10.85
54 D 4306	375BU	C	*0-140	3.75	.53	3 3/4x2 3/4x3 1/4"	4	13.75	13.75	11.35	11.35	11.25
54 D 1967	T51U	C	0-140	6.0	.84	4 1/2x4 1/2x3 15/16"	7	18.00	18.00	16.20	16.20	16.10
54 D 2582	500BU	E	0-140	7.5	1.05	5 11/16x16x5"	9	18.75	18.75	15.20	15.20	15.10
54 D 4681	SQ500BU	C	0-140	7.5	1.05	4 1/4x4 1/4x3 15/16"	9	17.50	17.50	14.60	14.60	14 50
54 D 4685	510BU	E	*0-120	10	1.2	5 11/16x5"	9	19.50	19.50	16.20	16.20	16.10
54 D 4684	SQ510BU	C	*0-120	10	1.2	4 1/4x4 1/4x3 15/16"	9	17.75	17.75	14.60	14.60	14.50
54 D 1630	T101U	G	0-140	10	1.4	5 3/4x5 3/4x3 3/4"	12.5	31.00	31.00	27.55	27.55	27.35
54 D 4682 X	T1500U	G	0-140	15	2.1	6 1/8x6 1/8x4 3/8"	16	34.00	34.00	27.54	27.54	27.37
54 D 2589 K	1500B	H	0-140	15	2.1	8 1/16x5 11/16"	20	46.00	46.00	37.25	37.25	37.05
54 D 3580 K	2500BU	J	0-140	25	3.0	8 3/16x7 5/8x4 1/8"	22	50.00	50.00	40.50	40.50	40.25
54 D 3579 K	2500B	K	0-140	25	3.0	9 5/8x7 5/8x4 1/8"	24	55.00	55.00	44.55	44.55	44.25
54 D 1631 Z	T501U	L	0-140	50	6.0	12 1/2x5 1/2x5 1/2"	59	125.00	125.00	102.25	102.25	101.60
54 D 3890 Z	T501B	M	0-140	50	6.0	12 1/2x13 5/8x6"	55	128.00	128.00	104.65	104.65	104.00

120-VOLT SINGLE-PHASE PORTABLE OR BENCH MODELS WITH CORD AND RECEPTACLE

Housed in rugged cases and include pilot light, switch, fuse, line cord with plug, and output receptacle. Types 3PN500B, 3PN1500B, 1500BD, and 3PN2500B are equipped with 3-wire grounded plug and receptacle. In addition, Type 1500BD is equipped with an accurate output voltmeter.

54 D 2584	PA-1	A	*0-132	1.25	.165	3 7/8x3 7/8x3 1/2"	3	16.00	16.00	16.00	12.90	12.80
54 D 0977	PA-175	A	*0-132	1.75	.23	3 7/8x3 7/8x3 1/2"	3	16.50	16.50	16.50	13.35	13.20
54 D 3891	PA-375	A	*0-140	3.57	.53	6 1/2x6 1/8x6 1/2"	5	19.50	19.50	19.50	15.75	15.60
54 D 2581	500B	F	0-140	7.5	1.05	7 1/4x6 1/2"	9	25.50	25.50	25.50	21.00	20.80
54 D 1629	3PN500B	F	0-140	7.5	1.05	7 1/4x6 1/2"	9	29.00	29.00	29.00	24.20	24.00
54 D 3892 X	1500BD	M	0-140	15	2.1	10x8 1/16x5 11/16"	25	75.00	75.00	75.00	60.55	60.00
54 D 4683 K	3PN1500B	H	0-140	15	2.1	9 3/8x8 1/16"	22 1/2	56.00	56.00	56.00	45.20	44.80
54 D 3893 K	3PN2500B	K	0-140	25	3.0	10 3/4x7 11/16"	22	72.00	72.00	72.00	58.10	57.60

240-VOLT SINGLE-PHASE PANEL MOUNTING

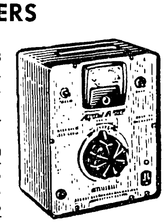
54 D 1632	520BU	E	0-280	3	.84	5 11/16x5"	9	21.50	21.50	17.80	17.80	17.70
54 D 4632	SQ520BU	C	0-280	3	.84	4 1/2x4 1/2x3 15/16"	9	19.50	19.50	16.20	16.20	16.10
54 D 4688	530BU	E	*0-240	4	.96	5 11/16x5"	9	22.75	22.75	18.65	18.65	18.50
54 D 4689	SQ530BU	C	*0-240	4	.96	4 1/2x4 1/2x3 15/16"	9	19.50	19.50	16.20	16.20	16.10
54 D 3894 K	T1520U	G	0-280	9.5	2.7	6 1/8x6 1/8x4 3/8"	23	34.00	34.00	27.54	27.54	27.35
54 D 3578 K	2520BU	J	0-280	10.0	2.8	8 3/16x7 5/8x4 1/8"	23	50.00	50.00	40.50	40.50	40.25
54 D 1968 Z	T502U	L	0-280	28	6.7	12 1/2x12 1/2x5 1/2"	52	125.00	125.00	102.25	102.25	101.60
54 D 3895 Z	T502B	K	0-280	28	6.7	12 1/2x12 1/2x6"	55	128.00	128.00	104.65	104.65	104.00

240-VOLT SINGLE-PHASE BENCH MODELS WITH CORD AND RECEPTACLE

54 D 1969	520B	F	0-280	3.0	.84	7 1/4x6 1/2"	9	28.50	28.50	28.50	23.40	23.20
54 D 3576 K	1520B	H	0-280	9.0	2.5	8 1/16x5 11/16"	22	46.00	46.00	37.25	37.25	37.05
54 D 3577 K	2520B	K	0-280	10.0	2.8	9 5/8x7 5/8"	22 1/4	55.00	55.00	44.55	44.55	44.25

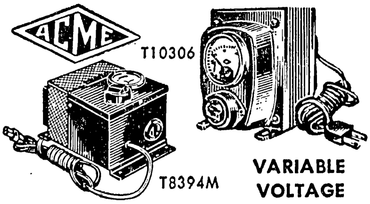
120-VOLT VARIABLE ISOLATION TRANSFORMERS

"Adjust-A-Volt" IV Transformers. With metered voltage output; circuit breaker with reset button (except fused Type IV-1-2M); on-off switch and 3-prong receptacle. Besides normal isolated connection with ratings as shown, output and input can be paralleled at 280% of rated current; can be connected in series for 120 to 240 v. at rated current (120 v. input) or at 220% of rated current (240 v. input).



Stock No.	Mfr's Type	Output			Size	Wt. Lbs.	EACH		
		Volts	Amps	KVA			1-5	6-24	25-49
54 D 4699	IV-1-2M	0-140	2	.28	6 3/8x8 9/16x8"	13 1/4	59.08	52.82	52.13
54 D 1627	IV-1-4M	0-140	4	.56	7 1/2x9 1/2x8 1/4"	19 1/2	67.58	60.42	59.63
54 D 1633 K	IV-1-9M	0-140	9	1.26	9 1/4x11 1/2x9 1/4"	29	82.88	74.10	73.13

Voltage Regulators and Power Supplies



T10306

T8394M

VARIABLE VOLTAGE ADJUSTERS

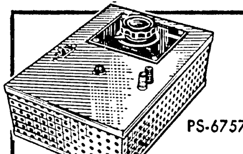
TYPE T10306. 150-watt constant-duty transformer. Rotary tap-switch. Step-up or step-down to correct low or high-voltage. Voltmeter indicates secondary voltage. Primary tapped for 65, 75, 90, 100, 115, 130 and 145 at 50-60 cycles. Secondary, 115 v. Silicon-steel laminations for low loss. 8-ft. cord, plug; output receptacle. 4⅝x4x6¾". Mtg. ctrs., 3¾x5¾". 7 lbs.

54 D 2501.1-9 .... 19.80

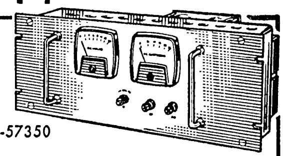
TYPE T8394M. Designed for television sets. Rated 300 watts; can be used as step-up or step-down transformer to correct low or high line-voltage. Easily adjusted by 7-position rotary switch until built-in voltmeter reads 115 volts output. Input switch positions for 95, 100, 105, 110, 115, 120, 125 volts at 50-60 cycles. Complete with 8-ft. cord with plug; output receptacle. Constant-duty type; can be operated for indefinite periods of time. 4¾x4x5⅝". Wt., 6 lbs.

54 D 2514........................ 12.75

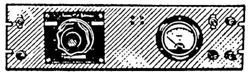
PORTABLE AND STANDARD-RACK DC POWER SUPPLIES



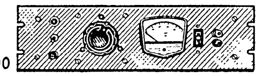
PS-6757



PS-57350



PS-1-6757



PS-39600

- Continuously Variable DC Output
- Versatile—for Lab or Line
- Eliminate Need for Battery Stacks
- Low-Ripple Outputs
- Compact and Lightweight
- Test Transistors and Circuits

Power supplies designed for both laboratory use and assembly line testing. Eliminate need for battery stacks and avoid battery instability factor. Deliver regulated voltage for light testing, transistor work and circuit tests. Lightweight and compact. Model PS-6757 can be easily carried to test areas. Type PS-57350 has both a DC voltmeter and a DC ammeter for visual monitoring of circuit regulation. Ventilated steel cases permit flow of air to maintain temperature within case at ambient level. Inputs: PS-6757 and PS-1-6757, 95-130 volts at 60 cycles for 45-volt DC output; PS-39600, 102-138 volts at 60 cycles for 50-volt DC output; PS-57350, 100-130 volts at 60 cycles for 7-volt DC output. With AC line cord and plug.

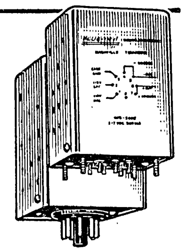
Stock No.	Mfr's Type	Output VDC	Output Amps	Regulation	Style	Case Size HWD	Wt. Lbs.	EACH
54 D 4428 K	PS-6757	0-45	0-2.5	±1%	Portable	7¾x11½x4"	23	123.00
54 D 4429 K	PS-1-6757	0-45	0-2.5	±1%	Std. Rack	5¼x19x7½"	21	145.00
54 D 4430 Z	PS-39600	0-50	0-2.5	±3%	Std. Rack	5¼x19x7½"	21	168.00
54 D 4431 Z	PS-57350	0-7	0-15	±4%	Std. Rack	7x19x10"	25	278.00

DC POWER SUPPLIES BY PLUG-IN INSTRUMENTS, INC.

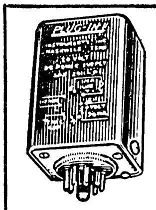
PRECISION MINIATURE POWER SUPPLIES WITH SILICON RECTIFIERS

Transistorized, with electronic overload protection. Plug-in or solder header construction. For transducer excitation, instrument systems. Pot. adjusts output. Line regulation: 2 mv DC or less. Load regulation: 5 mv DC or less. Ripple: 1 mv p-p or less. DC isolation to case exceeds 100 megs @ 200 v. DC; Output imp. (DC to 1 kc): 0-1 ohm. Transient response (full load change): less than 200 mv p-p within 50 μ-sec. Stability better than ±0.1% for 500 hours. Ambient air temperature: 30° to 130° F. Temp. coef.: 0.008% degrees F. 3⅛x2⅛x2$\frac{9}{32}$". Solder type have 1½x1½" spacing. Plug-in type includes socket. For 105-130 v., 50-400 Cycle AC.

Stock No.	Mfr's Type	Style	Volts Range	Output Ma	EACH 1-4	EACH 5-14	EACH 15-49
54 D 4388	SPS-2052-P	Plug-In	9-13	0-200	72.00	68.40	64.80
54 D 4389	SPS-2052-S	Solder Header	9-13	0-200	73.50	69.83	66.15
54 D 4390	SPS-2053-P	Plug-In	12-17	0-175	72.00	68.40	64.80
54 D 4391	SPS-2053-S	Solder Header	12-17	0-175	73.50	69.83	66.15
54 D 4392	SPS-2054-P	Plug-In	16-21	0-150	72.00	68.40	64.80
54 D 4393	SPS-2054-S	Solder Header	16-21	0-150	73.50	69.83	66.15
54 D 4394	SPS-2055-P	Plug-In	1.6-5	0-300	70.00	66.50	63.00
54 D 4395	SPS-2055-S	Solder Header	1.6-5	0-300	71.50	68.82	64.35
54 D 4407	SPS-2056-P	Plug-In	5-9	0-250	70.00	66.50	63.00
54 D 4408	SPS-2056-S	Solder Header	5-9	0-250	71.50	68.82	64.35
54 D 4411	SPS-2062-S	Solder Header	1-6.5	0-800	77.50	73.63	69.75
54 D 4417	SPS-2063-S	Solder Header	5-9	0-600	77.50	73.63	69.75



Solder-Header



Plug-In

REGULATED DC POWER SUPPLIES

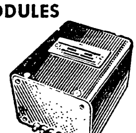
Solid-state DC power supplies for small electronic and instrumentation equipment. Output isolated from input, for either positive or negative output. Output impedance, 0.1 ohms. Operating range, 30°F to 120°F. Ripple, 1 mv rms. Slip-on case. Size, less plug, 2x2x3". Plug-in power supply includes octal receptacle. Av. shpg. wt., 2 lbs. **Contact Allied for prices on quantities larger than those shown.**

Stock No.	Type SPS-	Output VDC	Output Ma	Regulation Line%	Regulation Load%	EACH 1-4	EACH 5-14	EACH 15-49
54 D 4356	2017-P	9	0-175	±0.05	±0.1	54.00	51.30	48.60
54 D 4209	2010-P	12	0-175	±0.05	±0.1	54.00	51.30	48.60
54 D 4218	2018-P	15	0-125	±0.04	±0.08	54.00	51.30	48.60
54 D 4357	2019-P	18	0-100	±0.04	±0.08	54.00	51.30	48.60
54 D 4358	2020-P	22.5	0.90	±0.02	±0.05	54.00	51.30	48.60
54 D 4219	2011-P	24	0.90	±0.02	±0.05	54.00	51.30	48.60
54 D 4359	2021-P	28	0.75	±0.02	±0.05	54.00	51.30	48.60

MILWAUKEE ELECTRONICS

REGULATED DC POWER SUPPLY MODULES

- Small, Compact Transistorized Modules
- Line and Load Regulation is ±0.05%
- Permit Positive or Negative Grounding



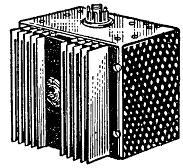
Compact, transistorized DC modules for use in laboratory and product test equipment, transistorized circuitry, as precision DC reference voltage, and regulated bias supply. Electrical isolation of input from output allows positive or negative grounding. No damage will result from momentary overloads or continuous short circuits. Output adjustable ±5% with screwdriver. Line and load regulation, ±0.05%. RMS ripple, 1 millivolt. Operating temp., +60°C max. with heat-sink on base. For 105-125 v., 49-420 cycles AC. Have 4 turret-type solder terminals. 8 lbs.

Stock No.	Mfr's Type	Output VDC	Output Amps	HWD	EACH 1-9	EACH 10-24
54 D 4274	ME-PS-12-2.5	12	0-2.5	$6\frac{5}{16}$x$5\frac{1}{16}$x$4\frac{3}{16}$"	190.00	180.50
54 D 4275	ME-PS-28-1.5	28	0-1.5	$6\frac{15}{16}$x$5\frac{1}{16}$x$4\frac{3}{16}$"	165.00	156.75

LECTROTECH MODULE-TYPE

SOLID-STATE REGULATED DC POWER SUPPLIES

- Electrostatically Shielded Transformer
- Load and Line Voltage Regulation, .005 Volts Maximum
- Ripple and Noise, Less Than 500 Microvolts



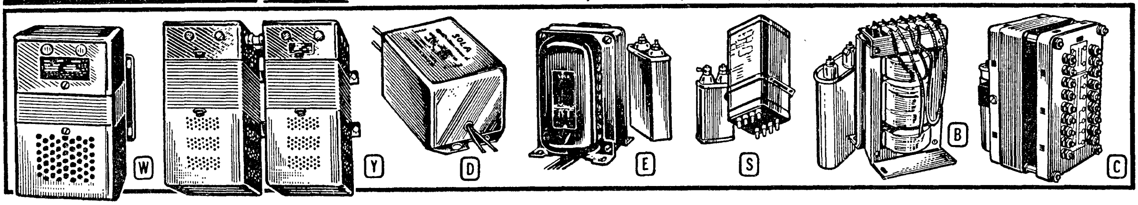
Space-saving component for test equipment, reference voltage sources, regulated bias supplies. Recovery, 50 μsec max. Op. ambient, 50°C max. Storage, −20°C to +85°C. 100% overload protection. Input isolated from output. Adjustable output. Overall, 5x5x5¼"; 3¾x2⅛" mtg. ctrs. For 105/125/210/250 v., 48-440 cycles. Av. wt., 5½ lbs.

Stock No.	Mfr's Type	Output VDC	Output Amps	EACH 1-5	EACH 6-11	EACH 12-Up
54 D 0322	1015	10-15	1	95.00	89.00	82.00
54 D 0323	1520	15-20	1	95.00	89.00	82.00
54 D 0324	2025	20-25	1	95.00	89.00	82.00
54 D 0325	2530	25-30	1	95.00	89.00	82.00
54 D 0326	3035	30-35	1	95.00	89.00	82.00

SOLA ELECTRIC SB

Constant-Voltage Transformers

AUTOMATIC INSTANTANEOUS REGULATORS



FOUR TYPES OF CV TRANSFORMERS TO SOLVE ANY VOLTAGE PROBLEM

- Ultra-Fast Regulating Action
- Response Time 1½ Cycles or Less
- Fully Automatic, Continuous Regulation
- No Manual Adjustments Required
- Self-Protecting Against Short Circuits
- Negligible External Field

Static-magnetic voltage regulators accept input variations up to ±15% and regulate to within ±1%. Completely automatic, no moving parts, no maintenance, no manual adjustment. Fast regulating action response time is usually 1½ cycles (25 milliseconds) or less. Short-circuit and overload protection inherent in design. **CVS**: Less than 3% harmonic distortion at full load, the newer CVS delivers a sine wave output and is recommended for all AC applications. **CVN**: Recommended as transformer for DC power supplies, delivers a square wave and average 20% rms harmonic content. **CVE**: Electronic power type for plate-filament service. Regulates to ±3% of nominal input. **CVF**: Electronic power type for filament service. 50-cycle models of CVE and CVF available. **Structure codes**: W—exposed core, end housings, screw-type terminals in outlet box; Y—same as W but duplex; D—drawn case, integral capacitor; E—exposed core, end bells, separate capacitor; S—hermetically sealed case, separate capacitor; B—varnished core and coil, epoxy coated; C—Multi-tap™, screw lugs, mtg. plate. *Triplex. *Suffix F in Stk. No.—Shipped from Elk Grove, Ill.*

TYPE CVS SINUSOIDAL TRANSFORMERS—60-CYCLE DUTY

Stock No.	Mfr's Type	Output Volts	Input Volts	Cap. VA	Nominal Dimensions (In.) Outline	Mounting	Structure	Use Adapter Kit	Wt.. Lbs.	EACH 1-4	5-9	10-49
54 D 2422	23-13-030	118	95-130	30	$6\frac{1}{8}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	8	27.00	24.30	22.95
54 D 2517	23-13-060	118	95-130	60	$6\frac{15}{16}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	10	32.00	28.80	27.20
54 D 2447	23-23-060	118	190-260/380-520	60	$6\frac{15}{16}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	10	35.00	31.50	29.75
54 D 2518	23-22-112	118	95-130/190-260	120	8x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	14	41.00	36.90	34.85
54 D 2448	23-23-112	118	190-260/380-520	120	8x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	14	44.00	39.60	37.40
54 D 2646 K	23-22-125	118	95-130/190-260	250	$9\frac{5}{8}$x$5\frac{3}{8}$x$7\frac{7}{16}$	$4\frac{1}{8}$x$4\frac{3}{4}$	W	b	28	56.00	50.40	47.60
54 D 2449 U	23-23-125	118	190-260/380-520	250	10x$5\frac{3}{8}$x$7\frac{7}{16}$	$4\frac{1}{8}$x$4\frac{3}{4}$	W	b	49	60.00	54.00	51.00
54 D 2647 U	23-22-150	118	95-130/190-260	500	$12\frac{7}{16}$x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	45	87.00	78.30	73.95
54 D 2455 U	23-26-150	118/236	190-260/380-520	500	$12\frac{7}{16}$x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	46	93.00	83.70	79.05
54 D 2451 Z	23-25-210	118/236	95-130/175-235 190-260	1000	$17\frac{15}{16}$x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	72	146.00	131.40	124.10
54 D 2452 Z	23-26-210	118/236	190-260/380-520	1000	$17\frac{15}{16}$x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	72	146.00	131.40	124.10
54 D 1991 Z	23-25-220	118/236	95-130/175-235 190-260	2000	$19\frac{15}{16}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$4\frac{1}{2}$x$11\frac{3}{4}$	W	....	140	265.00	238.50	....
54 D 2453 Z	23-26-220	118/236	190-260/380-520	2000	$19\frac{15}{16}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$4\frac{1}{2}$x$11\frac{3}{4}$	W	....	148	265.00	238.50	....
54 D 1992 Z	23-25-230-3	118/236	95-130/175-235 190-260	3000	$21\frac{7}{8}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$6\frac{7}{16}$x$11\frac{3}{4}$	W	....	194	356.00	320.40	....
54 D 2454 Z	23-26-230	118/236	190-260/380-520	3000	$21\frac{7}{8}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$6\frac{7}{16}$x$11\frac{3}{4}$	W	....	196	356.00	320.40	....
54 D 2458ZF	23-25-250	118/236	95-130/175-235 190-260	5000	$20\frac{9}{16}$x$25\frac{13}{16}$x$10\frac{11}{16}$	$5\frac{7}{16}$x$24\frac{13}{16}$	Y	....	335	556.00	500.40	....
54 D 1993ZF	23-26-250	118/236	190-260/280-520	5000	$20\frac{7}{8}$x$25\frac{13}{16}$x$10\frac{11}{16}$	$5\frac{7}{16}$x$24\frac{13}{16}$	Y	....	342	556.00	500.40	....
54 D 1994ZF	23-28-275	118/236	190-260/280-520	7500	$20\frac{9}{16}$x$38\frac{1}{4}$x$11\frac{1}{16}$	$5\frac{7}{16}$x$37\frac{1}{4}$	W*	....	502	826.00	743.40	....

TYPE CVS SINUSOIDAL TRANSFORMERS—50 CYCLE DUTY

Stock No.	Mfr's Type	Output Volts	Input Volts	Cap. VA	Nominal Dimensions (In.) Outline	Mounting	Structure	Use Adptr. Kit	Wt., Lbs.	EACH 1-4	5-9	10-49
54 D 3766	23-13-560	118	95-130	60	$7\frac{1}{4}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	11	37.00	33.30	31.45
54 D 3767	23-23-560	118	190-260/380-520	60	$7\frac{1}{4}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	11	40.00	36.00	34.00
54 D 3786 K	23-22-612	118	95-130/190-260	120	$8\frac{3}{4}$x$5\frac{3}{8}$x$7\frac{7}{16}$	$4\frac{1}{8}$x$4\frac{3}{4}$	W	b	21	47.00	42.30	39.95
54 D 3787 K	23-22-625	118	95-i30/190-260	250	$11\frac{5}{16}$x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	35	64.00	57.60	54.40
54 D 3788 Z	23-22-650-1	118	95-130/190-260	500	13x9x$6\frac{7}{16}$	$5\frac{5}{8}$x$8\frac{1}{8}$	W	c	53	100.00	90.00	85.00
54 D 3789 Z	23-25-710	118/236	95-130/175-235/ 190-260	1000	$18\frac{7}{8}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$3\frac{1}{2}$x$11\frac{3}{4}$	W	....	120	168.00	151.20	142.80
54 D 3790 ZF	23-25-720	118/236	95-130/175-235/ 190-260	2000	$20\frac{5}{8}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$5\frac{1}{4}$x$11\frac{3}{4}$	W	....	170	305.00	274.50	....
54 D 3791 ZF	23-25-730	118/236	95-130/175-235/ 190-260	3000	$26\frac{5}{16}$x$12\frac{3}{4}$x$10\frac{11}{16}$	$7\frac{9}{16}$x$11\frac{3}{4}$	W	....	227	409.00	368.10	....

TYPE CVS SINUSOIDAL TRANSFORMER—400-CYCLE DUTY

For 115-v. nominal input (95-130). 118-v. regulated output. Up to 50° C ambient temperature. With oil-filled capacitor.

Stock No.	Mfr's No.	VA	Transformer Dimensions	Mtg. Ctrs.	Capacitor Dimensions (HWD)	Structure	Wt.. Lbs.	EACH 1-4	5-9	10-49
54 D 4365	43-13-060	60	$5\frac{3}{4}$x$3\frac{3}{8}$x$3\frac{3}{16}$″	$2\frac{3}{4}$x$2\frac{3}{16}$″	$2\frac{7}{8}$x$1\frac{13}{16}$x$1\frac{1}{16}$″	B	6	40.00	36.00	34.00
54 D 4366	43-13-112	120	$5\frac{3}{4}$x$3\frac{3}{8}$x$3\frac{7}{8}$″	$2\frac{3}{4}$x$2\frac{7}{8}$″	$4\frac{3}{4}$x$2\frac{1}{2}$x$1\frac{3}{16}$″	B	8	55.00	49.50	46.75
54 D 4380	43-13-150	500	$7\frac{13}{16}$x$4\frac{5}{8}$x$3\frac{3}{4}$″	$3\frac{3}{4}$x$2\frac{3}{4}$″	$4\frac{3}{4}$x$3\frac{3}{4}$x$3\frac{3}{16}$″	B	19	94.00	84.60	79.90

TYPE CVN NORMAL HARMONIC TRANSFORMER—60-CYCLE DUTY

Stock No.	Mfr's Type	Voltage Rating Output	Input	Cap. VA	Nominal Size (Inches) Outline	Mounting	Structure	Use Adapter Kit	Wt.. Lbs.	EACH 1-4	5-9	10-49
54 D 1978	20-10-015	118	95-130	15	$5\frac{5}{16}$x$2\frac{5}{8}$x$3\frac{1}{2}$	$5\frac{1}{16}$x$1\frac{1}{8}$	D	....	4	16.00	14.40	13.60
54 D 2434	20-11-015	118	95-130	15	$5\frac{1}{4}$x$3\frac{1}{2}$x$2\frac{1}{4}$	3x$1\frac{1}{2}$	S	....	4	22.00	19.80	18.70
54 D 2435	20-14-015	118	95-130	15	$4\frac{5}{16}$x$2\frac{3}{8}$x$2\frac{7}{16}$	$1\frac{3}{4}$x$1\frac{7}{8}$	E	....	3	15.00	13.50	12.75
54 D 2436	20-14-030	118	95-130	30	$4\frac{5}{16}$x$2\frac{5}{8}$x$3\frac{5}{16}$	$1\frac{7}{8}$x$2\frac{3}{8}$x	E	a	5	17.00	15.30	14.45
54 D 2657	20-13-030-1	118	95-130	30	6x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	....	7	22.00	19.80	18.70
54 D 2658	20-13-060-1	118	95-130	60	$6\frac{13}{16}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	10	27.00	24.30	22.95
54 D 2438	20-14-060	118	95-130	60	$4\frac{13}{16}$x$3\frac{1}{8}$x$3\frac{7}{8}$	$2\frac{1}{2}$x$3\frac{7}{8}$	E	....	8	23.00	20.70	19.55
54 D 2440	20-14-112	118	95-130	120	$4\frac{13}{16}$x$3\frac{1}{8}$x$4\frac{15}{16}$	$2\frac{1}{2}$x$3\frac{7}{8}$	E	....	11	31.00	27.90	26.35
54 D 2659	20-13-112	118	95-130	120	$7\frac{3}{8}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	12	36.00	32.40	30.60
54 D 2442	20-21-112	236	190-260	120	$7\frac{7}{8}$x4x$5\frac{3}{16}$	3x$3\frac{1}{2}$	W	a	13	36.00	32.40	30.60
54 D 2618 K	20-13-115	118	95-130	150	$8\frac{7}{8}$x$5\frac{3}{8}$x$7\frac{7}{16}$	$4\frac{1}{8}$x$4\frac{3}{4}$	W	b	22	43.00	38.70	36.55
54 D 2660 K	20-13-125	118	95-130	250	$11\frac{1}{8}$x$6\frac{15}{16}$x$6\frac{7}{16}$	$4\frac{5}{8}$x$6\frac{1}{8}$	W	c	25	53.00	47.70	45.05

Provide ± 1% Voltage Regulation SOLA ELECTRIC S|B

TYPE CVN NORMAL HARMONIC TRANSFORMER—60-CYCLE DUTY (Cont'd)

Stock No.	Mfr's Type	Voltage Rating: Output	Voltage Rating: Input	Cap. VA	Nominal Size (Inches): Outline	Nominal Size (Inches): Mounting	Structure	Use Adapter Kit	Wt. Lbs.	EACH 1-4	EACH 5-9	EACH 10-49
54 D 2433 K	20-23-125	118	190-260/380-520	250	11 1/8x6 15/16x6 7/16	4 5/8x6 1/8	W	c	25	53.00	47.70	45.05
54 D 2661 K	20-13-150	118	95-130	500	12 5/16x6 15/16x6 7/16	4 5/8x6 1/8	W	c	36	83.00	74.70	70.55
54 D 2437 K	20-23-150	118	190-260/380-520	500	12 5/16x6 15/16x6 7/16	4 5/8x6 1/8	W	c	36	83.00	74.70	70.55
54 D 2439 KF	20-24-150	236	190-260/380-520	500	12 1/2x6 15/16x6 7/16	4 5/8x6 1/8	W	c	38	83.00	74.70	70.55
54 D 2662 Z	20-13-210	118	95-130	1000	15 1/8x6 15/16x6 7/16	4 5/8x6 1/8	W	....	48	138.00	124.20	117.30
54 D 3198 Z	20-25-220	118/236	95-130/175-235/ 190-260	2000	20x10 1/2x10 11/16	4 9/16x9 1/2	W	....	128	251.00	225.90	.....
54 D 1988 ZF	20-25-230	118/236	95-130/175-235/ 190-260	3000	22x10 1/2x10 11/16	6 9/16x9 1/2	W	....	170	340.00	306.00	......
54 D 1989 ZF	20-27-250	118/236	190-260/380-520	5000	21x14 1/2x14 3/8	7x13	W	....	290	529.00	476.10	....
54 D 1990 ZF	20-26-310	118/236	190-260/380-520	10,000	21x29 7/16x14 3/8	7x27 15/16	Y	....	590	999.00	899.10	....

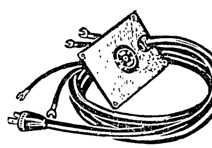
TYPE CVN NORMAL HARMONIC TRANSFORMER—50-CYCLE DUTY

Stock No.	Mfr's Type	Output Volts	Input Volts	Cap. VA	Nominal Dimensions (In.): Outline	Nominal Dimensions (In.): Mounting	Structure	Adapter Kit	Wt. Lbs.	EACH 1-4	EACH 5-9	EACH 10-49
54 D 3750	20-10-515	118	95-130	15	5 9/16x2 5/8x3 1/2	5 1/16x1 1/8	D	....	5	18.00	16.20	15.30
54 D 3751	20-14-530	118	95-130	30	4 13/16x3 1/8x3 7/32	2 1/2x2 5/32	E	....	6	20.00	18.00	17.00
54 D 3752	20-13-560-1	118	95-130	60	6 9/16x4x5 3/16	3x3 1/2	W	a	11	31.00	27.90	26.35
54 D 3753	20-14-560	118	95-130	60	4 13/16x3 1/8x4 3/16	2 1/2x3 1/8	E	....	9	26.00	23.40	22.10
54 D 3754 K	20-13-612	118	95-130	120	8 3/4x5 3/8x7 7/16	4 1/8x4 3/4	W	b	22	41.00	36.90	34.85
54 D 3755 K	20-13-615	118	95-130	150	9 1/16x5 3/8x7 7/16	4 1/8x4 3/4	W	b	25	49.00	44.10	41.65
54 D 3756 K	20-13-625	118	95-130	250	11 7/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	27	61.00	54.90	51.85
54 D 3757 K	20-22-625	118	95-130/190-260	250	11 7/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	28	61.00	54.90	51.85
54 D 3758 K	20-23-625	118	190-260/380-520	250	11 7/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	28	61.00	54.90	51.85
54 D 3759 U	20-13-650	118	95-130	500	12 13/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	43	95.00	85.50	80.75
54 D 3760 U	20-22-650	118	95-130/190-260	500	12 13/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	41	95.00	85.50	80.75
54 D 3761 U	23-23-650	118	190-260/380-520	500	12 13/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	41	95.00	85.50	80.75
54 D 3762 U	20-26-650	118/236	190-260/380-520	500	12 13/16x6 15/16x6 7/16	4 9/16x6 1/8	W	c	42	102.00	91.80	86.70
54 D 3763 Z	20-20-710	118	190-260	1000	18 7/16x10 1/2x10 11/16	3 1/16x8 3/8	W	....	125	159.00	143.10	135.15
54 D 3764 Z	20-22-710	118	95-130/190-260	1000	18 7/16x10 1/2x10 11/16	3 1/16x8 3/8	W	....	125	159.00	143.10	135.15
54 D 3765 Z	20-25-720	118/236	95-130/175-235/ 190-260	2000	20 3/4x10 1/2x10 11/16	5 1/16x8 3/8	W	....	144	289.00	260.10	......

CORD/RECEPTACLE ADAPTER KITS FOR "W" STRUCTURES

Adapter Code	Stock No.	Mfr's Type	Input Cord	Output Receptacle	EACH
a	54 D 2673	999-004	2-wire	2-wire	2.50
a	54 D 2676	999-018	3-wire	3-wire	3.75
b	54 D 2674	999-005	2-wire	2-wire	2.50
b	54 D 2677	999-019	3-wire	3-wire	3.75
c	54 D 2675	999-009	2-wire	2-wire	3.25
c	54 D 2678	999-020	3-wire	3-wire	3.75

Provides the convenience of an input plug and output receptacle on CV transformers in "W" type housings. Easily wired to standard terminal arrangement located under top plate of housing. Determine correct part number by noting "Adapter Kit" in tabular lists for CVS and CVN types with "W" structures on pp. 346-347.



TYPE CVF—FOR FILAMENT SERVICE—2.5 TO 25 AMPS—60-CYCLE

Stock No.	Mfr's Type	Output Volts	Input Volts	Cap. Amps	Nominal Dimensions (In.): Outline	Nominal Dimensions (In.): Mounting	Structure	Wt. Lbs.	EACH 1-4	EACH 5-9	EACH 10-49
54 D 1976	20-01-015	6.0	95-130	2.50	5 9/16x2 5/8x3 1/2″	5 1/16x1 1/8″	D	4	16.00	14.40	13.60
54 D 2443	20-06-015	6.0	95-130	2.50	4 5/16x2 3/8x2 7/16″	1 3/4x1 7/8″	E	3	15.00	13.50	12.75
54 D 1977	20-02-015	6.3	95-130	2.38	5 9/16x2 5/8x3 1/2″	5 1/16x1 1/8″	D	4	16.00	14.40	13.60
54 D 2444	20-03-015	6.3	95-130	2.38	4 15/16x2 3/8x2 7/16″	1 3/4x1 7/8″	S	4	22.00	19.80	18.70
54 D 2445	20-04-015	6.3	95-130	2.38	4 15/16x2 3/8x2 7/16″	1 3/4x1 7/8″	E	3	15.00	13.50	12.75
54 D 3193	20-04-030	6.3	95-130/190-260	5.0	4 13/16x3 1/8x3 1/8″	2 1/2x2 1/16″	E	6	17.00	15.30	14.45
54 D 3194	20-04-065	6.3	95-130/190-260	10.0	4 13/16x3 1/8x3 3/4″	2 1/2x2 11/16″	E	8	22.00	19.80	18.70
54 D 3195	20-04-095	6.3	95-130/190-260	15.0	4 13/16x3 1/8x4 11/16″	2 1/2x3 5/8″	E	11	26.00	23.40	22.10
54 D 3197 K	20-04-116	6.3	95-130/190-260	25.0	7x4 1/2x5 11/16″	3 5/8x4 1/8″	E	23	38.00	34.20	32.30

TYPE CVE—FOR PLATE-FILAMENT SERVICE—50 TO 250 MA—60-CYCLE

100-130 v. input. *Additional 6.3 v. 8 amp unregulated filament winding.

Stock No.	Mfr's Type	Typical Rectifier Tube	Av. DCV to Filter	Fil. Windings 6.3 V	Fil. Windings 5.0 V	Nominal Dimensions (In.): Outline	Nominal Dimensions (In.): Mounting	Structure	Wt., Lbs.	EACH 1-4	EACH 5-9	EACH 10-49
54 D 2669	7104	5Y3	275 @ 50 ma	2.5A; CT	2 A	4 13/16x3 1/8x3 3/16″	2 1/2x2 1/8″	E	6	13.00	11.70	10.40
54 D 2670	7106	5Y3	385 @ 110 ma	3A; CT	2 A	4 13/16x3 1/8x3 15/16″	2 1/2x2 7/8″	E	8	16.00	14.40	12.80
54 D 2671	7107	5U4	380 @ 250 ma	4A*	3 A	7x4 1/2x4 7/8″	3 5/8x3 3/8″	E	19	30.00	27.00	24.00

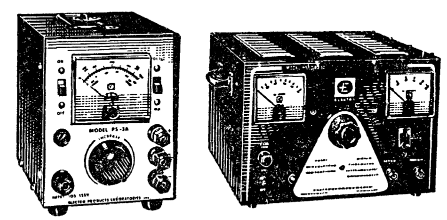
[C] TYPE CVR MULTI-TAP ™ CV TRANSFORMER FOR PROTOTYPE POWER SUPPLIES

Constant voltage transformer which provides over 100 regulated output voltages. Designed to operate in full-wave or bridge type circuits with stock silicon rectifiers. Output voltage remains constant within ±1% over input variations from 105 to 125 v. Other characteristics similar to type CVN. Ideal for prototypes, short run production, and lab work where final required output is unknown.

Stock No.	Mfr's Type	VA	Range of AC Volts	DC OUTPUT: Resistive	DC OUTPUT: Capacitive	Dimensions (HxWxD)	Wt., Lbs.	EACH 1-4	EACH 5-9	EACH 10-49
54 D 4434	73-13-040	40	9.3-28.9	3.7v to 12.9v @ 2 amp 7.7v to 26.5v @ 1.25 amp	3.9v to 14.6v @ 2 amp 8.4v to 31.1v @ 1.25 amp	4 11/16x3 1/8x5 7/8″	6	26.00	23.40	22.10
54 D 4435	73-13-075	75	10.3-30.0	4.0v to 12.8v @ 4 amp 8.6v to 27.6v @ 2 amp	4.2v to 14.6v @ 4 amp 9.6v to 31.6v @ 2 amp	4 11/16x3 1/8x6 5/8″	8	34.00	30.60	28.90
54 D 4436	73-13-115	150	10.8-31.4	4.0v to 13.0v @ 8 amp 8.8v to 27.8v @ 4 amp	4.1v to 14.5v @ 8 amp 9.5v to 32.9v @ 4 amp	6 13/16x4 3/8x5 7/8″	13	47.00	42.30	39.95
54 D 4437 X	73-13-122	225	10.1-30.1	3.6v to 13.0v @ 12 amp 8.0v to 27.5v @ 6 amp	3.8v to 14.6v @ 12 amp 8.8v to 31.5v @ 6 amp	6 13/16x4 3/8x7 5/8″	17	58.00	52.20	49.30
54 D 4438 K	73-13-130	300	10.2-30.8	3.5v to 13.3v @ 15 amp 7.8v to 27.8v @ 8 amp	3.6v to 14.6v @ 15 amp 8.4v to 31.3v @ 8 amp	6 13/16x4 3/8x8″	22	68.00	61.20	57.80
54 D 4439 K	73-13-145	450	9.4-30.2	3.6v to 13.0v @ 22.5 amp 8.2v to 27.5v @ 12 amp	3.8v to 14.7v @ 22.5 amp 8.8v to 31.3v @ 12 amp	6 13/16x4 3/8x8 3/16″	30	94.00	84.60	79.90

ELECTRO Industrial Power Supplies

SELECTION OF PRECISION ENGINEERED PRODUCTS



PS-3A PSR-500

REGULATED DC POWER SUPPLIES

- Line and Load Regulation • Very Low Ripple
- Voltage and Current Meters Monitor Output • Solid-State
- Primary and Secondary Overload Protection
- Wide Range of Output Voltage Adjustment

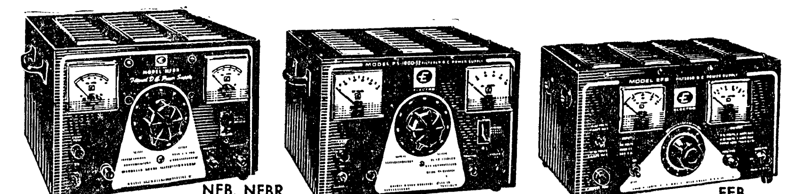
Solid-state regulated power supplies designed for critical applications requiring constant output voltages. Output voltage remains constant at setting regardless of load or AC supply voltage fluctuations. Each power supply listed has an adjustable output range with large, easy-to-read D'Arsonval meters to indicate voltage and current. Output terminals are isolated from cabinet for added protection. Unique circuitry and top-quality components ensure dependable, low-ripple performance and long trouble-free service. Input, 105-125 volts, 60 cycle AC. Durable enamel-finished steel cabinets. Complete with operating instructions, schematic, and performance characteristics.

MODEL PS-3A REGULATED POWER SUPPLY. Solid-state unit with special reference circuit. Output continuously variable. Line regulation ±0.2% over the range of 105-125 v. input. Load regulation 0.02% no-load to full load. Maximum ripple: 0.0005 volts. Ideal for transistor circuit work. Two-range meter. Front panel controls include: On-off switch; meter range switch; separate isolated plus, positive, negative and chassis terminals; 12 to 1 ratio potentiometer for precise output voltage adjustments. See table below for additional specifications.

NEW PSR-500 REGULATED SUPPLY SERIES. Delivers 500 watts of DC power, with line or load regulation of less than ±1%. Maximum ripple is less than 1%. Boasts modern solid-state circuitry for cooler operation. Silicon rectifiers and SCR regulation for dependable performance. Fused input, circuit-breaker output protection protects unit against damage caused by overloads. Series consists of three models with following output ranges: PSR-500-32, 2 to 32 volts; PSR-500-55 volts; PSR-500-125, 2 to 125 volts. See table below for specifications.

*No-load to full-load. †Output volts change for each amp of output current change.

Stock No.	Model No.	Output		Load Reg.* (V/A)†	Max. Ripple	Meters	DC Imp. (ohms)	Size (HWD)	Shpg. Wt., Lbs.	EACH
		Volts	Current							
54 D 4498	PS-3A	0-25	0-200ma	.02%	.002%	0-25V/200ma	.05	6¼x5x6″	3½	105.00
54 D 4463 Z	PSR-500-32	2-32	0-15A	Under 1%	Under 1%	0-50V, 0-25A	.02	9¾x14¼x14¼″	76	375.00
54 D 4464 Z	PSR-500-55	2-55	0-10A	Under 1%	Under 1%	0-75V, 0-10A	.06	9¾x14¼x14¼″	65	375.00
54 D 4468 Z	PSR-500-125	2-125	0.5A	Under 1%	Under 1%	0-150V, 0-5A	.25	9¾x14¼x14¼″	80	399.00



NFB, NFBR, PS-5, PS-5R, GFL, GL PS-1000-32 EFB, EFBR, EF

HEAVY-DUTY POWER SUPPLIES

- Variable DC Volts Output
- 2% Accuracy Meters
- Low Ripple • Rugged Construction

Non-regulated or semi-regulated power supplies designed for industrial applications. For production line use and industrial or educational laboratory work. Supply well-filtered DC up to 125 volts at 5 amps. For 117 volts, 50/60 cycle AC.

Model EF Dual Range DC Supply. Provides variable voltage 0-28 v. or 0-14 v., at 5 amps continuous, 10 amps intermittent load. Ripple less than 1%. Uses selenium rectifiers. Panel-mounted volt-meter and ammeter. See table below for full data.

Models EFB and EFBR. Designed to meet the very-low-ripple requirements of transistor work. Continuously variable voltage control. Selenium rectifiers. Employ chokes and capacitors in ripple filter. Model EFBR has standard EIA rack panel. Model EFB Federal Stock Number 6130-957-1450. See table below for full data.

Models NFB and NFBR. For continuous heavy-duty operation. Continuously variable output from 0 to 32 volts for loads to up to 15 amps. Ripple is less than 0.75% at 15 amps. Ripple filter circuit uses chokes and capacitors. Variable autoformer provides smooth voltage control. Bridge type silicon rectifiers. Model NFBR has standard EIA rack panel. Model NFBR Federal Stock Number, 6130-853-3127. See table below for complete specifications.

Models GFL, GFLR, and GL. Low-cost semi-regulated, low ripple-higher voltage supplies. Ideal for designing and testing DC appliances, telephone circuits, relays and solenoids, laboratory work. Continuously variable output 0-125 VDC to 5 amps. Ripple, 0.5%. Silicon rectifiers. Overload protection. Model GFLR has standard EIA rack panel. Model GL same as unit above but with less filtering. Ripple, 5% at 5 amps.

Models PS-5 and PS-5R. Specially designed for 48-volt applications. Delivers 550 watts well-filtered DC output continuously variable 0-55 volts. Ripple, 0.5% rms at 10 amps. Silicon rectifiers. Model PS-5R has standard EIA rack panel. See table listing below for complete specifications.

Models PS-1000-32 and PS-1000-55. Similar to Models NFB and PS-5, except twice the output power. Model PS-1000-32 delivers 0-32 VDC at 30 amps. Model PS-1000-55 delivers 0-55 VDC at 20 amps. See table for specifications.

*No-load to full-load unless otherwise specified. †Output volts change for each amp of output current change.

Stock No.	Mfr's Type	Output		Load Reg.* (V/A)†	Max. Ripple	Meters	DC Imp.* (ohms)	Size (HWD)	Shpg. Wt., Lbs.	EACH
		Volts	Amps							
54 D 4461 K	EF	0-28	0-5	0.9	1%	0-50V,	.9 (1-5A)			
		0-14	0-5	0.6	1%	0-6A	.6 (1-5A)	7x12x8½″	21	115.00
54 D 4452 K	EFB	0-32	0-4	1.25	0.1%	0-40/20V,	1.25			
		0-16	0-8	1.0	0.1%	0-10A	1.0	7x12x8½″	31	160.00
54 D 4454 Z	EFBR	0-32	0-4	1.25	0.1%	0-40V/20V,	1.25			
		0-16	0-8	1.0	0.1%	0-10A	1.0	8¾x19x8½″	34	180.00
54 D 4482 Z	GFL	0-125	0-5	1.5	0.5%	0-150V, 0-5A	1.5	9¾x14¼x4¼″	75	290.00
54 D 4483 Z	GFLR	0-125	0-5	1.5	0.5%	0-150V, 0-5A	1.5	10½x19x14¼″	79	315.00
54 D 4484 Z	GL	0-125	0-5	1.5	5.0%	0-150V, 0-5A	1.5	9¾x14¼x14¼″	65	270.00
54 D 4476 Z	NFB	0-32	0-15	0.3	0.75%	0-50V, 0-25VA	.3	9¾x14¼x14¼″	71	275.00
54 D 4477 Z	NFBR	0-32	0-15	0.3	0.75%	0-50V, 0-25A	.3	10½x19x14¼″	82	295.00
54 D 4480 Z	PS-5	0-55	0-10	0.8	0.5%	0-75V, 0-10A	.8	9¾x14¼x14¼″	60	275.00
54 D 4481 Z	PS-5R	0-55	0-10	0.8	0.5%	0-75V, 0-10A	.8	10½x19x14¼″	71	295.00
54 D 4469 Z	PS-1000-32	0-32	0-30	0.2	0.75%	0-50V, 0-30A	.2	9¾x14¼x14¼″	85	398.00
54 D 4472 Z	PS-1000-55	0-55	0-20	0.5	0.5%	0-75V, 0-25VA	.5	9¾x14¼x14¼″	85	398.00

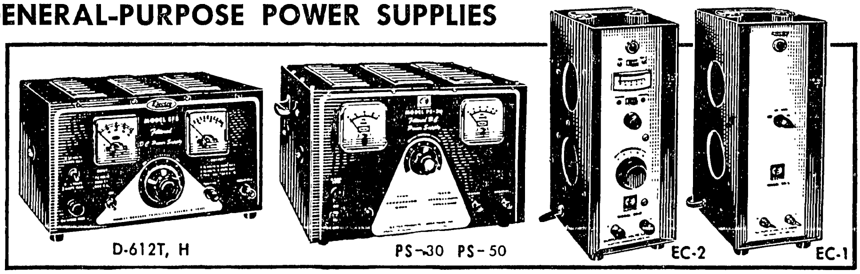
Heavy-Duty Power Supplies

ELECTRO

ELECTRO GENERAL-PURPOSE POWER SUPPLIES

- Adjustable Output
- Low Ripple Current
- Space-saving Design

These power supplies are rugged, versatile and reliable. Excellent for servicing transistorized mobile equipment; supplying power for research and development work in industry, schools and laboratories. For 117 volts, 50-60 cycle AC.



Model D-612T, Model H. D-612T boasts low-ripple output of less than 0.5% rms up to 5 amps—maximum output power available in this price range. Excellent for servicing transistor auto and portable radios, Citizens Band transceivers, battery charging, solenoids requiring up to 16 VDC. Model H is ideal as storage battery replacement in school laboratories and other high-current, low voltage applications. Both types have voltage and current output meters. See table below for specifications.

Models PS-30 and PS-50. Adjustable 12-volt units for servicing auto, truck, aircraft and marine communications equipment. Useful in industrial and educational labs, thermoelectric cooling, electro-plating applications. Low ripple at maximum current. Eight-position tap switch adjusts output voltage. Heavy overload capacity. PS-30 has 30-amp output capacity; PS-50, 50-amp output. Both units have voltage and current output meters. See table below for specifications.

Model EC-1. Low-cost source for school laboratories and industrial research, production testing, similar uses. Provides 12 volts DC at 5 amps output. Exceptionally well filtered—less than 0.5% rms ripple at 5 amps. Three-position voltage adjustment switch; off, low, medium and high. Patented EPL rectifier conduction cooling. Pilot light. Has convenient wing-nut output terminals. Space-saving design operates in vertical or horizontal position. See table below for specifications.

Model EC-2. Excellent for many applications in research and development work in industry, schools and laboratories. Can also be used for all automobile radio and transistor portable servicing. Low ripple—only 0.5% rms at 5 amps. Combination voltmeter/ammeter edge-view meter. Patented EPL conduction cooling. Output, 0 to 16 VDC. Can be used either vertically or horizontally. Meter function switch. Insulated binding posts. Pilot light, on-off switch. See table for specifications.

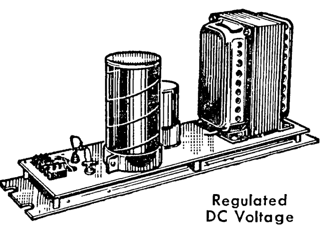
*No load to full-load unless otherwise specified. †Output volts change for each amp of output current change.

Stock No.	Mfr's Type	Output		Load Reg.* (V/A)†	Max. Ripple	Meters	DC Imp.* (ohms)	Size (HWD)	Shpg. wt.. Lbs.	EACH
		Volts	Amps							
54 D 4462 K	D-612T	0-16	0-10	.44 (3-10A)	.5%@5A	0-20V,	.44 (3-10A)			
		0-8	0-10	.3 (3-10A)	2%@10A	0-10A	.3 (3-10A)	7x12x8½"	20	72.50
54 D 4467 K	H	12 (adj.)	0-10	.23 (3-10A)	5%	0-20V,	.23 (3-10A)			
		6 (adj.)	0-20	.15 (3-20A)	5%	0-30A	.15 (3-20A)	7x12x8½"	29	99.50
54 D 4561	EC-1	12 (adj.)	0-5	1.4	.5%	None	1.4	10¾x4⅜x6½"	10	37.50
54 D 4560	EC-2	0-16	0-5	1.8	.5%	0-20V/10A	1.8	10¾x4⅜x6½"	9	49.95
54 D 4479 Z	PS-30	12 (adj.)	0-30	.12 (6-30A)	1%	0-20V, 0-50A	.27	9¾x14¼x14¼"	56	198.00
54 D 4499 Z	PS-50	12 (adj.)	0-50	.17	1%	0-20V-0-50A.17		9¾x14¼x14¼"	75	298.00

SOLA ELECTRIC S|B CVDC FIXED-OUTPUT POWER SUPPLIES

- DC Voltage Regulation to ±1%
- Overload Protection
- Dependable, Rugged

Designed for intermittent, variable or pulse loads. Excellent for controlling line-voltage fluctuations. Offers "Brute force" DC voltage regulation to ±1% for ±15% input voltage variation. Constant voltage transformer (CVT) provides automatic current limiting in case of overload; short-circuit protection. Overloads cannot damage power supply or equipment. Simple operation, no adjustments to make or maintenance to perform. Normal RMS ripple, 1%, except *½%. Negative or positive DC polarity. Typical efficiency, over 75%. Supplied with panel for standard 19" rack mounting. For 100-130 volts, 60 cycle AC input.

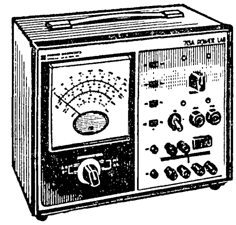


Regulated DC Voltage

Stock No.	Mfr's Type	Output Ratings			Wt., Lbs.	EACH		
		V.	A.	W.		1-4	5-9	10-24
54 D 4382 K	281513-1	6	10	60	27½	150.00	135.50	120.00
54 D 2625 Z	282123	6	15	90	38	175.00	157.50	140.00
54 D 4383 K	281514-1	12	5	60	21½	115.00	103.50	92.00
54 D 2631 Z	282124	12	10	120	31	150.00	135.00	120.00
54 D 2632 Z	281845	12	15	180	50	195.00	175.50	156.00
54 D 4384 K	281515-1	18	5	90	26	120.00	107.00	96.00
54 D 2633 Z	282125	18	10	180	45	175.00	157.50	140.00
54 D 2636 K	281024-1	24	6	144	30	145.00	130.50	116.00
54 D 2634 Z	282126	24	10	240	48	180.00	162.00	144.00
54 D 4385 Z	281203	24	15	360	64	250.00	225.00	200.00
54 D 2635 Z	282127	24	25	600	72	335.00	291.50	258.00
54 D 4386 Z	28626	28	8	224	41¼	180.00	162.00	144.00
54 D 2644 Z	282128	28	15	420	55	250.00	225.00	200.00
54 D 2637 K	281048	48	4	192	31½	135.00	121.50	108.00
54 D 4387 Z	281561	48	10	480	44½	185.00	166.00	148.00
54 D 2645 Z	282129	48	20	960	95	275.00	247.50	220.00
54 D 2638 U	281125	125	2	250	41¾	145.00	130.50	116.00
54 D 2639 U	281150	150	2	300	45¾	145.00	130.50	116.00
54 D 2648 U	281200	200	1	200	39	140.00	126.00	112.00
54 D 2641 Z	*281250	250	1	250	54	150.00	135.00	120.00

PRECISE NEW "POWER LAB"

- AC and DC Power Supply
- Battery Eliminator, Charger
- High-Current Variac
- Electroplating
- Hobbies

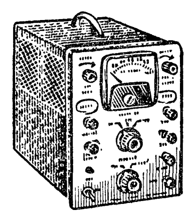


Model 713-A. Multi-function supply combines low and high voltage AC and DC supplies, wattmeter, voltmeter, AC and DC ammeter, isolation transformer. Applications include: high current ammeter; AC line wattmeter, ammeter, voltmeter or isolation transformer; high current AC supply. DC output: 0-15-30 v. full wave rect. at 10 amps; 110-180 v. at 0.75 amps. AC output: 0-24 v. at 20 amps; 90-140 v. isolated at 3 amps, 350 watts; 90-140 v. non-isolated at 10 amps, 1000 watts. Reads AC to 10 amps; DC to 20 amps; AC and DC volts to 200 v. and power to 1100 watts. 12x8½x5¼". For 110-120 volts, 60 cycle AC. Shpg. wt., 23 lbs.

54 D 4268 K..**89.95**

JACKSON VARIABLE REGULATED POWER SUPPLY

- Ripple Content Less Than 0.005%
- Has Heater, Negative and B+ Outputs
- Separate Negative and Regulated Controls



Model 607D. An excellent portable power supply furnishing heater, bias and regulated B+ voltages in one compact case. Regulated DC output: low range, 150 to 225 volts from 0 to 100 ma; high range, 225 to 300 volts from 0 to 100 ma. Negative DC output. 30 to 275 volts at no load; 15 to 150 volts with 20-ma maximum output. Heater supply: 6.3 volts at maximum of 3 amps. Ripple content at an output of 100 ma is less than 0.005%; less than 0.003% at 20 ma.

Has separate controls for adjustment of negative and regulated outputs. Built-in meter reads both negative and regulated outputs. Housed in sturdy metal portable case with chrome handle. Fused. 8¼x5⅜x10¼". Power consumption, 105 watts. For 105-125 v., 60 cycle AC. Shpg. wt., 12 lbs.

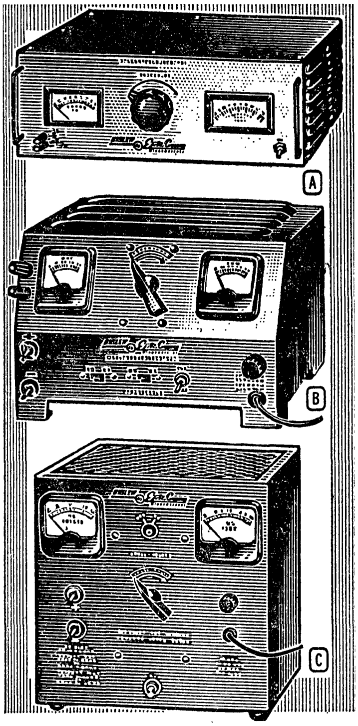
54 D 4515 K..**78.35**

Selected DC Power Supply Equipment

BASLER Electric Company

FILTERED DC POWER SUPPLIES

These Basler Power Supplies are Available only at Allied



[A] MODEL L6B POWER SUPPLY

- Variable from 0-32 Volts • Full 20 Amps Continuous
- Silicon Rectifiers—No Aging • Less than 1% Ripple

Heavy-duty silicon rectifier power supply. An economical DC source for radio receiver and transmitter maintenance, product development labs and the aircraft and aerospace industry. Output continuously adjustable from 0-32 volts for loads up to 20 amps, continuous. No-load to full-load regulation better than 13.6%, and 7% from 15% to 110% load. Ripple is less than 1% rms. Floating output—either terminal may be grounded. Large scale 2% accuracy voltmeter and ammeter, zero adjust. Ambient temperature range, —20° C to +50° C. Output terminals, two 5-way binding posts. Free convection cooling. Input circuit breaker type on-off switch. Input, 115 v., ±10%, 48-63 cps. Reconnectable for 230 v. Complete with 6-ft. line cord and 3-prong plug. Size (not including front handles), 6 7/16" h. x 17 1/2" w. x 13 1/2" d. Cabinet has louvered sides. Wt., 91 lbs.

54 D 4667 Z. 1 to 4..........Each 289.00

[B] MODEL 12RS6DF BENCH POWER SUPPLY

- For Automotive and Transistor Work • Solid-State Circuit
- Less than 2% Ripple • External Ammeter Terminals, Switch

Dual range solid-state power supply for automotive and transistor radio work and other uses. Two continuously variable output ranges. Range A: 0-16 v., up to 6 amps continuous or 12 amps intermittent; ripple voltage, less than 1/2 v. rms. Range B: 0-8 v., up to 10 amps continuous or 20 amps intermittent; ripple voltage, less than 2 v. rms. Floating output—either terminal may be grounded. Voltmeter and current meter, with zero adjust. Terminals and switch on front panel for connection of precision external ammeter for plating or other work. Automatic overload protection. Output terminals, studs and wing nuts. Size, 6 3/4x 10 3/8x5 1/2". For 110-120 v., 60 cycle AC, single phase. Steel cabinet has cooling louvers. 6-ft. cord and plug. Two-tone gray baked enamel finish. Wt., 12 1/2 lbs.

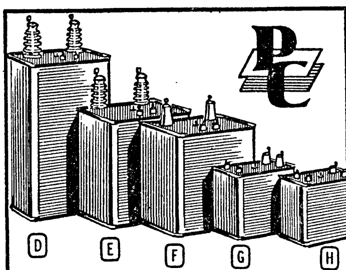
54 D 4668. 1-9...............Each 58.95

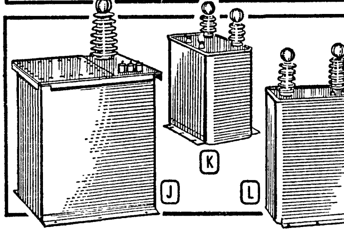
[C] MODEL 12RS14D BENCH POWER SUPPLY

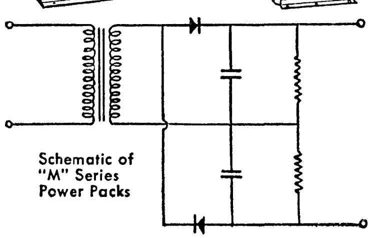
- For Radio, Vibrator, Lab Use • Solid-State Circuit
- Up to 25 Amps Current • Good Load Regulation

High current, solid-state regulated DC power supply. Provides large surge power for vibrator applications. 2 continuously adjustable output ranges. Range A: 0-16 volts, at up to 14 amps continuous, or 20 amps intermittent current. Range B: 0-8 volts, at up to 25 amps continuous or 40 amps intermittent. Load regulation on Range A is better than 2%, and ripple is less than 5% rms. Load regulation on Range B is better than 6%, and ripple is less than 12% rms. Voltmeter and ammeter, with zero adjust. Output is isolated from input line, and either terminal may be grounded. Input line fuse and output circuit breaker. Studs and wing nut output terminals. Convection cooling. Gray enamel finish. Size, 11x10 1/2x 8 1/4". For 110-120 v., 60 cycle AC, single phase. 6-ft. input cord. 35 lbs.

54 D 4669 U. 1-9.............Each 139.50







Schematic of "M" Series Power Packs

PLASTIC CAPACITORS "M" SERIES HIGH-VOLTAGE POWER PACKS

- DC Outputs from 2 to 75 Kilovolts
- Pass 50-Hour MIL-Q-151 Salt Spray Test
- Film-Type Long-Life Filter Capacitors
- Grain-Oriented Iron-Core Transformers

Compact, hermetically sealed units. Use latest techniques and advanced materials to achieve long operating life and small package size. Selenium rectifiers avoid failure—design life is 40,000 hours at +35°C, 25,000 hours at +65°C. Require no warm-up time, may be mounted in any position. Can be used with a primary voltage input control to adjust output voltage from zero to full rated voltage. Input, 0-118 v. AC, 50-500 cps. Output, 0-1.5, 0-5 or 0-10 ma DC to rated voltage. Ripple, 1% rms or 2.7% peak to peak. Ambient rating, −55°C to +85°C (output at +85°C limited to 4 ma) except, *0 to +50°C. Max. altitude. 10,000 feet operating, 50,000 feet non-operating except, †20,000 feet non-operating. Vibration, 10-55 cps with 0.06" excursion for 2 hours in each plane except ‡ for applications not subject to excessive shock. Oil-filled containers are primed and lacquered per MIL-L-7178. Terminals are steatite, solder-seal type with solder lugs, except types rated at 30 kilovolts DC and above have corona spheres with 11/64" dia. holes to accept banana plug. §Have single high-voltage terminal and are furnished to deliver positive output potential relative to ground. All have footed mtg. brackets except HV750-502M and HV375-103M.

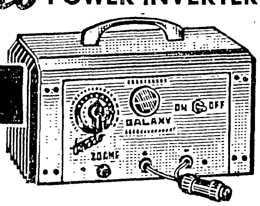
Stock No.	Mfr's Type	Fig.	Output		Case Size (HWD)	Wt. Lbs.	EACH
			Kv DC	Ma			
54 D 4645	HV20-502M	H	2	5	3 3/8x2 1/4x3 3/4"	2 1/2	51.10
54 D 4750	HV25-103M	G	2.5	10	3 3/4x2 1/4x3 3/4"	3 1/4	63.90
54 D 4646	HV50-502M	G	5	5	3 3/4x2 1/4x3 3/4"	3 1/4	64.50
54 D 4751 X	HV50-103M	F	5	10	5 7/8x3 3/4x4 9/16"	11	99.00
54 D 4752	HV100-152M	F	10	1.5	4 1/2x3 3/4x3 3/16"	4 3/4	73.50
54 D 4647 X	HV100-502M	F	10	5	5 7/8x3 3/4x4 9/16"	8 1/8	99.00
54 D 4753 X	HV100-103M	D	10	10	8x3 3/4x4 9/16"	12 1/8	144.00
54 D 4754	HV150-152M	F	15	1.5	5 1/2x3 3/4x3 3/16"	5 3/4	99.00
54 D 4648 X	HV150-502M	E	15	5	6 1/8x3 3/4x4 9/16"	12	125.50
54 D 4755 K	HV150-103M‡	K	15	10	8 1/2x4 11/16x6"	23	192.00
54 D 4756 X	HV200-152M	F	20	1.5	5 7/8x3 3/4x4 9/16"	8 1/8	103.70
54 D 4649 X	HV200-502M	D	20	5	8x3 3/4x4 9/16"	12 1/8	144.00
54 D 4757 K	HV250-103M‡*	L	25	10	12 3/16x5 5/8x7 11/32"	27	311.00
54 D 4758 X	HV300-152M	D	30	1.5	7 1/2x3 3/4x4 9/16"	10 1/2	182.50
54 D 4650 K	HV300-502M‡	K	30	5	8 1/2x4 11/16x6"	23	192.00
54 D 4759 Z	HV375-103M*†‡§	J	37	10	16 1/4x11 1/8x14 1/16"	85	682.00
54 D 4760 K	HV500-152M‡	K	50	1.5	8 1/2x4 11/16x6"	19	223.00
54 D 4651 U	HV500-502M‡*	L	50	5	12 3/16x5 5/8x7 11/32"	45	311.00
54 D 4761 U	HV750-152M‡*§	J	75	1.5	12 3/16x5 5/8x7 11/32"	45	352.50
54 D 4652 Z	HV750-502M§†‡*	J	75	5	16 1/4x11 1/8x14 1/16"	85	675.00

Order by Mail, Phone or Wire for Prompt Shipment at OEM Prices

Battery Chargers, Inverters, Power Supplies

terado POWER INVERTERS

SOLID-STATE

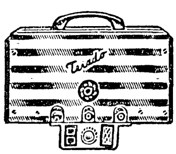


Converts 12 v. DC to 117 v. AC

Automatic frequency control maintains output within ½ cycle of 60 Hz for operating tape recorders, phonos. With heavy copper-clad steel case. Sizes: A—10¾x6x6"; B—12½x6x6"; C—10¾x13x7¼".

Stock No.	Mfr's Type	Capacity Cont	Capacity Intr.	Size	Wt. Lbs.	EACH
21 D 4499	50-205	140	175	A	10½	36.76
21 D 4500	50-170	125	150	A	10½	32.96
21 D 4501 K	50-129	275	300	B	20	74.25
21 D 4502 K	50-128	450	500	B	20	97.17
21 D 4383 K	50-201	150	175	A	20	100.51
21 D 4384 K	50-200	175	200	A	21	114.53
21 D 4382 K	50-191	275	300	A	30	153.13
21 D 4381 Z	50-202	550	600	C	60	307.77

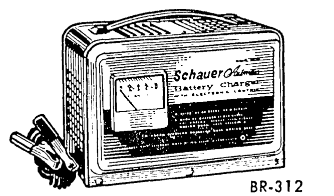
"SUPREME" DC-AC INVERTER



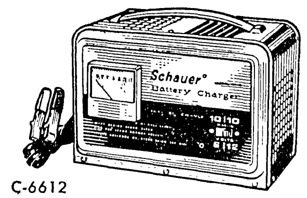
- Remote Control
- Variable Output
- Signal Light
- Frequency Filter

MODEL 50-153. For 12-volt DC only. 175 watts constant, 200 watts intermittent. Copper-clad ventilated steel case. With battery cables. Filtered for tape recorders. 10¾x6x6". Shpg. wt., 25 lbs.
21 D 4488 K.....................84.07

SCHAUER MFG. BATTERY CHARGERS



BR-312



C-6612

BR-312 6-AMP AUTOMATIC

- Completely Automatic
- Operates Without Attention
- No Danger of Overcharging

Operates completely without attention. Just connect battery to the charger and turn it on. Charging current automatically shuts off when battery is fully charged. Virtually eliminates danger of battery damage due to overcharging. After battery is fully charged, the charger automatically introduces a safe, "trickle" charge until turned off. Perfect for charging batteries of boats, cars and other equipment left unattended for long periods of time. For charging 12-volt batteries only. 6-amp rate. Ammeter. 9⅜x6x6½". For 110-120 volts, 60 cycle AC. Shpg. wt., 9 lbs.
19 D 4004...................19.95

C-6612 10-AMP DELUXE CHARGER

- For Both 6 and 12-Volt Batteries
- Powerful 10-Ampere Charging Rate
- Charges Batteries in 2-6 hours

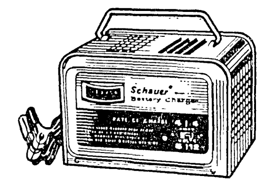
The most powerful Schauer battery charger, brings average 6 or 12 volt batteries to full charge in 2 to 6 hours. Boasts automatic circuit breaker, voltage selector switch and built-in ammeter. Steel case is 9⅜x6x6". For use on 110-120 v., 60 cycle AC. Wt., 11 lbs.
19 D 4010...................16.95

MODEL B-6612 6-AMP CHARGER (Not illustrated). Similar to Model C-6612 above except provides a charge at 6 ampere rate. For use on 110-120 volts, 60 cycle AC, with either 6 or 12 volt batteries. Shpg. wt., 9 lbs.
19 D 4009...................11.95

A-6612 4-AMP BATTERY CHARGER

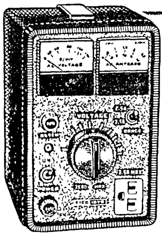
- Built-in Ammeter Shows Rate of Charge
- Automatic Circuit Breaker Protects Unit

Charges both 6 and 12-volt batteries at 4-ampere rate. Recharges average battery in 5 to 14 hours. Automatic circuit breaker. Voltage selector switch. Accurate, easy-to-read ammeter on front panel indicates exact rate of charge. Two-tone brushed aluminum and maroon panel. Well ventilated steel case with handle. Size, 7¼x4½x5". For 110-120 v., 60 cycle AC. Shpg. wt., 6¼ lbs.
19 D 4008..............................9.95

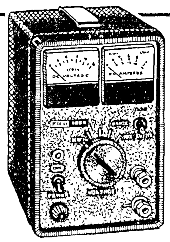


EICO AC, DC POWER SUPPLIES AND BATTERY CHARGERS . . . WIRED OR KIT

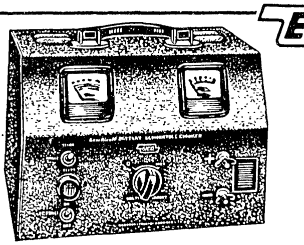
EICO NEW! 1030 Dual Output



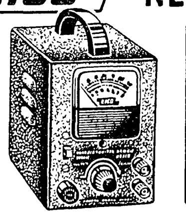
1064



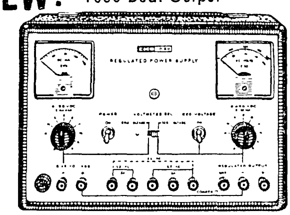
1078



1060



1020



MODEL 1064-W CHARGER-ELIMINATOR

Delivers low-ripple DC for transistorized equipment. Extra-heavy-duty selenium rectifiers. L-C filter has iron-core choke. Two DC voltage ranges: 0-8 v. at 10 amps cont., 20 amps intermit.; 0-16 v. at 6 amps cont., 10 amps intermit. Ripple: 0-16 v., 1% at 6 amps; 0-8 v., 4-5% at 10 amps. Separate ammeter and voltmeter. 8½x5¾x7½". For 105-125 v., 50-60 cycle AC, Wt., 15 lbs.
21 D 4119 .... 54.95
21 D 4120. Model 1064-K. kit form . . 45.95

MODEL 1078-W METERED AC SUPPLY

Lab-type supply with adjustable output of 0-140 v. AC, from 120 v. AC input; up to 7½ amps. Dual-range ammeter (0-2½, 0-7½ amps) can be switched while unit is under load. Variable autotransformer (toroidal core design) and ammeter fuse-protected. Steel case, 8½x5¾x7". For 105-125 v. 60 cycle AC. Wt., 16 lbs.
21 D 4123 .... 54.95
MODEL 1078-K. As above, but in kit form.
21 D 4124 ....42.95

MODEL 1030-W POWER SUPPLY

General-purpose power supply offers two independent, continuously variable regulated DC outputs, plus two unregulated filament voltages. Delivers 0-150 VDC at 2 ma and 0-400 VDC up to 150 ma. Regulated to ±0.33% or 0.3 v., whichever is higher, up to 100 ma. Ripple, less than 3 mv, rms. Filaments, 6.3 and 12.6 volts at 3 amps. DC voltmeter and DC milliammeter on front panel. Standby switch for "instant turn-on action." 13x8½x7". For 110-120 v., 50-60 cycle AC. 21 lbs.
21 D 4491 K.....................99.95
21 D 4492 K. 1030-K. Kit Form.....59.95

MODEL 1060-W BATTERY CHARGER-ELIMINATOR

Operates 6 or 12-volt auto radios, including transistor types. Has high-capacity electrolytic smoothing filter. Voltage adjustment is by variable transformer. Low Range: 0-8 volts at 10 amperes continuous, 20 amps intermittent; 1.5% ripple at 2 amps, 2% at 6 amps. High Range; 0-16 volts at 6 amperes continuous, 10 amperes intermittent; 0.3% ripple at 2 amps, 1.5% at 10 amps. Enclosed in steel case, 8¾x10½x7¾". For 105-125 volts, 60 cycle AC. Available, wired or in kit form. 19 lbs.
21 D 4125. Wired.....................49.95
21 D 4126. Model 1050-K. As above, in kit form.....................39.95

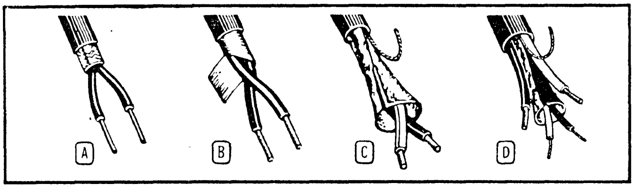
MODEL 1050-W BATTERY ELIMINATOR. For 6 and 12-volt tube-type radios. Same as 1060-W, but less smoothing filter. 15 lbs.
21 D 4127. Wired.....................38.95
21 D 4128. Model 1050-K. As above, in kit form.....................29.95

1020-W SOLID-STATE POWER SUPPLY

Transistorized DC power and bias supply has variable output to 30 v. Dual-range voltmeter (0-6, 0-30 v. DC). Max. cont. output: 150 ma, 0-12 v.; 200 ma, 12-24 v.; 330 ma, 24-30 v. .005% max. ripple, full load. 105-125 v. 60 cycle AC. Fused. 5x4x5½".
21 D 4121. Wt., 4½ lbs.................34.95
21 D 4122. Model 1020-K. Kit Form.25.95

Wire and Cable

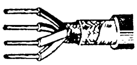
Exclusively at Allied—a complete line of top-quality Knight wire and cable. Includes new items and military types. Call or write Allied for types that are not listed. Contact the Allied facility nearest you for OEM information.



SHIELDED CABLES FOR INTERCOM AND POWER USE

Each of the types listed below is plastic insulated and jacketed. Stranded copper conductors, which are color coded. Fig. A is braided; Fig. B is spiral tinned copper shield. Fig. C and D is aluminum mylar wrapped shield, stranded ground wire. 350 WV. Applications include: in hooking together industrial intercom systems; in running cable from microphone to P.A. amplifier, or from P.A. amp. to second P.A. amp. Av. wt. per 100′, 3 lbs.

No. Cond.	Fig.	Cond. Size	Cap. Mmf	O. D.	50′ Spools Stock No.	50′ Spools EACH	100′ Spools Stock No.	100′ Spools EACH	500′ Spools Stock No.	500′ Spools EACH	1000′ Spools Stock No.	1000′ Spools EACH
2	A	#22	45	.200″	55 D 9877	4.10	55 D 9878	6.41	55 D 8304	29.49	55 D 8305 X	58.67
2	B	#22	40	.175″	55 D 9432	3.05	55 D 9433	3.75	55 D 9977	15.40	55 D 8306 X	30.80
2	B	#20	47	.200″	55 D 9438	3.91	55 D 9440	4.35	55 D 8307	18.40	55 D 8308 X	36.80
2	C	#22	24	.167″	55 D 9880	3.14	55 D 9442	4.79	55 D 9445	13.50	55 D 8309 X	27.00
2	C	#20	27	.196″	55 D 9476	3.85	55 D 9468	4.05	55 D 9471	17.10	55 D 8310 X	37.20
4	D	#22	34	.170″	....	....	55 D 8311	7.93	55 D 8312	32.73	55 D 8313 X	62.06

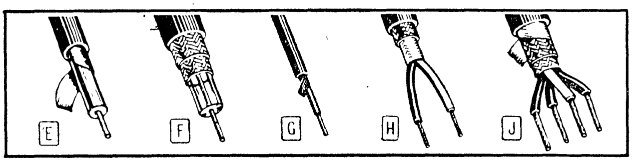


SHIELDED MULTI-CONDUCTOR RUBBER-JACKETED CONTROL CABLE

Flexible cable for control circuits, video and audio interconnecting, broadcast and studio use. Stranded tinned copper conductors with color-coded rubber insulation, copper shield, black rubber jacket overall.

No. of Cond.	Conductor Size	Conductor Stranding	Nom. O. D.	Wall Thick.	Jacket Thick.	25′ Spools Stock No.	25′ Spools EACH	50′ Spools Stock No.	50′ Spools EACH	100′ Spools Stock No.	100′ Spools EACH	250′ Spools Stock No.	250′ Spools EACH
2	#20	26x34	.270″	.020″	.035″	55 D 8726	4.16	55 D 8727	6.76	55 D 8728	10.65	55 D 8729	24.33
3	#20	26x34	.285″	.020″	.035″	55 D 8730	4.60	55 D 8731	7.36	55 D 8732	12.91	55 D 8733	30.88
4	#20	26x34	.305″	.020″	.035″	55 D 8753	5.05	55 D 8754	8.70	55 D 8755	15.37	55 D 8756	37.25
6	#20	26x34	.345″	.020″	.035″	55 D 8793	7.13	55 D 8794	13.20	55 D 8795	23.15	55 D 8796 X	56.80

MICROPHONE CABLES



Excellent quality plastic and rubber jacketed microphone cables with stranded tinned copper conductors. Plastic jacket types have low loss polyethylene insulation; rubber types have rubber insulation. All have either braided or *special tinned copper spiral shield. The spiral shield is ideal for pigtailing. Figure F is new low-capacitance type. Figure G is miniature high impedance type for lapel microphones, hi-fi interconnections, etc. Average shpg. wt. per 100′ spool, 6 lbs.

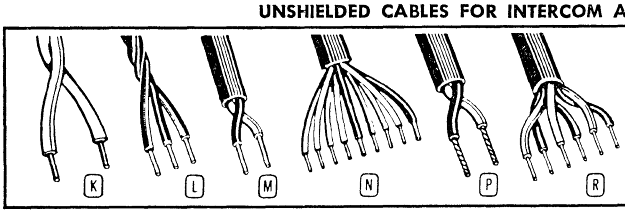
PLASTIC JACKET

No. Cond.	Fig.	Cond. Size	O. D.	Cap. Mmf	25′ Spools Stock No.	25′ Spools EACH	50′ Spools Stock No.	50′ Spools EACH	100′ Spools Stock No.	100′ Spools EACH	250′ Spools Stock No.	250′ Spools EACH
1*	E	#22	.155″	32	55 D 9420	1.48	55 D 9421	2.86	55 D 9422	3.75	55 D 8204	7.90
1	F	#24	.195″	15	55 D 8214	2.56	55 D 8215	5.07	55 D 8219	8.65	55 D 8220	19.65
1*	G	#24	.115″	45	55 D 9469	1.37	55 D 8223	2.62	55 D 8225	4.91	55 D 8229	12.23
2	H	#22	.250″	18	55 D 9423	3.54	55 D 9424	6.70	55 D 9425	7.00	55 D 8205	15.40

RUBBER JACKET

No. Cond.	Fig.	AWG and Stranding	O. D.	Cap. Mmf	25′ Spools Stock No.	25′ Spools EACH	50′ Spools Stock No.	50′ Spools EACH	100′ Spools Stock No.	100′ Spools EACH	250′ Spools Stock No.	250′ Spools EACH	500′ Spools Stock No.	500′ Spools EACH
1	J	#20 (26x34)	.230″	.60	55 D 7140	3.39	55 D 7456	6.02	55 D 8233	11.23	55 D 8234	27.09	55 D 8235 U	52.91
2	J	#20 (26x34)	.270″	.68	55 D 8264	3.42	55 D 7296	5.10	55 D 9427	9.55	55 D 9428	21.75	55 D 9429 U	43.50
3	J	#20 (26x34)	.285″	.49	55 D 8270	4.16	55 D 8271	5.95	55 D 8272	11.15	55 D 8273	25.90	55 D 8455 U	51.75
4	J	#20 (26x34)	.305″	.54	55 D 8280	4.62	55 D 8281	6.70	55 D 8282	12.60	55 D 8283	30.45	55 D 8453 U	59.25
6	J	#20 (26x34)	.345″	.40	55 D 7310	6.76	55 D 8250	12.52	55 D 9430	18.40	55 D 9431	45.00	55 D 8454 U	110.00

UNSHIELDED CABLES FOR INTERCOM AND SOUND SYSTEM USE



Cable specifically designed for applications involving industrial intercommunications systems as well as large scale public address systems. All of the types listed in the table below have both plastic insulation and jacket except *no jacket whatsoever. Designed for use indoors; resists most liquids, solvents, alkalis, plus oils and greases associated with use in plants, factories and offices. All conductors are cabled and color-coded for fast and convenient identification. †Indicates has paired conductors. Available in the following sizes: 100-ft.; 500 ft.; and 1000 ft. spools only. Av. wt. per 100′, 2½ lbs.

No. Cond.	Fig.	AWG and Stranding	O. D.	Wkg. Volts	100′ Spools Stock No.	100′ Spools EACH	500′ Spools Stock No.	500′ Spools EACH	1000′ Spools Stock No.	1000′ Spools EACH
†2(1 pr.)	K*	#22 (Solid)	.112″	350	55 D 9455	1.65	55 D 9456	5.40	55 D 9457	10.80
3	L*	#22 (Solid)	.132″	200	55 D 9874	3.20	55 D 8274	13.32	55 D 8284	23.78
†2(1 pr.)	M	#22 (Solid)	.150″	200	55 D 9453	2.77	55 D 9454	11.64	55 D 8298	22.70
3	N	#22 (Strd.)	.160″	200	55 D 9458	2.70	55 D 9459	10.75	55 D 9466	21.45
4	N	#22 (Strd.)	.200″	200	55 D 9854	3.40	55 D 8285	14.25	55 D 8286	28.50
5	N	#22 (Strd.)	.210″	200	55 D 9857	5.31	55 D 8236	22.15	55 D 8237 X	42.75
6	N	#22 (Strd.)	.210″	200	55 D 9860	8.42	55 D 7314 X	35.02	55 D 8239 X	67.53
8	N	#22 (Strd.)	.235″	200	55 D 9461	9.72	55 D 9462	44.78	55 D 7312 X	84.67
12	N	#22 (Strd.)	.260″	200	55 D 7260	11.80	55 D 7995 X	38.00	55 D 7721 X	113.50
2	P	#20 (Strd.)	.190″	350	55 D 9450	2.75	55 D 9451	10.65	55 D 9452	20.85
†6(3 pr.)	R	#22 (Solid)	.240″	350	55 D 9867	5.85	55 D 8300 X	45.05	55 D 8301 X	71.75
†8(4 pr.)	R	#22 (Solid)	.255″	350	55 D 8772	7.73	55 D 8302 X	45.71	55 D 8303 X	76.95

Wire and Cable

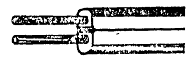
knight

TEST PROD WIRE

Rugged, rubber-covered wire designed to withstand extremely high voltages. Offers extreme flexibility and limpness to facilitate testing. Breakdown voltage, 12KV for 20 AWG; 20KV for 18 AWG. Wt. per 100', 2 lbs.

Color	AWG	Stranding	Insul. Thkns.	O. D.	Stock No.	100' Spools, EA.	Stock No.	500' Spools, EA.	Stock No.	1000' Spools, EA.
Red	#20	41x36	.046"	.137"	55 D 9474	3.28	55 D 9415	13.48	55 D 9472	26.40
Black	#20	41x36	.046"	.137"	55 D 9475	3.28	55 D 9463	13.48	55 D 9473	26.40
Red	#18	65x36	.045"	.144"	55 D 8314	3.60	55 D 8451	13.00	55 D 9481	26.00
Black	#18	65x36	.045"	.144"	55 D 8315	3.60	55 D 8452	13.00	55 D 9477	26.00

RUBBER (SP) AND PLASTIC (SPT) LAMP CORD



Consist of two parallel #18 stranded copper wires. All types are polarity-ribbed. U.L. Listed. Available in 25, 100, 500 and 1000 foot spools. Specify spool length desired from table below. Shpg. wt. per 100', 3 lbs.

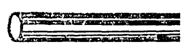
Type	Jacket	Color	25' Spools		100' Spools		500' Spools		1000' Spools	
			Stock No.	EACH	Stock No.	EACH	Stock No.	EACH	Stock No.	EACH
SP	Rubber	Brown	55 D 7983	1.40	55 D 7984	4.10	55 D 7986	19.25	55 D 7987 U	36.96
SP	Rubber	Black	55 D 7998	1.40	55 D 7999	4.10	55 D 8266	19.25	55 D 8267 U	36.96
SPT	Vinyl Plastic	Brown	55 D 7988	1.32	55 D 7989	3.83	55 D 7991	17.86	55 D 7992 U	35.11
SPT	Vinyl Plastic	Black	55 D 7978	1.32	55 D 7979	3.83	55 D 7981	17.86	55 D 7982 U	35.11
SPT	Vinyl Plastic	Gray	55 D 8275	1.32	55 D 8289	3.83	55 D 8347	17.86	55 D 8348 U	35.11
SPT	Vinyl Plastic	White	55 D 7993	1.32	55 D 7994	3.83	55 D 7996	17.86	55 D 7997 U	35.11

"JUKE BOX" SPEAKER CABLE

Type A has two parallel 24-gauge conductors, both stranded—one tinned, one bare. Plastic insulation. Has .058x.115" O.D. Available in gray or clear—specify color when ordering. Type B has two parallel 18-gauge conductors, 41x34 stranded. Has .115x.215" O.D. Available in brown, black, white or gray—specify color desired when ordering. Shpg. wt. per 100 feet: 24 gauge, 1 lb.; 18 gauge, 2½ lbs.

Type	Gauge	25' Spools		50' Spools		100' Spools		500' Spools		1000' Spools	
		Stock No.	EACH	Stock No.	EACH	Stock No.	EACH	Stock No.	EACH	Stock No.	EACH
A	24	55 D 9905 C	.66	55 D 9906 C	.98	55 D 9912 C	1.47	55 D 9913 C	4.90	55 D 9919 C	9.80
B	18	55 D 8316 C	1.49	55 D 8317 C	2.57	55 D 8318 C	4.05	55 D 8319 C	18.02	55 D 8320 CX	35.42

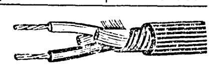
TINNED BUS-BAR WIRE



Highest quality, soft-drawn, solid copper wire. Designed for use with extremely high currents. Tinned for easy soldering. All types conform to Specification M-W-3861-ASTM B-33 QQ-W-343 Type S.

AWG Size	O. D.	100' Spools				1000' Spools			
		Stock No.	1-4	5-9	10-24	Stock No.	1-4	5-9	10-24
30	.010"	55 D 9193	.86	.78	.74	55 D 9194	3.35	3.03	2.86
26	.017"	55 D 7059	.72	.65	.61	55 D 7053	3.51	3.16	3.00
24	.020"	55 D 9183	.66	.66	.63	55 D 9149	3.40	3.35	3.30
22	.025"	55 D 9168	.67	.67	.67	55 D 9159	4.00	4.00	4.00
20	.032"	55 D 9173	.81	.76	.72	55 D 9161	5.50	5.50	5.50
18	.040"	55 D 9178	1.03	1.00	.94	55 D 9163	7.75	7.75	7.75
16	.050"	55 D 7416	1.50	1.45	1.37	55 D 7058	12.10	12.05	12.00
14	.064"	55 D 7453	2.22	2.22	2.22	....	....	....	....

FLEXIBLE RUBBER SERVICE CORD AND POWER CABLE

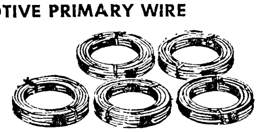


Quality constructed. Have black rubber jackets, rubber insulation. All are U.L. Listed. For appliances, power tools, as extension cords. Specify standard spool length desired. Shpg. wt., 100', 3 lbs.

U.L. Type	AWG Size	No. Cond.	Amps Cap.	Voltage Rating	O. D.	25' Spools		50' Spools		100' Spools		250' Spools	
						Stock No.	EACH	Stock No.	EACH	Stock No.	EACH	Stock No.	EACH
SV	18	2	5	300	.250"	55 D 8336	2.11	55 D 8337	3.51	55 D 8349	6.04	55 D 8352	14.37
SJ	18	2	7	300	.300"	55 D 8321	1.91	55 D 8322	3.77	55 D 8323	6.85	55 D 8324	16.23
SJ	18	3	7	300	.340"	55 D 8380	4.99	55 D 8381	7.39	55 D 8382	12.09	55 D 8383	29.20
SJ	18	4	7	300	.360"	55 D 8401	7.59	55 D 8402	13.71	55 D 8403	26.44	55 D 8404	56.73
SJ	16	2	10	300	.325"	55 D 8353	2.76	55 D 8354	5.01	55 D 8361	9.66	55 D 8723	21.99
SJ	16	3	10	300	.355"	55 D 8384	4.08	55 D 8438	7.76	55 D 8450	15.02	55 D 8566	33.56
SJ	16	4	10	300	.395"	55 D 9312	10.60	55 D 9318	16.80	55 D 9323	31.20	55 D 9324 U	76.00
S	14	2	15	600	.530"	55 D 8516	9.92	55 D 8517	16.19	55 D 8508	32.00	55 D 8509 U	72.77
S	14	3	15	600	.560"	55 D 8628	11.04	55 D 8629	21.14	55 D 8630	40.01	55 D 8724 U	90.71
S	14	4	15	600	.605"	55 D 9326	15.60	55 D 9328	29.20	55 D 9329	55.25	55 D 9333 U	131.50
S	12	2	20	600	.605"	55 D 8715	10.90	55 D 8716	21.10	55 D 8717 U	38.41	55 D 8718 U	92.32
S	12	3	20	600	.635"	55 D 9334	16.10	55 D 9335	29.40	55 D 9337 U	55.50	55 D 9358 U	134.00
S	10	2	25	600	.640"	55 D 8719	14.61	55 D 8720	25.76	55 D 8721 U	49.11	55 D 8722 U	117.93
S	10	3	25	600	.690"	55 D 8631	19.91	55 D 8632	35.17	55 D 8633 U	65.14	55 D 8725 U	160.01

ASSORTED AUTOMOTIVE PRIMARY WIRE

- Five 25-Ft. Coils
- Tough, Colorful Insulation
- Adds to Engine Appearance
- Resists Flame, Oil, Grease, Gas, Acid, Moisture

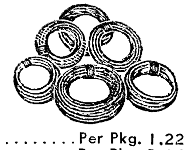


Handy assortment of primary wire for the auto and boating enthusiast. Includes five 25-foot coils of stranded No. 14 and No. 16 gauge wire in a wide variety of colors. Tough, colorful insulation permits quick identification of wiring systems. Resists flame, oil, gasoline, most solvents. High temperature stability; remains flexible at low temperatures. 1½ lbs.

55 D 9875. Five 25-Ft. Coils.................... Per Pkg. 3.56

Contact your nearest Allied office for information on OEM prices of hook-up wire from 10,000 feet and up, and audio and coaxial cable from 5000 feet and up.

ASSORTED RADIO-TV HOOK-UP WIRE



Stranded or solid copper wire—assorted gauges, colors and types of insulation. For hook-ups and a wide variety of applications: chassis wiring of radio and television receivers, transmitters, and other types of electronic equipment. Highly resistant to heat and moisture.

55 D 9344. Six 25-ft. Coils. Shpg. wt., 1 lb........... Per Pkg. 1.22
55 D 9345. Five 100-ft. Coils. Shpg. wt., 2 lbs........ Per Pkg. 3.14

ASSORTED TEFLON HOOK-UP WIRE

A variety of quality hook-up wire that is practically impervious to heat. Excellent for RF circuits. In assorted gauges; solid and striped colors of Type E and EE.

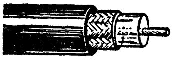
55 D 8167. Six 25-ft. Coils. Shpg. wt., 1 lb........... Per Pkg. 3.92
55 D 8168. Five 100-ft. Coils. Shpg. wt., 2½ lbs....... Per Pkg. 9.13

HEAVY INTERIOR TELEPHONE WIRE

No. 22 tinned copper wire with heavy insulation, glazed cotton weatherproof braid.

55 D 8897. 2-Conductor....100-ft. Coil 5.10

knight RG Cable and Magnet Wire



RG COAXIAL CABLES

MIL-C-17C POLYETHYLENE DIELECTRIC

Rugged, high-quality coaxial cable designed for use as RF transmission line, antenna lead-in, and test equipment lead. Low-loss polyethylene dielectrics. Meet MIL-C-17C specs. Outer plastic jackets impervious to most acids, oil, chemicals. †Push-on conn.

RG No.	Imp. Ohms	Cond. AWG	O. D.	Cap. Mmf	Uses Connector Series	Lbs. 100'	100' Spools Stock No.	EACH	500' Spools Stock No.	EACH	1000' Spools Stock No.	EACH
5B/U	50	16 (Solid)	.335"	29.5	N, C	8¼	55 D 8922 F	29.34	55 D 8923 F	133.50	55 D 8924 F	264.00
8/U	50	13 (7x21)	.405"	29.5	N, C, HN, and UHF	12	55 D 9300	12.40	55 D 9301 X	49.69	55 D 9302 X	99.30
8A/U	52	13 (7x21)	.415"	29.5	N, C, HN, and UHF	12	55 D 8925 F	14.74	55 D 8926 F	67.90	55 D 8927 F	133.50
9/U	50	13 (7x21)	.420"	30.0	N, C, HN and UHF	14	55 D 9847 F	31.15	55 D 9890 F	175.70	55 D 9891 F	288.00
9B/U	50	13 (7x21)	.430"	30	N, C, HN, and UHF	12½	55 D 8941 F	39.32	55 D 8942 F	175.20	55 D 8943 F	361.50
10A/U	52	13 (7x21)	.415"	29.5	N, C, HN, and UHF	13	55 D 8944 F	28.95	55 D 8945 F	132.75	55 D 9143 F	264.00
11/U	75	18 (7x26)	.405"	20.5	N, C, HN, and UHF	12	55 D 9303	11.25	55 D 9304 X	52.05	55 D 9305 X	90.60
11A/U	75	18 (7x26)	.412"	20.5	N, C, HN, and UHF	12	55 D 9142 F	12.80	55 D 8948 F	58.13	55 D 8949 F	112.50
13A/U	74	18 (7x26)	.430"	20.5	N, C, HN, and UHF	12	55 D 8955 F	24.73	55 D 8956 F	107.65	55 D 8957 F	211.50
14A/U	52	10 (Solid)	.558"	29.5	N, C, UHF	20½	55 D 8961 F	35.57	55 D 8962 F	156.75	55 D 8963 F	309.00
17A/U	52	5 (Solid)	.885"	29.5	N, C, HN, LC	47	55 D 8958 F	63.14	55 D 8959 F	304.00	55 D 8960 F	601.50
18A/U	52	5 (Solid)	.885"	29.5	N, C, HN, LC	53	55 D 8964 F	78.26	55 D 8965 F	367.50	55 D 8966 F	729.00
55B/U	53.5	20 (Solid)	.206"	28.5	TNC, BNC, BN, C, UHF	3½	55 D 8967 F	11.81	55 D 8968 F	59.25	55 D 8969 F	106.50
58/U	53.5	20 (Solid)	.195"	28.5	TNC, BNC, BN, C, UHF, N†	3	55 D 9307	4.60	55 D 9308 X	16.90	55 D 9309 X	33.80
58A/U	50	21 (19x33)	.199"	29.5	TNC, BNC, BN, C, UHF, N†	3	55 D 8970	5.40	55 D 8971	19.95	55 D 8972 U	39.90
58C/U	50	21 (19x33)	.199"	29.5	TNC, BNC, BN, C, UHF, N†	3	55 D 8973	6.31	55 D 8974 F	21.75	55 D 8975 F	50.93
59/U	73	22 (Solid)	.242"	21.0	TNC, BNC, BN, C, UHF, N, †	4½	55 D 9310	5.35	55 D 9311 X	18.60	55 D 9316 X	37.20
59A/U	75	.023CW	.246"	20.5	TNC, BNC, BN, C, UHF, N, †	4¼	55 D 8976 F	6.85	55 D 8977 F	32.25	55 D 8978 F	61.50
59B/U	75	.023CW	.246"	20.5	TNC, BNC, BN, C, UHF, N, †	4	55 D 8992 F	6.16	55 D 8993 F	23.65	55 D 8994 F	47.30
62/U	93	22CW	.250"	13.5	TNC, BNC, BN, C, UHF, N, †	4½	55 D 8995	5.85	55 D 8996 F	21.75	55 D 8997 F	43.50
62A/U	93	22CW	.249"	13.5	TNC, BNC, BN, C, UHF, N, †	4¼	55 D 9007 F	7.33	55 D 9008 F	30.38	55 D 9009 F	57.75
63B/U	125	22CW	.415"	10	N, C, HN, UHF	8	55 D 9010 F	15.48	55 D 9011 F	73.50	55 D 9012 F	144.00
71/U	95	22CW	.250"	13.5	N, C, HN and UHF	4½	55 D 9892 F	9.23	55 D 9893 F	39.45	55 D 9895 F	78.00
71A/U	95	22CW	.250"	13.5	N, C, HN and UHF	4½	55 D 9717 F	11.88	55 D 9718 F	54.00	55 D 9719 F	105.00
71B/U	93	22CW	.250"	13.5	TNC, BNC, BN, C, UHF, N, †	4½	55 D 9013 F	8.89	55 D 9014 F	40.59	55 D 9015 F	83.25
79B/U	125	22CW	.415"	10	N, C, HN, UHF	12	55 D 9016 F	26.41	55 D 9017 F	122.25	55 D 9018 F	241.50
108A/U	75	2—(7x28)	.235"	24.5	Twin	3	55 D 9841 F	15.50	55 D 9845 F	69.50	55 D 9846 F	132.00
174/U	50	7/34CW	.105"	30	BNC, Subminax 5116,-27	1½	55 D 9025	4.54	55 D 9026	18.23	55 D 9027	36.00
212/U	50	.0556S	.336"	29.5	N, C	9	55 D 9028 F	31.51	55 D 9029 F	145.50	55 D 9030 F	286.50
213/U	50	13 (7x21)	.412"	30.5	N, C, HN, UHF	10	55 D 9032 F	14.40	55 D 9033 F	61.50	55 D 9034 F	121.50
214/U	50	13 (7x21)	.432"	30.5	N, C, HN, UHF	13	55 D 9035 F	42.94	55 D 9036 F	180.75	55 D 9037 F	361.50
215/U	50	13 (7x21)	.412"	30.5	N, C, HN, UHF	14	55 D 9039 F	27.64	55 D 9040 F	135.00	55 D 9041 F	264.00
218/U	50	.195C	.880"	30	N, C, HN, LC	47	55 D 9042 F	63.14	55 D 9043 F	302.25	55 D 9044 F	601.50
219/U	50	.195C	.880"	30	N, HN	53	55 D 9045 F	78.62	55 D 9046 F	375.75	55 D 9047 F	748.50
223/U	50	.035S	.216"	30	TNC, BNC, BN, C, UHF, N, †	4	55 D 9048 F	16.17	55 D 9049 F	68.25	55 D 9050 F	133.50

LOW-LOSS FOAM COAXIAL CABLE

Ideal for use in community TV installations; offer much lower loss than regular RG coaxial cables. Cellular polyethylene reduces signal attenuation as much as 35%. RG59/U ideal as color-TV antenna lead-in. Bare copper, except *bare copperweld. †Push-on.

RG No.	Imp. Ohms	Cond. AWG	O. D.	Cap. Mmf	Uses Connector Series	Lbs. 100'	100' Spools Stock No.	EACH	500' Spools Stock No.	EACH	1000' Spools Stock No.	EACH
8/U	50	13 (7x21)	.405"	26	N, C, HN, UHF	12	55 D 9342 X	13.40	55 D 9343 X	61.49	55 D 9346 X	121.12
58/U	53.5	20 (Solid)	.195"	28.5	TNC, BNC, BN, C, UHF, N, †	3	55 D 9347	5.93	55 D 9348 X	24.15	55 D 9349 X	45.74
59/U	73	22 (Solid)*	.242"	21	TNC, BNC, BN, C, UHF, N, †	4½	55 D 9352	6.04	55 D 9353	24.58	....	....

MIL-C-17C TEFLON DIELECTRIC COAXIAL CABLE

RG No.	Imp. Ohms	Conductor AWG	O. D.	Cap. Mmf	Uses Conductor Series	Lbs. 100'	50' Spools Stock No.	EACH	100' Spools Stock No.	EACH
141/U	50	199 (Solid)	.195"	29	TNC, BNC, N, C, UHF, Push-on	4	55 D 9320	26.26	55 D 9321	50.82
178B/U	50	30 (7x28)	.072"	29	Subminax	1	55 D 9996	7.70	55 D 9670	13.00
180B/U	95	30 (7x38)	.142"	15	BNC, Subminax, TNC	1½	55 D 9997	18.60	55 D 9669	33.88
187/U	75	7x38	.110"	19.3	BNC, Subminax 5116, 27	1¼	55 D 9330	13.86	55 D 9331	24.49
188/U	50	7x.0067	.110"	29	BNC, Subminax 5116, 27	1½	55 D 9336	13.78	55 D 9338	23.10
188A/U	50	26 (7x.0067)	.106"	29	BNC, Subminax	1¼	55 D 9998	13.85	55 D 9672	22.80
195/U	95	7x38	.155"	15.2	BNC, TNC, Subminax 5116, 27	2½	55 D 9340	24.64	55 D 9341	46.20
196A/U	50	30 (7x38)	.076"	29	Subminax	8	55 D 9999	9.62	55 D 9671	17.65
115A/U	50	7x21	.415"	29.5	N, C, HN	15.9	55 D 9840F	2.31 PER FOOT ONLY		

HIGH-GRADE MAGNET WIRE

HEAVY FORMVAR MAGNET WIRE ON 1-LB. SPOOLS

Copper magnet wire covered with tough, abrasion-resistant Formvar. Takes up less winding space, provides infinite moisture resistance. Impervious to petroleum solvents; resists acids and chemicals.

Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
55 D 8258	20	313	2.57	55 D 8834	31	4410	3.08
55 D 8259	21	397	2.60	55 D 8836	32	4900	3.23
55 D 8265	22	501	2.17	55 D 8838	33	6441	3.73
55 D 8341	23	628	2.70	55 D 8863	34	7950	3.77
55 D 8365	24	798	2.73	55 D 8872	35	9002	5.08
55 D 8371	25	194	2.77	55 D 8873	36	12,800	5.10
55 D 8661	26	1200	2.83	55 D 8876	37	15,898	7.08
55 D 8751	27	1583	2.93	55 D 8884	38	20,000	7.15
55 D 8770	28	1999	2.93	55 D 8946	39	25,188	8.16
55 D 8771	29	2780	3.00	55 D 8947	40	31,700	8.32
55 D 8785	30	3200	3.05	....			

HEAVY FORMVAR MAGNET WIRE ON ½-LB. SPOOLS

55 D 8807	20	106	1.46	55 D 8814	27	791	1.60
55 D 8808	21	198	1.46	55 D 8815	28	999	1.60
55 D 8809	22	250	1.49	55 D 8816	29	1390	1.62
55 D 8810	23	314	1.52	55 D 8817	30	1600	1.63
55 D 8811	24	399	1.54	55 D 8818	31	2205	1.65
55 D 8812	25	470	1.56	55 D 8819	32	2450	1.68

HEAVY FORMVAR MAGNET WIRE ON ½-LB. SPOOLS (Cont'd)

Stock No.	Size	Feet	EACH	Stock No.	Size	Feet	EACH
55 D 8813	26	600	1.57	55 D 8820	33	3220	2.09
55 D 8821	34	3875	2.11	55 D 8825	38	10,000	3.47
55 D 8822	35	4501	2.60	55 D 8826	39	12,594	4.31
55 D 8823	36	6400	2.62	55 D 8830	40	15,850	4.37
55 D 8824	37	7949	3.45	....			

PLAIN ENAMELED MAGNET WIRE ON ½-LB. SPOOLS

Enamel-insulated, soft-drawn copper wire is ideal for all coil-winding applications—transformers, RF coils, chokes, etc.

55 D 7569	18	101	1.31	55 D 7707	28	1013	1.52
55 D 7581	20	159	1.31	55 D 7708	30	1602	1.52
55 D 9885	22	253	1.34	55 D 7709	32	2543	1.83
55 D 9884	24	402	1.37	55 D 7792	34	4042	2.00
55 D 7695	26	640	1.45	55 D 7885	36	6410	2.29

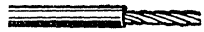
PLAIN-ENAMELED MAGNET WIRE ON 1-LB. SPOOLS

55 D 9978	18	198	2.57	55 D 9991	28	1999	2.92
55 D 9979	20	313	2.57	55 D 9992	30	3200	3.05
55 D 9986	22	397	2.60	55 D 9993	32	4000	3.51
55 D 9989	24	798	2.63	55 D 9994	34	7950	3.85
55 D 9990	26	1200	2.70	55 D 9995	36	12,800	4.47

Hook-Up, Lead and Automotive Wire **knight**

MANUFACTURED TO RIGID INDUSTRIAL AND MILITARY SPECIFICATIONS

MIL-W-76B HOOK-UP WIRE



Type MW. Uncovered. Rated 1000 volts. +80°C. Tinned copper conductor, polyvinylchloride insulation. Wall thickness, .016". In brown, red, orange, yellow, green, white, black, blue, gray and violet—specify color.

Conductor AWG	Mil Type	Nom. O. D.	25' Spools Stock No.	25' Spools EACH	100' Spools Stock No.	100' Spools EACH	1000' Spools Stock No.	1000' Spools EACH
#24 (7x32)	MWC24(7)U	.058"	55 D 9370 C	.66	55 D 9371 C	1.17	55 D 9372 C	6.25
#24 (solid)	MWC24(1)U	.055"	55 D 9367 C	.66	55 D 9368 C	1.14	55 D 9369 C	5.02
#22 (7x30)	MWC22(7)U	.065"	55 D 9723 C	.66	55 D 9724 C	1.26	55 D 9725 C	7.59
#22 (solid)	MWC22(1)U	.059"	55 D 9376 C	.54	55 D 9735 C	1.17	55 D 9736 C	6.10
#20 (10x30)	MWC20(10)U	.073"	55 D 9726 C	.65	55 D 9727 C	1.34	55 D 9728 C	8.44
#20 (solid)	MWC20(1)U	.066"	55 D 9377 C	.57	55 D 9737 C	1.22	55 D 9738 C	7.36
#18 (16x30)	MWC18(16)U	.080"	55 D 9729 C	.72	55 D 9730 C	1.63	55 D 9731 C	13.80
#18 (solid)	MWC18(1)U	.074"	55 D 9373 C	.71	55 D 9374 C	1.43	55 D 9375 C	12.49
#16 (19x29)	MWC16(19)U	.091"	55 D 9732 C	.83	55 D 9733 C	2.20	55 D 9734 C	16.72

MIL-W-16878/D TEFLON HOOK-UP WIRE

Type E. 600-volt. +200°C. Silver-plated copper conductor; Teflon insulation. Resistant to heat, moisture, solvents. In black, white, brown, red, orange, yellow, blue, green, gray, violet—specify color.

SPECIFICATIONS

Gauge	Stranding	O. D.	Gauge	Stranding	O. D.
#32	(7x40)	.029"	#22	(7x30)	.052"
#30	(7x38)	.032"	#22	(19x34)	.052"
#28	(7x36)	.035"	#20	(7x28)	.061"
#26	(7x34)	.041"	#20	(19x32)	.061"
#24	(7x32)	.046"	#18	(19x30)	.070"
#24	(19x36)	.046"	#16	(19x29)	.080"

Gauge Strand	25' Spools Stock No.	25' Spools EA.	100' Spools Stock No.	100' Spools EA.	1000' Spools Stock No.	1000' Spools EACH
32(7)	55 D 9400 C	2.97	55 D 9401 C	8.32	55 D 9402 C	52.75
30(7)	55 D 9403 C	2.05	55 D 9404 C	5.19	55 D 9405 C	45.53
28(7)	55 D 9747 C	2.05	55 D 9748 C	5.25	55 D 9436 C	46.45
26(7)	55 D 9749 C	2.06	55 D 9750 C	5.48	55 D 9437 C	48.79
24(7)	55 D 9751 C	2.37	55 D 9752 C	5.39	55 D 9439 C	48.54
24(19)	55 D 9406 C	2.37	55 D 9407 C	6.10	55 D 9408 C	55.19
22(7)	55 D 9753 C	2.53	55 D 9754 C	5.64	55 D 9441 C	51.96
22(19)	55 D 9409 C	2.66	55 D 9411 C	6.96	55 D 9413 C	60.03
20(7)	55 D 9755 C	2.97	55 D 9756 C	6.96	55 D 9444 C	59.86
20(19)	55 D 9414 C	2.97	55 D 9416 C	7.85	55 D 9417 C	69.64
18(19)	55 D 9757 C	3.51	55 D 9758 C	10.60	55 D 9448 C	95.91
16(19)	55 D 9418 C	4.57	55 D 9419 C	12.58	55 D 9434 C	109.45

MIL-W-16878/D VINYL HOOK-UP WIRE

Type B. 600-volt. +105°C. Tinned copper conductor; vinyl insulation. Excellent dielectric characteristics. In black, white, brown, red, orange, yellow, blue, green, gray and violet—specify color.

Conductor AWG	Nom. O. D.	Wall Thick	100' Spools Stock No.	100' Spools EACH	1000' Spools Stock No.	1000' Spools EACH
#32 (7x40)	.028"	.009"	55 D 9378 C	1.54	55 D 9385 C	11.21
#30 (7x38)	.032"	.009"	55 D 9386 C	1.23	55 D 9387 C	9.01
#28 (7x36)	.034"	.009"	55 D 9388 C	1.16	55 D 9389 C	7.81
#26 (7x34)	.038"	.010"	55 D 9392 C	1.29	55 D 9393 C	9.42
#24 (7x32)	.044"	.010"	55 D 9394 C	1.32	55 D 9395 C	8.15
#22 (7x30)	.051"	.010"	55 D 9739 C	1.31	55 D 9740 C	8.86
#20 (7x28)	.058"	.010"	55 D 9741 C	1.49	55 D 9742 C	9.59
#18 (19x30)	.068"	.010"	55 D 9743 C	2.53	55 D 9744 C	15.52
#16 (19x29)	.077"	.010"	55 D 9745 C	1.95	55 D 9746 C	15.55

MIL-W-16878D POLYVINYLCHLORIDE HOOK-UP WIRE

Type D. 3000-volt. +105°C. Stranded copper. White only.

Conductor AWG	25' Spools Stock No.	25' Spools EA.	100' Spools Stock No.	100' Spools EA.	1000' Spools Stock No.	1000' Spools EACH
#14 (19x27)	55 D 7250	1.76	55 D 7251	4.31	55 D 7252	37.91
#12 (19x25)	55 D 7253	2.33	55 D 7254	6.10	55 D 7255 U	55.53
#10 (36x26)	55 D 7256	3.08	55 D 7257	8.29	55 D 7258 U	73.01
#8 (133x29)	55 D 7259	7.99	55 D 7274	22.13	55 D 7268 Z	201.59
#6 (133x27)	55 D 7269	9.30	55 D 7270	24.15	55 D 7271 Z	225.30

STRIPED HOOK-UP WIRE

Color-striped MIL-W-76B Type MW and MIL-W-16878/D. Types B and E are carried in stock in both 100 and 1000 foot spools, Type D in 500 and 1000 foot spools. White insulation with single color stripe. Available in these combinations: white/black; white/brown; white/red; white/orange; white/yellow; white/green; white/blue; white/purple; and white/gray—specify color combination when ordering.

MIL-W-76B TYPE MW STRIPED HOOK-UP WIRE

Conductor AWG	MIL Type	100' Spools Stock No.	100' Spools EA.	1000' Spools Stock No.	1000' Spools EACH
#24 (7x32)	MWC-24(7)	55 D 9662 C	1.31	55 D 9663 C	6.88
#24 (solid)	MWC-24(1)	55 D 9656 C	1.25	55 D 9657 C	5.53
#22 (7x30)	MWC-22(7)	55 D 9800 C	1.39	55 D 9664 C	8.35
#22 (solid)	MWC-22(1)	55 D 9804 C	1.29	55 D 9658 C	6.71
#20 (10x30)	MWC-20(10)	55 D 9801 C	1.48	55 D 9665 C	9.29
#20 (solid)	MWC-20(1)	55 D 9805 C	1.34	55 D 9659 C	8.10
#18 (16x30)	MWC-18(16)	55 D 9802 C	1.80	55 D 9666 C	15.18
#18 (solid)	MWC-18(1)	55 D 9660 C	1.57	55 D 9661 C	14.26
#16 (19x29)	MWC-16(19)	55 D 9803 C	2.42	55 D 9667 C	18.40

MIL-W-16878/D TYPE B STRIPED HOOK-UP WIRE

Conductor AWG	MIL Type	100' Spools Stock No.	100' Spools EA.	1000' Spools Stock No.	1000' Spools EACH
#24 (7x32)	B-24	55 D 9668 C	1.46	55 D 9679 C	8.96
#22 (7x30)	B-22	55 D 9806 C	1.49	55 D 9681 C	9.75
#20 (7x28)	B-20	55 D 9807 C	1.66	55 D 9686 C	10.55
#18 (19x30)	B-18	55 D 9808 C	2.77	55 D 9687 C	17.08
#16 (19x29)	B-16	55 D 9809 C	2.82	55 D 9688 C	19.50

MIL-W-16878/D TYPE D STRIPED HOOK-UP WIRE

Conductor AWG	MIL Type	500' Spools Stock No.	500' Spools EACH	1000' Spools Stock No.	1000' Spools EACH
#14 (19x27)	D-14	55 D 7239 CF	17.50	55 D 7289 CF	41.70
#12 (19x25)	D-12	55 D 7240 CF	30.40	55 D 7291 CF	61.09
#10 (36x26)	D-10	55 D 7241 CF	41.40	55 D 7293 CF	80.31
#8 (133x29)	D-8	55 D 7237 CF	110.50	55 D 7295 CF	221.74
#6 (133x27)	D-6	55 D 7238 CF	120.50	55 D 7273 CF	247.83

MIL-W-16878/D TYPE E STRIPED HOOK-UP WIRE

Conductor AWG	MIL Type	100' Spools Stock No.	100' Spools EACH	1000' Spools Stock No.	1000' Spools EACH
#24 (7x32)	E-24	55 D 7404 CF	6.70	55 D 7405 CF	61.49
#22 (7x30)	E-22	55 D 7415 CF	6.95	55 D 7502 CF	63.80
#20 (7x28)	E-20	55 D 7443 CF	8.30	55 D 7444 CF	71.89
#18 (19x30)	E-18	55 D 7468 CF	11.98	55 D 7469 CF	107.77
#16 (19x29)	E-16	55 D 7500 CF	14.03	55 D 7501 CF	121.31

AUTOMOTIVE AND IGNITION WIRE

A B C

STRANDED SINGLE-CONDUCTOR PRIMARY WIRE

Type G.P.T. S.A.E. Type II. Single-conductor primary wire for automotive applications. Av. wt. per 100', 2½ lbs.

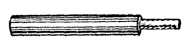
Color	Conductor AWG	Fig.	100' Spools Stock No.	100' Spools EACH	500' Spools Stock No.	500' Spools EACH
Brown	#16 (19x29)	A	55 D 8615	2.42	55 D 8608	11.81
Green	#14 (19x27)	A	55 D 8616	3.10	55 D 8619	15.32
Red	#12 (19x25)	A	55 D 8617	4.31	55 D 8620	21.13
Black	#10 (19x23)	A	55 D 8618	6.08	55 D 8621 X	30.18

7 MM IGNITION WIRE

Single-conductor, stranded copper wire. Fig. B type has polyvinylchloride insulation; Fig. C, rubber and neoprene. 9 lbs.

Clear	#20 Strd.	B	55 D 8513	8.59	55 D 8515	37.96
Red	#20 Strd.	B	55 D 8461	8.59	55 D 8462	37.96
Black	#16 Strd.	C	55 D 8603	9.47	55 D 8514	43.20

105° 600v. UL CSA "TEW" LEAD WIRE

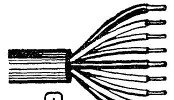


1/32" vinyl insulation. For appliances, motors, ballasts, other similar applications. Specify brown, red, orange, yellow, green, white, black, blue, gray or violet. *Topcoat conductor.

Conductor AWG	Nom. O. D.	100' Spools Stock No.	100' Spools EACH	1000' Spools Stock No.	1000' Spools EACH
#22 (7x30)	.095"	55 D 7280 C	1.40	55 D 7282 C	10.25
#22 (7x30)*	.095"	55 D 7332 C	1.90	55 D 7334 C	11.48
#20 (10x30)	.102"	55 D 7322 C	1.94	55 D 7362 C	11.70
#20 (10x30)*	.102"	55 D 7372 C	2.14	55 D 7433 C	13.05
#18 (16x30)	.112"	55 D 7473 C	2.02	55 D 7493 C	15.09
#16 (26x30)	.126"	55 D 7509 C	2.60	55 D 7511 C	20.65

Knight Striped Hook-up wire is available in other color combinations and lengths from 10,000 feet. Audio and coaxial cable is available from 5000 feet. Contact your nearest Allied facility for delivery information and OEM prices.

Wire and Cable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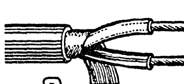
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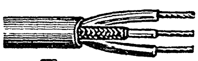
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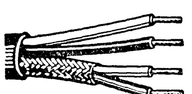
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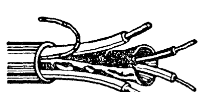
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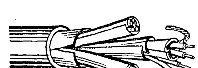
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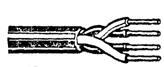
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M

[A] MULTIPLE-CONDUCTOR CABLE (Not Paired)

Conductors are made of flexible, tinned copper stranded wire, with color-coded vinyl plastic insulation. Conductors are cabled together and enclosed overall in a chrome-vinyl plastic jacket. Waterproof. Weather, oil and gasoline-resistant. Also tear-resistant. Easily stripped for use.

Mfr's Type	Cond.	AWG (Stranding)	O. D.	100' Spool Stock No.	100' Spool EACH	500' Spool Stock No.	500' Spool EACH	1000' Spool Stock No.	1000' Spool EACH
8443	3	22 (7x30)	.150″	55 D 7498	2.70	55 D 7499	10.75	55 D 7007	21.45
8444	4	22 (7x30)	.168″	55 D 7504	3.40	55 D 7506	14.25	55 D 7026 U	28.50
8445	5	22 (7x30)	.180″	55 D 7510	4.20	55 D 7515	17.25	55 D 7028 U	35.00
8446	6	18, 22 (16x30)	.222″	55 D 7524	6.15	55 D 7526	26.65	55 D 7528 U	53.30
8447	7	18, 22 (16x30)	.246″	55 D 7529	6.85	55 D 7531 U	30.30	55 D 7004 U	60.60
8448	8	18, 22 (16x30)	.250″	55 D 7536	7.35	55 D 7537 U	33.00	55 D 7005 Z	66.00
8449	9	18, 22 (16x30)	.261″	55 D 7539	8.05	55 D 7543 U	36.75	55 D 7006 Z	73.50
8456	10	22 (7x30)	.260″	55 D 7544	8.10	55 D 7545 U	37.15	55 D 7546 U	74.30
8457	12	22 (7x30)	.260″	55 D 7547	8.55	55 D 7317 X	39.75	55 D 7318 Z	79.50
8458	15	22 (7x30)	.320″	55 D 8488	15.00	55 D 8489 X	66.75	....	....
8459	25	22 (7x30)	.370″	55 D 8405	23.25	55 D 8406 X	105.00	....	....
8465	5	18 (16x30)	.272″	55 D 7819	7.20	55 D 7319 U	33.40	55 D 7320 Z	66.80
8466	12	18 (16x30)	.402″	55 D 8408	19.90	55 D 8409 U	93.00	....	....
8467	7	18 (16x30)	.320″	55 D 7553	10.05	55 D 7321 U	46.15	55 D 7324 Z	92.30
8468	15	18 (16x30)	.490″	55 D 8411	25.90	55 D 8412 X	120.00	55 D 8413 Z	240.00
8469	9	18 (16x30)	.375″	55 D 7554	13.50	55 D 7325 X	60.00	55 D 7326 Z	120.00
8620	4	16 (19x29)	.375″	55 D 8414	9.75	55 D 8415 X	45.00	55 D 8416 X	90.00
8621	7	16 (19x29)	.455″	55 D 8417	16.35	55 D 8418 X	74.65	....	....
8622	12	16 (19x29)	.600″	55 D 8420 U	27.75	55 D 8421 X	130.50	55 D 8422 X	261.00
8623	15	16 (19x29)	.650″	55 D 8423 U	39.60	....	....	....	....
8624	19	16 (19x29)	.715″	55 D 8426 U	45.75	....	....	....	....
8627	4	14 (19x27)	.495″	55 D 8429	16.50	....	....	....	....
8628	7	14 (19x27)	.630″	55 D 8432	21.25	....	....	....	....
8629	12	14 (19x27)	.770″	55 D 8435 X	48.00	....	....	....	....

[B] TWO AND THREE-CONDUCTOR SHIELDED CABLE

For P.A. and intercom use. All have tinned copper conductors. Types 8719, 8720, 8641, and 8760 through 8772 have polyethylene insulated conductors, aluminum "Mylar"-wrapped shield, stranded tinned copper ground wire. Type 8208 has rubber insulated conductor with cotton or paper wrap, copper shielded; *vinyl insulated conductors. Type 8735 is plastic insulated and copper shielded. All cables have chrome vinyl jacket, except 8779 braided tinned shield. †Spiral-wrapped tinned shield.

Mfr's Type	Cond.	AWG (Stranding)	O. D.	100' Spool Stock No.	100' Spool EACH	500' Spool Stock No.	500' Spool EACH	1000' Spool Stock No.	1000' Spool EACH
8208	2	18 (16x30)	.255″	55 D 7555	6.90	55 D 7315 X	30.30	55 D 7316 U	60.60
*†8731	3	22 Solid	.178″	....	....	55 D 7559	16.35	55 D 7560 U	32.70
8735	3	22 (7x30)	.199″	55 D 7563	4.95	55 D 7565	21.40	55 D 7566 U	42.80
8760	2	18 (16x30)	.222″	....	....	55 D 7398	20.25	55 D 7399 U	40.50
8641	2	24 (7x32)	.160″	55 D 7676	3.30	55 D 7677	13.20	....	....
8761	2	22 (7x30)	.167″	....	....	55 D 7568	13.50	55 D 7400	27.00
8762	2	20 (7x28)	.196″	55 D 7575	4.05	55 D 7577	17.10	55 D 7420 U	34.20
8770	3	18 (16x30)	.236″	....	....	55 D 7401 U	26.65	55 D 7402 U	53.30
8771	3	22 (7x30)	.175″	....	....	55 D 7442	16.95	55 D 7403 X	33.90
8772	3	20 (7x28)	.200″	....	....	55 D 7489	21.40	55 D 7406 U	42.80
8719	2	16 (19x29)	.274″	....	....	55 D 8491 U	29.65	....	....
*8779	2	16 (19x29)	.225″	....	....	55 D 7428	31.15	55 D 7429 U	62.30
8720	2	14 (19x27)	.340″	....	....	55 D 8493 U	45.75	....	....
*†8780	2	16 (19x29)	.266″	....	....	55 D 7430 X	30.40	55 D 7431 U	60.80
*†8790	2	18 (7x26)	.231″	55 D 7572	5.40	55 D 7573 U	23.65	55 D 7412 U	47.30

[C] TWO AND THREE-CONDUCTOR UNSHIELDED CABLE

For P.A. and intercoms, speaker extension, etc. Copper, vinyl-insulated, tinned conductors, except Types 8481 through 8487 and 8794—untinned. Cabled, chrome vinyl jackets, except *rose-gray. †Twisted-pair types without jacket. Type 8483 is cabled, without jacket. Av. wt. per 100′, 2 lbs.

Mfr's Type	Cond.	AWG (Stranding)	O. D.	100' Spool Stock No.	100' Spool EACH	500' Spool Stock No.	500' Spool EACH	1000' Spool Stock No.	1000' Spool EACH
8205	2	20 (10x30)	.190″	55 D 7597	2.75	55 D 7600	10.65	55 D 7601 U	20.85
†8460	2	18 (7x26)	.175″	55 D 7602	3.00	55 D 7603	11.70	55 D 7432	23.40
8461	2	18 (7x26)	.226″	55 D 7610	3.90	55 D 7434	15.40	55 D 7435 U	30.80
†8470	2	16 (19x29)	.195″	....	....	55 D 7436	15.40	55 D 7437 U	30.80
8471	2	16 (19x29)	.256″	....	....	55 D 7611	19.45	55 D 7438 U	38.90
8473	2	14 (19x29)	.332″	....	....	55 D 7327 U	32.65	55 D 7328 Z	65.30
†8481	2	22 Solid	.112″	55 D 7612	1.65	55 D 7614	5.40	55 D 7615	10.80
†8482	2	19 Solid	.130″	55 D 7616	2.10	55 D 7631	7.50	55 D 7632	15.00
8483	3	19 Solid	.132″	55 D 7633	2.70	55 D 8563	10.50	55 D 8564 X	21.00
8486	2	19 Solid	.162″	....	....	55 D 7636	10.00	55 D 7637	20.00
8487	3	19 Solid	.180″	....	....	55 D 7638	13.65	55 D 7641 U	27.30
*8795	2	22 Solid	.160″	....	....	55 D 7688	9.00	....	....
*8794	3	22 Solid	.168″	....	....	55 D 7642	10.90	....	....

[D] TWO-CONDUCTOR SHIELDED CABLE

All have vinyl plastic insulation and jackets, except Type 8738 and Type 8758, both of which have copper braided jackets. All conductors are tinned for secure solder connections. *Tinned copper spiral-wrapped shield. Cables are black and red color-coded for fast, sure identification.

Mfr's Type	Cond.	AWG (Stranding)	O. D.	100-Ft. Std. Spool Stock No.	100-Ft. Lbs.	100-Ft. EACH	500-Ft. Std. Spool Stock No.	500-Ft. Lbs.	500-Ft. EACH	1000-Ft. Std. Spool Stock No.	1000-Ft. Lbs.	1000-Ft. EACH
8737*	2	22 (7x30)	.170″	55 D 7644	2¼	3.75	55 D 7447	10	15.40	55 D 7448 U	19¼	30.80
8738	2	22 solid	.130″	....	....	....	....	....	....	55 D 8882	15	27.00
8739*	2	22 solid	.160″	55 D 7645	2	3.30	55 D 7449	9¼	14.00	55 D 7450 X	18	28.00
8758	2	20 (7x28)	.165″	55 D 7647	2	4.00	55 D 7648	8¼	16.50	55 D 7410 X	18	33.00
8759*	2	20 (7x28)	.195″	55 D 7649	2¾	4.35	55 D 7666	12	18.40	55 D 7411 U	23¼	36.80

Wire and Cable **BELDEN**

SPECIAL INTERCOM AND AUDIO CABLES

Type 8722. 4 vinyl insulated conductors; 2 shielded with aluminum-"Mylar" wrapping; 2 unshielded. #20 stranded, tinned copper ground wire; chrome vinyl jacket.

Type 8724. Same as Type 8722 above, except has #22 gauge wire.

Type 8726. 12 conductors cabled in 3 quads. "Beldfoil" shield over 2 conductors of each quad, and clear "Mylar" shield over entire quad. Color-coded shields. No. 22 stranded, tinned copper ground wire. Chrome vinyl jacket overall.

Type 8727. 28 conductor cable. Construction and all other specifications are identical with Type 8726 above.

Type 8732. 4 polyethylene insulated cond. 1 pair tinned copper shielded, 1 pair unshielded. Chrome vinyl plastic jacket.

Type 8733. 3 conductors separately aluminum-"Mylar" shielded. Ground wire for each conductor is tinned, cadmium bronze ribbon under "Beldfoil" Z fold.

Type 8734. 3 vinyl insulated conductors. One conductor has a tinned copper shield. The other two conductors are unshielded. Has chrome vinyl jacket overall.

Type 8763. 3 polyethylene insulated conductors; aluminum-"Mylar" shield over 2 conductors; 1 unshielded. No 20 stranded ground wire. Chrome vinyl jacket overall. See facing page for illustrations.

Mfr's Type	Fig.	Cond.	AWG (Stranding)	O. D.	100-Ft. Std. Spool Stock No.	Lbs.	EACH	500-ft. Std. Spool Stock No.	Lbs.	EACH	1000-Ft. Std. Spool Stock No.	Lbs.	EACH
8722	J	4	20 (7x28)	.260"				55 D 7675	19	26.85	55 D 7001 U	37	53.70
8724	H	4	22 (7x30)	.165"				55 D 7014	11	22.50	55 D 7015 U	22	45.00
8726	K	12	22 (7x30)	.330"	55 D 8495	4½	15.55						
8727	J	28	22 (7x30)	.450"	55 D 7016	15	32.25						
8732	G	4	22 (7x30)	.188x.296"	55 D 7684	3	5.80	55 D 7465	13	24.40	55 D 7466 U	26	48.80
8733	H	3	22 (7x30)	.205"	55 D 7687	2½	5.65	55 D 7329	11	25.05	55 D 7330 U	24	50.10
8734	E	3	22 (7x30)	.194"	55 D 7685	2	4.45	55 D 7445	11	18.75	55 D 7446 U	22	37.50
8763	F	3	20 (7x28)	.210"				55 D 7471	15	21.25	55 D 7472 U	29	42.50

L PAIRED VINYL UNSHIELDED CABLE

Excellent intercom and telephone wire. Conductors cabled in pairs. Provide quiet circuit, free from crosstalk and interference. Vinyl insulation for high dielectric strength. Easy stripping, small diameter, weather, water, and tear-resistance. Color-coded.

Mfr's Type	Cond.	AWG (Stranding)	O. D.	100-Ft. Std. Spool Stock No.	Lbs.	EACH	500-Ft. Std. Spool Stock No.	Lbs.	EACH	1000-Ft. Std. Spool Stock No.	Lbs.	EACH
8442	2	22 (7x30)	.165"				55 D 7690	8	9.00	55 D 7331	16	18.00
8740	2	22 solid	.150"	55 D 7691	1½	2.06	55 D 7692	7	7.30	55 D 7454	12	14.55
8741	4	22 solid	.201"	55 D 7693	3	3.55	55 D 7455	11	14.00	55 D 7457 U	22	28.00
8742	6	22 solid	.240"	55 D 8565	4	4.60	55 D 7458	15	19.30	55 D 7459 U	30	38.60
8743	12	22 solid	.305"	55 D 8572	5	7.30	55 D 7460 U	27	33.00	55 D 7461 X	48	66.00
8744	18	22 solid	.354"	55 D 8552	7	10.05	55 D 8553 X	33	47.25	55 D 8554 X	68	94.50
8745	30	22 solid	.420"	55 D 7696	11	16.65	55 D 7462 Z	51	79.50	55 D 7414 Z	102	159.00
8747	12	22 (7x30)	.340"	55 D 7697	6	9.00	55 D 7698 U	26	41.50			
8748	18	22 (7x30)	.389"	55 D 7699	8	12.70	55 D 7002 U	41	60.00	55 D 7003 Z	79	120.00
8749	30	22 (7x30)	.425"	55 D 7017	14	21.75	55 D 7008 Z	67	102.75	55 D 7099 Z	135	205.50
8753	22	22 solid	.384"	55 D 7700	7½	12.75	55 D 7467 U	39	60.40	55 D 7701 Z	76	120.80
8754	26	22 solid	.409"	55 D 8555	11	14.25	55 D 7476 Z	54	69.00	55 D 7477 Z	104	138.00
8755	38	22 solid	.480"				55 D 7478 Z	74	105.00	55 D 7479 Z	169	210.00
8756	46	22 solid	.510"				55 D 7480 Z	88	123.00	55 D 7481 Z	193	246.00
8757	8	22 solid	.255"				55 D 7407 X	21	24.75	55 D 7409 U	41	49.50

Mfr's Type	Cond.	AWG (Stranding)	O. D.	Length Desired (Minimum 25 ft.)	Stock No.	Price Per Foot Under 100'	Over 100'
8746	54	22 Solid	.550"	Cut to customers specified	55 D 7718 F	.35	.294
8750	54	22 (7x30)	.595"	length. Maximum continuous	55 D 7719 F	.46	.39
8751	102	22 Solid	.725"	length 1500 feet. (Min., 25'.)	55 D 7720 F	.98	.832
8752	76	22 Solid	.600"	Specify footage desired.	55 D 7018 F	.89	.765

M INSTRUMENTATION CABLE (Multiple Pair Individually Shielded)

Heavy-duty, low-loss multi-conductor cable. Color-coded for quick, easy identification. Consists of pairs of tinned, solid and stranded copper conductors. Each pair has Beldfoil aluminum-Mylar tape shield that eliminates noise and crosstalk between pairs. Chrome vinyl jacket resists water, sun, oil and grease. Tear-resistant. All conductors 22 gauge.

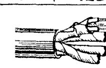
Mfr's Type	Pairs	O. D.	100-Ft. Std. Spool Stock No.	Lbs.	EACH	500-Ft. Std. Spool Stk. No.	Lbs.	EACH	1000-Ft. Std. Spool Stk. No.	Lbs.	EACH
8767	3	.270"	55 D 7336	5	8.05	55 D 7337 U	23	36.75	55 D 7338 Z	41	73.50
8768	6	.394"	55 D 7339	8½	15.75						
8764	9	.440"	55 D 7343	13	21.75						
8765	11	.485"	55 D 7346	14½	26.25				55 D 7348 Z	139	255.00
8766	15	.540"	55 D 7349	18½	35.25	55 D 7360 Z	109	169.50			
8769	19	.620"	55 D 7370 X	28	60.00						
8777	3	.270"	55 D 7713	5	9.75	55 D 7714 X	21	47.90	55 D 7417 Z	42	95.80
8778	6	.394"	55 D 7725	8½	19.50	55 D 7726 Z	44	96.00	55 D 7727 Z	87	192.00
8774	9	.440"	55 D 7715	13	27.90						
8775	11	.485"	55 D 7716	15	33.00						
8776	15	.540"	55 D 7717	19	43.90	55 D 7424 Z	93	211.50	55 D 7426 Z	182	423.00

SPECIAL INSTRUMENTATION CABLES

Type 8700. Miniature coax cable #28 solid tinned copper. Polypropylene insulation, black vinyl jacket. Insulation thickness .005"; jacket thickness .008"; 80% shield coverage; 48 mmf per ft. capacitance between conductors. O.D. .054". May be steam sterilized for medical research.

Mfr's Type	25' Stock No.	EA.	50' Stock No.	EA.	100' Stock No.	EA.	250' Stock No.	EA.
8700	55 D7029	1.55	55 D7030	2.52	55 D7019	4.50	55 D7020	10.15

Type 8725. Four pairs No. 20 (7x28) tinned copper cable is Beldfoil shielded. Chrome vinyl outer jacket. 105°C maximum operating temperature. Rated at 400 WV. only 27 mmf capacitance per foot between conductors. O.D. .360". Conductors are color-coded in the following combinations: Black, Red, Green, White, White/Red, White/Black, White/Green, and White/Yellow.

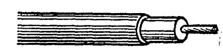


55 D 7021 U. 500' Spool. Shpg. wt., 37 lb. 99.75

55 D 7033 Z. 1000' Spool. Shpg. wt., 77 lbs. 199.50

HIGH-VOLTAGE CATHODE-RAY-TUBE LEAD

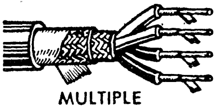
High-dielectric, corona-resistant, minimum-surface-leakage, CRT cables. Conductive polyethylene, polyethylene insulated, vinyl jacket, except Type 8870, which has a polyethylene jacket.



Mfr's Type	AWG (Stranding)	O. D.	Working Voltage	25-Ft. Std. Spool Stk. No.	Lbs.	EACH	100-Ft. Std. Spool Stk. No.	Lbs.	EACH	500-Ft. Std. Spool Stk. No.	Lbs.	EACH
8868	22 (7x30)	.150"	25,000	55 D 7769	½	1.05	55 D 7770	1¼	2.60	55 D 7771	5.3	10.20
8869	22 (7x30)	.120"	17,000	55 D 7772	¼	.90	55 D 7773	1¼	2.10	55 D 7774	5.0	8.10
8870	22 solid	.440"	80,000				55 D 7441	8	32.25			

BELDEN Wire and Cable

RUBBER-COVERED MICROPHONE AND SHIELDED POWER-SUPPLY CABLE


MULTIPLE


SINGLE


MINIATURE

Recommended for high abrasion resistance and extra flexibility. Especially suited for installations where cable must make tight bends or lie perfectly flat. Available in single or multiple conductors. 8407 has heavy-duty neoprene jacket; Type 8413 is a miniature size. Av. wt. per 100-ft., 6 lbs.

Mfr's Type	No. Cond.	AWG Stranding	Cap. Mmf	O. D.	Wkg. Volts	Stock No.	15' Spool	Stock No.	50' Spool	Stock No.	100' Spool	Stock No.	250' Spool	Stock No.	500' Spool
8410	1	25(7x33)	33	.245"	3000	.....	.....	55 D 7798	4.75	55 D 7799	8.65	55 D 7814	20.25	55 D 7046 K	40.50
8412	2	20(26x34)	42	.268"	600	.....	.....	55 D 7827	5.10	55 D 7828	9.55	55 D 7829	21.75	55 D 7066 K	43.50
8423	3	20(26x34)	50	.277"	600	55 D 7831	2.25	55 D 7832	5.95	55 D 7835	11.10	55 D 7836	25.90	55 D 7049 K	51.75
8424	4	20(26x34)	55	.295"	600	55 D 7837	2.25	55 D 7838	6.70	55 D 7839	12.60	55 D 7840	30.45	55 D 7095 K	59.25
8425	5	20(26x34)	44	.323"	600	.....	.....	.....	.....	55 D 7841	15.00	55 D 7842	36.75	.....	.....
8426	6	20(26x34)	40	.349"	600	.....	.....	.....	.....	55 D 7843	18.40	55 D 7844	45.00	.....	.....
8427	7	20(26x34)	40	.360"	600	.....	.....	.....	.....	55 D 7845	19.90	.....	.....	.....	.....
8418	8	20(26x34)	42	.386"	600	.....	.....	.....	.....	55 D 7846	21.90	55 D 7847 K	54.00	.....	.....
8428	2	18(41x34)	47	.295"	600	.....	.....	.....	.....	55 D 7848	12.90	.....	.....	55 D 7067 K	61.50
8413	2	24(45x40)	38	.190"	300	55 D 7851	1.80	55 D 7853	4.80	55 D 7855	8.95	.....	.....	55 D 7857 K	41.30
8407	4	16(65x34)	37	.422"	600	.....	.....	.....	.....	55 D 7850	22.15	55 D 7068 U	53.50	.....	.....

VINYL PLASTIC-COVERED MICROPHONE AND SHIELDED POWER-SUPPLY CABLE


SINGLE

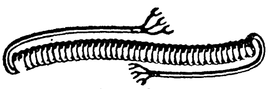

MINIATURE


MULTIPLE

Lightweight, small diameter cable with low loss, low capacitance. Resists ozone deterioration and chemical solvent action. 8411 is ideal for lapel or lavalier mikes. 8420 is miniature. Av. shpg. wt. per 100 ft., 3½ lbs.

Mfr's Type	No. Cond.	AWG Stranding	Cap. Mmf	O. D.	Wkg. Volts	Stock No.	15' Spool	Stock No.	50' Spool	Stock No.	100' Spool	Stock No.	250' Spool	Stock No.	500' Spool
8401	1	25(7x33)	25	.200"	5000	55 D 7861	1.13	55 D 7863	2.60	55 D 7864	4.80	55 D 7865	10.15	55 D 7311	20.30
8411	1	25(7x33)	34	.144"	3500	55 D 7866	.90	55 D 7868	1.95	55 D 7869	3.75	55 D 7870	7.90	55 D 7871	15.75
8422	2	22(16x34)	18	.231"	1000	55 D 7872	1.43	55 D 7874	3.90	55 D 7875	7.00	55 D 7876	15.40	55 D 7047	30.75
8403	3	20(26x34)	25	.244"	600	55 D 7877	1.80	55 D 7878	4.90	55 D 7879	9.00	55 D 7880	20.25	55 D 7309 K	40.50
8404	4	20(26x34)	25	.255"	600	55 D 7881	2.18	.....	.....	55 D 7882	10.15	55 D 7883	23.50	55 D 7313 K	47.00
8405	5	20(26x34)	25	.275"	600	.....	.....	.....	.....	.....	.....	55 D 7884	26.80	55 D 7199 K	53.60
8420	2	24(45x40)	22	.185"	500	55 D 7886	1.65	55 D 7888	3.70	55 D 7889	6.90	55 D 7890	17.85	55 D 7891	32.40

RETRACTILE (COILED) MICROPHONE AND TELEPHONE CABLE

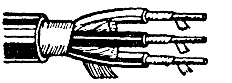

TELEPHONE


MICROPHONE

Microphone Cables: Types 8409, 8415 and 8490 are unshielded cords; 8499 has spiral wrap copper shield, others have aluminum Mylar tape shields. Type 8499 is single-conductor shielded cord; 8497 has one of its 3 conductors shielded; 8491 has two of its 4 conductors shielded. Neoprene jackets. **Telephone Cords:** 8494 and 8495 are unshielded. Spade term., strain relief, vinyl jackets. Av., ¼ lb. *except 3½ lbs.

Mfr's Type	For	No. Cond.	AWG Stranding	O. D.	Extends From	Extends To	Jacket	Stock No.	EACH
8409	Microphone	4	28(7x36)	.165"	12"	6'	Neoprene	55 D 7181	1.05
8415	Microphone	4	23(21x36)	.250"	11½"	6'	Neoprene	55 D 7275	1.41
8490*	Microphone	5	23(21x36)	.265"	11½"	6'	Neoprene	55 D 7613	1.50
8491	Microphone	4	23(21x36)	.300"	12"	6'	Neoprene	55 D 7180	1.73
8497	Microphone	3	23(21x36)	.250"	11½"	6'	Neoprene	55 D 7279	1.46
8499	Microphone	1	24(45x40)	.160"	7½"	4'	Neoprene	55 D 7286	.98
8494	Telephone	4	23(21x36)	.245"	10"	4½'	Vinyl	55 D 7276	1.56
8495	Telephone	3	23(21x36)	.220"	10"	4½'	Vinyl	55 D 7277	1.31

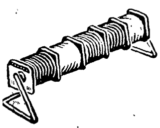
RUBBER-JACKETED SERVICE CORDS AND MULTIPLE CONDUCTOR CABLES



Cords and cables for use on appliances, power tools, Public Address systems, speakers, remote control circuits, extension cords, test equipment, press-to-talk intercom circuits, etc. Maximum voltage rating, 300 v., at —60°C. Stranded copper conductors have rubber insulation with black rubber jackets. Color-coded for fast, easy identification. Av. shpg. wt., per 100-ft., 6 lbs.

Mfr's Type	U.L. Type	No. Cond.	AWG Stranding	Cond.	O. D.	Stock No.	50' Spool	Stock No.	100' Spool	Stock No.	250' Spool	Stock No.	500' Spool	Stock No.	1000' Spool
8452	SV	2	18(41x34)	Bare	.245"	.....	.....	.....	.....	.....	.....	55 D 7032 X	25.50	55 D 7038 U	51.00
8478	SJ	2	18(41x34)	Bare	.298"	.....	.....	55 D 7911	5.85	55 D 7912	14.65	.....	.....	.....	.....
8472	SJ	2	16(65x34)	Bare	.325"	.....	.....	55 D 8887	8.55	55 D 8888	20.25	.....	.....	.....	.....
8474	.....	2	14(41x30)	Bare	.360"	.....	.....	55 D 7913	10.15	.....	.....	.....	.....	.....	.....
8453	SV	3	18(41x34)	Tinned	.265"	55 D 7916	3.60	55 D 7917	7.20	.....	.....	55 D 7040 K	36.45	.....	.....
8454	.....	4	18(41x34)	Tinned	.265"	55 D 7919	4.60	55 D 7920	8.25	.....	.....	55 D 7043 K	38.65	55 D 7045 Z	77.30
8455	.....	5	3—20(26x34); 2—18(41x34)	Tinned	.280"	.....	.....	55 D 7921	8.50	55 D 7922	21.40	.....	.....	.....	.....

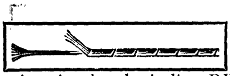
ASSORTED WIRE KITS



Type 8822. Contains ten 25-ft. spools of Type 8529 hook-up wire and dispenser rack. Popular assortment of most common colors: black, blue, green, red, white, yellow, orange, brown, gray, violet. 2½ lbs.
55 D 7226 .... 5.70

Type 8824. Eight 25-ft. spools of 8523 hook-up wire and dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown.
55 D 7227 .... 5.20

LITZ WIRE



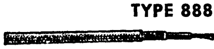
Type 8817. Celenamel insulated 5x44 stranded copper, with one nylon wrap. For winding antenna primaries, hand-winding RF coils, IF coils. Outside dia. .008".
55 D 8981. 100-ft. Spool .... .65

DUPLEX LIGHTING CABLE

Outdoor 2-cond. stranded tinned copper. Brown and red vinyl insulated. Chrome vinyl overall. O.D.: 8677, .164x.276"; 8675, .189x.326"; 8673, .213x.384".

Mfr's Type	AWG Stranding	Stock No.	100' Spool	Stock No.	500' Spool
8677	16 (19x19)	55 D 7728	5.10	55 D 7729	24.15
8675	14 (19x27)	55 D 7730	6.75	55 D 7039 U	31.65
8673	12 (19x25)	55 D 7731	8.70	55 D 7042 U	42.60

TYPE 8885 SHIELDED GRID-WIRE



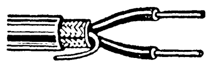
Single-conductor copper braid shield.

Stock No.	O. D.	Stranding	Spool Lgth.	EACH
55 D 7780	.117"	20 (10x30)	25'	1.28
55 D 7781	.117"	20 (10x30)	100'	3.75

Wire and Cable BELDEN

STANDARD AND MINIATURE BROADCAST AUDIO CABLES

Two-conductor, color-coded broadcast audio cables come in standard and miniature size. Types 8437 and 8441 have braided, tinned copper shields; Types 8450 and 8451 have spiral-wrapped aluminum-Mylar shields. All types have tinned drain wires. Available in 100, 500 or 1000 foot spools. Average shpg. wt., per 100 feet, 2½ lbs. Type 8451 available in Black Vinyl or Gray jacket.


STANDARD CABLE


MINIATURE CABLE

Mfr's Type	AWG (Stranding)	Cap. mmf	O. D.	Wkg. Volts	Mfr's Type	AWG (Stranding)	Cap. mmf	O. D.	Wkg. Volts
8437	22 Solid	48	.200″	200	8450	22 Solid	40	.118″	200
8441	22 (16x34)	49	.210″	200	8451	22 (7x30)	34	.135″	200

PRICE PER SPOOL

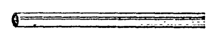
Mfr's No.	Type	Jacket	Stock No.	100′ Spool	Stock No.	500′ Spool	Stock No.	1000′ Spool
8437	CBS	Black Vinyl	....	....	55 D 7451	20.25	55 D 7452 K	40.50
8441	CBS	Black Vinyl	55 D 7893	5.20	55 D 7474	23.25	55 D 7475 K	46.50
8450	Miniature	Black Vinyl	55 D 7894	3.45	55 D 7895	12.75	55 D 8567	25.50
8451	Miniature	Black Vinyl	55 D 8562	3.90	55 D 7898	16.15	55 D 7470	32.30
8451	Miniature	Gray	55 D 7902	3.90	55 D 7903	16.15	55 D 7904	32.30

FLEXIBLE COPPER BRAID SHIELDING AND BONDING CABLE

Flexible tinned copper braiding for shielding conductors and cables of all sizes. Shields conductors from stray fields. Braided in tubular form for easy shielding of any wiring. Stranding column below indicates number of AWG tinned solid copper wires braided together to form complete shield. Av. shpg. wt., per 50 ft., 1½ lbs.

Mfr's Type	AWG Stranding	Approx. Cir Mil Area	I. D.	Approx. Flat Dim. (Inch)	10 Ft. Spool Stock No.	10 Ft. Spool EACH	50 Ft. Spool Stock No.	50 Ft. Spool EACH	250 Ft. Spool Stock No.	250 Ft. Spool EACH
8660	96x34	3800	⅛″	.050x.150	55 D 9351	.65	55 D 9350	1.94	55 D 7060	8.80
8668	120x34	4700	11/64″	.060x.205	55 D 9356	.90	55 D 9355	2.55	55 D 7061	11.25
8661	192x34	7600	⅜″	.060x.310	55 D 9361	.90	55 D 9360	3.15	55 D 7062	14.50
8669	336x34	13,300	½″	.060x.520	55 D 9366	1.56	55 D 9365	6.70	55 D 7063	31.15
8662	576x34	22,900	25/32″	.100x.590	55 D 9381	2.16	55 D 9380	9.40	55 D 7064	45.45
8663	168x34	6700	¼″	.060x.275	55 D 9842	.96	55 D 9843	3.25	55 D 7065	15.00
8670	480x30	48,000	¾″	.125x.750	....	....	55 D 7753	14.10	55 D 7754K	67.50
8671	864x36	21,600	1″	.050x1.000	....	....	55 D 7756	10.95	55 D 7757	52.50
8672	528x36	13,200	⅝″	.040x.580	55 D 7783	1.75	55 D 7784	7.60	55 D 7785	34.50

TINNED BUS-BAR WIRE

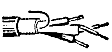


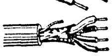
Highest-quality solid tinned copper bus-bar wire, available in sizes from 24 to 12 gauge. An excellent wire for use in switchboards, power plants and other applications when a conductor of heavy current is necessary. Manufactured to meet the rigid requirements of government specification QQ-W-343. Bus-bar wire is supplied in 100-ft. and 1000-ft. spools.

Mfr's Type	AWG	O. D.	100-Ft. Spool Stock No.	Oz.	EACH	1000-Ft. Spool Stock No.	Lbs.	EACH
8022	24	.020″	55 D 8520	4	.66	55 D 8561	1¼	3.40
8021	22	.025″	55 D 8521	5	.67	55 D 8570	2	4.00
8020	20	.032″	55 D 8522	6	.81	55 D 8571	3½	5.50
8019	18	.040″	55 D 8530	8	1.03	55 D 8577	5½	7.75
8013	16	.050″	55 D 8531	14	1.50	55 D 8578	8½	12.10
8012	14	.064″	55 D 8532	24	2.22	55 D 8579	13	18.40
8011	12	.080″	55 D 8540	40	3.00	....	....	....

STRAIN GAUGE CABLE

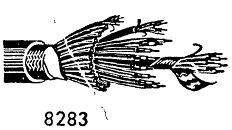
Small-diameter, 4-conductor cable for microphones, power supplies, etc. Type 8434 (Fig. A): Conductors consist of 3 strands of tinned copper, and 4 strands of copperweld. Type 8723 (Fig. A): Conductors consist of 7 strands of tinned copper. Types 8434 and 8723 have polyethylene insulated conductors with aluminized Mylar shields, plus chrome vinyl jacket overall. Type 8729 (Fig. B): Conductors consist of 19 strands of tinned copper. Each conductor is polypropylene insulated, with all conductors under one Beldfoil aluminum Mylar shield. Type 8729 has stranded, tinned copperweld ground drain wire, plus white vinyl jacket. Available in 100, 500, and 1000-ft. spools.

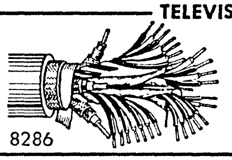
A


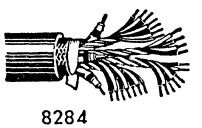
B


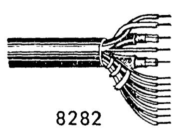
Type	Size	Strands	O. D.	Wkg. Volts	Stock No.	100′ Spool	Stock No.	500′ Spool	Stock No.	1000′ Spool
8434	25	7x33	.179″	400	55 D 7789	5.50	55 D 7482	24.75	55 D 7484	49.50
8723	22	7x30	.165″	400	55 D 7790	5.10	55 D 7791	22.50	55 D 7335U	45.00
8729	22	19x34	.250″	600	....	....	55 D 7022X	37.90	55 D 7023U	75.75

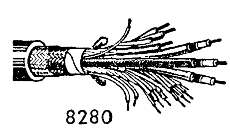
TELEVISION CAMERA CABLES


8283


8286


8284


8282


8280

Type 8283. 82-conductor color camera cable. Tinned-copper, color-coded vinyl-insul. conductors. Tinned copper braid shield. Chrome vinyl plastic jacket. 1.22″ nom. O.D. 94 lbs. per 100-ft.
55 D 8609 F. Minimum 25-ft........................Per Ft. 2.94
100′ or More........................Per Ft. 2.52

Type 8286. 28-conductor Hypalon TV camera cable, rated 75 ohms, designed to remain flexible in cold weather. Ideal for transistorized cameras. Tinned copper braid shield with black Hypalon jacket. Similar to 8280. .730″ nom. O.D. Per 100-ft., 34 lbs.
55 D 7024 F. Minimum 25-ft........................Per Ft. .82
100′ or More........................Per Ft. .705

Type 8280. 28-conductor camera cable. Tinned-copper, color-coded vinyl-insul. conductors. Tinned copper braid shield. Chrome vinyl jacket, .750″ nom. O.D. Per 100-ft., 34 lbs.
55 D 8610 F. Minimum 25-ft........................Per Ft. .80
100′ or More........................Per Ft. .683

Type 8282. 13-conductor TV-eye cable. Tinned-copper, color-coded, vinyl insulated conductors. Chrome vinyl jacket, .470″ nom. O.D. 14 lbs. per 100-ft.
55 D 8612 F. Minimum 25-ft........................Per Ft. .35
100′ or More........................Per Ft. .30

Type 8284. 24-conductor camera cable. Tinned-copper, color-coded vinyl-insul. conductors. Tinned copper braid shield. Chrome vinyl plastic jacket, .800″ nom. O.D. 41 lbs. per 100-ft.
55 D 8611 F. Minimum 25-ft........................Per Ft. .99
100′ or More........................Per Ft. .846

SHIPPING INFORMATION FOR TV CAMERA CABLE

All television camera cables are cut at the factory to the exact length that you specify, minimum 25-feet. Shipments are made direct from the factory in Richmond, Indiana. No C.O.D.

BELDEN Wire and Cable

TEST-PROD WIRE

STANDARD. Rubber-covered limp, flexible conductor withstands extremely high voltages. No. 18 stranded tinned copper, with cotton wrapping. Puncture voltage: Type 8898, 29,000 volts; Type 8899, 20,000 volts.

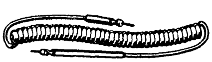
Mfr's Type	Color	AWG (Stranding)	O.D.	Rubber Insul.	Working Voltage	STANDARD SPOOLS Stock No.	10'	Stock No.	25'	Stock No.	100'	Stock No.	500'
8898	Red	18 (65x36)	.230″	.088″	10,000	55 D 7734	1.05	55 D 7737	1.95	55 D 7738	5.05	55 D 7739	21.00
8898	Black	18 (65x36)	.230″	.088″	10,000	55 D 7743	1.05	55 D 7744	1.95	55 D 7750	5.05	55 D 7751	21.00
8899	Red	18 (65x36)	.144″	.045″	5000	55 D 7758	.75	55 D 7759	1.15	55 D 7760	3.60	55 D 7761	13.00
8899	Black	18 (65x36)	.144″	.045″	5000	55 D 7762	.75	55 D 7763	1.15	55 D 7764	3.60	55 D 7765	13.00
8899	Green	18 (65x36)	.144″	.045″	5000	....	.....	55 D 7660	1.15	55 D 7624	3.60	55 D 7626	13.00
8899	Yellow	18 (65x36)	.144″	.045″	5000	....	.....	55 D 7659	1.15	55 D 7623	3.60	55 D 7625	13.00

MINIATURE. Similar to above. Puncture voltage, 10,000 volts.

Mfr's Type	Color	AWG (Stranding)	O.D.	Rubber Insul.	Working Voltage	Stock No.	10'	Stock No.	25'	Stock No.	100'	Stock No.	500'
8890	Red	24 (45x40)	.066″	.019″	1000	....	.....	55 D 8622	.90	55 D 8623	2.45	55 D 8624	8.70
8890	Black	24 (45x40)	.066″	.019″	1000	....	.....	55 D 8625	.90	55 D 8626	2.45	55 D 8627	8.70

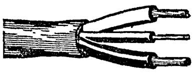
MIL-SPEC. Meets MIL-W-13169. Puncture voltage, 20,000 volts.

Mfr's Type	Color	AWG (Stranding)	O.D.	Rubber Insul.	Working Voltage	STANDARD SPOOLS Stock No.	500' EACH	Stock No.	1000' EACH
8897	Red	18 (65x36)	.144″	.045″	5000	55 D 7766	14.65	55 D 7440	29.30
8897	Black	18 (65x36)	.144″	.045″	5000	55 D 7767	14.65	55 D 7768	29.30



COILED CORD. Pair of tinned copper cables with red and black rubber insulation. Retract to 8 inches; stretch to 5 feet. No. 20 AWG (42x36). O.D., .173″. Handles 5000 volts working, 20,000 volts puncture. Type 8878 has prods.
55 D 7037. Type 8878....Per Pr. 3.10   55 D 7050. Type 8879. Without Prods............Per Pr. 1.38

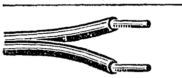
VINYL "JUKE BOX" CABLE



Cable for juke box use. Vinyl inner insulation, vinyl outer jacket, and stranded, color-coded, tinned copper conductors. All shields are aluminum Mylar. Type 8783, unshielded; 8786, 4 shielded, 2 unshielded.

Type	Cond.	AWG (Stranded)	O.D.	Stock No.	100' Spool	Stock No.	500' Spool
8783	3	1—20 (10x30) 2—16 (26x30)	.250″	55 D 7775	5.40	55 D 7776 U	24.40
8786	6	2—22 (7x30) 4—24 (7x32)	.256″	55 D 7777	6.25	55 D 7778 U	30.00

VINYL "JUKE BOX" SPEAKER CABLE



8782 has two parallel conductors No. 24 stranded (7x32) copper, one bare, one tinned. In chrome, white sand or clear vinyl. O.D., .058x.115″. 8649 same except No. 20 stranded (7x28) Specify chrome or clear. O.D., .073x.146″.

Mfr's Type	Stock No.	25' Spool	Stock No.	50' Spool	Stock No.	100' Spool	Stock No.	500' Spool	Stock No.	1000' Spool
8782	55 D 8848 C	.66	55 D 8828 C	.98	55 D 8829 C	1.47	55 D 7051 C	4.90	55 D 7052 C	9.80
8649	....	....	....	....	55 D 7678 C	2.18	55 D 7628 C	7.80	55 D 7629 C	15.60

U.L. HOOKUP WIRE 105° C (CSA 600-V. TYPE TEW)

Vinyl insulated hookup and lead wire. Tinned copper conductor. Available in eight insulation colors: brown, red, orange, yellow, green, white, black, and dark blue. When ordering, specify insulation color wanted.

Type	(Stranding)	O.D.	STANDARD SPOOLS Stock No.	Lbs.	100'	Stock No.	Lbs.	500'	Stock No.	Lbs.	1000'
8920	22 (7x30)	.095″	55 D 8221 C	1½	1.43	....	......	......	55 D 8224 C	7	10.00
8919	20 (10x30)	.102″	55 D 8226 C	1½	1.62	....	......	......	55 D 8230 C	8	12.00
8918	18 (16x30)	.112″	55 D 8240 C	1½	1.95	....	......	......	55 D 8241 C	11	14.85
8917	16 (26x30)	.126″	55 D 8242 C	1½	2.70	55 D 8243 C	8	10.90	....	......	......
8916	14 (41x30)	.141″	55 D 8255 C	1½	3.60	55 D 8256 C	10	14.95	....	......	......

MINIATURE 75-OHM SHIELDED LOW-CAPACITY VIDEO CABLE

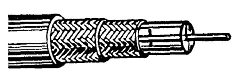
- Uniform Impedance • Extremely High "Nick Resistance"
- Fits Standard RG-59/U Coaxial Connectors

Type 8279. Miniature version of Type 8281 (at right). Tinned compacted conductor No. 23 AWG (7x31), polyethylene insulated, with tinned copper braid shield, black ployethylene jacket. 100% sweep tested. Capacitance, 21 mmf/per foot. Attenuation: 4.9 db at 100 mc. Nominal impedance, 75 ohms. Nominal outside diameter: 0.220″.

55 D 7558. 100 ft. Spool. 3½ lbs................Per Spool 9.00
55 D 7516. 250 ft. Spool. 8¼ lbs................Per Spool 21.00
55 D 7517. 500 ft. Spool. 14¾ lbs...............Per Spool 39.00

75-OHM VIDEO CABLE

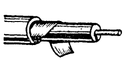
- For Color or Black and White • Provides Superior Definition



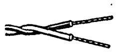
Type 8281. Finds many applications in the transmission of video signals in TV studios. Provides superior picture definition (color or black-and-white), ends periodicity problems. Inner conductor is #20 solid tinned copper, polyethylene insulated. Tinned-copper double braid shield. Jacket is black polyethylene. Provides nominal capacitance of 21 mmf/ft. Attenuation: 2.7 db at 100 mc. Excellent for UHF TV and other high-frequency uses. Nominal outside diameter: 0.304″. Nominal velocity of propagation: 66%. 100% sweep tested.

55 D 8613 X. 500-Ft. Spool. 37 lbs...............Per Spool 76.90
55 D 8614 X. 1000-Ft. Spool. 77 lbs.............Per Spool 153.80

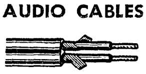
AUDIO CABLES FOR HI-FI, STEREO AND PHONO APPLICATIONS



Hi-Fi Cable



Phono Cable



Dual Channel

Stranded, tinned copper, vinyl or rubber insulation. 8421: Hi-Fi cable, spiral wrap. 8430 and 8431: Mono phono pickups. 8419 and 8429: Stereo phono pickups. 8416: for stereo and language labs. 8417: Single, miniature audio connecting cable, 100% shield. *Use two cables for maximum channel separation. †.106x.213″.

Mfr's Type	Jacket	No. Cond. & AWG	O.D.	Lbs., 100 ft.	10 Ft. Stk. No.	EACH	25 Ft. Stk. No.	EACH	50 Ft. Stk. No.	EACH	100 Ft. Stk. No.	EACH	250 Ft. Stk. No.	EACH
8421	Chr. Vinyl	1-25 (7x33)	.180″	2¼	....	....	55 D 8781	1.43	55 D 8782	2.70	55 D 8783	4.50	55 D 8784	10.05
8431	Rubber	1-24 (16x36)	.095″	¼	55 D 9929	.66	55 D 9930	1.17	....	....	55 D 9931	3.75	....	....
*8430	Vinyl	2-32 (7x40)	.050″	1¼	55 D 9926	.57	55 D 9927	.75	....	....	....	....	55 D 9928	4.50
8416	Chr. Vinyl	2-25 (7x33)	†	2½	....	....	55 D 9382	1.65	55 D 9390	3.00	55 D 9391	5.25	55 D 9412	12.15
*8429	Vinyl	2-32 (7x40)	.057″	1¼	55 D 9932	.80	55 D 9933	1.30	....	....	....	....	55 D 9934	8.95
8419	Vinyl	3-32 (7x40)	.067″	1½	55 D 8327	.90	55 D 8330	1.58	....	....	....	....	55 D 8333	11.35
8417	Chr. Vinyl	1-25 (7x33)	.140″	1⅓	....	....	55 D 7671	1.31	55 D 7672	2.10	55 D 7673	4.00	55 D 7674	8.65

MIL-W-76B and 16878D Wire, RG Cable BELDEN

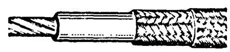
MIL-W-76B—VINYL INSULATION, 1000 VOLTS, 80° C

TYPE MW. In brown, red, orange, yellow, green, white, black, blue, violet and gray—specify when ordering.

Mfr's Type	Gauge	O. D.	25' Spools Stock No.	EACH	100' Spools Stock No.	EACH
8525	24(7x32)	.058″	....	...	55 D 7244 C	1.17
8530	22(Solid)	.059″	55 D 7214 C	.54	55 D 7218 C	1.08
8524	22(7x30)	.064″	55 D 7215 C	.57	55 D 7219 C	1.28
8529	20(Solid)	.066″	55 D 7216 C	.57	55 D 7220 C	1.28
8523	20(10x30)	.070″	55 D 7217 C	.65	55 D 7221 C	1.50
8522	18(16x30)	.080″	55 D 7109 C	.75	55 D 7110 C	1.88
8528	18(Solid)	.074″	....	.....	55 D 7112 C	1.64
8531	16(Solid)	.085″	....	.....	55 D 7246 C	2.03
8521	16(26x30)	.098″	....	.....	55 D 7114 C	2.48
8520	14(41x30)	.111″	....	.....	55 D 7116 C	3.50
8527	12(65x30)	.130″	....	.....	55 D 7118 C	4.90

Mfr's Type	Gauge	O. D.	500' Spools Stock No.	EACH	1000' Spools Stock No.	EACH
8525	24(7x32)	.058″	....	....	55 D 7245 C	7.50
8530	22(Solid)	.059″	....	.....	55 D 7222 C	6.90
8524	22(7x30)	.064″	55 D 7071 C	4.80	55 D 7223 C	8.85
8529	20(Solid)	.066″	55 D 7072 C	4.50	55 D 7224 C	8.40
8523	20(10x30)	.070″	55 D 7073 C	5.40	55 D 7225 C	10.05
8522	18(16x30)	.080″	55 D 7074 C	7.15	55 D 7111 C	13.65
8528	18(Solid)	.074″	....	.....	55 D 7113 C	11.55
8521	16(26x30)	.098″	55 D 7079 C	9.90	55 D 7115 C	19.30
8520	14(41x30)	.111″	....	.....	55 D 7117 C	28.80

MIL-W-76B—SHIELDED, NYLON JACKET, 1000 V., 80 °C



TYPE MW. Cable with tinned copper inner conductor and shield. Vinyl insulation between inner conductor and shield with nylon jacket over all. Available in white only.

Type	Gauge	O. D.	Type	Gauge	O. D.
8893	22(7x30)	.096″	8892	18(16x30)	.114″
8896	20(10x30)	.105″	8894	16(26x30)	.132″

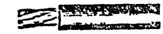
Mfr's Type	100' Spools Stock No.	EACH	500' Spools Stock No.	EACH	1000' Spools Stock No.	EACH
8893	55 D 7136	3.90	55 D 7103	17.05	55 D 7146	34.05
8896	55 D 7137	4.15	55 D 7104	18.60	55 D 7147	37.20
8892	55 D 7138	4.90	55 D 7105	20.25	55 D 7148	40.50
8894	55 D 7139	5.70	....	....	....	....

MIL-W-76B—VINYL INSULATION, 600 AND 2500 V., 80° C

TYPE HW. Tinned stranded copper wire with heavy-wall insulation. 8585, 2500 v. all other 600 v.; Wall thickness is .048″ except Type 8585, .034″. Available in red, white and black. Specify color wanted.

Stock No.	Mfr's Type	Gauge	O. D.	100' Spool
55 D 7210 C	8585	16 (26x30)	.128″	2.80
55 D 7211 C	8584	14 (41x30)	.171″	4.90
55 D 7212 C	8583	12 (65x30)	.191″	6.40
55 D 7213 C	8582	10 (105x30)	.220″	9.75

MIL 16878D—VINYL, 600 VOLT, 105° C



TYPE B. Tinned, stranded copper. In brown, red, orange, yellow, green, white, black and blue. Specify color desired.

Mfr's Type	Gauge (Strand)	O. D.	100' Spools Stock No.	EACH	1000' Spools Stock No.	EACH
8598	30 (7x38)	.032″	55 D 7299 C	1.23	....	.....
8597	28 (7x36)	.035″	55 D 7300 C	1.16	....	.....
8505	26 (7x34)	.039″	55 D 7301 C	1.29	55 D 7542 C	9.00
8504	24 (7x32)	.044″	55 D 7302 C	1.25	55 D 7548 C	8.05
8503	22 (7x30)	.050″	55 D 7303 C	1.31	55 D 7550 C	8.90
8502	20 (7x28)	.058″	55 D 7304 C	1.49	55 D 7551 C	9.70
8501	18 (7x26)	.068″	55 D 7305 C	1.62	55 D 7570 C	12.15
8500	16 (19x29)	.077″	55 D 7323 C	1.95	55 D 7571 C	15.55

MIL 16878D—VINYL INSULATION, 3000 VOLTS, 105° C

TYPE D. Tinned, stranded copper. In brown, red, orange, yellow, green, white, black and blue. Specify color desired.

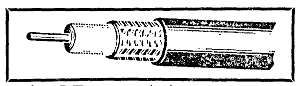
8971	22 (7x30)	.090″	55 D 7651 C	2.10	....	.....
8970	20 (7x28)	.098″	55 D 7652 C	2.50	....	.....
8969	18 (7x26)	.108″	55 D 7653 C	2.80	....	.....

MIL 16878D—TEFLON-INSULATED, 600 VOLTS, 200° C

TYPE E. Stranded, silver-coated copper wire. In brown, red, orange, yellow, green, white, black, and blue. Specify color wanted.

Mfr's Type	AWG (Strand)	O. D.	100' Spools Stock No.	EACH	500' Spools Stock No.	EACH
8301	28 (7x36)	.036″	55 D 7702 C	5.25	55 D 7582 C	23.50
8302	26 (7x34)	.041″	55 D 7703 C	5.50	55 D 7583 C	24.38
8303	24 (19x36)	.046″	55 D 7704 C	6.55	55 D 7584 C	28.33
8306	22 (19x34)	.052″	55 D 7705 C	7.45	55 D 7585 C	34.00
8307	20 (19x32)	.060″	55 D 7706 C	8.80	55 D 7586 C	40.50
8309	18 (19x30)	.071″	55 D 7679 C	10.75	55 D 7587 C	49.50
8310	16 (19x29)	.080″	55 D 7686 C	13.00	55 D 7588 C	61.50

RG HIGH-FREQUENCY COAXIAL CABLE



MIL-C-17A. All have low-loss, flexible polyethylene inner jacket, covered with copper-braid shield, black plastic outer jacket, except RG9/U which has gray plastic outer jacket, silver-coated copper shielding. Impervious to the effects of weather, acids, alkalis, oils, gasoline, etc. RG8/U and RG9/U are medium-size video and communications cable. RG11/U is medium-sized 75-ohm video and communications cable. RG58/U is ideal for RF transmission, test equipment. Navy drawing RE49B716 complies with MIL-C-17D.

Mfr's Type	RG No.	AWG (Stranding)	O. D. (In.)	Imp. Ohms	Cap. mmf.	Conductors	Stock No.	100' Spool	Stock No.	500' Spool	Stock No.	1000' Spool
8237	8/U	13(7x21)	.405	52	29.5	Bare Copper	55 D 7923	12.40	55 D 7261 X	49.65	55 D 7262 X	99.30
8242	9/U	13(7x21)	.420	51	30.0	Silvered Copper	55 D 7924	31.15	....	....	55 D 7263 XF	288.00
8243	9B/U	13(7x21)	.420	50	30	Silvered Copper	....	......	55 D 8486 X	175.20	....	......
8238	11/U	18(7x26)	.405	75	20.5	Tinned Copper	55 D 7264	11.25	....	....	55 D 7266 X	90.60
8259	58A/U	20(19x.007)	.195	50	30.8	Tinned Copper	55 D 7925	5.40	55 D 7926	19.95	55 D 7297 U	39.90
8240	58/U	20(Solid)	.195	53.5	28.5	Bare Copper	55 D 7927	4.60	55 D 7267	16.90	55 D 7287 U	33.80
8262	58C/U	20(19x.007)	.195	50	28.5	Tinned Copper	....	......	55 D 7492	21.75	55 D 7494 X	43.50
8263	59B/U	23(Solid)	.242	75	20.5	Bare Copperweld	....	......	55 D 7495	23.65	55 D 7496 X	47.30
8241	59/U	22(Solid)	.242	73	21.0	Bare Copperweld	55 D 7928	5.35	55 D 7307 X	18.60	55 D 7308 U	37.20
8254	62/U	22(Solid)	.242	93	13.5	Bare Copperweld	55 D 7929	5.85	55 D 7298 X	21.75	55 D 7306 U	43.50
8216	174/U	26(7x34)	.100	50	30.4	Bare Copperweld	55 D 7931	3.45	55 D 7932	12.30	55 D 7934	24.60
8218	....	27(7x35)	.150	75	20.5	Bare Copperweld	55 D 7578	4.80	55 D 7564	17.85	55 D 7567	35.70

TEFLON—MIL-C-17D. All have silver coated copperweld conductors and one silver coated copper shield. Operate from —50° to +200°C ambient temperature. Extremely low loss. High voltage breakdown. Teflon ensures efficiency at temperature extremes.

Mfr's Type	RG No.	AWG (Stranding)	O. D. (In.)	Imp. Ohms	Cap. mmf/ft.	Jacket Type	Stock No.	100' Spool	Stock No.	500' Spool
8266	180B/U	30(7x38)	.142	95	15	BROWN FEP	55 D 8504	34.20	55 D 8505	152.25
8265	178B/U	30(7x38)	.072	50	29	BROWN FEP	55 D 8506	13.00	55 D 8507	62.62
8270	196A/U	30(7x38)	.076	50	29	WHITE TFE	55 D 8556	18.25	55 D 8557	76.00
8269	188A/U	26(7x.0067)	.106	50	29	WHITE TFE	55 D 8558	22.80	55 D 8559	102.75

FOAM-CORE RG AND DOUBLE SHIELD COAXIAL. Foam cores for low attenuation and low capacitance. Suitable for community TV cable systems. Stable electrical characteristics even with changes in temperature and frequency. Types 8214 and 8219 are very well-suited for Amateur Radio and Citizens Band antenna use. All types listed have black polyethylene jackets.

Mfr's Type	RG No.	AWG (Stranding)	Material	O. D.	Imp., Ohms	Cap. mmf	Stock No.	100' Spool	Stock No.	500' Spool	Stock No.	1000' Spool
8214	8/U	11(7x19)	Copper	.403″	50	26	55 D 7387	14.25	55 D 7388 Z	57.75	....	....
8213	11/U	14(Solid)	Copper	.405″	75	17.3	....	....	55 D 7390 U	58.05	55 D 7391 Z	116.10
8212	59/U	20(Solid)	Copperweld	.242″	75	17.3	....	....	55 D 7394	22.05	55 D 7395 U	44.10
8219	58/U	20(19x32)	Copper	.195″	50	26	55 D 7579	5.70	....	....	....	....

Belden and Consolidated Wire and Cable

BELDEN WIRE AND CABLE

PRIMARY WIRE

For all wiring on cars, boats and trailers other than ignition. Weather, oil and heat resistant. SAE type GPT. Vinyl insulated.

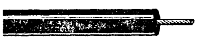
Mfr's Type	AWG Stranding	O.D. In.	Color	100' Spool Stock No.	100' Spool EACH
8685	16(19x29)	.102	Black	55 D 7100	2.70
8684	14(19x27)	.117	Green	55 D 7101	2.70
8683	12(19x25)	.142	Red	55 D 7106	3.90
8682	10(19x23)	.175	White	55 D 7107	5.80
8681	8(19x21)	.219	Chrome	55 D 7120	10.65
8680	6(37x21)	.290	Chrome	55 D 7121	16.20
8679	4(61x22)	.350	Chrome	55 D 7122	19.90

BELDEN BONDED CABLE

3 and 4-cond., parallel-bonded primary wire. Tinned copper, vinyl insulated. O.D.: 8475, .102x.295"; 8476, .012x400". Color-coded.

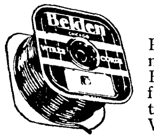
Mfr's Type	Con-ductors	AWG (Stranding)	Stock No.	100' Spool	Stock No.	500' Spool
8475	3	16 (19x29)	55 D 7732	5.65	55 D 7427 X	25.50
8476	4	16 (19x29)	55 D 7733	8.10	....	....

MARINE RADIO ANTENNA WIRE



Tinned copperweld, with brown weather resistant polyethylene insulation. Not affected by sun, moisture or salt spray.

Mfr's Type	AWG Stranding	O.D. In.	Stock No.	100' Spool	Stock No.	500' Spool
8201	20(7x28)	.278	55 D 7663	4.15	55 D 7664	17.25



HEAVY-POLYTHERMALEZE MAGNET WIRE

Polythermaleze is a dual polyester film-insulated magnet wire with 180°C temperature rating. Especially valuable where heat (as in transformers) is a problem. Has exceptional ability to resist water, oil, acids and other solvents. Withstands mechanical abrasion equally well.

½-lb. Spool Stock No.	Size	Feet	EACH	1-lb. Spool Stock No.	Size	Feet	EACH
55 D 8036	14	40	1.10	55 D 8086	14	80	1.85
55 D 8037	16	63	1.10	55 D 8087	16	126	1.92
55 D 8038	18	100	1.14	55 D 8088	18	199	2.03
55 D 8039	20	157	1.16	55 D 8089	20	315	2.03
55 D 8040	22	250	1.19	55 D 8090	22	501	2.03
55 D 8041	24	396	1.20	55 D 8091	24	793	2.10
55 D 8042	26	630	1.28	55 D 8092	26	1260	2.25
55 D 8043	28	995	1.38	55 D 8093	28	1990	2.46
55 D 8044	30	1570	1.53	55 D 8094	30	3140	2.78
55 D 8045	32	2440	1.65	55 D 8095	32	4880	3.02
55 D 8046	34	3930	1.88	55 D 8096	34	7860	3.56
55 D 8047	36	6200	2.25	55 D 8097	36	12400	4.53
55 D 8048	38	9700	2.82	55 D 8098	38	19400	5.61
55 D 8049	40	16050	3.48	55 D 8099	40	32100	7.30

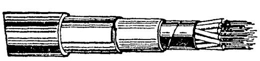
7MM IGNITION WIRE

For all cars, light trucks and tractors. Tinned copperweld, high dielectric rubber insulation with overall black noeprene sheath for maximum cable protection.

Mfr's Type	AWG Stranding	O.D. In.	Color	Stock No.	100' Spool
8689	20(7x28)	.278	Black	55 D 7130	6.15

CONSOLIDATED WIRE AND CABLE

TELEPHONE AND COMMUNICATION CABLE DESIGNED FOR DIRECT BURIAL



Color-coded direct burial cable. Copper armoring minimizes cable damage from rodents, insects, and abrasion from sharp stones. Polyethylene insulated conductors covered with non-hygroscopic binder tape, also 40-mil polyethylene jacket. Conductors #22 annealed copper. Twisted pairs with varying lays to minimize cross-talk. Cabled by stranding pairs in concentric layers.

Mfr's Type	No. of Pairs	No. of Cond.	O.D. (In.)	Mfr's Type	No. of Pairs	No. of Cond.	O.D. (In.)
6006	6	12	.430	6025	25	50	.630
6018	18	36	.560	6050	50	100	.820

Stock No.	Mfr's Type	Lbs. Per Ft.	PER FOOT (25 Ft. Min.) 1-249	250-499	500-Up
55 D 8177 F	6006	.125	.291	.258	.242
55 D 9151 F	6018	.180	.496	.441	.414
55 D 8178 F	6025	.250	.583	.519	.487
55 D 8179 F	6050	.360	1.010	.897	.841

INTERIOR AND EXTERIOR TELEPHONE WIRE

No. 22 solid, tinned copper wire. Interior: 1/32" insulation, cotton braid. Exterior: black rubber, weatherproof braid.

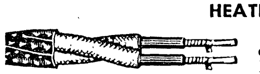
Con-ductors	Stock No.	100' Coil	Stock No.	500' Coil	Stock No.	1000' Coil
2 Int.	55 D 8362	5.50	55 D 8363	25.90	55 D 8364	51.50
2 Ext.	55 D 8752	5.24	55 D 8760	24.20	55 D 8761	45.80
3 Ext.	55 D 8171	7.90	....	....	....	....

SHIELDED PLASTIC JACKET WIRE

Tinned copper; polyethylene insulation with close spiral tinned copper shield and heavy vinyl plastic jacket overall. Use for low impedance mikes. *#22; †#20; ‡1 cond.; §3 cond.

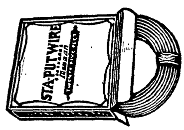
Mfg. Type	O.D. (In.)	Stk. No.	50' Coil	Stk. No.	100' Coil	Stk. No.	500' Coil
1461*	.135‡	55 D 8700	1.95	55 D 8757	3.75	55 D 8758	16.90
1459†	.000‡	55 D 8759	2.77	55 D 8762	5.41	55 D 8763	25.17
1723†	.250§	....	....	55 D 8766	9.52	55 D 8767	44.98

HEATER CORD



Black and white marker heater cord. 2 conductor, U.L. Type HPD. Nom. insulation thickness, 1/3".

Mfg. Type	Size	Strd.	O.D. (In.)	Stk. No.	100' Coil	Stk. No.	250' Coil
4087	16	65x34	.275	55 D 8748	8.22	55 D 8850	20.09
4092	18	41x34	.250	55 D 8898	7.47	55 D 8899	18.02



PUSH-BACK HOOK-UP WIRE

Tinned hook-up wire. No. 20. Pure copper wire; insulation easily pushed back. Available in both solid and stranded type. Double-cotton covered with paraffin-treated damp-proof braid. 5 different colors. Wt., 25 ft., 4 oz.; 100 ft., 1 lb.

STRANDED TYPE, 10x30

Spool	Red	Black	Yellow	Blue	Green	EA.
25 ft.	55 D 8442	55 D 8440	55 D 8444	55 D 8441	55 D 8443	.52
100 ft.	55 D 8447	55 D 8445	55 D 8449	55 D 8446	55 D 8448	2.03

SOLID TYPE

Spool	Red	Black	Yellow	Blue	Green	EA.
25 ft.	55 D 8472	55 D 8470	55 D 8474	55 D 8471	55 D 8473	.49
100 ft.	55 D 8477	55 D 8475	55 D 8479	55 D 8476	55 D 8478	1.76

TYPE 2000 BARE NICKEL-CHROMIUM WIRE

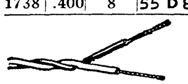
Recommended for heating appliances and other devices which have operating temperatures not exceeding 1850°F. Particularly suited for heavy-duty rheostats and controls which require a compact resistance element. ¼-lb. spools. Shpg. wt., ¼ lb.

Stock No.	Size	EA.	Stock No.	Size	EA.	Stock No.	Size	EA.
55 D 8076	14	1.52	55 D 8084	22	1.93	55 D 8158	32	3.43
55 D 8078	16	1.58	55 D 8150	24	3.15	55 D 8160	34	4.16
55 D 8079	17	1.67	55 D 8152	26	2.60	55 D 8162	36	5.10
55 D 8080	18	1.67	55 D 8154	28	2.95	55 D 8164	38	8.05
55 D 8081	19	1.71	55 D 8156	30	3.11	55 D 8166	40	8.05
55 D 8082	20	1.81	....	....	....	....	....	......

MULTIPLE CONDUCTOR RUBBER CABLE

Unshielded rubber cable stranded (26x34) tinned copper. No. 20; insulation thickness, .020"; jacket thickness, .031". Color coded cond.

Mfg. Type	O.D. (In.)	Con-duct.	Stock No.	50' Coil	Stock No.	100' Coil	Stock No.	500' Coil
1732	.280	2	55 D 8743	4.87	55 D 8744	9.74	55 D 8773	45.40
1733	.285	3	55 D 8774	5.81	55 D 8776	11.62	55 D 8745	49.48
1734	.300	4	55 D 8786	6.59	55 D 8797	13.17	55 D 8798	58.40
1736	.000	6	55 D 8799	10.74	55 D 8832	21.47	55 D 8833	89.80
1738	.400	8	55 D 8746	13.15	55 D 8747	26.30	55 D 8837	107.30



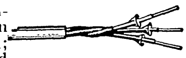
STEREO PHONO PICKUP-ARM CABLE

Type 1478 unshielded; 1479 braided tinned-copper shield. No. 32 (7x40) copper 2-conductor cable with .009" vinyl plastic insulation, O.D., .055". Av. wt.: 10' spool, 4 oz.; 25', 6 oz.; 250', 1 lb.

Mfr's Type	10-Ft. Spool Stock No.	EA.	25-Ft. Spool Stock No.	EA.	250-Ft. Spool Stock No.	EA.
1478	55 D 8523	.51	55 D 8524	.72	55 D 8525	5.84
1479	55 D 8535	.82	55 D 8536	1.42	55 D 8537	8.98

Alpha Wire and Cable

TYPE B—NYLON SHIELDED PLASTIC JACKET MULTI-CONDUCTOR CABLE



Each conductor is stranded tinned copper. With color-coded .010″ polyvinylchloride insulation; covered with clear, .003″ nylon (polyamide) jacket. Conductors are cabled; surrounded by braided tinned copper shield providing 90% coverage. White polyvinylchloride jacket is overall. Meets MIL-W-16878D. Temperature rating: −55°C to +105°C. Rated 600 volts. Color code of conductors: 1—white, 2—black, 3—red. Av. shpg. wt., 20 lbs.

Mfr's Type	No. of Cond.	Gauge (Strand)	100′ Spool Stock No.	100′ Spool EACH	1000′ Spool Stock No.	1000′ Spool EACH
3210	1	24 (19x36)	55 D 9208	7.35	55 D 9209	69.75
3211	2	24 (19x36)	55 D 9210	11.18	55 D 9211 U	103.95
3212	3	24 (19x36)	55 D 9212	15.45	55 D 9213 U	147.60
3220	1	22 (19x34)	55 D 9214	8.10	55 D 9215 X	73.65
3221	1	22 (19x34)	55 D 9216	12.23	55 D 9217 U	114.60
3222	3	22 (19x34)	55 D 9218	16.95	....	....
3230	1	20 (19x32)	55 D 9221	8.48	....	....
3231	2	20 (19x32)	55 D 9223	13.43	....	....
3232	3	20 (19x32)	55 D 9225	18.15	....	....

TYPE B—UNCOVERED PLASTIC PRE-BONDED TINNED COPPER CONDUCTOR

Each strand of conductor is double tinned, then heat-bonded together. An ideal construction where leads are to be cut and stripped for point-to-point wiring. Maintains flexibility of ordinary stranded wire, but reduces handling costs on production soldering jobs. With color-coded polyvinylchloride insulation; wall thickness, .010″. Insulation meets requirements of MIL-W-16878D. Temperature rating: −55°C to +105°C. Rated at 600 volts. Resistant to acids, alkalis, oil, flame, moisture, solvents and fungus. **Available in same colors as above—specify color wanted.**

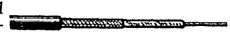
Mfr's Type	Gauge (Strand)	Nom. O.D.	100′ Spool Stock No.	100′ Spool EACH	1000′ Spool Stock No.	1000′ Spool EACH
3154	24 (7x32)	.044″	55 D 9200 C	1.50	55 D 9201 C	11.40
3155	22 (7x30)	.051″	55 D 9202 C	1.73	55 D 9203 C	13.80
3156	20 (7x28)	.059″	55 D 9204 C	2.25	55 D 9205 C	18.45
3157	18 (7x26)	.070″	55 D 9206 C	3.00	55 D 9207 C	25.95

UNSHIELDED AUDIO CABLE MULTI-CONDUCTOR—PLASTIC JACKET

Each conductor is tinned copper covered with color-coded polyvinylchloride insulation. Conductors are twisted. With gray polyvinylchloride jacket overall. Designed for use with unbalanced intercom systems, as low voltage relay control cable, electronic computer cable, or P.A. system cable. All are #22 gauge with 7x30 stranding. Have .010″ wall thickness; .020″ overall jacket. Temperature rating is −20°C to +60°C. Operating voltage, 200 volts. All conductors color-coded. **100′ spool only.**

Mfr's Type	Cond.	Nom. O.D.	Lbs.	Stock No.	100′ Spool
1176	6	.185″	2.6	55 D 9070	8.02
1177	7	.190″	2.8	55 D 9072	9.23
1178	8	.200″	3.5	55 D 9074	10.20
1179	9	.225″	3.8	55 D 9076	11.10
1180	10	.235″	4.2	55 D 9078	12.15
1181	12	.255″	5.0	55 D 9080	13.12
1181/15	15	.280″	6.2	55 D 9082	32.25
1181/20	20	.310″	8.2	55 D 9084	44.25
1181/25	25	.340″	10.0	55 D 9086	56.25
1181/30	30	.365″	12.3	55 D 9088	70.50

SHIELDED MICROPHONE CABLE WITH POLYETHYLENE INSULATION



Plastic Jacketed. Have stranded, tinned copper conductors with color-coded polyethylene insulation. Available in braided or spiral wrapped shield as shown below. With gray, polyvinylchloride jacket overall. Types 1702 and 1705 have .020″ jacket; Type 1710 has .025″ jacket; all others have .030″ jacket.

WITH BRAIDED SHIELD

Mfr's Type	Conductor No.	Conductor Size	O.D.	100′ Spool Stock No.	100′ Spool EACH	1000′ Spool Stock No.	1000′ Spool EACH
1703	1	24	.145″	55 D 7952	4.43	....	....
1704	1	24	.190″	55 D 7954	5.93	....	....
1706	1	20	.175″	55 D 7958	8.55	....	....
1710	2	22	.230″	55 D 7962	8.93	55 D 7963	81.60
1712	2	20	.240″	55 D 9110	11.40	....	....

WITH SPIRAL WRAP SHIELD

Mfr's Type	Conductor No.	Conductor Size	O.D.	100′ Spool Stock No.	100′ Spool EACH	1000′ Spool Stock No.	1000′ Spool EACH
1702	1	26	.110″	55 D 7950	4.20	55 D 7951	38.10
1705	1	24	.110″	55 D 7956	5.03	55 D 7957	46.50
1709	2	24	.190″	55 D 7960	10.28	....	....

FLAT RIBBON CABLE MULTI-CONDUCTOR, PLASTIC INSULATION CONDUCTORS PER MIL-W-16878D, TYPE C

Stranded, tinned copper covered with color-coded, .016″ PVC insulation. Conductors bonded to form flat ribbon cable. Ideal for interconnecting systems, wiring harnesses for racks, sliding drawers and drop panels; saves time, weight and space. Conductors fully color-coded and easily separated. #22 gauge with 7x30 stranding. Temperature rating: −55°C to +105°C. Voltage rating 1000 volts. Resistant to acids, alkalis, oil, flame, moisture, solvents and fungus. **Sold in 100′ spools only.**

Mfr's Type	No. of Cond.	Nom. O.D.	Stock No.	100′ Spool
3504	4	.065″x.260″	55 D 9227	14.48
3508	8	.065″x.520″	55 D 9229	23.63
3512	12	.065″x.780″	55 D 9231	38.55
3516	16	.065x1.040″	55 D 9233	53.40
3520	20	.065x1.300″	55 D 9235	65.85

SHIELDING AND BONDING CABLE

A woven, tinned copper braid manufactured per MIL Spec. QQ-B-575. Each strand is soft-drawn tinned copper. Braid is self-supporting. Provides maximum shielding in wires, cables, components. Shielding coverage is 95% or more.

Mfr's Type	Approx. I.D.	No. of Wires	AWG Equiv.	Cap., Amps	100′ Spools Stock No.	100′ Spools EACH
1386	1/32″	24x36	24	7	55 D 9058	3.75
1387	3/64″	24x36	23	7	55 D 9059	4.04
1388	3/32″	48x36	19	12	55 D 9061	4.70
1389	7/64″	72x36	18	14	55 D 9062	4.80
1390	1/8″	96x36	18	15	55 D 9063	4.96
1391	3/16″	120x36	15	23	55 D 9064	6.00
1392	1/4″	168x36	14	30	55 D 9065	7.50
1393	3/8″	288x36	11	50	55 D 9066	12.56
1394	1/2″	386x36	10	55	55 D 9067	15.54
1395	5/8″	396x36	10	61	55 D 9068	16.04
1396	3/4″	832x36	7	80	55 D 9069	36.66

RETRACTILE NEOPRENE-JACKET POWER CORDS

Retracted lengths, 2 and 4 ft.; extended lengths, 12 and 25 ft. U.L. Listed. All are U.L. Type SO, except *SVO, †SJO. Average shpg. wt., 4 oz.

TWO-FOOT RETRACTED LENGTHS

Stock No.	Mfr's Type	Conds. No.	Conds. Size	A.	V.	Coil O.D.	EACH 1-49	EACH 50-99	EACH 100-Up
55 D 8335	660/2*	2	18	7	300	1″	4.65	4.65	3.88
55 D 8338	663/2†	4	18	5.6	300	1½″	7.65	7.65	6.38
55 D 8340	665/2	3	16	10	300	1½″	8.25	8.25	6.88
55 D 8343	671/2	4	16	8	600	1⅞″	12.60	10.50	10.50
55 D 8345	672/2	2	14	15	600	2⅛″	12.52	10.44	10.44

FOUR-FOOT RETRACTED LENGTHS

Stock No.	Mfr's Type	Conds. No.	Conds. Size	A.	V.	Coil O.D.	EACH 1-49	EACH 50-99	EACH 100-Up
55 D 8355	660/4*	2	18	7	300	1″	8.40	7.00	7.00
55 D 8357	662/4†	3	18	7	300	1½″	12.15	10.13	10.13
55 D 8359	664/4†	2	16	10	300	1½″	11.85	9.88	9.88
55 D 8367	666/4†	4	16	8	300	1⅝″	18.90	15.75	15.75
55 D 8368	670/4	3	16	10	600	1⅞″	21.30	17.75	17.75

SHIELDED MICROPHONE CABLE

Neoprene Jacketed. Heavy-duty, stranded, tinned-copper conductors. Rubber insulated, cotton wrapped; with braided tinned-copper shield, cotton wrap, tough neoprene jacket overall. Stranding: #18, 41x34; #16, 65x34. Jacket is .035″. Conductor wall thickness, Type 1449, .040″; Types 1450, 1451, 1452, .020″; 1450/16, .025″. Conductors color-coded: 1—black; 2—white; 3—red; 4—green.

Stock No.	Mfr's Type	Cond. No.	Cond. Size	Wt. lbs.	Nom. O.D.	PER 100′ Spool
55 D 7935	1449	1	18	3.7	.240″	18.15
55 D 7937	1450	2	18	5.4	.295″	23.85
55 D 7939	1451	3	18	6.7	.305″	44.10
55 D 7941	1452	4	18	8.1	.330″	54.00
55 D 7943	1450/16	2	16	8.7	.335″	45.90

1200 SERIES SHIELDED CONTROL CABLE

Stranded, tinned 20 gauge (26/34) copper conductors. Color-coded rubber insulation. Black rubber jacket. Cotton wrap, braided tinned copper shield. Nominal wall thickness, .020″; jacket, .035″.

Stock No.	Mfr's Type	No. of Cond.	Nom. O.D.	Wt. lbs.	Per 100′ Spool
55 D 8883	1250	2	.270″	4.5	13.05
55 D 9148	1251	3	.285″	5.3	14.48
55 D 8885	1252	4	.305″	6.3	16.35

Alpha Cable, Tubing—3M Cable

ALPHA electronic WIRE

LOW CAPACITANCE SHIELDED MICROPHONE CABLE

WITH CELLULAR FOAM POLYETHYLENE INSULATION

Stranded tinned copper conductor; color-coded foam polyethylene insulation; braided tinned copper shield; chrome gray polyvinylchloride jacket. Low capacity and attenuation.

Mfr's Type	Conductor No.	Conductor Size	O.D.	Cap. Mmf /Ft.	100' Spool Stock No.	100' Spool EACH	1000' Spool Stock No.	1000' Spool EACH
2310	1	26	.115"	30	55 D 9125	6.75	55 D 9126	60.30
2311	1	24	.180"	20	55 D 9127	8.10	55 D 9128	74.10
2312	1	24	.225"	15	55 D 9129	10.58	55 D 9130 U	98.10
2323	2	22	.300"	11	55 D 9131	17.70	....	......

SHIELDED MULTI-CONDUCTOR CONTROL CABLES

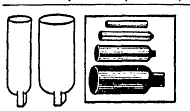
Neoprene jacket overall. Each conductor stranded, tinned copper with color-coded insulation. #18 gauge. Wall thickness, .020". Cabled with fillers, cotton wrap, braided tinned copper shield. For outdoor usage in missile systems, ground support equipment, etc.

Mfr's Type	No. of Cond.	Jkt. Size	Nom. O.D.	100' Spool Stock No.	100' Spool EACH
1454	6	.035"	.370"	55 D 7945	74.70
1456	8	.035"	.420"	55 D 7947	98.25
1458	10	.035"	.480"	55 D 7948	120.30
1459	12	.065"	.555"	55 D 7949 U	165.00

SHIELDED MULTI-CONDUCTOR CONTROL CABLE

Chrome gray polyvinylchloride .035" jacket overall. Stranded tinned copper; polyethylene insulation; braided shield. 600 volt operating voltage. #20 (26x34) gauge.

Mfr's Type	No. of Cond.	Wall Thk.	Nom. O.D.	100' Spool Stock No.	100' Spool EACH	1000' Spool Stock No.	1000' Spool EACH
1713	3	.014"	.250"	55 D 9100	11.40	....	....
1715	4	.014"	.260"	55 D 9120	13.20	....	....
1716	5	.014"	.275"	55 D 7964	15.15	....	....
1717	6	.014"	.300"	55 D 7966	30.00	55 D 7967 Z	292.00
1719	8	.014"	.330"	55 D 7974	38.55	55 D 7975 Z	378.00
1721	10	.014"	.375"	55 D 7976	48.00	55 D 7977 Z	465.00



"FIT-CAP" WIRE TERMINATION CAPS

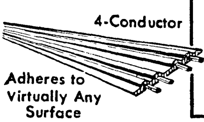
Shrinkable irradiated semi-rigid polyolefin tubing for termination caps over wire, cable and splices. Figs. show amount of shrinkage and relative size. Shrinkage temp., 275°F. Shpg. wt., per pkg. 5 oz. **100 per pkg.**

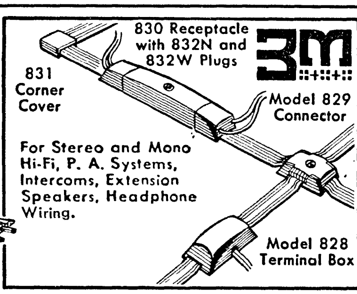
Stock No.	Mfr's Type	Min. I.D.	Recov. I.D.	Color	PER PKG. OF 100 1-9	10-49	50-99
55 D 8664	CAP-3	.250"	.100"	slate	6.19	5.60	4.93
55 D 8665	CAP-4	.500"	.200"	black	7.61	6.88	6.05

Order from Allied and be sure of same-day shipment of industrial quantities at OEM prices. Write, wire or phone for prompt price and delivery information. You can always depend upon Allied for everything in electronics because we maintain the world's largest stock of electronic parts. You always pay the lowest prices—and you always get the highest quality service.

MINNESOTA MINING

SCOTCHFLEX ADHESIVE AUDIO FLAT-CABLE SYSTEM



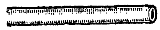


Type 800 flat cable has two paired, stranded conductors—adhesive sticks firmly to wall, molding, almost any surface. Type 829 has U terminals for perfect connections. Type 828 houses two sets of screw terminals. Ivory cable, gray plastic accessories.

Stock No.	Type	Description	Shpg. Wt.	Quantity	NET
55 D 9966	800	4-cond. cable	1½ lbs.	100-ft. roll	9.45
55 D 9967	828	Terminals	7 oz.	box of 10	12.20
55 D 9968	829	Connectors	3 oz.	box of 10	7.20
55 D 9969	830	Receptacles	10 oz.	box of 10	8.40
55 D 9970	832W	Wide plugs	3 oz.	box of 10	3.50
55 D 9971	832N	Narrow plugs	3 oz.	box of 10	3.50
55 D 9964	831	Corner covers	2 oz.	box of 10	1.20
55 D 9965	E14	Hand roller	10 oz.	box of one	1.89

ALPHA PLASTIC TUBING

ALPHLEX PVC-105



Plastic tubing meets MIL-1-631D, ASTM-D876 and ASTM-D922 specifications. Extremely high tensile strength. (Type F, Form U, Grade C, Class 1, Category 1.)

Sizes 24 to 12. Have 0.016" wall thickness, except sizes 24 and 22. 0.012". **Available in choice of clear, black, or red—specify color when ordering.** Av. shpg. wt. per 100 ft., 5 oz.

Stock No.	Size	Nom. I.D.	Per 100-Ft. Coil 1-4	5-9	10-49
55 D 9269 C	24	.022"	2.43	2.11	1.80
55 D 9270 C	22	.027"	2.44	2.12	1.81
55 D 9271 C	20	.034"	2.49	2.16	1.85
55 D 9272 C	18	.042"	2.58	2.23	1.88
55 D 9273 C	16	.063"	2.72	2.35	1.96
55 D 9274 C	14	.066"	2.89	2.49	2.04
55 D 9275 C	12	.085"	3.07	2.64	2.16

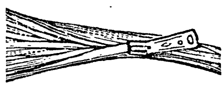
Sizes 10 to 2. Size 10, .016" wall thickness; all other sizes, .020". **Available in choice of clear, black, red—specify color.** Av. shpg. wt. per 100 ft., 10 oz.

Stock No.	Size	Nom. I.D.	1-4	5-9	10-49
55 D 9281 C	10	.106"	3.27	2.81	2.35
55 D 9282 C	8	.133"	4.57	3.89	3.16
55 D 9283 C	6	.166"	5.19	4.41	3.52
55 D 9284 C	4	.208"	6.00	5.08	3.97
55 D 9285 C	2	.263"	6.91	5.84	4.50

Sizes 0 to ⅝". Wall thicknesses, size 0, .020"; *.025"; †.030". **Choice of clear or black—specify.** Av. shpg. wt. per 100-ft. coil, 5 lbs.

Stock No.	Size	Nom. I.D.	1-4	5-9	10-49
55 D 9292 C	0	.330"	7.98	6.73	5.14
55 D 9293 C	5/16"*	.312"	9.42	7.94	6.04
55 D 9294 C	⅜"*	.375"	10.81	9.09	6.91
55 D 9295 C	½"*	.500"	12.77	10.64	8.07
55 D 9296 C	⅝"†	.625"	16.38	15.30	11.73

ZIP-31 PLASTIC ZIPPER-TUBING

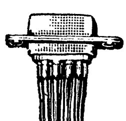


Designed to harness, cover, and protect electrical cables. Zip to close or open. Fabricated from .020" polyvinyl sheet of **MIL-I-631D, Grade C materials.** Rated 759 v/mil; tensile strength, 3810 PSI. Flexible from —86°C to +105°C. One slider with each 25' of tubing. Order tubing ¼" larger than total O.D. of wires to be covered. **Available in black or clear—specify.**

Stock No.	Inside Dia.	Wt., Lbs.	100-FT. COILS, EACH 1-4	5-9	10-49
55 D 8376 C	½"	4	34.00	31.00	29.00
55 D 8377 C	⅝"	4½	34.50	31.50	29.50
55 D 8378 C	¾"	5	35.00	32.00	30.00
55 D 8379 C	⅞"	5½	36.00	32.50	30.50
55 D 8385 C	1"	6¼	36.00	33.00	31.00

55 D 9972. Type AB 295 Extra Metal Sliders. For above. 2 oz. Each .05

FIT-350 IRRADIATED KYNAR™ SHRINKABLE TUBING



Tough, semi-rigid polyvinylidene fluoride. Withstands continuous temperatures of —55 to +175°C. Outstanding cut-through and abrasion resistance. Supplied at "Min. I.D." size; shrinks to "Recov. I.D." when heated to 347°F. 2:1 shrinkage ratio. Longitudinal shrinkage only 5%. **Clear only.** Av. wt.: 6" lengths, 4 oz.; 4' lengths, 1 lb.

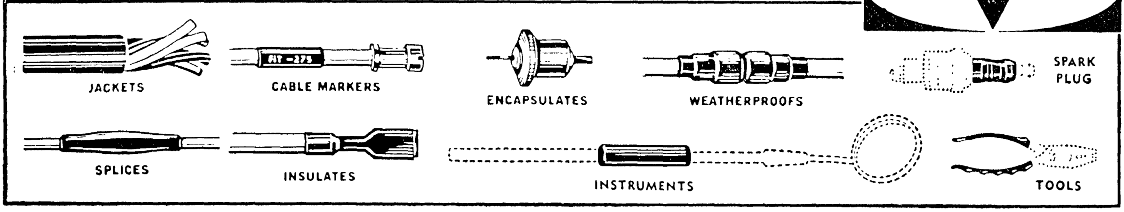
4-FT. LENGTHS

Stock No.	Size	Min. I.D.	Recov. I.D.	Recov. Wall Thickness	Lengths Per Box	PER BOX
55 D 8676 X	3/64"	.046"	.023"	.010"	25	14.70
55 D 8677 X	1/16"	.063"	.031"	.010"	25	16.05
55 D 8678 X	3/32"	.093"	.046"	.010"	25	19.30
55 D 8679 X	⅛"	.125"	.062"	.010"	25	21.20
55 D 8680 X	3/16"	.187"	.093"	.010"	25	32.85
55 D 8681 X	¼"	.250"	.125"	.012"	25	41.20
55 D 8682 X	⅜"	.375"	.187"	.012"	25	58.90
55 D 8683 X	½"	.500"	.250"	.012"	5	22.46
55 D 8684 X	¾"	.750"	.375"	.017"	5	41.27
55 D 8685 X	1"	1.000"	.500"	.019"	5	75.88

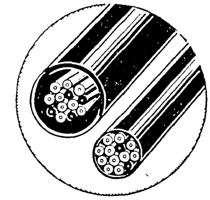
6-INCH LENGTHS

Stock No.	Size	Min. I.D.	Recov. I.D.	Recov. Wall Thickness	Lengths Per Box	PER BOX
55 D 9145	3/64"	.046"	.023"	.010"	32	4.00
55 D 9146	1/16"	.063"	.031"	.010"	28	4.00
55 D 8874	3/32"	.093"	.046"	.010"	24	4.00
55 D 8875	⅛"	.125"	.062"	.010"	20	4.00
55 D 9147	3/16"	.187"	.093"	.010"	16	4.00
55 D 8877	¼"	.250"	.125"	.012"	12	4.00
55 D 8878	⅜"	.375"	.187"	.012"	8	4.00
55 D 8879	½"	.500"	.250"	.012"	4	4.00
55 D 8880	¾"	.750"	.375"	.017"	2	4.00
55 D 8881	1"	1.000"	.500"	.019"	1	4.00

Alphlex "FIT" Shrinkable Tubing by ALPHA WIRE



FIT-105 FLEXIBLE TUBING



Irradiated polyvinylchloride (PVC). Provides snug, flexible insulation that's ideal for cable jacketing, cable markers, etc. Excellent for insulation over splices. Supplied at "Min. I.D." size; shrinks to "Recov." I.D. in only 7 seconds when heated to 325° F. Black only. Av. shpg. wt. per 100 ft., 1½ lbs. Inquire for prices on larger quantities than those shown.

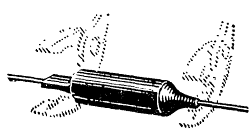
Stock No.	Size	Wt. lbs.	Min. I.D.	Recov. I.D.	Nom. Wall Thickness	PER 25' COIL
55 D 8635	3/64"	.1	.046"	.023"	.020"	2.95
55 D 8636	1/16"	.1	.062"	.031"	.020"	3.06
55 D 8637	3/32"	.1	.093"	.046"	.020"	3.48
55 D 8638	1/8"	.2	.125"	.062"	.020"	3.25
55 D 8639	3/16"	.3	.187"	.093"	.025"	3.90
55 D 8640	1/4"	.4	.250"	.125"	.025"	4.40
55 D 8641	3/8"	.5	.375"	.187"	.030"	4.75
55 D 8642	1/2"	.8	.500"	.250"	.030"	5.50
55 D 8643	3/4"	1.3	.750"	.375"	.035"	6.90
55 D 8644	1"	2.2	1.000"	.500"	.040"	9.30
55 D 8645	1½"	3.9	1.500"	.750"	.045"	14.50
55 D 8646	2"	3.0	2.000"	1.000"	.050"	20.15

Stock No.	Size	Wt. lbs.	Min. I.D.	Recov. I.D.	Wall Thick.	PER 100' COIL 1-4	5-9	10-49
55 D 8647	3/64"	.1	.046"	.023"	.020"	9.15	7.10	6.10
55 D 8648	1/16"	.3	.062"	.031"	.020"	9.50	7.40	6.35
55 D 8649	3/32"	.5	.093"	.046"	.020"	10.15	8.45	7.25
55 D 8650	1/8"	1.1	.125"	.062"	.020"	10.70	9.85	7.65
55 D 8651	3/16"	1.4	.187"	.093"	.025"	12.80	12.00	9.15
55 D 8652	1/4"	1.4	.250"	.125"	.025"	16.30	14.88	11.30
55 D 8653	3/8"	2.0	.375"	.187"	.030"	17.75	16.39	12.45
55 D 8654	1/2"	4.5	.500"	.250"	.030"	17.36	13.30	12.45
55 D 8655	3/4"	5.0	.775"	.375"	.035"	24.50	17.75	16.65

FIT-105-MS Assortments. Each box contains an assorted selection of 6" lengths in various sizes (diameters). Available in black only. Av. shpg. wt., per box, 8 oz.

Stock No.	Mfr's Type	Tubing Size Range	6" Lgths. Per Box: Per Size	Total	PER BOX
55 D 8658	MS-1	3/64" thru 1/4"	10	60	4.00
55 D 8659	MS-2	3/8" thru 1"	10	40	8.00
55 D 8660	MS-3	1½" and 2"	7	14	7.00

FIT-300 POLYOLEFIN MOISTUREPROOF TUBING



Provides moistureproof encapsulation of components, insulates cable junctions, etc. Outer wall shrinks while inner wall melts and flows, filling all voids. Supplied at "Min. I.D."; shrinks to "Recov. I.D." at 275° F. *Heavy-walled, for use where a large volume of meltable material is needed.

4-FOOT LENGTHS (Av. shpg. wt., 1½ lbs.)

Stock No.	Size	Color	Min. I.D.	Recov. I.D.	Wall Thick.	Lengths Per Pkg.	PER PKG.
55 D 8890 X	1/8"	Brown	.125"	.023"	.038"	25	28.80
55 D 8891 X	3/16"	Gray	.060"	.060"	.043"	25	35.10
55 D 8892 X	1/4"	White	.080"	.080"	.047"	25	43.80
55 D 8893 X	3/8"	Red	.375"	.135"	.050"	25	48.85
55 D 8894 X	1/2"	Blue	.500"	.195"	.055"	5	13.82
55 D 8895 X	3/4"	Yellow	.750"	.313"	.065"	5	21.55
55 D 8896 X	3/10"	Blue	.300"	.050"	.100"*	25	100.05

6-INCH LENGTHS (Av. shpg. wt., 4 oz.)

Stock No.	Size	Color	Min. I.D.	Recov. I.D.	Wall Thick.	Lengths Per Pkg.	PER PKG.
55 D 9051	1/8"	Brown	.125"	.023"	.038"	14	4.00
55 D 9052	3/16"	Gray	.187"	.060"	.043"	12	4.00
55 D 9053	1/4"	White	.250"	.080"	.047"	10	4.00
55 D 9054	3/8"	Red	.375"	.135"	.050"	8	4.00
55 D 9055	1/2"	Blue	.500"	.195"	.055"	6	4.00
55 D 9056	3/4"	Yellow	.750"	.313"	.065"	4	4.00
55 D 9057	3/10"	Blue	.300"	.050"	.100"*	4	4.00

FIT-221 SHRINKABLE TUBING

Replaces FIT-275. Shrinks (2-1) to *recovered inside diameter in 7 seconds. Polyolefin extruded tubing in an expanded form. Slips over irregularly shaped material. When temperature of approx. 275° F (135° C) is applied for 7 seconds, it returns to its predetermined size. Forms tight-fitting bond. Available in black white and red—specify.

6-INCH LENGTHS (Av. shpg. wt., 4 oz.)

Stock No.	Size	Min. I.D.	Recov. I.D.*	Nom. Wall Thick	6" Lgths. Per Box	PER BOX
55 D 9935 C	3/64"	.050"	.023"	.016"	40	3.60
55 D 9936 C	1/16"	.062"	.031"	.017"	36	3.60
55 D 9937 C	3/32"	.093"	.046"	.020"	32	3.60
55 D 9938 C	1/8"	.125"	.062"	.020"	28	3.60
55 D 9939 C	3/16"	.191"	.089"	.020"	24	3.60
55 D 9940 C	1/4"	.250"	.125"	.025"	20	3.60
55 D 9941 C	3/8"	.378"	.178"	.025"	16	3.60
55 D 9942 C	1/2"	.500"	.250"	.025"	14	3.60
55 D 9943 C	3/4"	.750"	.375"	.030"	12	3.60
55 D 9944 C	1"	1.000"	.500"	.035"	8	3.60
55 D 9945 C	1½"	1.500"	.750"	.040"	5	3.60
55 D 9946 C	2"	2.000"	1.000"	.045"	3	3.60
55 D 9947 C	3"	3.000"	1.500"	.050"	2	3.60
55 D 9948 C	4"	4.000"	2.000"	.055"	1	3.60

4-FT. LENGTHS (Av. shpg. wt., 1½ lbs.)

Stock No.	Size	Min. I.D.	Recov. I.D.*	Wall Thick.	25 LENGTHS/BOX 1-4	5-9	10-49
55 D 9950 CX	3/64"	.050"	.023"	.016"	13.80	11.70	10.20
55 D 9951 CX	1/16"	.062"	.031"	.017"	14.60	12.30	10.70
55 D 9952 CX	3/32"	.093"	.046"	.020"	16.90	14.25	12.40
55 D 9953 CX	1/8"	.125"	.062"	.020"	17.90	15.20	13.25
55 D 9954 CX	3/16"	.191"	.089"	.020"	21.90	18.50	16.15
55 D 9955 CX	1/4"	.250"	.125"	.025"	27.60	23.20	20.25
55 D 9956 CX	3/8"	.378"	.178"	.025"	30.60	25.75	22.45

Stock No.	Size	Min. I.D.	Recov. I.D.*	Wall Thick.	5 LENGTHS/BOX 1-4	5-24	25-49
55 D 9957 CX	1/2"	.500"	.250"	.025"	6.90	5.85	5.10
55 D 9958 CX	3/4"	.750"	.375"	.030"	9.25	7.98	6.80
55 D 9959 CX	1"	1.000"	.500"	.035"	13.00	10.92	9.52
55 D 9960 CX	1½"	1.500"	.750"	.040"	19.60	16.38	14.28
55 D 9961 CX	2"	2.000"	1.000"	.045"	27.00	22.62	19.72

Stock No.	Size	Min. I.D.	Recov. I.D.*	Wall Thick.	2 LENGTHS/BOX 1-12	13-62	63-624
55 D 9962 CX	3"	3.000"	1.500"	.050"	17.10	14.32	12.48
55 D 9963 CX	4"	4.000"	2.000"	.055"	25.00	20.88	18.22

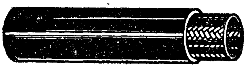
FIT-500 HIGH-TEMPERATURE TEFLON HEAT SHRINKABLE TUBING

Offers all the outstanding physical, electrical, and chemical advantages of Teflon in an easy to use heat-shrinkable tubing. At 327° C, tubing shrinks to approx. 65% of supplied size, returning to its pre-determined diameter. Longitudinal shrinkage is less than 10%. Forms a tight, flexible covering for wires, components, etc. Supplied in 2" lengths. Av. wt., 2 oz.

Stock No.	Mfr's Type	Min. I.D.	Recov. I.D.	Wall Thick.	Lgths/ Pkg.	PER PKG.
55 D 9580	FIT-500-30	.030"	.022"	.009"	50	19.45
55 D 9582	FIT-500-28	.035"	.025"	.009"	50	20.30
55 D 9583	FIT-500-26	.040"	.028"	.010"	50	22.05
55 D 9584	FIT-500-24	.050"	.032"	.010"	50	27.40
55 D 9585	FIT-500-22	.055"	.037"	.010"	50	29.40
55 D 9586	FIT-500-20	.060"	.044"	.012"	50	36.75
55 D 9591	FIT-500-18	.076"	.052"	.012"	50	40.40
55 D 9592	FIT-500-16	.093"	.063"	.012"	50	46.60
55 D 9593	FIT-500-14	.121"	.078"	.012"	50	52.40
55 D 9603	FIT-500-12	.153"	.096"	012"	25	38.28
55 D 9604	FIT-500-10	.191"	.116"	.012"	25	44.15
55 D 9605	FIT-500-8	.240"	.144"	.015"	25	65.98
55 D 9613	FIT-500-6	.302"	.178"	.015"	10	31.61
55 D 9615	FIT-500-4	.370"	.224"	.015"	10	38.24
55 D 9616	FIT-500-2	.430"	.278"	.015"	10	46.76
55 D 9689	FIT-500-0	.470"	.347"	.015"	10	56.91

Tubing, Wiring Accessories, Heat Guns

ALPHA PLASTIC IMPREGNATED FIBERGLAS TUBING TYPE PIF-30



Inorganic fiberglas base sleeving with tough, extremely flexible, heat resistant plastic insulation. Conforms to MIL-I-3190B, Grade B. Insulation will not peel or crack under extreme physical abuse; for use at continuous temperatures up to 130°C. Heat-treated fibers; ends will not fray.

30-INCH LENGTHS (*Pkg. of 5)

Stock No.	Gauge Size	Wall Thickness Max.	Wall Thickness Min.	Approx. I.D.	EACH
55 D 9510	20	.022″	.016″	.034″	*1.00
55 D 9511	18	.022″	.016″	.042″	*1.05
55 D 9512	16	.028″	.020″	.053″	*1.15
55 D 9515	14	.028″	.020″	.066″	*1.15
55 D 9520	12	.028″	.020″	.085″	*1.25
55 D 9617	10	.028″	.020″	.106″	*1.35
55 D 9621	8	.028″	.020″	.133″	*1.35
55 D 9622	6	.028″	.020″	.166″	*1.65
55 D 9631	5	.036″	.026″	.186″	*1.80
55 D 9632	2	.036″	.026″	.263″	*2.10

36-INCH LENGTHS

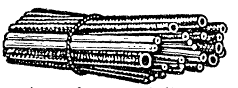
Stock No.	Gauge Size	Wall Thickness Max.	Wall Thickness Min.	Approx. I.D.	EACH
55 D 9633	5⁄16″	.042″	.030″	.330″	.51
55 D 9634	3⁄8″	.042″	.030″	.375″	.72
55 D 9635	1⁄2″	.042″	.030″	.500″	1.35
55 D 9636	5⁄8″	.042″	.030″	.625″	1.50

100-FOOT LENGTHS

Stock No.	Gauge Size	Wall Thickness Max.	Wall Thickness Min.	Approx. I.D.	EACH 1-4	EACH 5-9
55 D 9637	24	.022″	.016″	.022″	4.79	3.90
55 D 9638	22	.022″	.016″	.027″	5.05	4.05
55 D 9639	20	.022″	.016″	.034″	5.12	4.15
55 D 9643	18	.022″	.016″	.042″	5.21	4.25
55 D 9644	16	.028″	.020″	.053″	5.45	4.40
55 D 9677	14	.028″	.020″	.066″	5.62	4.60
55 D 9678	12	.028″	.020″	.085″	6.11	4.90
55 D 9680	10	.028″	.020″	.106″	6.86	5.50
55 D 9682	8	.028″	.020″	.133″	7.51	6.05
55 D 9683	6	.028″	.020″	.166″	8.42	6.80
55 D 9684	4	.036″	.026″	.208″	10.24	8.20
55 D 9685	2	.036″	.026″	.234″	12.88	10.30

DEARBORN VARNISHED SPAGHETTI TUBING

ASSORTED 10-INCH LENGTHS



Selection of cambric and vinyl spaghetti in various colors to permit easy coding of wiring. Highly popular; widely used by electronics experimenters and builders. Supplied in a variety of assorted diameters. Shpg. wt., 3⁄4 lb.

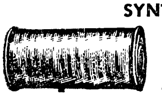
55 D 9106. 40-Piece Assortment .... .55

SELECTION OF 36-INCH LENGTHS

Standard-grade varnished tubing for TV shops, experimental labs, etc. Average dielectric strength, 4000 volts. Conform fully to V.T.S. and A.S.T.M. specifications. 5 lengths per Pkg.

For Wire Size	Stock No. Black	Stock No. Yellow	Stock No. Red	Stock No. Green	PER PKG. 1-4	PER PKG. 5-Up
20	55 D 9164	55 D 9165	55 D 9166	55 D 9167	.80	.73
18	55 D 9169	55 D 9170	55 D 9171	55 D 9172	.85	.77
16	55 D 9174	55 D 9175	55 D 9176	55 D 9177	.95	.87
10	55 D 9189	55 D 9190	....	....	1.30	1.19

SYNTHETIC FLAT LACING TAPES



Meet military requirements. .014″ thick, except type LC-134 is .010″. *MIL-T-713A, Type P, Class II. In black or white. Shpg. wt., 500-yd. spool, 1 lb.

BRAIDED NYLON—500-YD. SPOOLS

Stock No.	Mfr's Type	Color	Width	EACH 1-9	EACH 10-24	EACH 25-49
55 D 9980	LC136*	White	3⁄32″	8.45	7.88	7.35
55 D 9981	LC136*	Black	3⁄32″	9.14	8.61	7.98
55 D 9982	LC134	White	1⁄16″	5.41	5.04	4.73
55 D 9983	LC134	Black	1⁄16″	6.09	5.78	5.41

BRAIDED DACRON—500-YD. SPOOLS

Stock No.	Mfr's Type	Color	Width	EACH 1-9	EACH 10-24	EACH 25-49
55 D 9984	LC162	White	3⁄32″	8.45	7.88	7.35
55 D 9985	LC162	Black	3⁄32″	9.14	8.61	7.98

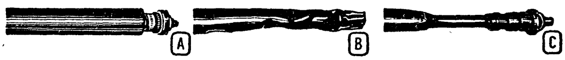
CABLE LACING CORD

High-quality twine for cable harness lacing. Pure flax, waxed and mildew-proofed. 50-lb. test. Hard-twist, 8-ply cord. Type 738 approx. 235 yards; Type 739 approx. 470 yards;

55 D 9446. Type 738. Shpg. wt. 3⁄4 lbs. 1.68

55 D 9449. Type 739. Shpg. wt., 1 1⁄4 lbs. 3.18

E.C.C. INSULTITE CP-150 SHRINKABLE TUBING



Black irradiated polyolefin, heat shrinkable tubing gives higher heat and environment resistance than vinyl. Flexible even at —58°F.

Stock No.	Size In.	Min. I.D.	Recov. I.D.	Wall Thick.	Feet/ Pkg.	PER PKG. 1	PER PKG. 2-4
55 D 9482	3⁄64	.046″	.023″	.020″	500	5.85	5.10
55 D 9483	1⁄16	.062″	.031″	.020″	500	6.15	5.35
55 D 9484	1⁄8	.125″	.062″	.025″	200	9.20	7.60
55 D 9485	3⁄16	.187″	.093″	.025″	200	11.20	9.25
55 D 9486	1⁄4	.250″	.125″	.025″	200	14.00	11.60
55 D 9487	3⁄8	.375″	.187″	.030″	200	15.50	12.90

BELDEN VINYL HEAT SHRINKABLE TUBING

Shrinks to 50% of original diameter in 5 sec; less than 15% lgth. change. For up to 105°C. Specify Clear, Black, Red or Light Blue.

Size In.*	Min. I.D.	Recov. I.D.	Wall Thick.	25-foot spool Stock No.	25-foot spool EACH	100-foot spool Stock No.	100-foot spool 1-4
1⁄8	.135″	.075″	.014″	55 D 7159 C	3.27	55 D 7160 C	10.75
3⁄16	.200″	.110″	.014″	55 D 7161 C	3.74	55 D 7162 C	12.80
1⁄4	.270″	.150″	.020″	55 D 7164 C	4.46	55 D 7165 C	16.40
3⁄8	.395″	.225″	.020″	55 D 7166 C	4.80	55 D 7167 C	17.85
1⁄2	.520″	.300″	.020″	55 D 7173 C	5.53	55 D 7174 C	18.70
5⁄8	.645″	.375″	.020″	55 D 7175 C	6.38	55 D 7176 C	22.50
3⁄4	.770″	.450″	.020″	55 D 7189 C	6.93	55 D 7190 C	24.65
7⁄8	.895″	.525″	.020″	55 D 7193 C	8.76	55 D 7197 C	32.90
1	1.02″	.600″	.020″	55 D 7194 C	9.35	55 D 7200 C	35.70
1 1⁄2	1.52″	.900″	.030″	55 D 7195 C	14.58	55 D 7204 C	58.65
2	2.02″	1.200″	.030″	55 D 7196 C	20.23	55 D 7205 C	86.70

BELDEN IRRADIATED HEAT SHRINKABLE TUBING

Irradiated polyolefin shrinks to 50% diameter at 275°F. Meets MIL-I-23053 (WEPS) Rev. A. Oper. temp., 135°C. Solvent, fungus resistant. *Tubing is oversize to fit object size indicated.

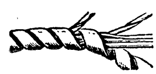
6-INCH LENGTHS (Specify Black or Clear)

Stock No.	Size In.*	Min. I.D.	Recov. I.D.	Nom. Wall Thick.	Lgths. Per Pkg.	PER PKG.
55 D 7209 C	3⁄64	.046″	.023″	.016″	25	2.10
55 D 7232 C	1⁄16	.063″	.031″	.017″	25	2.35
55 D 7233 C	3⁄32	.093″	.046″	.020″	25	2.60
55 D 7234 C	1⁄8	.125″	.062″	.020″	25	3.00
55 D 7235 C	3⁄16	.187″	.093″	.020″	25	3.50
55 D 7236 C	1⁄4	.250″	.125″	.025″	25	4.25
55 D 7248 C	3⁄8	.375″	.187″	.025″	25	5.30
55 D 7249 C	1⁄2	.500″	.250″	.025″	25	6.05
55 D 7278 C	3⁄4	.750″	.375″	.030″	25	7.05

4-FOOT LENGTHS

Specify Black, Clear, Red or Yellow. †Black or Clear only.

Stock No.	Size In.*	Min. I.D.	Recov. I.D.	Nom. Wall Thick.	Lgths. Per Pkg.	PER PKG.
55 D 7281 CX	3⁄64†	.046″	.023″	.016″	10	5.60
55 D 7333 CX	1⁄16†	.063″	.031″	.017″	10	5.90
55 D 7342 CX	3⁄32	.093″	.046″	.020″	25	17.00
55 D 7382 CX	1⁄8	.125″	.062″	.020″	25	18.00
55 D 7483 CX	1⁄4	.250″	.125″	.025″	25	27.75



HELI-TUBE SPIRAL-CUT CABLE WRAP

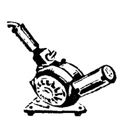
Suffix "C" is clear plastic; "N", nylon; "FR", fire resistant. Av. wt., 100-ft., 2 lbs.

100-FOOT SPOOLS

Stock No.	Mfr's Type	Dia.	PER SPOOL 1-9	PER SPOOL 10-49	PER SPOOL 50-99	PER SPOOL 100-Up
55 D 9478	HT-1/8C	1⁄8″	3.25	2.70	2.40	1.80
55 D 9480	HT-1/4C	1⁄4″	5.40	4.50	4.00	3.20
55 D 9491	HT1⁄2C	1⁄2″	12.00	11.20	8.64	6.40
55 D 9496	HT-1/8N	1⁄8″	6.75	6.20	5.20	4.15
55 D 9498	HT1⁄4N	1⁄4″	12.40	10.10	8.94	8.20
55 D 9716	HT1⁄2N	1⁄2″	34.40	32.80	31.20	25.80
55 D 9721	HT-1/8FR	1⁄8″	4.35	3.60	3.20	2.40
55 D 9493	HT1⁄4FR	1⁄4″	7.20	6.64	5.52	4.40
55 D 9825	HT1⁄2FR	1⁄2″	15.20	13.60	11.04	8.80

500-FOOT SPOOLS

Stock No.	Mfr's Type	Dia.	PER SPOOL 1-9	PER SPOOL 10-49	PER SPOOL 50-99	PER SPOOL 100-Up
55 D 9479	HT-1/8C	1⁄8″	16.25	13.50	12.00	9.00
55 D 9489	HT-1/4C	1⁄4″	27.00	22.50	20.00	16.00
55 D 9492X	HT1⁄2C	1⁄2″	60.00	56.00	43.20	32.00
55 D 9497	HT-1/8N	1⁄8″	32.75	31.00	26.00	20.75
55 D 9499	HT1⁄4N	1⁄4″	62.00	50.50	44.70	42.00
55 D 9488	HT-3⁄8	3⁄8″	49.25	40.00	35.50	33.50



MASTER HEAT GUNS

Deliver heat up to 1000°F without danger of open flame. Adjustable intake. Type HG-501, 500-750°F; HG-751, 750-1000°F. For 115 v. AC. 5 lbs.

55 D 8576. Type HG-501. 14 amp. 45.35

55 D 8574. Type HG-751. 20 amp. 56.25

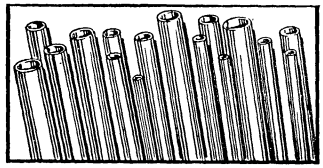
Spaghetti by Trimflex, Inc.

Timely

TEFLON EXTRUDED FLEXIBLE TUBING

A high temperature "Class C" thin, flexible insulation that will not melt or flow as conventional thermoplastic materials. Spaghetti tubing extruded from pure teflon TFE flurocarbon resins—is free of contaminants, stresses, and is of uniform density and color. Nonflammable; unharmed by soldering irons; moistureproof. Dielectric strength, 500-1000 V/Mil. No variation of electrical properties from −67° C to 260°C, or 60 cps to 100 mc. Meets MIL-I-22129C, AMS 3653B, MIL-I-3158, MIL- 104-C. Natural, black or red—specify when ordering.

- Natural, Red, Black
- Resists High Temperatures
- Nonflammable and Resistant to Moisture



THIN-WALL SPAGHETTI TEFLON TUBING

Stock No.	AWG Size	Inside Dia. (In.) Min.	Nom.	Max.	Wall (In.) Thickness	Tol. ±	100' Spools EACH	2-4	5-9	10-49	50-99	100-249	250-Up
55 D 9500 C	30	.010	.013	.015	.009	.002	9.00	6.62	5.95	5.34	4.89	4.56	4.37
55 D 9504 C	28	.013	.015	.019	.009	.002	8.00	5.70	5.28	4.39	4.20	4.04	3.79
55 D 9508 C	26	.016	.018	.022	.009	.002	7.00	5.60	5.03	4.00	3.80	3.67	3.43
55 D 9516 C	24	.020	.022	.027	.009	.002	7.00	5.60	5.03	4.00	3.80	3.67	3.43
55 D 9521 C	22	.025	.027	.032	.009	.002	9.00	6.62	5.95	5.34	4.89	4.56	4.37
55 D 9525 C	20	.032	.034	.039	.012	.003	12.00	9.33	7.78	6.15	5.98	5.69	5.35
55 D 9529 C	19	.036	.038	.043	.012	.003	12.00	9.33	7.78	6.15	5.98	5.69	5.35
55 D 9533 C	18	.040	.042	.049	.012	.003	12.48	10.73	9.04	7.24	6.97	6.66	6.20
55 D 9537 C	17	.045	.047	.054	.012	.003	14.18	11.46	9.79	7.92	7.60	7.26	6.80
55 D 9541 C	16	.051	.053	.061	.012	.003	14.53	12.67	10.43	8.64	8.22	7.78	7.45

AWG Size	Inside Dia. (In.) Min.	Nom.	Max.	Wall (In.) Thick-ness	Tol. ±	Stock No.	50' Spools EACH	Stock No.	100' Spools EACH	2-4	5-9	10-49	50-99	100-249	250-Up
15	.057	.059	.067	.012	.003	55 D 9545 C	7.29	55 D 9546 C	14.58	12.79	10.83	8.80	8.36	8.02	7.66
14	.064	.066	.072	.012	.003	55 D 9549 C	8.02	55 D 9550 C	16.04	13.76	11.55	9.35	8.97	8.59	8.20
13	.072	.076	.080	.012	.003	55 D 9553 C	8.55	55 D 9554 C	17.17	15.62	12.67	10.55	10.12	9.70	9.30
12	.081	.085	.089	.012	.003	55 D 9557 C	9.24	55 D 9558 C	18.48	16.63	13.63	11.35	10.79	10.43	10.00
11	.091	.095	.101	.012	.003	55 D 9561 C	10.23	55 D 9562 C	20.45	18.61	15.08	12.56	12.05	11.55	11.19
10	.120	.106	.112	.012	.003	55 D 9565 C	11.02	55 D 9566 C	22.04	19.36	15.48	13.54	13.00	12.45	12.07

AWG Size	Inside Dia. (In.) Min.	Nom.	Max.	Wall (In.) Thick-ness	Tol. ±	Stock No.	25' Coils EACH	Stock No.	50' Coils EACH	Stock No.	100' Coils EACH	2-4	5-9	10-49
8	.129	.133	.141	.015	.004	55 D 9575 C	6.88	55 D 9576 C	13.76	55 D 9577 C	27.52	25.75	23.15	21.03
7	.144	.148	.158	.015	.004	55 D 9578 C	7.36	55 D 9579 C	14.73	55 D 9581 C	29.45	27.99	25.30	22.98
6	.162	.166	.178	.015	.004	......	......	......	......	......	31.82	30.28	27.50	25.05
5	.182	.188	.198	.015	.004	55 D 9590 C	8.71	55 D 9595 C	17.43	55 D 9569 C	34.85	33.93	30.88	28.18
4	.204	.208	.224	.015	.004	55 D 9597 C	9.53	55 D 9498 C	19.05	......	......	......	......	......
3	.229	.234	.249	.015	.004	55 D 9600 C	10.44	55 D 9601 C	20.87	55 D 9602 C	41.74	40.52	37.40	34.25
⅛	.120	.125	.130	.015	.004	55 D 9572 C	6.55	......	......	55 D 9574 C	26.18	24.57	22.02	20.02

STANDARD-WALL SPAGHETTI TEFLON TUBING

Stock No.	AWG Size	Inside Dia. (In.) Min.	Nom.	Max.	Wall (In.) Thickness	Tol. ±	100' Spools EACH	2-4	5-9	10-49	50-99	100-249	250-Up
55 D 9606 C	24	.020	.022	.027	.012	.002	9.00	8.01	6.89	5.52	5.24	4.96	4.66
55 D 9610 C	22	.025	.027	.032	.012	.002	10.00	8.98	7.62	6.09	5.79	5.48	5.18
55 D 9618 C	20	.032	.034	.039	.016	.003	13.00	12.15	10.31	8.37	7.96	7.55	7.11
55 D 9624 C	18	.040	.042	.049	.016	.003	18.70	14.68	12.50	9.84	9.36	8.86	8.36

AWG Size	Inside Dia. (In.) Min.	Nom.	Max.	Wall (In.) Thick-ness	Tol. ±	Stock No.	50' Spools EACH	Stock No.	100' Spools EACH	2-4	5-9	10-49	50-99	100-249	250-Up
14	.064	.066	.072	.016	.003	55 D 9641 C	12.02	55 D 9642 C	24.03	18.96	15.81	12.66	12.07	11.50	10.87
12	.081	.085	.089	.016	.003	55 D 9646 C	13.71	55 D 9647 C	27.41	22.02	18.25	15.20	14.53	13.85	13.07
10	.102	.106	.112	.016	.003	55 D 9649 C	16.51	......	......	......	......	......	......	......	......

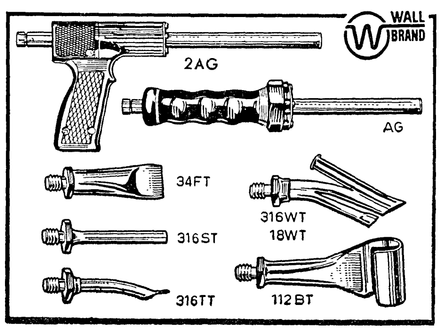
LIGHTWEIGHT SPAGHETTI TEFLON TUBING

28	.012	.015	.017	.006	.002	55 D 9673 C	3.50	55 D 9674 C	7.00	4.70	4.23	3.80	3.47	3.25	3.25
26	.016	.018	.021	.006	.002	55 D 9676 C	3.50	55 D 9697 C	7.00	4.78	4.26	3.41	3.24	3.07	3.07
24	.020	.022	.025	.006	.022	55 D 9701 C	4.00	55 D 9702 C	8.00	5.09	4.54	3.64	3.46	3.28	3.28
22	.025	027	.031	.006	.002	55 D 9704 C	4.00	55 D 9705 C	8.00	5.92	5.28	4.23	3.91	3.81	3.81
20	.032	.034	.038	.006	.002	55 D 9707 C	5.50	55 D 9708 C	11.00	7.39	6.40	4.92	4.67	4.43	4.43
18	.040	.042	.046	.006	.002	55 D 9710 C	4.89	55 D 9711 C	9.77	8.87	7.70	5.91	5.68	5.38	5.38

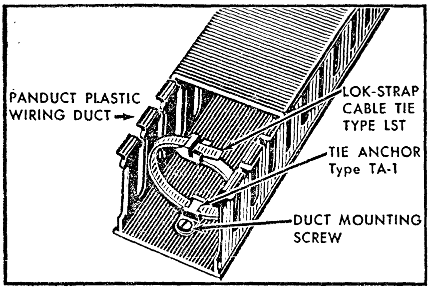
WALL MFG. CO. HOT AIR GUNS AND ACCESSORIES

The perfect guns to shape, form, weld, and seal thermoplastic. Also, an excellent heat source for shrinkable tubing. Guns come with heating element, one tip, hose assembly with 8′ of neoprene hose, air regulator and pressure gauge. Tips are interchangeable. Choice of pistol grip or straight handle guns.

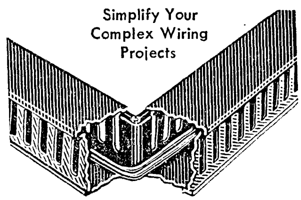
Stock No.	Mfr's Type	Description and Range	Oz.	EACH
55 D 8209	2AG-300	Pistol Grip 290° F to 770° F	10	85.00
55 D 8210	2AG-400	Pistol Grip 370° F to 960° F	10	85.00
55 D 8211	2AG-500	Pistol Grip 450° F to 1000° F	10	85.00
55 D 8212	AG-300	Straight Handle 290° F to 770° F	9	85.00
55 D 8213	AG-400	Straight Handle 370° F to 960° F	9	85.00
55 D 8238	AG-500	Straight Handle 450° F to 1000° F	9	85.00
55 D 8195	#34 F.T.	Flared Tip ½″ Barrel to ¾″ Flat	1	7.05
55 D 8196	#316 T.T.	Plastic Tacking Tip ¼″ Dia.	1	8.25
55 D 8197	#316 W.T.	Plastic Speed Welding Tip, 3/16″ Rod	1	10.50
55 D 8198	#18 W.T.	Plastic Speed Welding Tip, ⅛″ Rod	1	10.50
55 D 8199	#112 B.T.	Baffle Tip For Reducing Tubing	1	10.50
55 D 8634	#316 S.T.	Straight Tip For General Use	1	5.90



PANDUCT PLASTIC SNAP-SLOT WIRING DUCTS



Simplify Your Complex Wiring Projects



CS-1 Corner Strip Duct for Making Smooth Rounded Corners

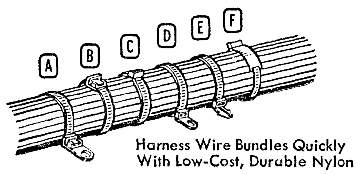
Vinyl plastic wiring ducts with rounded edges. Simplifies complex wiring; protects wire insulation. In 6-ft. sections; duct can be easily cut to any length with a hacksaw. Unique snap-slot design permits easy insertion of wires. Self-locking wire slots prevent accidental removal of wires. The wire can be removed with no electrical disconnections to facilitate tracing and revisions. Ducts can be used with Lok-Strap cable ties (below) to retain wires before cover is installed, and with CS-1 corners strips (listed below—see ill. above), for corners. With cover. **Specify dark gray or white.**

Stock No.	Mfr's Type	Nominal Size W	Nominal Size H	Shpg. Wt. Per 100 Ft.	PER SIX-FOOT SECTION 1-16	17-33	34-Up
55 D 8701 CX	E .5 x .5	½"	½"	15 lbs.	3.16	2.51	2.25
55 D 9196 CX	E .5 x .62	½"	⅝"	16 lbs.	3.30	2.64	2.44
55 D 8702 CX	E .5 x 1	½"	1"	20 lbs.	3.56	2.84	2.64
55 D 8703 CX	E .5 x 1.25	½"	1¼"	20 lbs.	3.96	3.10	2.84
55 D 8704 CX	E .5 x 1.75	½"	1¾"	20 lbs.	4.09	3.30	3.04
55 D 8707 CX	E .75 x .75	¾"	¾"	20 lbs.	3.56	2.84	2.64
55 D 8705 CX	E .75 x 1	¾"	1"	22 lbs.	3.63	2.91	2.70
55 D 9197 CX	E .75 x 2	¾"	2"	29 lbs.	4.95	3.96	3.63
55 D 8706 CX	E 1 x 1	1"	1"	25 lbs.	3.76	3.03	2.77
55 D 9198 CX	E 1 x 1.5	1"	1½"	27 lbs.	4.75	3.83	3.50
55 D 8708 CX	E 1 x 2	1"	2"	30 lbs.	5.01	4.02	3.70
55 D 9199 CX	E 1.5 x 1.5	1½"	1½"	30 lbs.	5.15	4.16	3.76

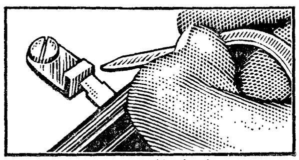
MODEL CS-1 CORNER STRIP

For applications requiring smooth, rounded corners at duct junctions. Easily cut to correspond to any duct height. (See illustration above). Comes in 5-ft. sections. Shpg. wt./100 ft., 15 lbs. **Specify dark gray or white.**
55 D 8290 CX........Per 5-Ft. Section 1.60

CABLE TIES AND CLAMPS



Harness Wire Bundles Quickly With Low-Cost, Durable Nylon



SSC Sta-Strap Cable Clamp

Mounting Methods

STA-STRAP SERIES SS

Permanent, hand or tool-applied white nylon ties for fast harnessing of wire bundles. All are self-locking. For wire bundles up to 1¾" dia., except *4" and †¾" dia. Available as tie (types with "T" in Mfr's Type No.); clamp (types with "C"); identification markers (types with "M"); or push clamp (types with "P"). Type SSC nylon clamps (see drawing above) have integral mounting tab; can be mounted in equipment before or after wiring. Suffix H in Mfr's Type No. denotes heavy-duty Sta-Strap. These heavy-duty units are hand applied—no installation tool available. Sta-Straps meet applicable MIL Specs. **Supplied in packages of 100.**

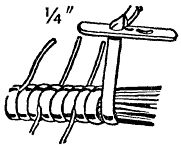
Stock No.	Mfr's Type	Fig.	Lgth.	Wt. Per 100	PER PACKAGE OF 100 1-4	5-9	10-99	100-249
55 D 8710	SST-1†	C	4"	4 oz.	3.60	2.85	2.70	2.55
55 D 8251	SST-2	C	6¾"	5 oz.	4.30	3.40	3.25	3.05
55 D 8711	SST-4*	C	15"	9 oz.	9.80	7.80	7.20	6.60
55 D 9001	SST-4H*	C	15"	1¼ lbs.	14.50	11.50	11.00	10.45
55 D 8252	SSC-2	D	7⅜"	6 oz.	4.90	3.90	3.60	3.30
55 D 9002	SSC-4*	D	15"	10 oz.	10.80	8.60	7.95	7.55
55 D 9003	SSC-4H*	D	15"	1¼ lbs.	17.00	13.60	12.75	12.11
55 D 8712	SSM-2	F	6¾"	6 oz.	8.60	6.80	6.50	6.10
55 D 8713	SSM-4*	F	15"	10 oz.	14.10	11.20	10.45	9.65
55 D 8714	SSP-2	E	7¼"	7 oz.	6.15	4.90	3.90	3.60

LOK-STRAP SERIES LS

Releasable, hand-applied white nylon ties. Perfect for use with Wiring Ducts, above. For wire bundles up to 1¾" diameter, except *4" dia. Type LSC-2 is supplied with anchoring clamp. **All types are furnished in packages of 100.**

55 D 8253	LST-2	B	6¾"	6 oz.	6.90	5.45	5.20	4.90
55 D 8254	LST-4*	B	16"	10 oz.	12.00	9.45	9.00	8.50
55 D 8260	LSC-2	A	7⁵⁄₁₆"	7 oz.	7.45	5.90	5.60	5.30

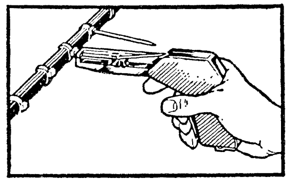
SPIRAL CABLE WRAPPING SHEATH



Wrap around wire-bundles provide protection with flexibility. Can be used with bundles from ³⁄₁₆" to 2" dia. Suffix "F" denotes clear polyethylene; "R" fire-resistant white polyethylene; "N" clear nylon. Cabling tool supplied free with std. ¼" O.D., 100-ft. coils. Wt. per 100 ft., 2 lbs.

Stock No.	Mfr's Type	PER 100' COIL 1-9	10-49	50-Up
55 D 8291	T-25F	6.25	5.00	4.45
55 D 8292	T-25R	9.15	7.35	6.50
55 D 8293	T-25N	14.00	11.20	9.95

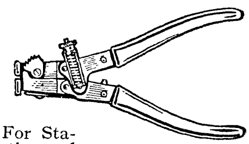
GS-2B GUN-TYPE CABLING TOOL



Works faster than spot tying, taping or other conventional cabling methods. One adjustable clamp replaces a complete range of standard cable clamps. Direct (in-line) feed with preset strap cut-off and controlled strap tension. Tension level controlled and adjusted without separate tools. Cut-off cannot occur until preset tension is reached. Strap tension is uniform with any bundle size. Used to install both standard and miniature Sta-Strap cable ties, clamps and identification markers. Wt., 1 lb.
55 D 9060........................19.00

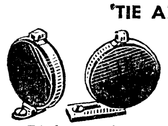
STA-STRAP INSTALLATION TOOL

Saves Time... Easy To Use



Type TS-2B. For Sta-Strap cable ties and clamps below, at left. Plier-type with cross-feed and preset tension control for clamping of cable bundles. Just squeeze handles. When preset tension level is reached, excess strap is automatically cut off. Wt., 1 lb.
55 D 8263........................19.00

TIE ANCHORS

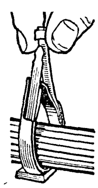


TA-1 TA-2

For cable ties, left. TA-1 is for inline mount; mounts before wire installation. TA-2 is for perpendicular mount; attach before or after installation.

Stock No.	Mfr's Type	Wt., Oz.	PER PKG. OF 100 1-4	5-9	10-99
55 D 8261	TA-1	3	3.00	2.40	2.25
55 D 8262	TA-2	4	3.60	2.85	2.70

PAN-RING INSTALLATION AID

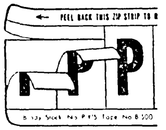


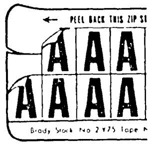
Just insert Sta-Strap and push. Pan-Ring guides strap around harness, threads it onto self-locking head. Pull tight and strap slips off Pan-Ring on to harness, ready to be cut flush. PR1 is for SST-1 Sta-Strap, PR2 for SST-2.

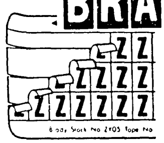
Stock No.	Mfr's Type	Wt., Oz.	PER PKG. OF 100 1-4	5-9	10-99
55 D 8734	PR1	4	12.00	9.45	9.00
55 D 8735	PR2	8	17.00	13.60	12.75

Self-Sticking Numbers, Markers, Cable Grips

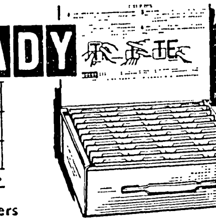
SELF-STICKING NUMBERS AND LETTERS







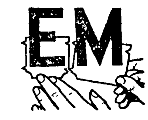
(A) 2/3x1 1/2" Markers (B) 9/16x3/4" Markers (C) 3/8x1/2" Markers



KIT

"QUICK-ALIGN" INSTANT SIGN KITS

- Self-Aligning, Pre-Spaced Letters
- Self-Sticking Vinyl
- Stick to Almost Any Hard Surface
- Conform to Federal Specifications



Easy to Apply

Self-sticking markers come on handy dispenser card for easy application. Versatile and low cost way to mark parts, drawers and shelves, control boards, panels, terminals—virtually anything. Brady numbers and letters are bold and black, in three sizes, printed on durable, bright-yellow vinyl cloth. Just strip the marker from dispenser card and apply to any clean, dry surface. Markers stick tight without using water or adhesive of any type, even with rough or compound-curved surfaces. Identical Marker Cards carry multiples of the same letter or number (specify letter(s) or number(s) wanted). Combination Cards carry a consecutive series of letters or numbers, as indicated in table below. Combination Pacs carry entire alphabet or numerical sequences, as shown in table. *15 cards, 1-5; 10 cards, 6-0.

IDENTICAL MARKER CARDS (Specify Letters or Numbers Wanted)

Stock No.	Mfr's Type	Fig.	Markers Per Card	Type	EACH CARD 1-24	25-99	100-499	500-999	1000-2499	2500-4999
55 D 9821 C	Y15	A	10	A-Z, 0-9	.25	.20	.16	.14	.13	.125
55 D 9822 C	Y75	B	32	A-Z, 0-9	.25	.20	.16	.14	.13	.125
55 D 9823 C	Y05	C	78	A-Z, 0-9	.25	.20	.16	.14	.13	.125

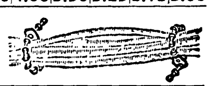
COMBINATION CARDS (Consecutive Series of Letters or Numbers)

Stock No.	Mfr's Type	Fig.	Markers Per Card	Type	1-24	25-99	100-499	500-999	1000-2499	2500-4999
55 D 9827	Y15	A	10	A-J	.25	.20	.16	.14	.13	.125
55 D 9828	Y15	A	10	K-T	.25	.20	.16	.14	.13	.125
55 D 9829	Y15	A	10	U-Z	.25	.20	.16	.14	.13	.125
55 D 9830	Y15	A	10	0-9	.25	.20	.16	.14	.13	.125
55 D 9831	Y75	B	32	A-Z	.25	.20	.16	.14	.13	.125
55 D 9832	Y75	B	32	0-9	.25	.20	.16	.14	.13	.125
55 D 9833	Y05	C	78	A-Z	.25	.20	.16	.14	.13	.125
55 D 9834	Y05	C	78	0-9	.25	.20	.16	.14	.13	.125

COMBINATION PACS (Multi-Card Assortments)

Stock No.	Mfr's Type	Fig.	No. of Cards	Type	EACH MULTI-CARD PAC 1-3	4-9	10-19	20-39	40-99	100-199
55 D 9835	Y15-LC	A	26	A-Z	5.00	4.00	3.50	3.25	3.13	3.00
55 D 9836	Y15-NC	A	25	Numer.*	5.00	4.00	3.50	3.25	3.13	3.00
55 D 9837	Y75-LC	B	26	A-Z	5.00	4.00	3.50	3.25	3.13	3.00
55 D 9838	Y75-NC	B	25	Numer.*	5.00	4.00	3.50	3.25	3.13	3.00
55 D 9839	Y05-LC	C	26	A-Z	5.00	4.00	3.50	3.25	3.13	3.00
55 D 9844	Y05-NC	C	25	Numer.*	5.00	4.00	3.50	3.25	3.13	3.00

RICHCO PLASTIC CABLE TIES



Bind cables into single harness. Plastic except *nylon. 100 per pkg. 4 oz.

Stock No.	Mfr's Type	Size	Color	PER PKG. OF 100 1-49	50-99	100-Up
55 D 7056	EZ-10	4"	Red	1.11	.90	.75
55 D 7057	EZ-11	4"	Yellow	1.11	.90	.75
55 D 7069	EZ-12	4"	Blue	1.11	.90	.75
55 D 7070	EZ-18*	4"	Clear	1.11	.90	.75
55 D 7076	EZ-14	10"	Red	3.80	3.20	2.70
55 D 7077	EZ-17*	10"	Clear	2.16	1.72	1.40

Sign kit features 533 pre-spaced, self-aligning letters on notched cards. Just line up the notches in the card, peel off the letter, and press in place. Heavy-duty adhesive sticks tight, permanently. Resistant to water, fading, grease and weather. Notches match perfectly; all sizes can be used interchangeably. Full set of letters, numbers, punctuation. Specify Black, Yellow, White or Red.

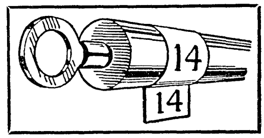
COMPLETE "QUIK-ALIGN" SIGN KITS

Stock No.	Mfr's Type	Letter Size	Shpg. Wt.	EACH KIT 1	2-4
55 D 8360C	QAV-533-1	1"	1 3/4 lbs.	32.00	29.00
55 D 8374C	QAV-533-2	2"	2 1/4 lbs.	38.50	35.00
55 D 8386C	QAV-533-3	3"	4 1/4 lbs.	48.00	44.00

REFILLS FOR ABOVE KITS (Identical Characters—Specify*)

Stock No.	Mfr's Type	Letter Size	Color	Characters*	Per Pkg. of 10 Identical
55 D 8388 C	QAV-B1	1"	Black	A-Z, -, ., 0-9	1.00
55 D 8394 C	QAV-Y1	1"	Yellow	A-Z, -, ., 0-9	1.00
55 D 8339 C	QAV-B2	2"	Black	A-Z, -, ., 0-9	1.20
55 D 8465 C	QAV-Y2	2"	Yellow	A-Z, -, ., 0-9	1.20
55 D 8466 C	QAV-B3	3"	Black	A-Z, -, ., 0-9	1.50
55 D 8467 C	QAV-Y3	3"	Yellow	A-Z, -, ., 0-9	1.50

SELF-STICKING WIRE MARKERS



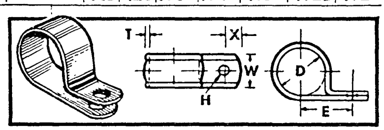
Type B-400MM. Preprinted, 1/2"-long markers for wires under 0.150". Positive coding of circuits, panels, etc. "Gardkote" adhesive sticks to any insulation—even teflon. Resists heat to 250°F, oil, solvents. Fadeproof ink. Meet MIL-E-5272A. Consecutive numbers.

Stock No.	Consecutive Numbers	Markers Per Card	PER CARD 1-24	25-99	100-499	500-999	1000-2499	2500-4999	5000-9999
55 D 8396	0-49	150	.30	.27	.216	.189	.177	.168	.162
55 D 8397	50-99	150	.30	.27	.216	.189	.177	.168	.162
55 D 8398	100-132	99	.30	.27	216	.189	.177	.168	.162
55 D 8399	133-165	99	.30	.27	.216	.189	.177	.168	.162
55 D 8400	166-198	99	.30	.27	.216	.189	.177	.168	.162

Type B-600 Extra-Durable Wire Markers. Heavy-duty 1 1/2" "Mylar" for wires .250" to .425" dia. Temp. range: —140°F to +400°F. One-piece construction, sub-surface printing, improved legibility, extra-firm adhesion, resistance to water, acid, solvents, etc. Consecutive numbers or letters except *Individual (Specify number wanted).

Stock No.	Consecutive Numbers	Markers Per Card	1-24	25-99	100-499	500-999	1000-2499	2500-4999	5000-9999
55 D 8387 C	0-25*	36	.23	.20	.16	.14	.13	.125	.12
55 D 8389	1-33	33	.23	.20	.16	.14	.13	.125	.12
55 D 8390	34-66	33	.23	.20	.16	.14	.13	.125	.12
55 D 8391	67-99	33	.23	.20	.16	.14	.13	.125	.12
55 D 8392	100-124	25	.23	.20	.16	.14	.13	.125	.12
55 D 8395	A-Z	26	.23	.20	.16	.14	.13	.125	.12

RICHCO CABLE CLIPS



ETHYL CELLULOSE. Withstand age, moisture, corrosion, shock, vibration and temperatures from —40° to +185° F. Meet MIL-242A. T=.060"; W=1/2"; H=.204". Pkg. 100.

Stock No.	Mfr's Type	PER PKG. OF 100 1-9	10-49	50-99	100-Up
55 D 7082	E-2	2.34	2.11	1.95	1.56
55 D 7083	E-3	2.40	2.16	2.00	1.60
55 D 7084	E-4	2.58	2.32	2.15	1.72
55 D 7085	E-5	2.85	2.56	2.37	1.90
55 D 7086	E-6	3.00	2.70	2.50	2.00
55 D 7087	E-7	3.30	2.97	2.75	2.20
55 D 7088	E-8	3.60	3.24	3.00	2.40
55 D 7089	E-9	4.20	3.78	3.50	2.80
55 D 7090	E-10	4.50	4.05	3.75	3.00
55 D 7091	E-11	4.80	4.32	4.00	3.20
55 D 7092	E-12	5.10	4.59	4.25	3.40
55 D 7093	E-14	5.40	4.86	4.50	3.60
55 D 7094	E-16	5.70	5.13	4.75	3.80
55 D 7098	E-18	6.00	5.40	5.00	4.00
55 D 7102	E-20	6.30	5.67	5.25	4.20

NYLON. Resist temperatures from —60° to +250°F. Types 771 to 777: T=.040"; W=3/8"; H=.167". Types 778 to 785: T=.060"; W=1/2". H=.204". Meet MIL-P17091A. Pkg. 100.

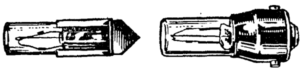
Stock No.	Mfr's Type	PER PKG. OF 100 1-9	10-49	50-99	100-Up
55 D 7108	N-2	3.60	3.24	3.00	2.40
55 D 7123	N-3	3.90	3.51	3.25	2.60
55 D 7124	N-4	4.20	3.78	3.50	2.80
55 D 7141	N-5	4.65	4.19	3.87	3.10
55 D 7142	N-6	4.80	4.32	4.00	3.20
55 D 7143	N-7	5.10	4.59	4.15	3.40
55 D 7144	N-8	5.40	4.86	4.50	3.60
55 D 7145	N-9B	6.60	5.94	5.50	4.40
55 D 7150	N-10B	7.20	6.48	6.00	4.80
55 D 7151	N-11B	7.50	6.75	6.25	5.00
55 D 7152	N-12B	8.10	7.29	6.75	5.40
55 D 7154	N-14B	8.70	7.83	7.25	5.80
55 D 7156	N-16B	10.20	9.18	8.50	6.80
55 D 7157	N-18B	12.00	10.80	10.00	8.00
55 D 7158	N-20B	13.80	12.42	11.50	9.20

DIMENSION CHART

Type	D	E	X	Type	D	E	X
E-2	1/8	.360	7/32	N-2	1/8	.310	5/32
E-3	3/16	.423	7/32	N-3	3/16	.373	5/32
E-4	1/4	.457	7/32	N-4	1/4	.407	5/32
E-5	5/16	.498	7/32	N-5	5/16	.448	5/32
E-6	3/8	.529	7/32	N-6	3/8	.479	5/32
E-7	7/16	.560	7/32	N-7	7/16	.510	5/32
E-8	1/2	.592	7/32	N-8	1/2	.542	5/32
E-9	9/16	.623	7/32	N-9B	9/16	.623	13/64
E-10	5/8	.654	7/32	N-10B	5/8	.654	13/64
E-11	11/16	.752	7/32	N-11B	11/16	.752	13/64
E-12	3/4	.783	7/32	N-12B	3/4	.783	13/64
E-14	7/8	.845	7/32	N-14B	7/8	.845	13/64
E-16	1	.908	7/32	N-16B	1	.908	13/64
E-18	1 1/8	.970	7/32	N-18B	1 1/8	1.002	13/64
E-20	1 1/4	1.062	7/32	N-20B	1 1/4	1.062	13/64

Sylvania Pilot Lamps, Lenses and Sockets

EXTENDED-SERVICE PILOT LAMPS



Slide Base — Miniature Bayonet Base

- 5000-Hr Minimum Life
- Flat-Top Bulb
- Flare-Stem Design

All have T2 type bulbs, 1.075″ long x ¼″ dia. Slide or miniature bayonet bases. See listing at right for housings. Wt., 2 oz.

Slide Base Stock No.	Slide Base Type	Bayonet Base Stock No.	Bayonet Base Type	Volts	Av. Watts	Av. Amps	End Foot-Candles
60 D 7248	6PSB	60 D 8828	6MB	6	.8	.140	800
60 D 7249	12PSB	60 D 8829	12MB	12	2.0	.170	2500
60 D 7250	24PSB	60 D 8830	24MB	24	1.7	.073	2200
60 D 7251	28PSB	60 D 8831	28MB	28	1.1	.040	2000
60 D 7252	48PSB	60 D 8832	48MB	48	2.5	.053	1500
60 D 7253	60PSB	60 D 8833	60MB	60	3.0	.050	2600
60 D 7254	120PSB	60 D 8834	120MB	120	3.0	.025	1500

1-9......Each .46 10-99......Each .40 100-499......Each .38
500-999...............Each .33 1000-Up...............Each .31

PHENOLIC UNIVERSAL HOUSINGS

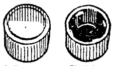
All metal parts nickel-plated. Rated 75 watts, 125 volts. U.L. Listed. Electrical contact can be made with AMP connector 42092-1, or leads can be soldered through holes in contacts. Lgth., 1²⁷⁄₃₂″. Max. pnl. thickness, ¹³⁄₃₂″. 2 oz.
60 D 7274. 1-9.....Each .65 10-99.............Each .56
100-499..Each .51 500-999..Each .49 1000-Up..Each .47

ASSEMBLED HOUSINGS AND LAMPS (Less lens)

Stock No.	Mfr's Type	Volts	Av. Watts	Av. Amps	End Foot-Candles
60 D 7275	6PSB/B0099	6	.8	.140	700
60 D 7276	12PSB/B0099	12	2.0	.170	2100
60 D 7277	24PSB/B0099	24	1.7	.073	2200
60 D 7278	28PSB/B0099	28	1.1	.040	1200
60 D 7279	48PSB/B0099	48	2.5	.053	1500
60 D 7280	60PSB/B0099	60	3.0	.050	2200
60 D 7281	120PSB/B0099	120	3.0	.025	1500

1-9....Each 1.12 10-99......Each .97 100-499.......Each .90
500-999...............Each .82 1000-Up...............Each .78

END COLOR CAPS



Profax and pyrex hard glass types. Profax for use below 1½ watts. Pyrex must be cemented. 2 oz.

Stock No.	Mfr's Type	Desc.	Color	EACH 1-9	10-99	100-499	500-999	1000-Up
60 D 7425	B8001	Profax	Red	.06	.055	.05	.045	.04
60 D 7426	B8002	Profax	Yel	.06	.055	.05	.045	.04
60 D 7427	B8003	Profax	Wht	.06	.055	.05	.045	.04
60 D 7428	B8004	Profax	Grn	.06	.055	.05	.045	.04
60 D 7429	B8005	Profax	Blue	.06	.055	.05	.045	.04
60 D 7430	B8071	Pyrex	Red	.07	.065	.06	.055	.05
60 D 7431	B8072	Pyrex	Yel	.07	.065	.06	.055	.05
60 D 7432	B8073	Pyrex	Wht	.07	065	.06	.055	.05
60 D 7433	B8074	Pyrex	Grn	.07	.065	.06	.055	.05
60 D 7434	B8075	Pyrex	Blue	.07	.065	.06	.055	.05

LENSES FOR PILOT LIGHT ASSEMBLIES

For assemblies on this page. Made of a high-temperature plastic that avoids lens-melting and signal distortion.

Color	JEWELED LENS Stock No.	Mfr's Type	CLEAR LENS Stock No.	Mfr's Type	OPAQUE LENS Stock No.	Mfr's Type
Red	60 D 7255	B0100	60 D 7259	B0110	60 D 7270	B0130
Blue	60 D 7256	B0103	60 D 7262	B0113	....	......
Green	60 D 7257	B0102	60 D 7261	B0112	60 D 7272	B0132
Amber	60 D 7258	B0106	60 D 7260	B0111	....	......
Yellow	....	......	60 D 7263	B0114	60 D 7271	B0131
Clear	....	......	60 D 7264	B0116	....	......
White	....	......	....	......	60 D 7273	B0133

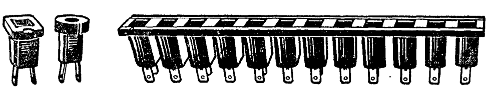
1-9......Each .18 10-99......Each .17 100-499......Each .15
500-999...............Each .13 1000-Up...............Each .12

Slide Base — Unbased

INDICATOR LAMPS AND SOCKETS

Long life, minimum 5000 hours. Electrical contact made with AMP connector 42092-1 or by soldering leads through holes in contacts. T2 bulb. *Cherry-red glow. Shpg. wt., 2 oz.

Volts	Current (ma)	End Foot-Candles	SLIDE BASE LAMPS Stock No.	Mfr's Type	EACH 1-9	10-99	100-499	500-999	1000-Up	UNBASED LAMPS Stock No.	Mfr's Type	EACH 1-9	10-99	100-499	500-999	1000-Up
4.0	35-45	200	60 D 7288	4ESB	.46	.40	.38	.33	.31	60 D 7411	4ES	.36	.31	.28	.25	.23
5.0	35-45	225	60 D 7289	5ESB	.46	.40	.38	.33	.31	....	......	...	...	...	...	...
6.0	35-45	250	60 D 7290	6ESB	.46	.40	.38	.33	.31	60 D 7413	Z0ES	.36	.31	.28	.25	.23
10.0	35-45	450	60 D 7291	10ESB	.46	.40	.38	.33	.31	60 D 7414	10ES	.36	.31	.28	.25	.23
10.0	15-20	100	60 D 7292	10CSB	.70	.60	.53	.50	.46	60 D 7415	10CS	.33	.28	.25	.22	.21
10.0	9-11	*	60 D 7293	10ASB	.70	.60	.53	.50	.46	60 D 7416	10AS	.51	.46	.42	.37	.35
12.0	35-45	800	60 D 7294	12ESB	.46	.40	.38	.33	.31	60 D 7417	12ES	.36	.31	.28	.25	.23
16.0	35-45	900	60 D 7295	16ESB	.46	.40	.38	.33	.31	60 D 7418	16ES	.36	.31	.28	.25	.23
16.0	15-20	150	60 D 7296	16CSB	.46	.40	.38	.33	.31	60 D 7419	16CS	.36	.31	.28	.25	.23
18.0	35-45	1000	60 D 7297	18ESB	.46	.40	.38	.33	.31	....	......	...	...	...	...	...
24.0	35-45	1100	60 D 7298	24ESB	.46	.40	.38	.33	.31	60 D 7421	24ES	.36	.31	.28	.25	.23
24.0	15-20	200	60 D 7299	24CSB	.46	.40	.38	.33	.31	60 D 7422	24CS	.36	.31	.28	.25	.23
28.0	35-45	1285	60 D 7409	28ESB	.46	.40	.38	.33	.31	60 D 7423	28ES	.36	.31	.28	.25	.23
48.0	35-45	2000	60 D 7410	48ESB	.51	.46	.42	.37	.35	60 D 7424	48ES	.41	.35	.33	.28	.26



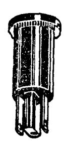
INDICATOR SOCKETS (Single-Socket Type)

60 D 7282. B0150. Round. Body: ⁴⁷⁄₆₄x½″ dia. Flange: ³⁷⁄₆₄″ dia. 2 oz.
1-9.......Ea. .26 10-99.......Ea. .24 100-499........Ea. .22
500-999...............Ea. .19 1000-Up...............Ea. .18
60 D 7283. B0151. Rectangular. Same body size as above. Flange: ½x¾″.
1-9.......Ea. .26 10-99.......Ea. .24 100-499........Ea. .22
500-999...............Ea. .19 1000-Up...............Ea. .18

STRIP SOCKETS (12 sockets to a strip)

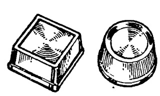
Overall depth, ⁵⁶⁄₆₄″ (less pins). Sockets are ⁴⁷⁄₆₄″x½″ dia. 3 oz.
60 D 7284. B1250. ½″ center, alternate contacts. 1-9.....Ea. 2.98
10-19...............Ea. 2.79 20-49...............Ea. 2.54
50-99...............Ea. 2.39 100-Up...............Ea. 2.24
60 D 7285. B1275. ¾″ center, alternate contacts. 1-9.....Ea. 2.98
10-19...............Ea. 2.79 20-49...............Ea. 2.54
50-99...............Ea. 2.39 100-Up...............Ea. 2.24
60 D 7286. B3250. ½″ ctr., individual contacts. 1-9.......Ea. 3.10
10-19...............Ea. 2.95 20-49...............Ea. 2.75
50-99...............Ea. 2.58 100-Up...............Ea. 2.39
60 D 7287. B3275. ¾″ ctr., individual contacts. 1-9.......Ea. 3.10
10-19...............Ea. 2.95 20-49...............Ea. 2.75
50-99...............Ea. 2.58 100-Up...............Ea. 2.39

PANEL LIGHT SOCKETS



Type B0152 panel socket takes Series PSB slide base lamp (top of page). Black phenolic. U.L. Approved; uses lenses below. B0154 same, but for use without lens. B0153 is black nylon, takes slide base lamps above, lenses below. 2 oz.
60 D 0000. Type B0152. Panel Socket. 1-9.........Ea. .30
10-99 Ea. .27 100-499 Ea. .25 500-999 Ea. .23 1000-Up Ea. .21
60 D 6879. Type B0154 Single Socket. 1-9...............Ea. .30
10-99. Ea. .27 100-499. Ea. .25 500-999. Ea. .23 1000-Up. Ea. .21
60 D 6880. Type B0153 Panel Socket. 1-9...............Ea. .28
10-99. Ea. .25 100-499. Ea. .23 500-999. Ea. .21 1000-Up. Ea. .19

LENSES FOR ABOVE SOCKETS



Polycarbonate lenses for Types B0152 and B0153 sockets above. Round and square types. Av. shpg. wt., 2 oz.

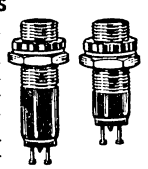
Color	ROUND LENS Stock No.	Type	SQUARE LENS Stock No.	Type
Red	60 D 6881	B0160	60 D 6887	B0170
Clear	60 D 6882	B0161	60 D 6888	B0171
Amber	60 D 6883	B0162	60 D 6889	B0172
White	60 D 6884	B0163	60 D 6890	V0173
Green	60 D 6885	B0164	60 D 6891	B0174
Blue	60 D 6886	B0165	60 D 6892	B0175

1-9......Each .19 10-99......Each .17 100-499......Each .15
500-999...............Each .13 1000-Up...............Each .11

Pilot Lights, Housings, Lenses, Switches

SYLVANIA LIGHTS AND HOUSINGS

CARTRIDGE LIGHT HOUSINGS



SM2 SM1

Cartridge housings accept either standard pilot lamps or indicator lamps below. Made of black anodized aluminum per MIL-A-8625; base insulation of molded phenolic. Withstand environmental requirements of MIL-STD-202B as prescribed in MIL-L-3661A. Rated at 250 volts; maximum current, 1 amp. Breakdown voltage, 1000 v. rms at 60 Hz. Easily installed from rear of panel with lockwasher and hex nut. *Solder lugs; others turret lugs. Wt., 1 oz.

FOR PILOT LAMPS			FOR INDICATOR LAMPS		
Stock No.	Mfr's Type	Size. Dia.x L.	Stock No.	Mfr's Type	Size. Dia. x L.
60 D 6893	SM-2/B0095	½x1⅜″	60 D 6895	SM-1/B0097	½x1 11/64″
60 D 6894	SM-2A/B0096	½x1⅜″	60 D 6896	SM-1A/B0098	½x1 11/64″*

1-9.......Each .91 10-24.......Each .82 25-99.........Each .76
100-249...Each .68 250-499.....Each .61 500-Up.......Each .55

CARTRIDGE LAMPS

Pilot and Indicator lamps for above housings offer cool operation, long lamp life. Black anodized metal sleeves and clear ends. Lenses (below) can be changed easily. Stainless steel, polarized pins for easy insertion. Dia., .290″. Lgth.: Pilot lamps, 1.110″ max.; Indicator lamps, .912″ max., less pins. Av. shpg. wt., 1 oz.

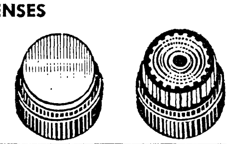
PILOT LAMPS

Stock No.	Mfr's Type	Volts	Average Watts	Average Amps	EACH 1-9	10-24	25-99	100-249	250-499	500-Up
60 D 6897	21	6	0.8	.140	.97	.87	.80	.72	.63	.56
60 D 6898	31	12	2.0	.170	.97	.87	.80	.72	.63	.56
60 D 6899	41	24	1.7	.073	.87	.97	.80	.72	.63	.56
60 D 6900	51	28	1.1	.040	.97	.87	.80	.72	.63	.56
60 D 6901	61	48	2.5	.053	.97	.87	.80	.72	.63	.56
60 D 6902	71	60	3.0	.050	.97	.87	.80	.72	.63	.56
60 D 6903	81	120	3.0	.025	.97	.87	.80	.72	.63	.56

INDICATOR LAMPS

Stock No.	Mfr's Type	V.	Av. Watts	Current. Amperes Min.-Max.	EACH 1-9	10-24	25-99	100-249	250-499	500-Up
60 D 6904	901	4	.16	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6905	905	5	.20	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6906	909	6	.24	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6907	914	10	.18	.015-.020	.97	.87	.80	.72	.63	.56
60 D 6908	915	10	.40	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6909	918	12	.36	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6910	925	16	.28	.015-.020	.97	.87	.80	.72	.63	.56
60 D 6911	926	16	.64	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6912	930	18	.72	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6913	933	24	.42	.015-.020	.97	.87	.80	.72	.63	.56
60 D 6914	934	24	.96	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6915	938	28	1.12	.035-.045	.97	.87	.80	.72	.63	.56
60 D 6916	941	48	1.92	.035-.045	1.00	.90	.80	.72	.63	.56
60 D 6917	913	10	.10	.009-.011	1.09	.99	.92	.84	.75	.68

CARTRIDGE LENSES



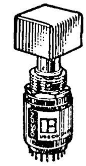
Polycarbon lenses for above housings and lamps have high working temperature; no lens melting or signal distortion. Black anodized aluminum bezel. Special inner surface gives almost total peripheral visibility. Dia., .505″. Transparent, translucent types. 1 oz.

TRANSPARENT LENS			TRANSLUCENT LENS		
Stock No.	Mfr's Type	Color	Stock No.	Mfr's Type	Color
60 D 6918	B0140	Amber	60 D 6923	B0145	Yellow
60 D 6919	B0141	Clear	60 D 6924	B0146	White
60 D 6920	B0142	Red	60 D 6925	B0147	Red
60 D 6921	B0143	Blue	60 D 6926	B0148	Blue
60 D 6922	B0144	Green	60 D 6927	B0149	Green

1-9.........Each .26 10-24.......Each .25 25-99.......Each .24
100-249.....Each .23 250-499.....Each .22 500-Up.....Each .21

ATTENTION OEM BUYERS—Allied Electronics makes immediate shipment on switches and lamps in quantities at OEM prices. Make Allied your headquarters for all electronic components at quantity prices.

ORCON ILLUMINATED PUSHBUTTON SWITCHES



25% smaller than other switches with the same capacity. Gold impregnated, silver alloy contacts are individually isolated and self-aligning; self-equalizing contact pressure. Sliding, wiping action minimizes noise and bounce, keeps contacts clean. Aluminum anodized black case; mounts on ¾″ centers. Easy maintenance; independent lamp circuit. Lamps and pushbuttons must be ordered separately (below).

SPECIFICATIONS

Current Ratings: 2 amps resistive at 28 VDC or 120 VAC to 50,000 cycles; 1 amp to 100,000 cycles. **Contact Resistance:** Less than 20 milliohms. **Actions Available:** Momentary, Alternate Return, Alternate Hold. **Switching:** Break-before-make. **Terminals:** Gold-plated brass pins for mating connector or solder pot. **Travel:** 3/16″. **Contact Pressure:** 24 oz. (±8). **Size:** SPDT, DPDT 1 1/16″ dia. x 2 5/16″ long; 3PDT to 6PDT, ¾″ dia. x 2 5/16″ long, including ½″ button top. **Weight:** 1 oz.

SWITCHES WITH CONNECTOR

Include quick-disconnect, plug-in connector with gold-plated, solder terminals. No soldering needed when attaching to switch.

Stock No.	Mfr's Type	Action	Circuit	EACH 1-24	25-49	50-99	100-249
60 D 6928	26PCAS	Momentary	SPDT	7.17	6.46	5.85	5.28
60 D 6929	29PCAS		DPDT	8.21	7.40	6.69	6.04
60 D 6930	611PCAS		3PDT	11.22	10.11	9.13	8.25
60 D 6931	612PCAS		4PDT	12.20	10.98	9.94	8.96
60 D 6932	614PCAS		6PDT	14.18	12.77	11.55	10.42
60 D 6933	46PCAS	Alternate Button Return	SPDT	7.29	6.57	5.95	5.36
60 D 6934	49PCAS		DPDT	8.35	7.52	6.80	5.91
60 D 6935	811PCAS		3PDT	11.39	10.26	9.27	8.37
60 D 6936	812PCAS		4PDT	12.38	11.15	10.08	9.10
60 D 6937	814PCAS		6PDT	14.35	12.92	11.69	10.55
60 D 6938	56PCAS	Alternate Button Hold-Down	SPDT	7.37	6.64	6.01	5.42
60 D 6939	59PCAS		DPDT	8.42	7.59	6.86	6.19
60 D 6940	911PCAS		3PDT	11.57	10.42	9.42	8.50
60 D 6941	912PCAS		4PDT	12.54	11.30	10.22	9.22
60 D 6942	914PCAS		6PDT	14.53	13.08	11.83	10.68

SWITCHES WITHOUT CONNECTOR

Same as above, but without plug-in connector. Pin terminals.

Stock No.	Mfr's Type	Action	Circuit	EACH 1-24	25-49	50-99	100-249
60 D 6943	26SCAO	Momentary	SPDT	5.80	5.22	4.72	4.26
60 D 6944	29SCAO		DPDT	6.57	5.92	5.35	4.82
60 D 6945	611SCAO		3PDT	9.71	8.74	7.91	7.14
60 D 6946	612SCAO		4PDT	10.52	9.48	8.57	7.74
60 D 6947	614SCAO		6PDT	12.17	10.96	9.91	8.95
60 D 6948	46SCAO	Alternate Button Return	SPDT	5.93	5.34	4.83	4.36
60 D 6949	49SCAO		DPDT	6.69	6.02	5.45	4.92
60 D 6950	811SCAO		3PDT	9.88	8.89	8.04	7.26
60 D 6951	812SCAO		4PDT	10.71	9.64	8.72	7.87
60 D 6952	814SCAO		6PDT	12.35	11.12	10.06	9.08
60 D 6953	56SCAO	Alternate Button Hold-Down	SPDT	6.01	5.41	4.90	4.42
60 D 6954	59SCAO		DPDT	6.76	6.09	5.51	4.97
60 D 6955	911SCAO		3PDT	10.04	9.04	8.18	7.38
60 D 6956	912SCAO		4PDT	10.87	9.79	8.86	7.99
60 D 6957	914SCAO		6PDT	12.53	11.29	10.21	9.21

LAMPS FOR ABOVE SWITCHES (Order Separately)

Single contact flanged T-1¾ bulbs. Switches have independent, continuous internal lamp circuit. Bulbs meet MS-25237. 1 oz.

Stock No.	Mfr's Type	DC Volts	Amps	EACH 1-9	PKG. OF 10 1-9	PKG. OF 10 10-Up
60 D 7343	328	6	.20	.54	3.25	2.10
60 D 7374	330	14	.08	.78	4.61	4.15
60 D 7342	327	28	.04	.70	4.15	3.74

PUSHBUTTONS FOR ABOVE SWITCHES (Order Separately)

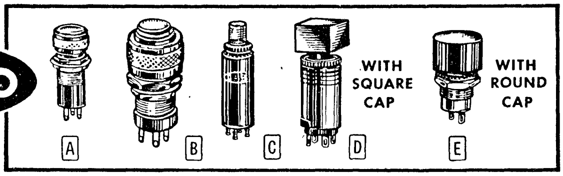
Available in 6 styles and 9 colors, for all Switches above. 1 oz.

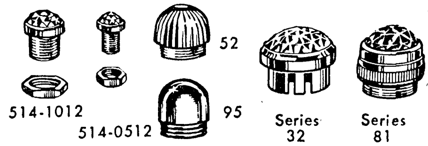
Color	½″ RND. TYPE P-11 Stock No.	½″ SQ. TYPE P-12 Stock No.	¾″ RND. TYPE P-15 Stock No.	¾″ SQ. TYPE P-16 Stock No.	1″ SQ. TYPE P-20 Stock No.	¾x1½″ TYPE P-54 Stock No.
Red	60 D6958	60 D6967	60 D6976	60 D6985	60 D6994	60 D6428
Wht.	60 D6959	60 D6968	60 D6977	60 D6986	60 D6995	60 D6429
Grn.	60 D6960	60 D6969	60 D6978	60 D6987	60 D6996	60 D6430
Blue	60 D6961	60 D6970	60 D6979	60 D6988	60 D6997	60 D6431
Yel.	60 D6962	60 D6971	60 D6980	60 D6989	60 D6998	60 D6432
Or'ge	60 D6963	60 D6972	60 D6981	60 D6990	60 D6999	60 D6433
Amb.	60 D6964	60 D6973	60 D6982	60 D6991	60 D6425	60 D6434
Clr.	60 D6965	60 D6974	60 D6983	60 D6992	60 D6426	60 D6435
Blk.	60 D6966	60 D6975	60 D6984	60 D6993	60 D6427	60 D6436

1-24................Each .75 25-49................Each .72
50-99...............Each .67 100-249..............Each .62

Indicator Lights, Switches and Lens Caps

DIALCO





PRESS-TO-TEST INDICATOR LIGHTS

Permit pre-testing of lamps. 804-1710 and 803-1710 have 1″ C. to C. spacing; mount in ⅝″ diameter hole; use T-3¼ lamp; MIL No. MS25331-§. 801-1030 and 800-1030 have ¾″ C. to C. spacing; mount in ¹⁵⁄₃₂″ hole; use T-1¾ lamp; MIL No. MS25041-†. Less lamps. *Add Mfr's Type as Suffix.

[A] SERIES 804-1710* WITH DIMMER

Stock No.	Mfr's Type*	MIL No.	Lens Color	EACH
60 D 8134	-0337-504	§-1	Clear	1-24 1.95
60 D 8135	-0331-504	§-2	Red	25-49 1.84
60 D 8136	-0332-504	§-3	Grn.	50-99 1.70
60 D 8137	-0333-504	§-4	Amb.	100-249 1.60

[A] SERIES 803-1710* NON-DIMMER

60 D 8139	-0337-504	§-5	Clear	1-24 1.87
60 D 8140	-0331-504	§-6	Red	25-49 1.74
60 D 8141	-0332-504	§-7	Grn.	50-99 1.62
60 D 8142	-0333-504	§-8	Amb.	100-249 1.50
60 D 8143	-0334-504	....	Blue	

[B] SERIES 801-1030* WITH DIMMER

60 D 8149	-0337-504	†-1	Clear	1-24 1.92
60 D 8150	-0331-504	†-2	Red	25-49 1.75
60 D 8151	-0332-504	†-3	Grn.	50-99 1.63
60 D 8152	-0333-504	†-4	Amb.	100-249 1.52
60 D 8153	-0334-504	†-10	Blue	

[B] SERIES 800-1030* NON-DIMMER

60 D 8154	-0337-504	†-5	Clear	1-24 1.81
60 D 8155	-0331-504	†-6	Red	25-49 1.64
60 D 8156	-0332-504	†-7	Grn.	50-99 1.50
60 D 8157	-0333-504	†-8	Amb.	100-249 1.37
60 D 8158	-0334-504	†-11	Blue	

PUSHBUTTON SWITCHES

[C] **Incandescent Illuminated Switch.** SPST—N.O., momentary contact. Gold plated contacts, 0.1 amp at 125 v. AC or 30 v. DC, non-inductive. Uses T-1¾ lamp. Rear mtg., ⅜″ dia. hole; solder terminals. Less lamp.

Stock No.	Type 922-1141-	Color	EACH
60 D 9023	1631-523	Red	
60 D 9024	1632-523	Green	1-24 3.29
60 D 9025	1633-523	Amber	25-99 3.04
60 D 9026	1634-523	Blue	100-499 2.82
60 D 9027	1635-523	White	500-999 2.60
60 D 9028	1637-523	Clear	

[C] **Neon-Illuminated Switch.** As above, but have long-life, non-replaceable neon lamps. 110-125 v. AC/DC. Type 1152 has NE-2E lamp with 56K resistor. Type 1155 has NE-2H lamp, 22K resistor. *Add suffix 523 to type no.

Stock No.	Type923-*	Color	EACH
60 D 9029	1152-1631	Red	
60 D 9030	1152-1633	Amber	
60 D 9031	1152-1635	White	1-24 2.39
60 D 9032	1152-1637	Clear	25-99 2.22
60 D 9033	1155-1631	Red	100-499 2.05
60 D 9034	1155-1633	Amber	500-999 1.89
60 D 9035	1155-1635	White	
60 D 9036	1155-1637	Clear	

60 D 9053. 506-0375 Wrench. For easy, "no-mar" installation of switches, above. 3.00

60 D 7009. 506-0500 Mounting Wrench. For use with Illuminated Pushbuttons. 3.00

TYPE 506-0045 PILOT BULB REMOVER

Two tools in one. One end takes T-3¼ bulbs; other, T-4½ bulbs. High-grade rubber.

60 D 8506 .... .26

[D] [E] ½″ FRICTION-FIT PUSHBUTTON/LENS CAP ASSEMBLIES

Made to fit both Illuminated Pushbutton Assemblies, and matching Indicator Light Base Assemblies, described below. Feature solid-color translucent face and sides. Have high-strength plastic lens.

Color	Rd. Rotatable Stock No.	Type 183-	Square Keyed Stock No.	Type 184-
Red	60 D 8857	1471	60 D 8878	1871
Green	60 D 8858	1472	60 D 8879	1872
Amber	60 D 8859	1473	60 D 8880	1873
Blue	60 D 8860	1474	60 D 8881	1874
White	60 D 8861	1475	60 D 8882	1875
Yellow	60 D 8862	1476	....	....
Ivory	60 D 8863	1478	....	....

1-24 .... Each .49
25-99 ...... Ea. .45 100-499 .... Ea. .41
500-999 .... Ea. .39 1000-2499 ..... Ea. .37

[D] [E] ¾″ KEYED FRICTION-FIT

Color	Round (Keyed) Stock No.	Type 188-	Square (Keyed) Stock No.	Type 187-
Red	60 D 8885	1471	60 D 8892	1871
Green	60 D 8886	1472	60 D 8893	1872
Amber	60 D 8887	1473	60 D 8894	1873
Blue	60 D 8888	1474	60 D 8895	1874
White	60 D 8889	1475	60 D 8896	1875
Yellow	60 D 8890	1476	60 D 8897	1876
Ivory	60 D 8891	1478	60 D 8898	1878

1-24 .... Each .79
25-99 ...... Ea. .73 100-499 .... Ea. .66
500-999 .... Ea. .63 1000-2499 ..... Ea. .60

ILLUMINATED PUSHBUTTON SWITCH BASE ASSEMBLY (Not illus.)

For use with friction-fit caps described above. Require ½″ mounting holes. Rear mtg. for panels to ³⁄₁₆″ thick. Circuits: Type 0101, single, N.O.; Type 0201, single, N.C.; Type 0301, double, one N.O., one N.C.; Type 0601, Dry-Double, one N.O., one N.C. *Add suffix 604 to Mfr's Type Number.

Stock No.	Mfr's Type 513-*	EACH 1-24	25-99	100-499	500-999	1000-2499
60 D 8850	0101	2.95	2.71	2.46	2.34	2.21
60 D 8851	0201	2.95	2.71	2.46	2.34	2.21
60 D 8852	0301	3.25	2.98	2.71	2.59	2.46
60 D 8855	0601	3.55	3.26	2.96	2.84	2.71

INDICATOR LIGHT BASE ASSEMBLIES

Type 183-9830-14-604 Front or Rear-Mounting Assembly. (Not illus.) For friction-fit caps, above. Requires a ½″ diameter hole.

60 D 8856. 1-24 .... Each .86
25-99 .... Each .79
100-499 .... Each .72
500-999 .... Each .69 1000-2499 ... Each .65

Type 183-9730-14-602 Front Mounting Assembly Only. (Not illus.) For friction-fit caps, above. Requires a ½″ diameter hole.

60 D 9110. 1-24 .... Each .86
25-99 .... Each .79
100-499 .... Each .72
500-999 ... Each .69 1000-2499 .... Each .65

PILOT BULB REMOVER

For convenient installation and removal of T-3¼ and S6 lamps. High-grade rubber.

60 D 7912 .... .26

LENS CAPS

Series 514-1012* and 514-0512† Assemblies. ⅜″ long. ¹¹⁄₁₆″ behind panel. ¹¹⁄₁₆″, ⁷⁄₁₆″, ⁹⁄₃₂″ mtg. holes. Dia.: 1012, ½″; 0512, ¹¹⁄₃₂″.

Stock No.	Mfr's Type	EACH
60 D 8018	*-2131-102	Red
60 D 8019	*-2132-102	Green
60 D 8020	*-2133-102	Amber
60 D 8023	†-2131-102	Red
60 D 8024	†-2132-102	Green
60 D 8025	†-2133-102	Amber

1-9 ..... Ea. .17 10-24 .... Ea. .15
25-99 .... Ea. .14 100-249 .... Ea. .12
250-499. Ea. .11 500-999 .... Ea. .10

Series 52* and 95† Plastic Replacement Lens Caps. Series 52 is for 52408 and 521308. Series 95 is for 95408, 951308, 952208, 952210, and 955910.

Color	*Stock No.	Mfr's Type	†Stock No.	Mfr's Type
Red	60 D 8034	-0991	60 D 8028	-0931
Green	60 D 8035	-0992	60 D 8029	-0932
Amber	60 D 8036	-0993	60 D 8030	-0933
Blue	60 D 8037	-0994	60 D 8031	-0934
White	60 D 8039	-0995	60 D 8033	-0935
Clear	60 D 8038	-0997	60 D 8032	-0937

1-9 .... Each .19 10-24 .... Each .18
25-99 ...... Each .17 100-249 ..... Each .16
250-499 .... Each .15 500-999 ..... Each .14

Series 81 Replacement Lens Caps. Black nickel finish to meet MIL-L-3661A.

Stock No.	Mfr's Type	Lens Color
60 D 7776	81-0111-200	Red
60 D 7777	81-0112-200	Green
60 D 7779	81-0113-200	Amber
60 D 7637	81-0117-200	Clear
60 D 7778	81-0135-200	White

1-9 .... Each .38 10-24 .... Each .35
25-99 ...... Each .33 100-249 ..... Each .31
250-499 .... Each .29 500-999 ..... Each .27

Series 81 Replacement Lens Caps. For use with Series 81-9110, 81-1310 and 502-8140-100. Include white nickel lens holders. Convex lens is frosted on back.

Stock No.	Mfr's Type	Lens Color
60 D 8040	81-0111-100	Red
60 D 8041	81-0112-100	Green
60 D 8042	81-0113-100	Amber
60 D 8044	81-0135-100	White

1-9 .... Each .28 10-24 .... Each .26
25-99 ..... Each .24 100-249 ..... Each .23
250-499 .... Each .22 500-999 ..... Each .21

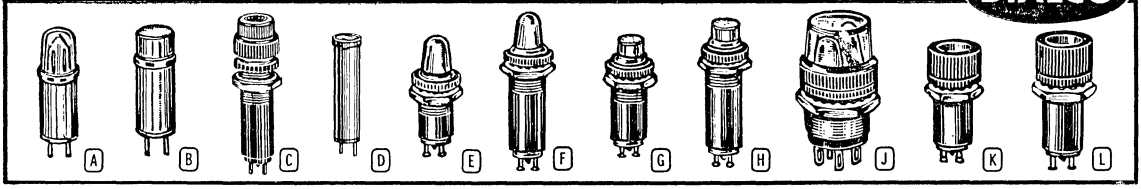
Series 32 Polished Chrome Assemblies. For use with Series 502-3228 and 31-3101. Convex type is frosted on back.

Stock No.	Mfr's Type	Lens Color	Desc.
60 D 7999	32-0111-300	Red	Convex
60 D 8000	32-0112-300	Green	Convex
60 D 8001	32-0113-300	Amber	Convex
60 D 8005	32-0117-300	Clear	Convex
60 D 8006	32-0431-300	Red	Faceted
60 D 8007	32-0432-300	Green	Faceted
60 D 8008	32-0433-300	Amber	Faceted
60 D 8012	32-0437-300	Clear	Faceted

1-9 .... Each .43 10-24 .... Each .40
25-99 ...... Each .37 100-249 ..... Each .34
250-499 .... Each .32 500-999 ..... Each .30

Dialco Datalites and Accessories

DIALCO



6-VOLT INCANDESCENT LAMP CARTRIDGES

Series 507-3906.* Unbased T-1¾ lamps in aluminum sleeves, capped with plastic lenses. Stainless steel pins, nylon insul. For 6 v., 200 ma. *Use prefix 507-3906, suffix-600.

[A] Stovepipe		[B] Long Cyl.		Lens Color
Stk. No.	Type*	Stk. No.	Type*	
60 D 8423	-0971	60 D 8429	-1471	Red
60 D 8424	-0972	60 D 8430	-1472	Green
....	......	60 D 8431	-1473	Amber
....	......	60 D 8432	-1474	Blue
....	......	60 D 8433	-1475	White

1-99.....Each 1.17 100-299......Each .89

6.3-VOLT LAMP CARTRIDGES

[B] Series 507-3909.* Same as 507-3917 Series, but for 6.3-volt, 200-ma operation. All are short-cylinder type. *Use prefix 507-3909, suffix-600 when ordering.

Stock No.	Mfr's Type*	Lens Color	EACH
60 D 8452	-1471	Red	1-99, 1.27
60 D 8453	-1472	Green	100-299, .98
60 D 8454	-1473	Amber	300-499, .87
60 D 8455	-1474	Blue	500-999, .79
60 D 8456	-1475	White	

14-VOLT LAMP CARTRIDGES

[B] Series 507-3914.* For 14-volt, 80 ma operation. All are short-cylinder type. *Use prefix 507-3914 and suffix -600.

Stock No.	Mfr's Type*	Lens Color	EACH
60 D 8464	-1471	Red	1-99, 1.27
60 D 8465	-1472	Green	100-299, .98
60 D 8466	-1473	Amber	300-499, .87
60 D 8467	-1474	Blue	500-999, .79
60 D 8468	-1475	White	

28-VOLT LAMP CARTRIDGES

Series 507-3917.* Same as above, but designed for 28-volt, 40 ma operation. *Use prefix 507-3917 and suffix -600 when ordering.

[A] Stovepipe		[B] Long Cyl.		Lens Color
Stock No.	Type*	Stock No.	Type*	
60 D 8434	-0971	60 D 8440	-1471	Red
60 D 8435	-0972	60 D 8441	-1472	Green
60 D 8436	-0973	60 D 8442	-1473	Amber
....	......	60 D 8443	-1474	Blue
60 D 8438	-0975	60 D 8444	-1475	White
....	......	60 D 8445	-1476	Yellow

1-99........Each 1.17 100-299...Each .89
300-499.....Each .79 500-999...Each .72

115-125 VOLT LAMP CARTRIDGES

[C] Series 257-8758.* Indicator light for 115-125 volts, 60 Hz. Uses cartridge below. Rear-mount holder for ⅜" clearance. Transparent lens. *Use prefix 257-8758 to order.

Stock No.	Mfr's Type*	Lens Color	EACH
60 D 6630	-1631-504	Red	1-99, 1.49
60 D 6631	-1632-504	Green	100-299, 1.13
60 D 6632	-1633-504	Amber	300-499 1.00
60 D 6633	-1635-504	White	500-999, .92

[D] Lamp Cartridge 257-8758-1635-504. For above.
60 D 6634. 1-99.Ea. 1.06 100-299.. Ea. .97
300-499......Ea. .90 500-999......Ea. .86

Type 506-0375 Mounting Wrench. For mounting Series 257-8758 Datalites on panels.
60 D 9053........................3.00

REPLACEABLE NEON CARTRIDGES

Series 507-3835.* Have built-in NE-2E lamps. For 105-125 volts. Require external 56K resistor for bright light, 100K for medium light. *Use prefix 507-3835, suffix -600.

[A] Stovepipe		[B] Long Cyl.		Lens Color
Stock No.	Type*	Stock No.	Type*	
60 D 8470	-0931	60 D 8475	-1531	Red
60 D 8471	-0933	60 D 8476	-1533	Amber
....	......	60 D 8479	-1535	White
60 D 8473	-0937	60 D 8478	-1537	Clear

1-99.......Each .86 100-299....Each .62
300-499.....Each .55 500-999....Each .50

Series 507-3836.* Above, with NE-2H high-brightness lamp. Needs external 33K resistor for 110-125 v. long life; 22K for bright light. *Prefix 507-3836, suffix -600.

60 D 8480	-0931	60 D 8485	-1531	Red
60 D 8481	-0933	60 D 8486	-1533	Amber
60 D 8482	-0935	60 D 8487	-1535	White
60 D 8484	-0937	60 D 8489	-1537	Clear

1-99.......Each .86 100-299.....Each .62
300-499.....Each .55 500-999....Each .50

Series 507-4537.* Built-in NE-2E lamp for 105-125 v. AC/DC. Built-in 56K resistor for bright light. Approx. life, 5000 hrs. Needs 100K for long life. *Prefix 507-4537, suffix -640.

[A] Stovepipe		[B] Long Cyl.		Lens Color
Stock No.	Type*	Stock No.	Type*	
60 D 8407	-0931	60 D 8415	-1531	Red
60 D 8408	-0933	60 D 8416	-1533	Amber
60 D 8410	-0937	60 D 8418	-1537	Clear

1-99...... Each 1.14 100-299....Each .91
300-499....Each .82 500-999.... Each .74

Series 507-4538.* As above, but with NE-2H high-brightness lamp, and 22K built-in resistor for bright light. For 105-125 volts, AC. Require 33K for long life. *Suffix -610.

60 D 8411	-0931	60 D 8419	-1531	Red
60 D 8412	-0933	60 D 8420	-1533	Amber
60 D 8414	-0937	60 D 8422	-1537	Clear

1-99........Each 1.14 100-299...Each .91
300-499.....Each .82 500-999...Each .74

PERMANENT DATALITES

[E] Series 249-7840.* Stovepipe. Have non-repl. NE-2E lamps, less resistor. Fit ⅜" hole. 65-v. AC or 90-v. DC starting v. *To order, use prefix 249-7840, suffix -054.

Stock No.	Mfr's Type*	L'ns Col.	Stock No.	Mfr's Type*	L'ns Col.
60 D 8384	-0931	Red	60 D 8387	-0936	Yel.
60 D 8385	-0933	Am.	60 D 8388	-0937	Clr.
60 D 8386	-0935	Wh.	....	......	....

1-99........Each 1.07 100-299...Each .79
300-499.....Each .70 500-999...Each .64

[G] Series 249-78410.* Same as 249-7840 above but has cylindrical lens. *To order, use prefix 249-7840 and suffix -504.

Stock No.	Mfr's Type*	L'ns Col.	Stock No.	Mfr's Type*	L'ns Col.
60 D 8394	-1431	Red	60 D 8397	-1436	Yel.
60 D 8395	-1433	Am.	60 D 8398	-1437	Clr.
60 D 8396	-1435	Wh.	....	......	....

1-99........Each 1.07 100-299...Each .79
300-499.....Each .70 500-999...Each .64

PERMANENT DATALITES (Cont'd)

[F] Series 249-7841* Stovepipe. Same as 249-7840 below, with resistor for 105-125 v. AC-DC. *Use prefix 249-7841, suffix -574.

Stock No.	Mfr's Type*	L'ns Col.	Stock No.	Mfr's Type*	L'ns Col.
60 D 8389	-0931	Red	60 D 8392	-0936	Yl.
60 D 8390	-0933	Am.	60 D 8393	-0937	Clr.
60 D 8391	-0935	Wh.	....	......	....

1-99........Each 1.34 100-299..Each 1.02
300-499.....Each .90 500-999...Each .83

[H] Series 249-7841.* Same as 249-7841 above but has cylindrical lens. With resistor. *Use prefix 249-7841, suffix -574.

60 D 8399	-1431	Red	60 D 8402	-1436	Yel.
60 D 8400	-1433	Am.	60 D 8403	-1437	Clr.
60 D 8401	-1435	Wh.	....	......	....

1-99.......Each 1.34 100-299...Each 1.02
300-499....Each .90 500-999...Each .83

CARTRIDGE ASSEMBLY AND HOLDERS

[L] Type 253-6939-1437-504. Assembly for 2 cartridges. Mount in ¾" diameter hole. Clear plastic lens, less cartridges.
60 D 8378. 1-99...............Each 3.30

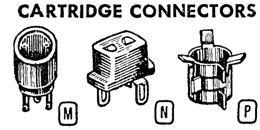
[J] Type 508-7839-504. Compact holder for 1 cartridge. Mounts in ⅜" clearance hole. Solder cup. Polar-terms. Less cart.
60 D 8380. 1-99.Ea. 1.22 100-299..Ea. .93
300-499....Ea. .82 500-999.......Ea. .76

[K] Type 508-7545-504. As above but for 45 and 45H cartridges.
60 D 8381. 1-99.Ea. 1.22 100-299..Ea. .93
300-499....Ea. .82 500-999.......Ea. .76

[J] Type 508-8738-504. Same as 7839, above but with turret terminals.
60 D 8382. 1-99.Ea. 1.22 100-299..Ea. .93
300-499......Ea. .82 500-999.....Ea. .76

[K] Type 508-8745-504. Same as 7545 but with turret terminals.
60 D 8383. 1-99.Ea. 1.22 100-299..Ea. .93
300-499....Ea. .82 500-999.......Ea. .76

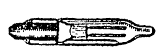
CARTRIDGE CONNECTORS



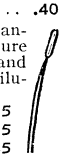
[M] Series 515-0012. Aluminum sleeve, molded phenolic insulation. Solder cup terms.
60 D 8405. 1-99.Ea. .62 100-299...Ea. .50
300-499......Ea. .40 500-999.....Ea. .32

[N] Series 515-0050. Molded phenolic with cad-plated copper solder lug terminals.
60 D 8404. 1-99...............Each .15

[P] Series 515-0051. Speed Clip. Fastening device for all Dialco plug-in cartridges.
60 D 8406. 1-99...............Each .05



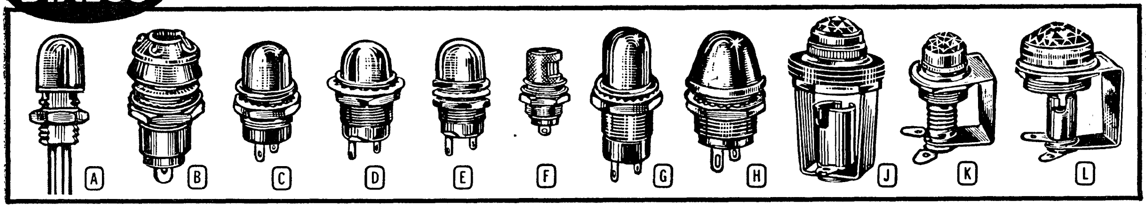
Sittler 211007 Panel Lamp. Neon indicating lamp for test equipment and test panels. Starting voltages: 65 AC; 90 DC. Requires 1/25 watt. Switchboard slide-type base.
60 D 7104.................... .40



Sylvania H881D Mite-T-Lite. Incandescent lamp for microminiature equipment. .055x.176". For 1.0 and 1.2 v. at 100 ma. max. 20.0 millilumens.
60 D 8710. 1-9.........Ea. .95
10-24....Ea. .15 25-99... Ea. .55
100-499. Ea. .50 500-Up..Ea. .45

DIALCO

Incandescent and Neon Assemblies



INCANDESCENT INDICATOR LIGHTS (.193″ Mtg. Clearance)

[A] Series 252. Subminiature assemblies with non-replaceable lamp enclosed in high-impact plastic housing. Entire unit (less than 5/8″ long, less leads) is moistureproof and dustproof. Needs only .193″ panel mtg. hole for clearance. Diameter of stovepipe lens cap is 7/32″; length, 9/32″. Anti-rotation construction; 6″ flexible. Wire leads. Lamp ratings: 5.0 volts @ .06 amps for 60,000 hours; 6.3 v. @ .07 amps for 6000 hours. †Suffix of MIL No. MS25446-.

Stock	Type 252- -9951-	†	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8372	0974	2	Blue	2.96	2.77	2.58	2.41	2.27	2.15
60 D 8373	0972	3	Green	2.96	2.77	2.58	2.41	2.27	2.15
60 D 8374	0971	4	Red	2.96	2.77	2.58	2.41	2.27	2.15
60 D 8375	0975	5	White	2.96	2.77	2.58	2.41	2.27	2.15
60 D 8376	0973	6	Amber	2.96	2.77	2.58	2.41	2.27	2.15
60 D 8377	0937	7	Clear	2.96	2.77	2.58	2.41	2.27	2.15

15/32″ MOUNTING CLEARANCE LIGHTS

MS25010 SUBMINIATURE LIGHTS

[B] Series 270 Edge-Light Assemblies. Meet MIL-L-7806-3. For MIL-P-7788 plate panels. Emit light radially through colored filter into plastic plate. Resilient light seal washer prevents light loss at front. Tinned Brass terminals with elongated slots. Red filters. Cadmium-plated brass mtg. bushing, internal-tooth lockwasher, hex nut. Less T-1¾ lamp. ½x17/16″. *Add Suffix -702.

Stock No.	Mfr's Type* 270-	Terminals	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8490	1930-0111	Solder	.75	.68	.62	.56	.50	.45
60 D 8491	1830-0111	Screw	.75	.68	.62	.56	.50	.45

TWO-TERMINAL PLASTIC INCANDESCENT INDICATOR LIGHTS WITH OMNIDIRECTIONAL LENSES

[C] Series 162-8430. Front mount. Use 327 and 328 lamps (not supplied). 180° visibility. †Suffix of MIL No. MS25256-.

TRANSPARENT LENS TYPE

Stock No.	Type 162- 8430-	†	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8310	0931-502	6	Red	1.21	1.13	1.05	.97	.90	.84
60 D 8311	0932-502	4	Green	1.21	1.13	1.05	.97	.90	.84
60 D 8312	0933-502	2	Amber	1.21	1.13	1.05	.97	.90	.84
60 D 8313	0937-502	8	Clear	1.21	1.13	1.05	.97	.90	.84
60 D 8344	0975-502	10	White	1.21	1.13	1.05	.97	.90	.84
60 D 8345	0934-502	12	Blue	1.21	1.13	1.05	.97	.90	.84

TRANSLUCENT LENS TYPE

Stock No.	Type 162- 8430-	†	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8314	0971-502	...	Red	1.21	1.13	1.05	.97	.90	.84
60 D 8315	0972-502	...	Green	1.21	1.13	1.05	.97	.90	.84
60 D 8316	0973-502	...	Amber	1.21	1.13	1.05	.97	.90	.84
60 D 8317	0974-502	...	Blue	1.21	1.13	1.05	.97	.90	.84

[D] (E) Series 101-5030* Front Mount, 101-3830† Back Mount. Front mount units need 17/32″ mtg. hole; back mount, 15/32″. Use T-1¾ lamp (not incl.). With hardware. *Use Prefix 101-5030, Suffix-201 for Front Mt. †Prefix 101-3830, Suffix-201 for Back Mt. §White.

TRANSPARENT LENS Stock No. (Front Mt)	Stock No. (Back Mt)	Type *†	TRANSLUCENT LENS Stock No. (Front Mt)	Stock No. (Back Mt)	Type *†	Lens Color
60 D 8358	60 D 8365	-0931-	60 D 8346	60 D 8352	-0971-	Red
60 D 8359	60 D 8366	-0932-	60 D 8347	60 D 8353	-0972-	Green
60 D 8360	60 D 8367	-0933-	60 D 8354	60 D 8348	-0973-	Amber
60 D 8364	60 D 8371	-0937-	60 D 8349	60 D 8355	-0975-§	Clear

1-9......Each 1.26 10-24.....Each 1.17 25-99.........Each 1.08
100-249..Each 1.00 250-499...Each .92 500-999......Each .85

ONE-TERMINAL LIGHT SHIELD

(F) Black nickel finish. Opening, ¼x3/16″. Type 4-1930 has solder terminals; 4-1830, screw. *Add Suffix 2900-201 when ordering.

Stock No.	Mfr's Type*	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8247	4-1930	1.61	1.49	1.39	1.29	1.20	1.11
60 D 8248	4-1830	1.88	1.74	1.62	1.51	1.40	1.29

15/32″ MOUNTING CLEARANCE LIGHTS (Cont'd)

PLASTIC NEON INDICATORS WITH OMNIDIRECTIONAL LENSES

[G] Series 137-8836. Front mount. Full 180° visibility. Use NE-2D neon lamp; built-in 62K resistor for 105-125 volts. Less lamp. Fits 15/32″ diameter hole. †Suffix of MIL No. MS25257-.

Stock No.	Mfr's Type 137-8836-	†	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8319	-0931-552	4	Red	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8320	-0933-552	2	Yellow	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8321	-0937-552	6	Clear	2.02	1.88	1.74	1.61	1.48	1.36

[G] Series 137-8864.* As above, but with 22K resistor for extra-bright light, for NE-2J neon lamp. *Use Series No. as Prefix.

Stock No.	Mfr's Type*	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 8322	-0931-512	Red	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8323	-0933-512	Amber	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8324	-0935-512	White	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8325	-0937-512	Clear	2.02	1.88	1.74	1.61	1.48	1.36

[G] Series 137-8864.* As above, but with 33K resistor for 25,000 hr. lamp life on 110-125 v. AC. Use with NE-2J lamp. Less lamp.

60 D 8326	-0931-532	Red	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8327	-0933-532	Amber	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8328	-0935-532	White	2.02	1.88	1.74	1.61	1.48	1.36
60 D 8329	-0937-532	Clear	2.02	1.88	1.74	1.61	1.48	1.36

WATERTIGHT SERIES

[H] Series 177-8430.* Front panel mtg.; retained "O" ring seal. For T-1¾ midget flanged base incandescent lamp. 5/8x13/16″. With mtg. hardware, less lamp. *Use Series No. as Prefix.

60 D 8330	-0971-503	Red	1.51	1.41	1.32	1.24	1.17	1.10
60 D 8331	-0972-503	Green	1.51	1.41	1.32	1.24	1.17	1.10
60 D 8332	-0973-503	Amber	1.51	1.41	1.32	1.24	1.17	1.10
60 D 8334	-0975-503	White	1.51	1.41	1.32	1.24	1.17	1.10

[H] Series 181-8836.* Same as Series 137-8836, but with "O" ring for watertightness. Has 56K resistor. Less NE-2D lamp.

60 D 8336	-0931-553	Red	2.46	2.30	2.14	2.00	1.86	1.73
60 D 8337	-0933-553	Amber	2.46	2.30	2.14	2.00	1.86	1.73

[H] Series 181-8864.* Same as Series 137-8864, but with "O" ring for watertightness. Has 22K resistor. Less NE-2J lamp.

60 D 8340	-0931-513	Red	2.46	2.30	2.14	2.00	1.86	1.73
60 D 8341	-0933-513	Amber	2.46	2.30	2.14	2.00	1.86	1.73

MINIATURE BAYONET INCANDESCENTS (11/16″ Mounting)

[J] Series 502-8140.* Faceted ½″ lens. 11/16″ mtg. hole. Less T-3¼ lamp. *Use Series Number as Prefix when ordering.

60 D 7889	-2131-100	Red	.63	.58	.53	.49	.45	.42
60 D 7890	-2132-100	Green	.63	.58	.53	.49	.45	.42
60 D 7891	-2133-100	Amber	.63	.58	.53	.49	.45	.42

OPEN FACETED INCANDESCENTS

[K] Series 502-8137, 8136.* ½″ lens. Use T-3¼ lamp. 11/16″ mtg. hole. *Prefix 502-8137 for Min. Screw, 502-8136 for Bayonet (not illus.).

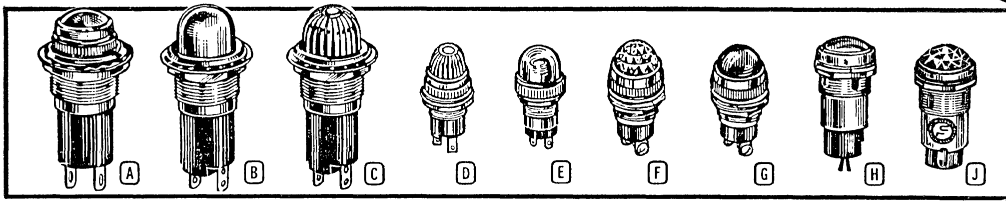
Lens Color	Screw 8137 Stock No.	Bayonet 8136 Stock No.	Mfr's Type*	EACH 1-9	10-24	25-99	100-249	250-499	500-999
Red	60 D 7966	60 D 7967	-2131-102	.50	.46	.43	.40	.37	.34
Green	60 D 7968	60 D 7969	-2132-102	.50	.46	.43	.40	.37	.34
Amber	60 D 7970	60 D 7971	-2133-102	.50	.46	.43	.40	.37	.34
Blue	....	60 D 7990	-2134-102	.50	.46	.43	.40	.37	.34
White	....	60 D 7992	-2135-102	.50	.46	.43	.40	.37	.34

[L] Series 502-3241, -3214.* 1″ jewel; 1″ mtg. hole. *Use Prefix 502-3241 for Bayonet type (Takes T-3¼ lamp); Prefix 502-3214 for Candelabra type (Uses S6 lamp; not illustrated).

Lens Color	Bayonet 3241 Stock No.	Candel. 3214 Stock No.	Mfr's Type*	EACH 1-9	10-24	25-99	100-249	250-499	500-999
Red	60 D 7947	60 D 7975	-0431-302	.99	.84	.77	.71	.66	.61
Green	60 D 7948	60 D 7976	-0432-302	.99	.84	.77	.71	.66	.61
Amber	60 D 7949	60 D 7977	-0433-302	.99	.84	.77	.71	.66	.61

General-Purpose and Oiltight Assemblies

DIALCO



HOW TO ORDER

Use Dialco Series No. as a Prefix, followed by Mfr's Type in table and any suffix indicated.

1 1/16″ MOUNTING CLEARANCE LIGHTS

INCANDESCENT ASSEMBLIES

[A] Series 81-0410*. Meets MIL-L-3661A. Enclosed, aviation-type socket shell. Convex, smooth-faced lens; frosted back. ½″ black nickel-brass holder. Takes T-3¼ miniature bayonet lamp. 2¼″ long, 1 1/16″ clearance hole. Fits panel to ⅜″. Type 0135-201 is unfrosted. U.L. Listed. Less lamp. *Use Series Number as Prefix when ordering.

Stock No.	Mfr's Type*	Lens Color	EACH 1-9	10-24	25-99	100-249	250-499	500-999
60 D 7772	-0111-201	Red	1.26	1.18	1.12	1.06	1.00	.94
60 D 7773	-0112-201	Green	1.26	1.18	1.12	1.06	1.00	.94
60 D 7775	-0113-201	Amber	1.26	1.18	1.12	1.06	1.00	.94
60 D 7561	-0117-201	Clear	1.26	1.18	1.12	1.06	1.00	.94
60 D 7774	-0135-201	White	1.26	1.18	1.12	1.06	1.00	.94

LOW-VOLTAGE ENCLOSED SIGNAL ASSEMBLIES

[A] Series 81-9110*. Convex lens; smooth face; frosted back. ½″ white nickel-plated brass holders. Use T-3¼ bayonet lamps, replaceable from front. 2¼″ long, 1 1/16″ mtg. hole. Panels to ⅜″. Less lamp. *Use Series No. as Prefix to order.

60 D 7780	-0111-102	Red	.82	.77	.72	.68	.64	.60
60 D 7781	-0112-102	Green	.82	.77	.72	.68	.64	.60
60 D 7782	-0113-102	Amber	.82	.77	.72	.68	.64	.60
60 D 7786	-0114-102	Blue	.82	.77	.72	.68	.64	.60

[B] Series 95-9110*. For use with miniature bayonet lamps. Solder terminals. Less T-3¼ lamp. *Use Series No. as Prefix to order.

60 D 7846	-0931-102	Red	.73	.69	.65	.61	.57	.53
60 D 7847	-0932-102	Green	.73	.69	.65	.61	.57	.53
60 D 7848	-0933-102	Amber	.73	.69	.65	.61	.57	.53
60 D 7850	-0935-102	White	.73	.69	.65	.61	.57	.53

[B] Series 95-0410*, 95-1310† Incandescent. Less T-3¼ lamp. *Use Prefix 95-0410 for solder lugs; †95-1310 for screw term; Suffix -201.

Lens Color	Solder Lugs* Stock No.	Screw Term.† Stock No.	Mfr's Type *†	EACH 1-9	10-24	25-99	100-249	250-499	500-999
Red	60 D 9157	60 D 9164	-0931-	1.07	1.01	.96	.91	.86	.81
Green	60 D 9158	60 D 9165	-0932-	1.07	1.01	.96	.91	.86	.81
Amber	60 D 9159	60 D 9166	-0933-	1.07	1.01	.96	.91	.86	.81

NEON INDICATORS WITH BUILT-IN RESISTORS

[C] Same as Series 95-9108, -5808, but with fluted stovepipe lens. MIL-L-3661. Solder terminals. *Series 52-0408 has built-in 56K resistor for NE-51 lamp; add Suffix -241. †Series 52-0463 has built-in 22K resistor for NE-51H high-brightness lamp; add Suffix -211.

Lens Color	NE-51* Stock No.	NE-51H† Stock No.	Mfr's Type *†	EACH 1-9	10-24	25-99	100-249	250-499	500-999
Red	60 D 7806	60 D 7810	-0991-	1.26	1.20	1.14	1.08	1.02	.96
Amber	60 D 7807	60 D 7811	-0993-	1.26	1.20	1.14	1.08	1.02	.96
White	60 D 7808	60 D 7812	-0995-	1.26	1.20	1.14	1.08	1.02	.96
Clear	60 D 7809	60 D 7813	-0997-	1.26	1.20	1.14	1.08	1.02	.96

Series 52-1308*, 52-1363†. Same as above, but with screw terminals.

Red	60 D 7814	60 D 7818	-0991-	1.34	1.27	1.20	1.13	1.07	1.01
Amber	60 D 7815	60 D 7819	-0993-	1.34	1.27	1.20	1.13	1.07	1.01
White	60 D 7816	60 D 7820	-0995-	1.34	1.27	1.20	1.13	1.07	1.01
Clear	60 D 7817	60 D 7821	-0997-	1.34	1.27	1.20	1.13	1.07	1.01

[B] Series 95-0408*, 95-0463†. For T-3¼ neon lamp. Meet MIL specs. Smooth stovepipe lens. 110-125 v. AC-DC. Black nickel finish. 2 1/16″ long. U.L. and C.S.A. Listed. Solder terminals. *Prefix 95-0408 for use with NE-51 lamp; add suffix -241; †Prefix 95-0463 for use with NE-51H high-brightness lamp; add Suffix -211.

Red	60 D 7822	60 D 7826	-0931-	1.26	1.20	1.14	1.08	1.02	.96
Amber	60 D 7823	60 D 7827	-0933-	1.26	1.20	1.14	1.08	1.02	.96
White	60 D 7824	60 D 7828	-0935-	1.26	1.20	1.14	1.08	1.02	.96
Clear	60 D 7825	60 D 7829	-0937-	1.26	1.20	1.14	1.08	1.02	.96

[B] Series 95-9108*, 95-9163†. Same as Series 95-0408 above, but with plastic head and phenolic body. U.L. Listed. Solder terminals. *Use Prefix 95-9108 for NE-51 lamp; add Suffix -142. †Prefix 95-9163 for NE-51H lamp; add Suffix -112. Prices at top right of page.

Prices For Series 95-9108* and 95-9163† (Lower Left)

Lens Color	NE-51* Stock No.	NE-51H† Stock No.	Mfr's Type *†	EACH 1-9	10-24	25-99	100-249	250-499	500-999
Red	60 D 7838	60 D 7697	-0931-	.87	.82	.77	.72	.68	.64
Amber	60 D 7839	60 D 7698	-0933-	.87	.82	.77	.72	.68	.64
White	60 D 7840	60 D 7699	-0935-	.87	.82	.77	.72	.68	.64
Clear	60 D 7841	60 D 7732	-0937-	.87	.82	.77	.72	.68	.64

OILTIGHT SERIES ASSEMBLIES

[D] Series 125-0408,* 125-0463† Fluted Lens. Solder term. *Use Prefix 125-0408 for NE-51 lamp with 56K resistor; add Suffix -443. †Prexfi 125-0463 for NE-51H; 22K; Suffix -413.

Red	60 D 8210	60 D 8216	-1191-	1.98	1.88	1.77	1.69	1.61	1.54
Amber	60 D 8211	60 D 8217	-1193-	1.98	1.88	1.77	1.69	1.61	1.54
Clear	60 D 8212	60 D 8218	-1197-	1.98	1.88	1.77	1.69	1.61	1.54

[D] Series 125-0408*, 125-0463† Plain Lens. To order, use same Prefixes and Suffixes as above, for NE-51 or NE-51H lamp.

Red	60 D 8213	60 D 8219	-1131-	1.98	1.88	1.77	1.69	1.61	1.54
Amber	60 D 8214	60 D 8220	-1133-	1.98	1.88	1.77	1.69	1.61	1.54
Clear	60 D 8215	60 D 8221	-1137-	1.98	1.88	1.77	1.69	1.61	1.54

[D] Series 125-0463† with 33K resistor. For NE-51H neon lamp; long life. Plain lens. †Use Prefix 125-0463, Suffix -433.

Red	....	60 D 8225	-1131-	1.98	1.88	1.77	1.69	1.61	1.54
Amber	....	60 D 8226	-1133-	1.98	1.88	1.77	1.69	1.61	1.54
Clear	....	60 D 8227	-1137-	1.98	1.88	1.77	1.69	1.61	1.54

ONE-INCH MOUNTING CLEARANCE LIGHTS

[E] [F] Series 103-3101*. Use S6 lamp. 1⅜″ C. to C. spacing. Screw term. †Torpedo faceted lens. ‡Frosted-back dome lens.

Lens Color	Torpedo Lens (Fig. F)† Stock No.	Mfr's Type*	Dome Lens (Fig. G)‡ Stock No.	Mfr's Type*
Red	60 D 8178	-1331-403	60 D 8185	-1211-403
Green	60 D 8179	-1332-403	60 D 8186	-1212-403
Amber	60 D 8180	-1333-403	60 D 8187	-1213-403
White	60 D 8181	-1335-403	60 D 8188	-1235-403

1-9.......Each 2.64 10-24.....Each 2.40 25-99.....Each 2.20
100-249...Each 2.00 250-499...Each 1.84 500-999....Each 1.70

[E] [F] Series 103-3502*. As 103-3101 above, but for 6S6 bay. lamp.

Red	60 D 8192	-1331-403	60 D 8199	-1211-403
Green	60 D 8193	-1332-403	60 D 8200	-1212-403
Amber	60 D 8194	-1333-403	60 D 8201	-1213-403
White	60 D 8195	-1335-403	60 D 8202	-1235-403

1-9.......Each 2.77 10-24.....Each 2.53 25-99.....Each 2.31
100-249...Each 2.10 250-499...Each 1.93 500-999...Each 1.78

NON-OILTIGHT ASSEMBLIES

[G] Series 32-2901*. Enclosed lamp. Convex lens; frosted back. Solid brass. U.L. Listed. †Translucent, unfrosted. Less S6 lamp. 6″ leads. Friction-fit chromed cap.

Stock No.	Type*	Color	Stock No.	Type*	Color
60 D 7934	-0111-302	Red	60 D 7937	-0117-302	Clear
60 D 7935	-0112-302	Green	60 D 7866	-0135-302	White†
60 D 7936	-0113-302	Amber	....	....	....

1-9.......Each 1.74 10-24.....Each 1.59 25-99.....Each 1.45
100-249...Each 1.32 250-499...Each 1.21 500-999...Each 1.11

[H] Series 32-3101*. 115-volt. Black phenolic; brass. Chromed holder. Faceted lens. Cand. base. Less S6 lamp. U.L. Listed.

60 D 7928	-0431-302	Red	60 D 7933	-0434-302	Blue
60 D 7929	-0432-302	Green	60 D 7932	-0435-302	White
60 D 7930	-0433-302	Amber	60 D 7931	-0437-302	Clear

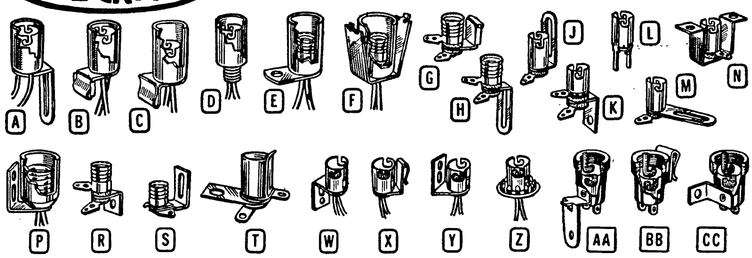
1-9...Each 1.46 10-24.....Each 1.33 25-99.........Each 1.22
100-249..Each 1.11 250-499..Each 1.02 500-999......Each .94

[J] Series 928* Flashing Indicator. For 115 VAC. 120 flashes per minute. ½″ mtg. Choice of red or amber.

60 D 6877. Type 1422-1631-638. Red
60 D 6878. Type 1422-1633-638. Amber.
1-9..Ea. 4.60 10-24..Ea. 4.30 25-99..Ea. 4.00 100-499..Ea. 5.75

60 D 8246. Type 515-1316 Adapter Set. Mounts any Dialco assembly in 1 3/16″ dia. hole. 1-9...Ea. .73 10-24...Ea. .66 25-99....Ea. .60

LEECRAFT Lampholders and Pilot-Light Sockets



SERIES 200 MINIATURE BAYONET

Miniature bayonet sockets with insulating sleeves. Have .025 to .032″ steel brackets; cadmium-plated for corrosion resistance. Built-in 6″ long #22 (7x30) wire leads U.L. rated at 80°C., PVC insulated. Use T-3¼, G-3½ or G-4½ bulb. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Skt. Fig.	Bkt. Fig.	EACH 1-24	25-99	100-Up
60 D 8054	2-01	A	X	.35	.25	.20
60 D 8055	2-04	B	B	.35	.25	.20
60 D 8056	2-06	A	A	.35	.25	.20
60 D 8057	2-13	A	M	.35	.25	.20
60 D 8058	2-15	A	F	.35	.25	.20

SERIES 300 MINIATURE BAYONET

Miniature bayonet sockets in molded bakelite with wire leads. Type 3-30N complete with nut. U.L. and C.S.A. Listed. Use T-3¼ G-3½ G-4½ or NE-51 lamps. Av. shpg. wt. 1 oz.

60 D 8059	3-01	C	X	.40	.30	.25
60 D 8060	3-02	C	C	.40	.30	.25
60 D 8061	3-05	C	J	.40	.30	.25
60 D 8062	3-06	C	A	.40	.30	.25
60 D 8065	3-20	C	K	.40	.30	.25
60 D 9327	3-30N	D	D	.55	.45	.30

SERIES 400 CANDELABRA SCREW

Candelabra screw sockets in molded bakelite. #18 black and white wire leads 6″ long with ends stripped ½″. Type 4-40 snaps into 1⁵⁄₁₆″ hole. Type 4-30N with nut. For both incandescent and neon-glow lamps. Use NE-45 S6 or 10C7 lamps. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Skt. Fig.	Bkt. Fig.	EACH 1-24	25-99	100-Up
60 D 8066	4-01	F	X	.40	.30	.25
60 D 8068	4-05	F	J	.40	.30	.25
60 D 8069	4-06	F	A	.40	.30	.25
60 D 8070	4-08	F	R	.40	.30	.25
60 D 9328	4-40	F	Z	.40	.30	.25
60 D 9329	4-30N	F	D	.55	.45	.35

SERIES 500 MINIATURE SCREW

Miniature screw sockets with solder terminals tinned for easy connection. Useful for low-voltage incandescent lamp applications. Heavily cadmium-plated steel brackets resist corrosion. Use T-3¼, TL-3, or G-3½ lamps. *No bracket. Shpg. wt., 1 oz.

60 D 8072	5-01	G	X	.25	.20	.15
60 D 8073	5-04	G	B	.25	.20	.15
60 D 8074	5-05	G	J	.25	.20	.15
60 D 8075	5-06	G	A	.25	.20	.15
60 D 8076	5-07	G	*	.25	.20	.15
60 D 8077	5-08	G	R	.25	.20	.15
60 D 8078	5-13	G	M	.25	.20	.15

SERIES 600 CANDELABRA SCREW

Candelabra sockets with tinned solder terminals. Have .025 to .032″ steel brackets; cadmium-plated to fight corrosion. Use G6 or S6 lamps. *No bracket. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Skt. Fig.	Bkt. Fig.	EACH 1-24	25-99	100-Up
60 D 8080	6-01	H	X	.30	.20	.15
60 D 8081	6-04	H	B	.30	.20	.15
60 D 8082	6-05	H	J	.30	.20	.15
60 D 8083	6-06	H	H	.30	.20	.15
60 D 8084	6-07	H	*	.30	.20	.15
60 D 8085	6-08	H	R	.30	.20	.15
60 D 8086	6-11	H	N	.30	.20	.15
60 D 8087	6-13	H	M	.30	.20	.15

SERIES 700 MINIATURE BAYONET

Miniature bayonet sockets with insulated mounting brackets. Terminals are tinned for easy soldering. For low-voltage incandescent lamps as T-3¼, G-3½, and G-4½. *No bracket. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Skt. Fig.	Bkt. Fig.	EACH 1-24	25-99	100-Up
60 D 8089	7-01	K	X	.30	.20	.15
60 D 8090	7-04	K	B	.30	.20	.15
60 D 8091	7-05	J	J	.30	.20	.15
60 D 8092	7-06	K	A	.30	.20	.15
60 D 8093	7-07	K	*	.30	.20	.15
60 D 8094	7-08	K	R	.30	.20	.15
60 D 8095	7-11	N	N	.30	.20	.15
60 D 8096	7-13	M	M	.30	.20	.15
60 D 8097	7-15	K	F	.30	.20	.15
60 D 8098	7-20	K	K	.30	.20	.15
60 D 8099	7-35	L	L	.50	.40	.30

SERIES 11-200 CANDELABRA BAYONET

Single-contact candelabra bayonet socket. Has one 6″ #18 (16x30) wire lead, with a 1⁄32″ wall of PVC insulation U.L. and C.S.A. rated at 80°C. Has .035 to .042″ thick steel brackets, cadmium-plated to fight corrosion. For T-4½ bulb. Shpg. wt., 1 oz.

60 D 8100	11-271	Y	Y	.35	.30	.25
60 D 8101	11-272	Y	Y	.35	.30	.25

SERIES 12-200 CANDELABRA BAYONET

Double-contact candelabra bayonet sockets with wire leads. Contacts are mounted in an insulating bakelite disc and separated by small coils. Disc is spring-loaded to assure positive contact. #18-gauge (16x30) leads rated at 80° C. Rated 75 watts, 125 volts. Type 12-230BN with nut. Type 12-240 snaps into 1⁵⁄₁₆″ hole. For incandescent and neon glow lamps as G6, S6, 10C7 and NE-48. U.L. and C.S.A. Listed. Wt., 1 oz.

60 D 8102	12-201	X	X	.45	.35	.30
60 D 8104	12-212	X	E	.45	.35	.30
60 D 8105	12-240	Z	Z	.45	.35	.30
60 D 8106	12-271	Y	Y	.45	.35	.30
60 D 8107	12-272	Y	W	.45	.35	.30
60 D 9330	12-230BN	Z	D	.60	.50	.40
60 D 9331	12-240	Z	Z	.45	.35	.30

SERIES 1400 INTERMEDIATE SCREW

Intermediate screw sockets with wire leads. For incandescent and ozone lamps, as S-6 or S-11 intermediate lamps. U.L. and C.S.A. Listed. Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Skt. Fig.	Bkt. Fig.	EACH 1-24	25-99	100-Up
60 D 8108	14-71	P	P	.45	.35	.30
60 D 8109	14-72	P	W	.45	.35	.30

SERIES 1600 MIDGET SCREW

Midget screw sockets with solder terminals, tinned for easy connections. For P-2½ or T-1¾ lamps. Shpg. wt., 1 oz.

60 D 8111	16-08	R	R	.40	.30	.25

SERIES 1800 CANDELABRA SCREW

Candelabra screw base socket. For incandescent and neon-glow lamps, as S6 and NE-45. Rated 75 watts, 125 volts. Insulating sleeve for use over screw sleeve is supplied to meet U.L. and C.S.A. requirements. *Bracket turned down. 1 oz.

60 D 8114	18-76	S	S*	.35	.25	.20
60 D 8115	18-79	S	S	.35	.25	.20

SERIES 25-00 MIDGET GROOVED

Subminiature midget-grooved sockets for midget-grooved base incandescent lamps as TL-1¾, and T-1¾ lens-end lamps. Have two solder terminals. Provision for rapid lamp insertion; built-in ejection feature. Shpg. wt., 1 oz.

60 D 8942	25-08	T	R	.50	.40	.35
60 D 8943	25-12	T	T	.50	.40	.35
60 D 8944	25-05	T	J	.50	.40	.35
60 D 8945	25-06	T	A	.50	.40	.35

SERIES 25-200 MIDGET GROOVED

Subminiature midget-grooved sockets. Same as Series 25-00 above, but have two insulated wire leads. For TL-1¾ and T-1¾ lamps. Shpg. wt., 1 oz.

60 D 8980	25-208	T	R	.55	.45	.40
60 D 8981	25-212	T	T	.55	.45	.40
60 D 8982	25-277R	T	N	.55	.45	.40

SERIES 25-200-1 MIDGET-GROOVED

Subminiature midget-grooved sockets. Same as Series 25-00 above, but grounded types with single wire lead. Type 25-230N-1 with nut. Type 25-240-1 snaps into 1⁵⁄₁₆″ hole. For TL-1¾ and T-1¾. 1 oz.

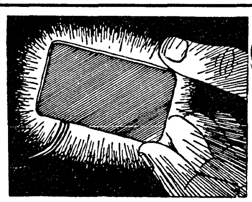
60 D 8946	25-230N-1	D	D	.70	.60	.50
60 D 8947	25-240-1	T	Z	.55	.45	.40

SERIES 57-00 CANDELABRA BAYONET

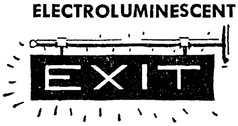
Double-contact candelabra bayonet with tabs. Rated 75 watts at 125 v. Cadmium-plated steel brackets, .035-.042″. For NE-48 or S6. 1 oz.

60 D 8120	57-24	CC	CC	.40	.30	.25
60 D 8121	57-41	AA	AA	.40	.30	.25
60 D 8122	57-45	BB	BB	.40	.30	.25

ELECTROLUMINESCENT PLASTIC LAMPS



Perfect for Signs



- Durable, Cannot Crack or Chip
- A Low-Brightness Light Source
- Various Colors

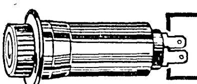
Area light-source of relatively low brightness for decorative and novelty uses where subdued light is preferred: recreation rooms, lounges, as night lights and many more similar applications. Flexible. Less than 1⁄32″ thick. Weighs only 3 oz. per sq. ft. Cannot crack or chip. In table: G, green; B, blue; Y, yellow; W, white. For 120 v., 60 cycle AC. Av. shpg. wt., 6 oz.

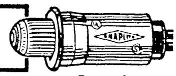
Stock No.	Size, Color	EACH 1-49	50-499	Stock No.	Size, Color	EACH 1-49	50-499	Stock No.	Size, Color	EACH 1-49	50-499
60 D 9249	2x2G	2.22	.77	60 D 9255	4x5Y	6.70	1.95	60 D 9260	8x10W	13.40	7.70
60 D 9250	2x2B	2.22	.77	60 D 9256	4x5W	6.70	1.95	60 D 9261	11¾x11¾G	19.00	13.50
60 D 9251	2x2Y	2.22	.77	60 D 9257	8x10G	13.40	7.70	60 D 9262	11¾x11¾B	19.00	13.50
60 D 9252	2x2W	2.22	.77	60 D 9258	8x10B	13.40	7.70	60 D 9263	11¾x11¾Y	19.00	13.50
60 D 9253	4x5G	6.70	1.95	60 D 9259	8x10Y	13.40	7.70	60 D 9264	11¾x11¾W	19.00	13.50
60 D 9254	4x5B	6.70	1.95								

Indicator and Pilot Lights

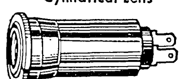
LEECRAFT

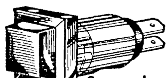
SNAPLITE NEON PILOT LIGHTS


Cylindrical Lens


Dome Lens

Available with 6" Wire Leads or 0.187" Tab Terminals


Flush Lens


Square Lens

Indicator lights with high brightness neon lamps. Snap into ½" panel hole, no additional hardware required. Choice of four lens cap styles. Built-in resistor, lamp replacement unnecessary during life of equipment. Insulated wire leads or 0.187" tab terminals (indicated by "T" in Type No.) ⅓-watt. Series 32 is for 110-125 volts. Series 35 (indicated by *) for 210-250 volts. U.L. and C.S.A. Listed. Shpg. wt., 1½ oz.

NEON LAMPS—CYLINDRICAL, DOME, FLUSH CAPS

Lens Color	Cylindrical Cap Stock No.	Type 32-	Dome-Shaped Cap Stock No.	Type 32-	Flush Cap Stock No.	Type 32-
Red	60 D 7921	2111	60 D 8126	2211	60 D 7932	2311
Amber	60 D 7922	2113	60 D 8127	2213	60 D 7983	2313
White	60 D 8124	2115	60 D 8129	2215	60 D 7984	2315
Clear	60 D 7923	2117	60 D 8128	2217	60 D 7985	2317
Red	60 D 7750	2111T	60 D 7758	2211T	60 D 7986	2311T
Amber	60 D 7751	2113T	60 D 7783	2213R	60 D 8749	2313T
White	60 D 7755	2115T	60 D 7882	2215T	60 D 6102	2315T
Clear	60 D 7756	2117T	60 D 7911	2217T	60 D 6103	2317T
Red	60 D 7925	2111*	60 D 6100	2211*	60 D 6104	2311*
Amber	60 D 7926	2113*	60 D 6101	2213*	60 D 6105	2313*

1-24, EA.	25-99, EA.	100-249, EA.	250-499, EA.	500-999, EA.
.75	.60	.40	.37	.335

ABOVE TYPES WITH CHROME BEZEL

Red	60 D 8999	R2111	60 D 6106	R2211	60 D 6108	R2311
Amber	60 D 9000	R2113	60 D 6107	R2213	60 D 6109	R2313
Red	60 D 9003	R2111T	60 D 9011	R2211T	60 D 9019	R2311T
Amber	60 D 9004	R2113T	60 D 9012	R2213T	60 D 9020	R2313T

1-24, EA.	25-99, EA.	100-249, EA.	250-499, EA.	500-999, EA.
.80	.65	.43	.405	.37

SQUARE LENS WITH CHROME BEZEL—110 VOLTS

Lens Color	6" Wire Leads Stock No.	Mfr's Type	Tab Terminals Stock No.	Mfr's Type
Red	60 D 6110	32R2911	60 D 6114	32R2911T
Amber	60 D 6111	32R2913	60 D 6115	32R2913T
White	60 D 6112	32R2915	60 D 6116	32R2915T
Clear	60 D 6113	32R2917	60 D 6117	32R2917T

1-24, EA.	25-99, EA.	100-249, EA.	250-499, EA.	500-999, EA.
.80	.65	.43	.405	.37

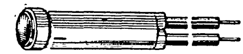
INCANDESCENT PILOT LAMPS WITH CHROME BEZEL

As above, but with incandescent lamp. 6" wire leads. 1½ oz.

Cap	Lens Color	6 Volts (200 ma) Stock No.	Type 32R-	14 Volts (80 ma) Stock No.	Type 32R-	28 Volts (40 ma) Stock No.	Type 32R-
Cyl	Red	60 D 6118	G1-2111	60 D 6136	G3-2111	60 D 6154	G5-2111
Cyl	Grn	60 D 6119	G1-2112	60 D 6137	G3-2112	60 D 6155	G5-2112
Cyl	Amb	60 D 6120	G1-2113	60 D 6138	G3-2113	60 D 6156	G5-2113
Cyl	Blue	60 D 6121	G1-2114	60 D 6139	G3-2114	60 D 6225	G5-2114
Cyl	Wht	60 D 6122	G1-2115	60 D 6140	G3-2115	60 D 6157	G5-2115
Cyl	Clr	60 D 6123	G1-2117	60 D 6141	G3-2117	60 D 6158	G5-2117
Dome	Red	60 D 6124	G1-2211	60 D 6142	G3-2211	60 D 6159	G5-2211
Dome	Grn	60 D 6125	G1-2212	60 D 6143	G3-2212	60 D 6160	G5-2212
Dome	Amb	60 D 6126	G1-2213	60 D 6144	G3-2213	60 D 6161	G5-2213
Dome	Blue	60 D 6127	G1-2214	60 D 6145	G3-2214	60 D 6162	G5-2214
Dome	Wht	60 D 6128	G1-2215	60 D 6146	G3-2215	60 D 6163	G5-2215
Dome	Clr	60 D 6129	G1-2217	60 D 6147	G3-2217	60 D 6164	G5-2217
Flush	Red	60 D 6130	G1-2311	60 D 6148	G3-2311	60 D 6165	G5-2311
Flush	Grn	60 D 6131	G1-2312	60 D 6149	G3-2312	60 D 6166	G5-2312
Flush	Amb	60 D 6132	G1-2313	60 D 6150	G3-2313	60 D 6167	G5-2313
Flush	Blue	60 D 6133	G1-2314	60 D 6151	G3-2314	60 D 6168	G5-2314
Flush	Wht	60 D 6134	G1-2315	60 D 6152	G3-2315	60 D 6169	G5-2315
Flush	Clr	60 D 6135	G1-2317	60 D 6153	G3-2317	60 D 6170	G5-2317
Sq	Red	60 D 6171	G1-2911	60 D 6177	G3-2911	60 D 6183	G5-2911
Sq	Grn	60 D 6172	G1-2912	60 D 6178	G3-2912	60 D 6184	G5-2912
Sq	Amb	60 D 6173	G1-2913	60 D 6179	G3-2913	60 D 6185	G5-2913
Sq	Blue	60 D 5174	G1-2914	60 D 6180	G3-2914	60 D 6186	G5-2914
Sq	Wht	60 D 6175	G1-2915	60 D 6181	G3-2915	60 D 6187	G5-2915
Sq	Clr	60 D 6176	G1-2917	60 D 6182	G3-2917	60 D 6188	G5-2917

Series	1-24, EA.	25-99, EA.	100-249, EA.	250-499, EA.	500-999, EA.
G1	1.20	.95	.587	.565	.546
G3, G5	1.15	.95	.580	.570	.544

"TINEON" MINIATURE NEON INDICATOR LIGHTS

A 
Hi-Hat

B 

Flush-Mount

High-brightness neon indicator lamps in white nylon housing. Built-in resistor to suit applied voltage. Press-fit into 5/16" hole. Choice of flush-mounting or hi-hat lens; red, amber, white or clear lens. Plastic insulated 6" leads, 18-ga., stripped ½". Speed nut for maximum security. ⅓-watt at 125 v. U.L., C.S.A. Listed. 1 oz.

STANDARD FLUSH MOUNT

Stock No.	Mfr's Type	Color	EACH 1-24	25-99	100-249	250-499	500-999
60 D 8698	36N2311	Red	.65	.50	.40	.37	.335
60 D 8699	36N2313	Amber	.65	.50	.40	.37	.335
60 D 8700	36N2315	White	.65	.50	.40	.37	.335
60 D 8701	36N2317	Clear	.65	.50	.40	.37	.335

HI-HAT WITH ALUMINUM BEZEL

Stock No.	Mfr's Type	Color	1-24	25-99	100-249	250-499	500-999
60 D 7000	36EN2111	Red	.80	.65	.50	.445	.372
60 D 7048	36EN2113	Amber	.80	.65	.50	.445	.372
60 D 7052	36EN2115	White	.80	.65	.50	.445	.372
60 D 7053	36EN2117	Clear	.80	.65	.50	.445	.372

FLUSH MOUNT WITH ALUMINUM BEZEL

Stock No.	Mfr's Type	Color	1-24	25-99	100-249	250-499	500-999
60 D 7066	36EN2311	Red	.80	.65	.50	.445	.372
60 D 7068	36EN2313	Amber	.80	.65	.50	.445	.372
60 D 7069	36EN2315	White	.80	.65	.50	.445	.372
60 D 7498	36EN2317	Clear	.80	.65	.50	.445	.372

"TINEON" MINIATURE INCANDESCENT INDICATOR LIGHTS WITH ALUMINUM BEZEL

Meet low-voltage characteristics in white nylon housing. Press-fit into 5/16" hole. Choice of 6, 14 or 28 v.; flush-mounting or hi-hat lens; red, green, amber, blue, white, or clear lens. Aluminum bezels. 6" insulated leads. With speed nut. Ratings: 6 v. types, 200 ma; 14 v., 80 ma; 28 v., 40 ma. U.L., C.S.A. Listed. 1 oz.

HI-HAT LENS

Lens Color	6 Volts (200 ma) Stock No.	Type 41EN-	14 Volts (80 ma) Stock No.	Type 41EN-	28 Volts (40 ma) Stock No.	Type 41EN-
Red	60 D 6189	G1-2111	60 D 6201	G3-2111	60 D 6213	G5-2111
Green	60 D 6190	G1-2112	60 D 6202	G3-2112	60 D 6214	G5-2112
Amber	60 D 6191	G1-2113	60 D 6302	G3-2113	60 D 6215	G5-2113
Blue	60 D 6192	G1-2114	60 D 6204	G3-2114	60 D 6216	G5-2114
White	60 D 6193	G1-2115	60 D 6205	G3-2115	60 D 6217	G5-2115
Clear	60 D 6194	G1-2117	60 D 6206	G3-2117	60 D 6218	G5-2117

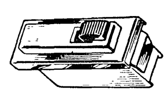
FLUSH-MOUNT LENS

Lens Color	6 Volts Stock No.	Type 41EN-	14 Volts Stock No.	Type 41EN-	28 Volts Stock No.	Type 41EN-
Red	60 D 6195	G1-2311	60 D 6207	G3-2311	60 D 6219	G5-2311
Green	60 D 6196	G1-2312	60 D 6208	G3-2312	60 D 6220	G5-2312
Amber	60 D 6197	G1-2313	60 D 6209	G3-2313	60 D 6221	G5-2313
Blue	60 D 6198	G1-2314	60 D 6210	G3-2314	60 D 6222	G5-2314
White	60 D 6199	G1-2315	60 D 6211	G3-2315	60 D 6223	G5-2315
Clear	60 D 6200	G1-2317	60 D 6212	G3-2317	60 D 6224	G5-2317

PRICES FOR INCANDESCENT INDICATOR LIGHTS

Series	1-24, EA.	25-99, EA.	100-249, EA.	250-499, EA.	500-999, EA.
G1	1.25	.90	.602	.57	.558
G3	1.20	.95	.622	.598	.578
G5	1.15	.90	.600	.570	.556

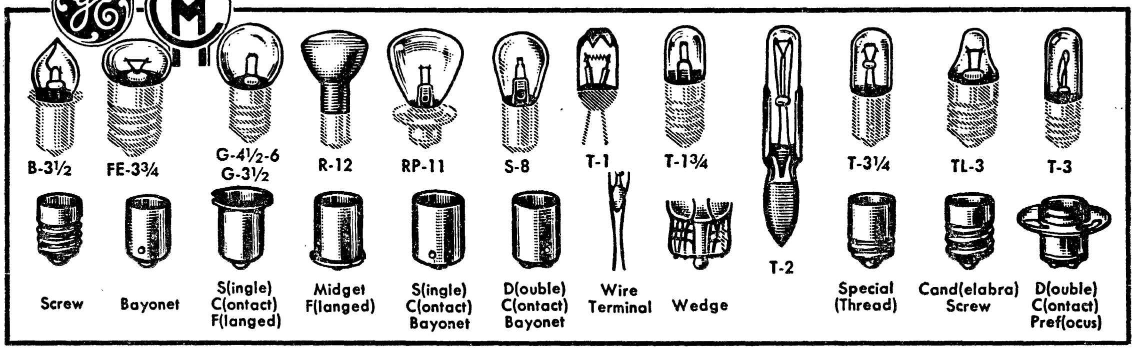
NEW "SLIDELITE" PILOT INDICATOR/SLIDE SWITCH



Slide switch and pilot indicator light in a single white nylon housing. Saves space and cost. For panels up to .090". Snaps into 1.281x.395" hole. Neon types rated ⅓-watt. SPST switch rated 3 amps AC or 0.5 amps DC at 125 v. U.L. and C.S.A. Listed. Chromed bezel. 6" wire leads. *Neon, specify red, amber or white lens; †incandescent, specify red, green, amber, blue or white lens. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Light	Volts	Amps	EACH 1-24	25-99
60 D 6478	51	*Neon	125	......	1.75	1.45
60 D 6479	51G1	†Incand.	6	.20	2.20	1.90
60 D 6480	51G3	†Incand.	12-14	.08	1.95	1.65
60 D 6481	51G5	†Incand.	28	.04	1.90	1.60

Lamps by G.E. and Chicago-Miniature



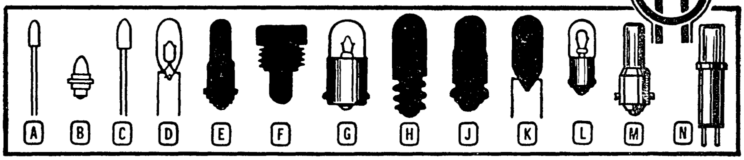
WE WILL SUPPLY MINIATURE AND SUBMINIATURE LAMPS BY G.E. OR CHICAGO-MINIATURE, WHICHEVER ARE IN STOCK WHEN YOUR ORDER IS FILLED

Stock No.	Mfr's Type	Volts	Amps	Base	Bulb Style	EACH	PER PKG. of 10 1-9	10-99
60 D 7300	PR-2	2.4	.50	S.C. F.	B-3½	.19	1.16	1.04
60 D 7301	PR-3	3.6	.50	S.C. F.	B-3½	.19	1.16	1.04
60 D 7302	PR-4	2.3	.27	S.C. F.	B-3½	.19	1.16	1.04
60 D 7303	PR-6	2.47	.30	S.C. F.	B-3½	.19	1.16	1.04
60 D 7305	PR-12	5.95	.50	S.C. F.	B-3½	.19	1.16	1.04
60 D 7306	PR-13	4.75	.50	S.C. F.	B-3½	.19	1.16	1.04
60 D 7367	6	6.4	3.0	D.C. Bayonet	S-8	.34	1.99	1.79
60 D 7307	12	6.3	.15	Min. 2-pin	G-3½	.24	1.42	1.28
60 D 7308	13	3.7.	.30	Screw	G-3½	.16	.99	.89
60 D 7309	14	2.5	.30	Screw	G-3½	.16	.99	.89
60 D 7310	24E	24	.035	Tel. Slide	T-2	.63	3.74	3.37
60 D 7369	24X	24	.035	Tel. Slide	T-2	.63	3.74	3.37
60 D 7312	39	6.3	.36	Bayonet	T-3¼	.34	1.89	1.70
60 D 7313	40	6.8	.15	Screw	T-3¼	.14	.81	.73
60 D 7314	41	2.5	.50	Screw	T-3¼	.21	1.27	1.14
60 D 7315	43	2.5	.50	Bayonet	T-3¼	.21	1.27	1.14
60 D 7366	44	6.3	.25	Bayonet	T-3¼	.14	.81	.73
60 D 7316	45	3.2	.35	Bayonet	T-3¼	.17	1.06	.95
60 D 7317	46	6.3	.25	Screw	T-3¼	.14	.81	.73
60 D 7318	47	6.3	.15	Bayonet	T-3¼	.14	.81	.73
60 D 7319	48	2.0	.06	Screw	T-3¼	.21	1.27	1.14
60 D 7320	48C	48	.035	Tel. Slide	T-2	.68	4.04	3.63
60 D 7321	49	2.0	.06	Bayonet	T-3¼	.17	1.06	.95
60 D 7322	50	7.5	1 c.p.	Screw	G-3½	.15	.87	.78
60 D 7323	51	7.5	1 c.p.	Bayonet	G-3½	.13	.79	.71
60 D 7370	52	14.4	.10	Screw	G-3½	.26	1.58	.42
60 D 7324	53	14.4	.12	Bayonet	G-3½	.13	.79	.71
60 D 7325	55	7.0	2 c.p.	Bayonet	G-4½	.13	.79	.71
60 D 9432	55C	55	.050	Tel. Slide	T-2	.68	4.04	3.60
60 D 7326	57	14	2 c.p.	Bayonet	G-4½	.13	.79	.71
60 D 7327	63	6-8	3 c.p.	S.C. Bayonet	G-6	.17	1.01	.91
60 D 7328	67	13.5	4 c.p.	S.C. Bayonet	G-6	.43	2.51	2.26
60 D 7329	67K	13.5	4 c.p.	Cand. Screw	G-6	.21	1.26	1.13
60 D 7330	81	6-8	6 c.p.	S.C. Bayonet	G-6	.21	1.26	1.13
60 D 7331	82	6-8	6 c.p.	D.C. Bayonet	G-6	.16	.99	.89
60 D 9707	93	12.8	1.04	S.C. Bayonet	S-8	.30	1.79	1.61
60 D 7332	112	1.2	.22	Screw	TL-3	.16	.99	.89
60 D 6737	137	6.3	.25	Min. Bay.	G-3½	.17	1.06	.95
60 D 6738	157	5.8	1.1	Screw	G-6	1.00	5.95	5.36
60 D 7334	158	12	.24	Wedge	T-3¼	.20	1.14	1.03
60 D 7335	159	6.3	.15	Wedge	T-3¼	.21	1.26	1.13
60 D 7336	222	2.2	.25	Screw	TL-3	.16	.99	.89
60 D 7337	223	2.2	.25	Screw	FE-3¾	.19	1.16	1.04
60 D 7338	224	2.15	.22	Special	TL-2¾	.19	1.16	1.04
60 D 7339	233	2.3	.27	Screw	G-3½	.19	1.16	1.04
60 D 6739	240	6.3	.36	Bayonet	T-3¼	.21	1.26	1.13
60 D 7340	248	2.5	.80	Screw	G-5½	.26	1.58	1.42
60 D 7373	259	6.3	.25	Wedge	T-3¼	.19	1.16	1.04
60 D 6740	307	28	.67	S.C. Bayonet	S-8	.50	2.99	2.69
60 D 7341	313	28	.17	Bayonet	T-3¼	.30	1.78	1.60
60 D 6741	324	3	.19	Wire Term.	T-1¼	.58	3.45	3.10
60 D 7342	327	28	.04	Mid. Flanged	T-1¾	.70	4.15	3.74
60 D 9406	CM327LSV	2.80	.06	Mid. Flanged	T-1¾	1.40	8.50	7.65
60 D 7343	328	6	.20	Mid. Flanged	T-1¾	.54	3.25	2.90
60 D 7374	330	14	.08	Mid. Flanged	T-1¾	.78	4.61	4.15
60 D 7145	331	1.35	.06	Mid. Flanged	T-1¾	.84	5.01	4.51
60 D 7146	334	28.0	.04	Mid. Flanged	T-1¾	.76	3.98	3.59
60 D 6742	337	6	.20	S.C Mid F	T-1¾	1.55	9.09	8.18
60 D 7147	338	2.7	.06	Mid. Flanged	T-1¾	.84	5.01	4.51
60 D 7375	344	10	.014	Mid. Flanged	T-1¾	1.46	8.46	7.61
60 D 7376	345	6	.04	Mid. Flanged	T-1¾	1.45	8.76	7.62
60 D 6743	346	18	04	SC. Mid F	T-1¾	1.26	7.53	6.78
60 D 7377	363	14	.20	Bayonet	G-3½	.21	1.26	1.13

Stock No.	Mfr's Type	Volts	Amps	Base	Bulb Style	EACH	PER PKG. of 10 1-9	10-99
60 D 7378	405	6.5	.50	Screw	G-4½	.25	1.67	1.50
60 D 7379	406	2.6	.30	Screw	G-4½	.22	1.30	1.20
60 D 7380	407	4.9	.30	Screw	G-4½	.20	1.22	1.10
60 D 7344	425	5	.50	Screw	G-4½	.19	1.16	1.04
60 D 7346	432	18.0	.25	Screw	G-4½	.21	1.26	1.13
60 D 7347	433	18	.25	Bayonet	G-4½	.26	1.58	1.42
60 D 7383	509K	24	.18	Cand. Screw	G-6	.26	1.58	1.42
60 D 7393	680	5	.060	Wire Term.	T-1	3.10	18.62	16.76
60 D 7394	682	5	.060	Sub-Mid. F.	T-1	3.88	23.17	20.85
60 D 7395	683	5	.060	Wire Term.	T-1	3.10	18.62	16.76
60 D 7396	685	5	.060	Sub-Mid. F.	T-1	3.88	23.17	20.85
60 D 7397	715	5	.115	Wire Term.	T-1	3.10	18.62	16.76
60 D 7403	755	6.3	.15	Min. Bay.	T-3¼	.26	1.58	1.42
60 D 7404	756	14	.08	Min. Bay.	T-3¼	.34	1.98	1.78
60 D 7405	757	28	.08	Bayonet	T-3¼	.43	2.51	2.26
60 D 9411	CM8-713	5.0	.075	Wire Term.	T-1	3.20	19.60	12.30
60 D 9412	CM8-714	5.0	.075	Sub-Mid. F.	T-1	4.00	24.44	15.40
60 D 6744	370	18	.04	S.C. Midget	T-1¾	1.26	7.53	6.78
60 D 6748	375	3	.015	S.C. Mid. F	T-1¾	2.03	12.22	11.00
60 D 7400	380	6.3	.04	Mid. Flanged	T-1¾	1.74	10.61	9.55
60 D 7401	381	6.3	.20	Mid. Flanged	T-1¾	1.10	6.58	5.92
60 D 7402	382	14	.08	Mid. Flanged	T-1¾	1.26	7.53	6.78
60 D 6745	386	14	.08	Mid. Grooved	T-1¾	1.26	7.53	6.78
60 D 6746	387	28	.04	Mid. Flanged	T-1¾	.73	4.73	3.93
60 D 6747	388	28	.04	Mid. Grooved	T-1¾	1.35	8.06	7.25
60 D 9415	CM8-725	5.0	.115	Wire Term.	T-¾	1.92	12.00	10.80
60 D 9417	CM8-801	5.0	.06	Min. Bayonet	T-3¼	3.44	21.50	19.35
60 D 9418	CM8-802	5.0	.06	Min. Bayonet	T-3¼	3.44	21.50	19.35
60 D 9419	CM8-803	5.0	.115	Min. Bayonet	T-3¼	3.44	21.50	19.35
60 D 6600	1133	6.2	3.91	S.C. Bayonet	RP-N	.39	2.29	2.06
60 D 6749	1252	24	.23	D.C. Bayonet	G-6	.44	2.83	2.55
60 D 7384	1383	12	20w	S.C. Bayonet	R-12	2.63	15.81	14.23
60 D 7349	1445	18	.15	Bayonet	G-3½	.19	1.13	1.04
60 D 7350	1446	12	.20	Screw	G-3½	.24	1.45	1.31
60 D 7351	1447	1.80	.15	Screw	G-3½	.19	1.16	1.04
60 D 7353	1458	20	.25	Bayonet	G-5	.26	1.58	1.42
60 D 7385	1474	14	.17	Screw	T-3	.34	2.03	1.83
60 D 7354	1477	24	.17	Screw	T-3	.52	3.13	2.82
60 D 7355	1487	12-16	.20	Screw	T-3¼	.24	1.45	1.30
60 D 7356	1488	14	.15	Bayonet	T-3¼	.26	1.58	1.42
60 D 7533	1490	3.2	0.16	Bayonet	T-3¼	.17	1.06	.95
60 D 7357	1493	6.5	2.75	D.C. Bayonet	S-8	1.02	6.08	5.47
60 D 7386	1630	6.5	2.75	D.C. Pref.	S-8	1.36	8.10	7.29
60 D 7359	1768	6	.20	Midget Screw	T-1¾	.87	5.21	4.69
60 D 7388	1769	2.5	.20	Midget Screw	T-1¾	.84	5.01	4.51
60 D 7360	1813	14.4	.10	Min. Bayonet	T-3¼	.24	1.45	1.31
60 D 7361	1815	12-16	.20	Min. Bayonet	T-3¼	.19	1.16	1.04
60 D 7389	1816	13	.33	Min. Bayonet	T-3¼	.23	1.38	1.23
60 D 7362	1819	28	.04	Min. Bayonet	T-3¼	.35	2.07	1.87
60 D 7363	1820	28	.10	Min. Bayonet	T-3¼	.31	1.84	1.66
60 D 7390	1822	36	.10	Min. Bayonet	T-3¼	.58	3.48	3.13
60 D 7391	1828	37.5	.05	Min. Bayonet	T-3¼	.63	3.77	3.39
60 D 7364	1829	28	.07	Min. Bayonet	T-3¼	.34	2.03	1.83
60 D 7392	1835	55	.05	Min. Bayonet	T-3¼	.63	3.77	3.39
60 D 7365	1847	6.3	.15	Min. Bayonet	T-3¼	.17	1.06	.95
60 D 9421	CM-1866	6.3	.25	Bayonet	T-3¼	.21	1.26	1.13
60 D 7596	1869	10	.014	Wire Term.	T-1¾	1.10	6.58	5.92
60 D 7542	1891	12.0	0.24	Min. Bayonet	T-3¼	.16	.96	.87
60 D 7543	1892	14.0	0.12	Min. Bayonet	T-3¼	.24	1.46	1.31
60 D 7399	2128	3	.0125	Wire Term.	T-1	4.74	28.23	25.41
60 D 7406	2180	6.3	.04	Wire Term.	T-1¾	.95	5.64	5.08
60 D 7407	2181	6.3	.20	Wire Term.	T-1¾	.52	3.13	2.82
60 D 7408	2182	14	0.8	Wire Term.	T-1¾	.63	3.77	3.39

Miniature Lamps and Sockets

CHICAGO MINIATURE LAMPS



ABBREVIATIONS DESCRIBING BASE AND BULB

M., Bay.—miniature bayonet. M.F.—midget flanged. S.F.—sub-midget flanged. W.T.—wire terminals. In Ultraminiature and MIL Spec list, letters "AS" following Type No. indicate "aged and selected" lamps; "L" indicates lamps of indefinite long life.

LONG LIFE LAMPS

Withstand effects of vibration, shock and acceleration. 6 oz.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	Bulb Style	EACH	BOX OF 10 1-9	BOX OF 10 10-99
60 D 9406	CM-327LSV	G	28.0	.06	M.F.	T-1¾	1.40	8.50	7.65
60 D 9411	CM8-713	C	5.0	.075	W.T.	T-1	3.20	19.60	17.64
60 D 9412	CM8-714	B	5.0	.075	S.F.	T-1	4.00	24.40	21.96
60 D 9415	CM8-725	A	5.0	.115	W.T.	T-¾	1.92	12.00	10.80
60 D 9417	CM8-801	L	5.0	.06	M., Bay.	T-3¼	3.44	21.50	19.35
60 D 9418	CM8-802	L	5.0	.06	M., Bay.	T-3¼	3.44	21.50	19.35
60 D 9419	CM8-803	L	5.0	.104	M., Bay.	T-3¼	3.44	21.50	19.35
60 D 9421	CM-1866	L	6.3	.25	M., Bay.	T-3¼	.21	1.26	1.13

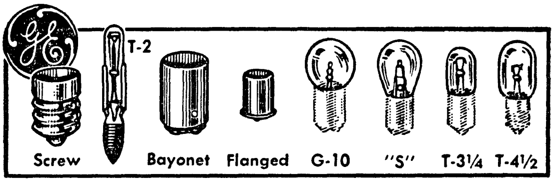
SMALLEST 5000-HOUR 120-VOLT LAMP

High reliability 120-volt lamps featuring small size and very long (5000-hr.) life. Available with bayonet or cartridge base (see table below). Developed for critical aerospace and MS requirements. For 120 volts, .025 amps. Flat top type bulb. 3 oz.

Stock No.	Mfr's Type	Fig.	Base	EACH	BOX OF 10 1-9	BOX OF 10 10-99
60 D 9427	CM8-967	M	Bayonet	.45	4.30	4.10
60 D 9428	CML-00026	N	Cartridge	1.35	10.60	9.54

MINIATURE AND MIL SPEC LAMPS

Stock No.	Mfr's. Type	Fig.	Volts	Amps	Base	EACH	PER PKG. OF 10 1-9	PER PKG. OF 10 10-Up
60 D 7123	323	F	3.0	.19	Per Mil. 25236-323	.87	5.18	4.66
60 D 7125	327 AS-15	G	28.0	.04	Per Mil. 25237-327	1.97	11.78	10.61
60 D 7130	328L	G	6.0	.20	Per Mil. 25237-328	1.53	9.50	8.55
60 D 7145	331	G	1.35	.06	Midget Flanged	.84	5.01	4.51
60 D 7146	334	J	28.0	.04	Midget Grooved	.76	3.98	3.58
60 D 7126	335	H	28.0	.04	Per Mil. 15612-2	1.50	8.76	7.86
60 D 7149	1705	K	14.0	.08	Wire Terminal	.63	3.77	3.39
60 D 7150	1730	K	6.0	.04	Wire Terminal	.95	5.64	5.08
60 D 7151	1764	K	28.0	.04	Wire Terminal	.47	2.82	2.54
60 D 7137	1768L	H	6.0	.20	Per Mil. 15612-1	1.46	9.00	6.50
60 D 7152	1775	H	6.3	.075	Midget Screw	.84	5.01	4.51
60 D 7153	1784	K	6.0	.20	Wire Terminal	.63	3.77	3.39
60 D 7154	1784 AS10	K	6.0	.20	Wire Terminal	1.84	11.50	10.35
60 D 7155	1859	K	10-0	.015	Wire Terminal	1.35	8.25	7.42
60 D 7156	CM8-623	F	28.0	.04	Threaded Knurled	1.97	12.30	11.07
60 D 7138	CM8-627	D	28.0	.04	Per Mil. 28135-1	1.19	7.41	6.67
60 D 7158	CM8-631	E	1.35	.06	Midget Flanged	1.32	8.25	7.42
60 D 7159	CM8-632	E	28.0	.04	Midget Flanged	1.79	11.20	10.08
60 D 7160	CM8-634	D	6.0	.20	Wire Terminal	.57	3.54	3.19
60 D 7164	CM8-661	D	6.0	.04	Wire Terminal	1.32	8.25	7.42
60 D 7165	CM8-666	A	5.0	.08	Wire Terminal	1.92	12.00	10.80

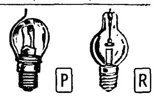


G.E. MINIATURE NEON-GLOW INDICATOR LAMPS

For 105-600 v., except ‡210-600 v. §DC only. Screw types have series resistor in base for 105-125 v.; others require external resistor. In Base column of table, below Sk. means skirted; D.C., double contact; S.C., single contact; Mid. Flange, midget flanged; Bay., bayonet; Cand., candelabra. *AC starting voltage, DC starting v. 40% higher. †High brightness. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Watts	*AC V.	Bulb Style	Base	Each	BOX OF 10
60 D 8516	A1B	1/17	65	T-2	Wire Term.	.13	1.26
60 D 8517	†A1C	1/17	95	T-2	Wire Term.	.13	1.26
60 D 8518	NE-2	1/17	65	T-2	Wire Term.	.10	.90
60 D 8519	NE-2D	1/15	65	T-2	S.C. Mid. Flange	.78	7.02
60 D 8520	NE-2E	1/10	65	T-2	Wire Term.	.10	.90
60 D 8521	†NE-2H	1/5	....	T-2	Wire Term.	.11	.89
60 D 8522	†NE-2J	1/5	105	T-2	S.C. Mid. Flange	.78	7.02
60 D 8523	NE-7	¼	55	T-4½	Wire Term.	.69	6.21
60 D 8524	NE-16	¼	§67	T-4½	D.C. Bay. Cand.	.63	5.67
60 D 8525	NE-17	¼	55	T-4½	D.C. Bay. Cand.	.86	7.74
60 D 8526	NE-21	¼	55	T-4½	S.C. Bay. Cand.	.90	8.10
60 D 8527	NE-30	1	60	G-10	Edison	1.14	10.26
60 D 8528	NE-32	1	60	G-10	D.C. Bay. Cand.	1.14	10.26
60 D 8529	NE-34	2	60	S-14	Edison	1.76	15.80
60 D 8530	NE-40	3	60	S-14	Edison	2.56	23.40
60 D 8531	NE-42	3	60	S-14	Sk. D.C. Bay. Cand.	2.52	22.68
60 D 8532	NE-45	¼	65	T-4½	Cand. Screw	.81	7.29
60 D 8533	NE-48	¼	65	T-4½	D.C. Bay. Cand.	.67	6.03
60 D 8534	NE-51	1/25	65	T-3¼	S.C. Bay. Min.	.20	1.80
60 D 8535	†NE-51H	1/7	....	T-3¼	S.C. Bay. Min.	.22	1.98
60 D 8536	‡NE-56	1	60	S-11	Edison	1.19	9.52
60 D 8537	NE-57	¼	55	T-4¼	Cand. Screw	.94	7.52
60 D 8538	‡NE-58	½	65	T-4½	Cand. Screw	.90	7.20
60 D 8929	NE-66	1¼	65	T-4½	Cand. Screw	1.25	11.25
60 D 8930	NE-84	¼	95	T-2	Special Tel. Slide	.64	5.80

TUNGAR BULBS



Argon and argon-mercury filled tungar bulbs for rectification of AC to DC in battery chargers, etc. *For movie projectors. †Amps. 1¼ lbs.

Stock No.	Mfr's Type	Fig.	†	EACH	Stock No.	Mfr's Type	Fig.	†	EACH
60 D 7592	12X825	..	2	6.85	60 D 7595	189048	R	6	7.00
60 D 7593	206501	P	2	6.90	60 D 7597	189049	R	6	7.00
60 D 7594	20X672	....	5	9.40	60 D 7598	*217283	R	15	13.00

MINIATURE NEON-GLOW CIRCUIT CONTROL LAMPS

T-2 style bulbs; have wire leads. Radioactive additive reduces breakdown voltage in darkness. Tinned 1″ leads. 2 oz.

Stock No.	Mfr's Type	DC Start Voltage	Design Current DC Ma	EACH	BOX OF 10
60 D 7950	NE-23	60-90	.3	.16	1.44
60 D 7951	NE-76	68-76	.4	.50	4.50
60 D 7953	NE-83	60-100	10.0	.20	1.60
60 D 7954	NE-86	55-90	1.5	.16	1.44
60 D 7955	NE-96	120-150	.5	.20	1.80
60 D 7956	NE-97	110-140	.5	.20	1.80

ARGON GLOW LAMPS

Long-life lamps emit pale blue-violet light, near-ultraviolet radiation. Clear glass bulb. Type AR-3 has average life of 1000 hours. AR-1 has av. life of 3000 hours. For 110-120 v., 2 oz.

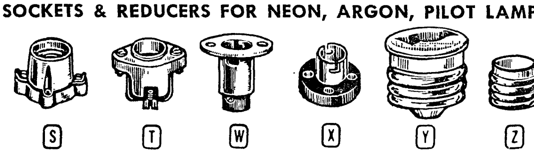
Stock No.	Mfr's Type	Watts	Bulb Style	Base	EACH	BOX of 10
60 D 8541	AR-3	¼	T-4½	Candelabra Screw	.85	7.65
60 D 8542	AR-1	2	S-14	Standard Edison	1.90	1.71

HIGH-OUTPUT LENS-END MINIATURE LAMPS

Focused beam, ideal for activating photoconductors in card or tape operations. 0.35 amp at 2.5 v., AC-DC. Midget grooved base. Overall diameter, .250″. 11/16″ long. Wt., 3 oz.

Stock No.	Type	Style	1-9, EA.	10-99, EA.	100-Up, EA.
60 D 7957	253	GTL-1¾	2.50	1.52	1.37
60 D 7958	253X	GTL-1¾	3.30	2.04	1.84
60 D 7959	261	GTL-1¾	7.20	4.36	3.92

SOCKETS & REDUCERS FOR NEON, ARGON, PILOT LAMPS

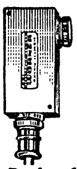


Figs. S, T, W, and X are sockets; other units are reducers. Reducer fits into socket to convert to more commonly used types of bulb bases. *With hard rubber insert in metal shell. 3 oz.

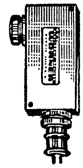
Stock No.	Fig.	Description	1-49, EA.	50-Up, EA.
60 D 7661	S	Edison socket	.14	.13
60 D 7662	S	Miniature screw socket	.15	.13
60 D 7663	T	Candelabra screw socket	.51	.46
60 D 7664	S	Candelabra screw socket	.16	.14
60 D 7665	W*	D.C. bay, candelabra socket	.40	.36
60 D 7666	X	D.C. bay, candelabra socket	.94	.85
60 D 7667	X	S.C. bay, candelabra socket	.90	.82
60 D 7668	Y	Edison-to-Cand. reducer	.22	.19
60 D 7669	Z	Candelabra-to-Min. reducer	.18	.15
60 D 7670	Z	Intermediate-to-Cand. reducer	.10	.08

Photoelectric Equipment, Lamps and Tubes

WORNER LOW-COST PHOTOELECTRIC COMPONENTS AND COMPLETE SYSTEMS



M-26



M-36

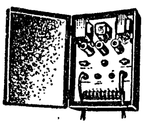
MINIATURE PHOTO-ELECTRIC COMPONENTS

Perfect for use even in areas with severe space limitations. Excellent for high-speed counting. Up to 500 counts per minute when powered by Model 67 Amplifier-Relay, listed below. Housed in tough one-piece, expertly machined aluminum cases. Designed for pin-point detection on cross-over beam at distances from 3″ to 12″. Directional beam supervises objects 1″ or larger at distances up to 8 feet. Miniature Models M-36 and M-26 install vertically as illustrated with installation instructions. Size, 1¼x¾x2½″.

MODEL M-36 VERTICAL LIGHT SOURCE. Takes operating voltage from Model 67 Amplifier unit, below. Wt., ¾ lb.
41 D 7318....................**33.84**

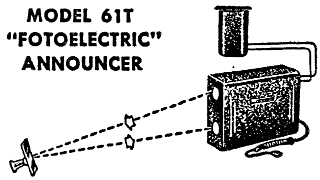
MODEL M-26 VERTICAL PHOTOCELL RECEIVER. Shpg. wt., 12 oz.
41 D 7319....................**38.88**

MODEL 67 AMPLIFIER-DPDT RELAY



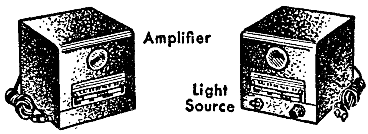
DPDT contacts rated 10 amps non-inductive and 5 amps inductive at 110 volts, AC. Size, 6x8x5″. For 110-120 volts, 50-60 cycle AC. Instructions.
41 D 7323. Shpg. wt., 8 lbs.....**88.89**

MODEL 61T "FOTOELECTRIC" ANNOUNCER



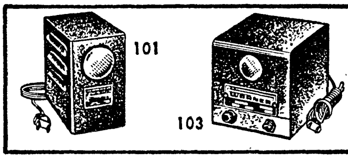
Effective low-cost "electronic receptionist." Light source and photocell in one housing, mirror reflects beam back to unit. When light beam is broken, warning chime sounds. Features reliable all-transistor design. Outfit consists of "Fotoelectric" unit, mirror and chime. Unit may be placed three to ten feet from mirror. Size, 8¼x6½x2¾″. For 110-120 v., 50-60 cycle AC.
41 D 7325. Shpg. wt. 9 lbs.........**54.00**
60 D 9707. Extra Bulb. 5 oz.............**.30**
41 D 7326. Extra Chime. 2 lbs........**6.75**

MODEL 4000 "WATCHMAN"



Two-unit photoelectric system for actuating burglar alarms. Light-source has infrared filter for invisible beam. Switch for continuous or momentary alarm. Sensitivity control. 6-v. output for alarm. For indoor use at distances to 50 ft. 5x5x5½″. For 110-120 v., 50-60 cycle AC. 11¾ lbs.
41 D 7232 U....................**77.28**

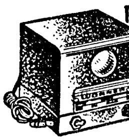
MODEL 5100. (Not illus.) As above, but has meter jack for plate-circuit test and alarm setting protected by lock. For up to 100 ft. For 110-120 v., 50-60 cycle AC. Shpg. wt. 14 lbs.
41 D 7441 U....................**122.43**



LOW-COST INDOOR UNITS

MODEL 103 PHOTOCELL-AMPLIFIER-RELAY. Combined in a single compact unit. Operates up to 450 times per minute with a 2″ object interrupting light beam. Photocell operates relay rated at 12½ amps, 115 volts AC, non-inductive load. Shield protects photocell from extraneous light. Hammerloid-finished steel case has removable cover for servicing. Instructions. Size, 5x5x5½″. For 110-120 v., 50-60 cycle AC.
41 D 7349. Shpg. wt., 5 lbs........**40.59**

MODEL 101 FIXED LIGHT SOURCE. Use with Model 103, above. Projects fixed beam up to 10 feet. Objects 2″ square and larger will interrupt beam and activate solenoid, counter, etc. Heavy-gauge hammerloid-finished steel case, 2½x4½x4″. Instructions. For 110-120 volts, 50-60 cycle AC.
41 D 7343. Shpg. wt., 2 lbs........**17.94**

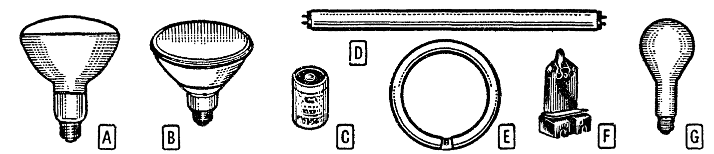


MODEL 102 ADJUSTABLE LIGHT SOURCE

Projects Beam Up to 15 Feet

Can supervise objects under 2″. Adjustable cross-over beam up to 24″. Over 24″ beam is directional and supervises objects over 2″. Hammerloid finish. For 110-120 v. AC. Complete instructions.
41 D 7348. Shpg. wt., 5 lbs........**33.32**

GENERAL ELECTRIC LAMPS AND FLUORESCENT TUBES



[A] INDOOR REFLECTOR LAMPS

For spot and floodlighting use with average beam control. Suitable for high-lighting in home, display lighting and supplementary lighting of shop. Medium bases. For 120 v., AC; 150 watts. Av. shpg. wt., ¾ lb. per pkg.

Stock No.	Watts Type	Description	PER PKG. 24 One	2-Up
60D6575	150R/SP	Spotlight	26.64	21.30
60D6576	150R/FL	Floodlamp	26.64	21.30

[B] OUTDOOR PROJECTOR LAMPS

Self-contained spotlighting and floodlighting units. Compact, offer high resistance to thermal shock. Reflector will not deteriorate from dirt. All are for 120 volts. Medium skirt bases. Av. wt., 1/2 lb. per pkg.

Stock No.	Watts Type	Description	PKG. OF 12 One	2-Up
60D6577	150 Par/SP	Spotlight	23.76	19.00
60D6578	150 Par/FL	Floodlight	23.76	19.00

[C] FLUORESCENT STARTERS

Designed to fit all standard fluorescent fixtures. Each package contains two starters. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Watts	PKG. OF 2 1-9	10-Up
60 D 6565	FS2	14, 15, 20	.45	.37
60 D 6566	FS4	30 or 40	.45	.37

[D] STANDARD FLUORESCENT TUBES

For bright, cool light. Have medium-size bi-pin base. All cool-white color. †T12 (40-watt) for regular or rapid-start service. *24 per pkg. Av. shpg. wt. 1½ lbs.

Stock No.	Watts Type	PKG. OF 6 1-3	4-Up
60D6579	F15T8/CW	6.30	5.05
60D6580	F30T8/CW	7.44	5.95
60D6581	*F15T12/CW†	25.20	20.16
60D6582K	F20T12/CW†	5.52	4.42
60D6583K	F40CW	6.30	5.05

[E] CIRCLINE FLUORESCENT TUBES

Designed and rated for operation in rapid-start circuits; will also attain full rated performance operating in conventional starter type circuits. Size in table indicates diameter of tube's circle. Av. wt., 1½ lbs.

Stock No.	Mfr's Type	Watts	Size	Dia.	EACH 1-11	12-Up
60D6584	T9	22	8¼″	1⅛″	3.34	3.01
60D6585	T10	32	12″	1⅛″	3.34	3.01

[F] LAMPHOLDER SOCKET

Designed to accommodate any standard-size 14, 15, 20, 30, and 40-watt fluorescent lamp. Each package contains two sockets. Shpg. wt., 3 oz.
26 D 2258. 1-9 Packages.....Per Pkg. **.90**
10 or More Packages..........Per Pkg. **.72**

[G] FROSTED INCANDESCENT LAMPS

Inside frosting diffuses light, eliminates striations and helps to soften shadows. Incandescent lamps for 120 v., AC. 2½ lbs.

Stock No.	Watts Type	PER PKG. OF 24 1-4	5-9	10-Up
60 D 6589	15A15	5.28	4.22	3.80
60 D 6590	25A	5.72	4.56	4.10
60 D 6591	40A	5.72	4.56	4.10
60 D 6592	60A	5.72	4.56	4.10
60 D 6593	75A	5.72	4.56	4.10
60 D 6594	100A	5.72	4.56	4.10
60 D 6595	150A	7.44	5.94	5.35
60 D 6596	200A	8.64	6.91	6.22

[G] YELLOW INCANDESCENT LAMPS

Excellent for outdoors, helps to repel insects. Medium bases. Av. shpg. wt. 2.2 lb.

60 D 6586	25A/Y	8.40	6.72	6.05
60 D 6587	60A/Y	8.40	6.72	6.05
60 D 6588	100A/1Y	8.40	6.72	6.05

FLUORESCENT BALLASTS

Wide selection of high-quality ballasts for all popular fixtures. ‡55-65% corrected at normal power factor. **90-100% corrected at high power factor. U.L. Listed. For 105-125 v., 60 cycle AC. *Lamp watts. †For use with rapid start lamps.

Stock No.	Type	Watts*	1-9	10-Up
‡1-LAMP BALLAST Wt., 1-3 lbs.				
60D6567	L-120F	15/20	1.65	1.35
60D6568	L-140F	40	2.00	1.66
60D6569	LO-14-20-C	14, 15, 20	.90	.81
60D6570	RLC-140	32, 40	2.78	2.25
‡2-LAMP BALLAST Wt., 2-3 lbs.				
60D6571	L-220F	20/20	2.43	1.96
60D6572	R-22-32	22/32	3.76	3.03
****2-LAMP BALLAST** Wt., 4-5 lbs.				
60D6573	S-240	40/40	5.78	4.64
60D6574	†RQM-2S40	40/40	5.24	4.30

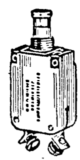
Wood-Electric Circuit Breakers

MAGNETIC AND THERMAL CIRCUIT BREAKERS

Wood Electric magnetic and thermal circuit breakers are precision calibrated and inspected to rigid quality control standards. All have unique trip-free mechanism—prevents contacts from closing during overload condition when actuator is in closed position. Meet requirements of MIL-E-5272C for humidity and salt spray. Withstand vibration of 10 g at 10-55 cps, shock of 25 g.

SINGLE-POLE THERMAL TYPE

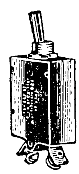
MODEL 105 MILITARY TYPE



Single-pole type, critically designed to meet the requirements of MIL-C-5809C and drawing MS25244 for AC and DC circuits. Interrupts over 2000 amps. Maximum operating voltages are 250 volts AC and 32 volts DC. Units carry indefinitely 116% of rated load with ultimate trip of 138%. Trip time at 200% is approximately 25 seconds. Size, 1¾x¾x1". Shpg. wt., 1½ oz. **Specify amperage rating when ordering: 5, 7.5, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 3433 C. 1-9......Each 6.84 10-25..............Each 5.70
26-99................Each 4.94 100-249............Each 4.37

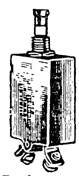
MODEL 112 TOGGLE TYPE



Designed for AC circuits up to 250 volts, DC circuits up to 32 volts. Ideal for use as a combination switch and circuit breaker. Carries 100% of rated load indefinitely, with ultimate trip of 135%. Tripping time at 200% is approximately 3 seconds. Interruption, over 3000 amps. Size, 2x¾x1¼". Shpg. wt., 2 oz. **Specify amperage rating when ordering: 5, 7.5, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 3434 C. 1-9..Each 4.14 10-25.........Each 3.45
26-99............Each 2.99 100-249.......Each 2.65

MODEL 109 PUSH-PULL TYPE



Quality single-pole thermal circuit breaker for protection of a variety of electronic equipment. Features push-pull button for opening and closing circuits. Operates on AC up to 250 volts, on DC up to 32 volts. Will carry 100% of rated load indefinitely, with ultimate trip of 135%. Approximate tripping time is 12 seconds. Interruption is over 5000%. Size, 2x¾x1¼". Shpg. wt., 2 oz. **Specify amperage rating when ordering: 5, 7.5, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 3435 C. 1-9......Each 3.96 10-25..............Each 3.30
26-99................Each 2.86 100-249............Each 2.53

MODEL 111 PUSH-PULL TYPE

Same specifications as Model 109 above, but 1 second tripping time. **Specify when ordering 1, 2, 3 or 4 amps.**

56 D 3436 C. 1-9......Each 7.83 10-25..............Each 6.53
26-99................Each 5.66 100-249............Each 5.00

MODEL 374 PUSH-TO-RESET TYPE

For economical low current protection. Button extends to indicate overload. Operates at up to 250 volts AC, 32 volts DC. Carries 100% of rated load, ultimate trip of 135%. Average trip time, 25 seconds at 200%. Interruption over 5000%. Size, 2⁵⁄₁₆x¾x1½". Shpg. wt., 1½ oz. **Specify amperage rating when ordering: 1, 2, 3 or 4 amps.**

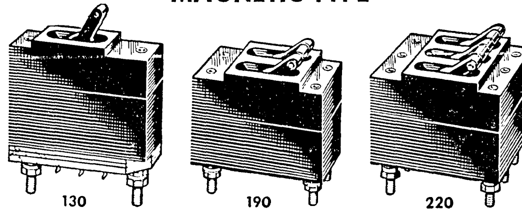
56 D 3437 C. 1-9..Each 2.52 10-25........Each 2.10
26-99............Each 1.82 100-249.....Each 1.61

MODEL 375 PUSH-TO-RESET TYPE

Same as above, but 12 second average trip time. **Specify amperage rating when ordering: 5, 7, 10, 15 or 20 amps.**

56 D 3438 C. 1-9..... Each 1.62 10-25..............Each 1.35
26-99................Each 1.17 100-249............Each 1.04

MAGNETIC TYPE



MODEL 122 SINGLE-POLE AC TYPE

(Not illus.) Similar to model 130 except no aux. switch. Designed for 60 cycle AC, up to 250 volts. Will carry 100% of rated load indefinitely. Max. trips 125%. Trip time at 200% is approximately 5 seconds. Interrupts over 1000 amps at 250 volts. Size, 4⁹⁄₆₄x2¹⁷⁄₃₂x2½". Shpg. wt., 4½ oz. **Specify amp rating when ordering: 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 4439 C. 1-9......Each 6.48 10-25..............Each 5.40
26-99.................Each 4.68 100-249............Each 4.14

MODEL 130 SINGLE-POLE DC TYPE

For use at up to 50 volts DC. Includes special switch for auxiliary circuit. Will carry 100% of rated load indefinitely, with ultimate trip of 120%. Trip time at 200% is approximately 15 milliseconds. Interrupts over 2000 amps at 50 volts. Size, 4⁹⁄₆₄x2¹⁷⁄₃₂x2½". Shpg. wt., 4½ oz. **Specify amperage rating when ordering: 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 3440 C. 1-24.....Each 8.46 10-25..............Each 7.05
26-99.................Each 6.11 100-249............Each 5.40

MODEL 190 TWO-POLE AC TYPE

Designed for use at up to 250 volts AC, 60 cycles. Both poles are interlocked and operate simultaneously. Will carry 100% of rated load indefinitely, and has ultimate trip of 125%. Trip time at 200% approx. 5 seconds. Interrupts over 1000 amps at 250 volts. Size, 1¹⁷⁄₃₂x2¹⁷⁄₃₂x2½". Shpg. wt., 9 oz. **Specify amperage rating when ordering: 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

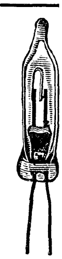
56 D 3441 C. 1-9......Each 16.92 10-25.............Each 14.10
26-99...............Each 12.22 100-249...........Each 10.81

MODEL 220 THREE-POLE AC TYPE

Three-pole circuit breaker for use at up to 250 volts AC, 60 cycles. All three poles are interlocked and operate simultaneously. Will carry 100% of rated load indefinitely and has an ultimate trip of 125%. Trip time is approximately 5 seconds at 200%. Interrupts over 1000 amps at 250 volts. Size, 2⁹⁄₃₂x2¹⁷⁄₃₂x2½". Shpg. wt., 14 oz. **Specify amperage rating when ordering: 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 35, 40 or 50 amps.**

56 D 3442 C. 1-9.....Each 26.10 10-25.............Each 21.75
26-99...............Each 18.85 100-249...........Each 16.68

SYLVANIA TYPE MB "MITE-T-BREAKERS"



Automatic Reset Type. Wire directly into equipment to replace fusing. For transformers, motors, appliances. Handle rated hold current at 125 volts with minimum trip currents of 200% rated current. Example: 1 ampere breaker holds at 1 amp; trips at 2 amps. Hermetically sealed glass envelope. 1.26" long, .39" dia; 1" copper leads. U.L. Listed.
Remote Reset Indicating Type. Similar to above, except 24 volt rating. Also has tungsten filament which incandesces when breaker opens. Contacts held in open position until voltage is removed. Only by manual remote reset is breaker returned to protective condition. Shpg. wt., 2 oz.

AUTOMATIC RESET

Stock No.	Type	Amps
56 D 4075	MB-315	1
56 D 4076	MB-316	2
56 D 4078	MB-317	3
56 D 4079	MB-318	4

1-99....Ea. .30 100-249. Ea. .26
250-499.Ea. .23 500-999. Ea. .20

REMOTE RESET

Stock No.	Type	Amps
56 D 4066	MB-215	1
56 D 4067	MB-216	1.5
56 D 4068	MB-217	2
56 D 4069	MB-218	2.5

1-99....Ea. .40 100-249. Ea. .36
250-499 Ea. .32 500-999. Ea. .28

ROWAN FC FUSEHOLDER AND SWITCH

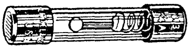
- Combination Fuseholder, Switch and Pilot Light
- Saves Panel Space, Installation Time and Cost
- For 115 Volts 60 Cycles AC

Fully sintered silver-cadmium oxide contacts on main switch give high arc resistance, exceptionally long contact life. Unit life, 50,000 cycles at 6 per minute. May be used with any quick or slow lag 3AG fuse, within current ratings. Use with Faston terminals. **FCA-:** Two separate circuits for main and pilot light. Main rated 6 amps at 115 volts. **FCB-:** Similar to FCA except one side of the pilot light is common with main circuit. Mounts through any ½" dia. hole with two nuts—hex inside, knurled outside. Suffix indicates variations: F—Plain Ferrule; K—Knurled Ferrule; N—Knurled Nut; W—Escutcheon requiring ¾" dia. hole. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	EACH 1-9	10-99	100-499	500-999	1000-4999
56 D 3550	FCA-F	2.80	2.40	1.95	1.65	1.50
56 D 3551	FCA-K	2.80	2.40	1.95	1.65	1.50
56 D 3552	FCA-N	2.80	2.40	1.95	1.65	1.50
56 D 3553	FCA-W	2.80	2.40	1.95	1.65	1.50
56 D 3554	FCB-F	2.80	2.40	1.95	1.65	1.50
56 D 3555	FCB-K	2.80	2.40	1.95	1.65	1.50
56 D 3556	FCB-N	2.80	2.40	1.95	1.65	1.50
56 D 3557	FCB-W	2.80	2.40	1.95	1.65	1.50

Fuses and Accessories

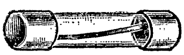
TYPE 3AG SLO-BLO FUSES



Series 313000. Have high time-lag to withstand heavy surges, yet blow quickly on short-circuits. Excellent where high inductive or capacitative surges or heavy starting currents are present. Blowing specifications: 110% of rating, 4 hrs. minimum; 135%, 1 hour maximum; 200%, 5 seconds minimum. Employ anti-fatigue construction—compound element, with spring and resistor. Fuses rated up to 5 amps are U.L. Listed. All are rated at 125 volts maximum except *32 volts maximum. Size, 1¼x¼". Shpg. wt., 2 oz. **5 fuses per package.**

Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199
1/100	57 D 3073	1.44	1.20	.96	1-2/10	57 D 3643	.99	.83	.66
1/32	57 D 3074	1.44	1.20	.96	1-1/4	57 D 3090	.99	.88	.66
1/16	57 D 3075	1.05	.88	.70	1-1/2	57 D 3091	.99	.83	.66
1/10	57 D 3076	1.05	.88	.70	1-6/10	57 D 3092	.99	.83	.66
1/8	57 D 3077	1.05	.88	.70	2	57 D 3093	.99	.83	.66
15/100	57 D 3078	1.05	.88	.70	2-1/2	57 D 3094	.75	.63	.50
.175	57 D 3079	1.05	.88	.70	2-8/10	57 D 3099	.75	.63	.50
3/16	57 D 3080	1.05	.88	.70	3	57 D 3095	.75	.63	.50
2/10	57 D 3081	1.05	.88	.70	3-2/10	57 D 3096	.75	.63	.50
1/4	57 D 3082	1.05	.88	.70	4	57 D 3097	.75	.63	.50
3/10	57 D 3083	1.05	.88	.70	5	57 D 3098	.75	.63	.50
3/8	57 D 3084	1.05	.88	.70	6-1/4*	57 D 3100	.75	.63	.50
4/10	57 D 3641	1.05	.88	.70	7*	57 D 3644	.75	.63	.50
1/2	57 D 3085	1.05	.88	.70	8*	57 D 3101	.75	.63	.50
6/10	57 D 3086	1.05	.88	.70	10*	57 D 3102	.75	.63	.50
7/10	57 D 3642	1.05	.88	.70	15*	57 D 3103	.75	.63	.50
3/4	57 D 3087	1.05	.88	.70	20*	57 D 3104	.75	.63	.50
8/10	57 D 3088	1.05	.88	.77	25*	57 D 3105	.75	.63	.50
1	57 D 3089	1.05	.88	.70	30*	57 D 3106	.75	.63	.50

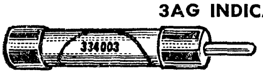
TYPE 3AG STANDARD FUSES



Quick-acting types for short time-lag applications. Ideal for radios, amplifiers, transmitters, etc. Diagonal alignment of fuse element assures accurate blowing even when element is expanded by heat. Completely unaffected by high operating temperatures. Blowing specifications: 110% of rating, 4 hours min.; 135%, 1-hour max.; 200%, 10 sec. max. U.L. Listed. All are rated 250 volts maximum except *125 volts and †32 volts. Size, 1¼x¼". Shpg. wt., 2 oz. **5 fuses per pkg.**

Amp	Stock No.	1-19	20-99	100-199	Amp	Stock No.	1-19	20-99	100-199
1/100	57 D 3600	1.92	1.60	1.28	2	57 D 3119	.30	.25	.20
1/32	57 D 3601	1.68	1.40	1.12	2-1/2	57 D 3657	.28	.24	.19
1/16	57 D 3107	.75	.63	.50	3	57 D 3120	.28	.24	.19
1/8	57 D 3108	.75	.63	.50	4	57 D 3121	.39	.33	.26
15/100	57 D 3654	.75	.63	.50	5	57 D 3122	.39	.33	.26
3/16	57 D 3110	.75	.63	.50	6	57 D 3125	.39	.33	.26
2/10	57 D 3656	.75	.63	.50	8*	57 D 3126	.60	.50	.40
1/4	57 D 3111	.51	.43	.34	4†	57 D 3703	.28	.25	.20
3/10	57 D 3112	.51	.43	.34	5†	57 D 3704	.20	.17	.13
3/8	57 D 3113	.51	.43	.34	6†	57 D 3709	.20	.17	.13
1/2	57 D 3114	.51	.43	.34	7-1/2†	57 D 3710	.20	.17	.13
6/10	57 D 3115	.51	.43	.34	10†	57 D 3705	.20	.17	.13
3/4	57 D 3116	.51	.43	.34	15†	57 D 3706	.20	.17	.13
1	57 D 3117	.30	.25	.20	25†	57 D 3707	.23	.19	.15
1-1/2	57 D 3118	.30	.25	.20	30†	57 D 3708	.23	.19	.15

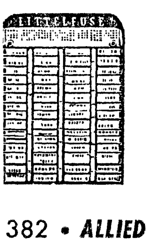
3AG INDICATING FUSES



Series 334000. Medium-acting fuses employ a silver plated pin which extends from end when fuse is blown. Pin acts as a visual indication or may be used to actuate an alarm or light. All types carry 110% of rating 4 hours minimum; 135%. 1-hour maximum. Shpg. wt., 2 oz. **5 fuses per pkg.**

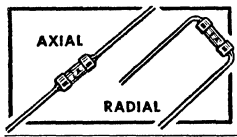
Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199
3/4	57 D 3200	2.16	1.80	1.44	6	57 D 3207	2.34	1.95	1.56
1	57 D 3201	1.68	1.40	1.12	8	57 D 3208	2.34	1.95	1.56
1-1/2	57 D 3202	1.68	1.40	1.12	10	57 D 3209	2.34	1.95	1.56
2	57 D 3203	1.68	1.40	1.12	12	57 D 3210	2.34	1.95	1.56
3	57 D 3204	1.68	1.40	1.12	15	57 D 3211	2.34	1.95	1.56
4	57 D 3205	1.68	1.40	1.12	20	57 D 3213	2.34	1.95	1.56
5	57 D 3206	1.68	1.40	1.12	....	....	....	....	....

FUSEMASTER RACK ASSORTMENT



Plastic rack displays 300 fuses. Includes 100 fuses, inventory control backboard, pressure-sensitive blank inventory labels, mounting screws. Includes: TYPE 3AG—ten ¼-amp; ten ½-amp, five 1-amp, five 2-amp, five 5-amp. TYPE 3AG SLO-BLO—ten ¼-amp, five ½-amp, five 1-amp, five 2-amp, five 3-amp, ten 5-amp. TYPE C—ten 3/10-amp. TYPE N—five 3/10-amp, five 4/10-amp, five ½-amp.
57 D 3071. Shpg. wt., 2 lbs............. **13.67**

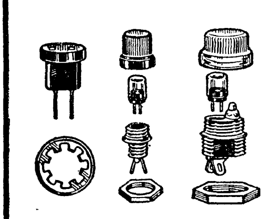
PICOFUSE MICROMINIATURE FUSES



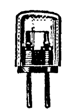
For micro-circuits of 125 volts or less where short circuit may be 300 amps at 125 VDC requiring fast action. Can be encapsulated. Blow specifications: 100%. 4 hours min.; 200%. 5 seconds max. 7⁄32x5⁄64". Wt., 1/5 gm. Shpg. wt., 2 oz. **5 per pkg.**

SERIES 275000 AXIAL LEADS					SERIAL 276000 RADIAL LEADS				
Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199
1/8	57 D 3250	2.13	1.78	1.42	1/8	57 D 3260	2.13	1.78	1.42
1/4	57 D 3251	2.13	1.78	1.42	1/4	57 D 3261	2.13	1.78	1.42
3/8	57 D 3252	2.13	1.78	1.42	3/8	57 D 3262	2.13	1.78	1.42
1/2	57 D 3253	2.13	1.78	1.42	1/2	57 D 3263	2.13	1.78	1.42
3/4	57 D 3254	1.86	1.55	1.24	3/4	57 D 3264	1.86	1.55	1.24
1	57 D 3255	1.86	1.55	1.24	1	57 D 3265	1.86	1.55	1.24
2	57 D 3256	1.86	1.55	1.24	2	57 D 3266	1.86	1.55	1.24
3	57 D 3257	1.86	1.55	1.24	3	57 D 3267	1.86	1.55	1.24
4	57 D 3258	1.86	1.55	1.24	4	57 D 3268	1.86	1.55	1.24
5	57 D 3259	1.86	1.55	1.24	5	57 D 3269	1.86	1.55	1.24

MICROFUSE HOLDERS



MICROFUSES



Type 273000. Subminiature plug-in fuses with low resistance and ultra-fast blowing characteristics. For space-critical uses and printed circuits. Bead type—glass cap for visible indication. Short-circuit interrupting capacity, 125 volts—10,000 amps DC. Blowing specs: 100%, 4 hrs. min.; 200%, 5 sec. max. Holders listed below. ¼x 11⁄32". Shpg. wt., 2 oz. **5 per pkg.**

Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199
1/500	57 D 3033	5.13	4.28	3.42	4/10	57 D 3059	4.29	3.57	2.86
1/200	57 D 3034	5.13	4.28	3.42	5/10	57 D 3060	4.29	3.57	2.86
1/100	57 D 3035	5.13	4.28	3.42	6/10	57 D 3061	4.29	3.57	2.86
1/64	57 D 3036	5.13	4.28	3.42	7/10	57 D 3062	4.29	3.57	2.86
1/32	57 D 3037	5.13	4.28	3.42	8/10	57 D 3063	4.29	3.57	2.86
1/20	57 D 3038	4.29	3.57	2.86	1	57 D 3064	4.29	3.57	2.86
1/16	57 D 3039	4.29	3.57	2.86	1½	57 D 3065	4.29	3.57	2.86
1/10	57 D 3040	4.29	3.57	2.86	2	57 D 3066	4.29	3.57	2.86
1/8	57 D 3041	4.29	3.57	2.86	3	57 D 3067	4.29	3.57	2.86
2/10	57 D 3056	4.29	3.57	2.86	4	57 D 3068	4.29	3.57	2.86
1/4	57 D 3057	4.29	3.57	2.86	5	57 D 3069	4.29	3.57	2.86
3/10	57 D 3058	4.29	3.57	2.86	....	....	....	....	....

No. 281001 Holder. Mounts in .190" hole; solder terminals; ⅜" behind panel. With spring nut. Shpg. wt., 2 oz. **5 holders per pkg.**
57 D 3070. 1-19 Pkgs.............................Per Pkg. **1.29**
20-99 Pkgs.......Per Pkg. **1.08** 100-199 Pkgs........Per Pkg. **.86**

No. 281002 Front Panel-Mount Holder. Hex nut at rear of panel. Molded from high strength dielectric material. Knurled cap; skirt for positive O ring seal. Eye-type plated brass terminals separated by molded insulation. Shpg. wt., 2 oz.
57 D 3633. 1-99..Ea. **.58** 100-499..Ea. **.49** 500-599.....Ea. **.39**

No. 284003 Indicating Fuse Holder. Similar to above, but bulb glows when fuse blows. 125 volts. Shpg. wt., 2 oz.
57 D 3637. 1-99..Ea. **1.55** 100-499..Ea. **1.29** 500-999..Ea. **1.03**

TYPE 3AB MEDIUM LAG FUSES

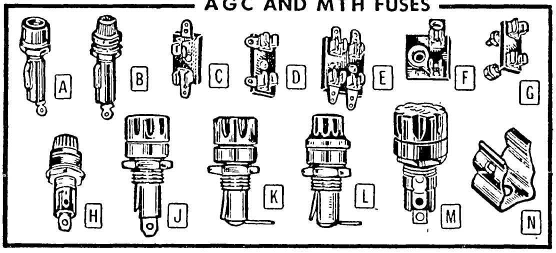
Series 314000. Steatite enclosed, arc-quenching, powder-filled fuses. Smallest U.L. Listed units in these high ratings. Medium time-lag. Shatter-proofed against quick shorts. For amplifiers, rectifiers, battery chargers, radios, etc. Maximum volts 250, except *125. 1¼x¼". Wt., 2 oz. **5 per pkg.**

Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PER PKG. OF 5 1-19	20-99	100-199
1/8	57 D 3711	.69	.58	.46	5	57 D 3719	.63	.53	.42
1/4	57 D 3712	.69	.58	.46	6	57 D 3720	.63	.53	.42
3/8	57 D 3713	.69	.58	.46	8	57 D 3721	.63	.53	.42
1/2	57 D 3714	.69	.58	.46	10	57 D 3722	.63	.53	.42
3/4	57 D 3715	.69	.58	.46	12	57 D 3723	.66	.55	.44
1	57 D 3716	.66	.55	.44	15	57 D 3724	.66	.55	.44
2	57 D 3717	.66	.55	.44	20*	57 D 3725	.66	.55	.44
3	57 D 3718	.66	.55	.44	25*	57 D 3726	.81	.68	.54

Littelfuse and Buss Fuses and Holders

LITTELFUSE FUSE HOLDERS

AGC AND MTH FUSES



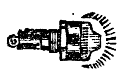
INDUSTRIAL—FOR 3AG AND 3AB (Av. shpg. wt., 2 oz.)

Stock No.	Mfr's Type	Fig.	Description	EACH 1-99	100-499	500-999
57 D 3000	341001	A	Screw slot	.50	.42	.34
57 D 3001	342001	B	Thumb knob	.50	.42	.34
57 D 3002	342012	H	Extractor post	.37	.31	.25
57 D 3003	342014	J	Miniature fuse post	.37	.31	.25
57 D 3004	342004	K	Miniature fuse post	.42	.35	.28
57 D 3005	342022	L	Miniature fuse post	.42	.35	.28
57 D 3006	350218	D	Single fuse mounting	.16	.14	.11
57 D 3007	353001	G	Panel-type mounting	.48	.40	.32
57 D 3008	356001	C	Screw terminals	.34	.29	.23
57 D 3009	357001	C	Lug terminals	.16	.14	.11
57 D 3010	357002	E	Double fuse mounting	.33	.27	.22
57 D 3238	101001	N	Phosphor bronze clips	.02	.019	.015
FOR 8AG						
57 D 3013	372001	B	Thumb knob	.50	.42	.34
57 D 3014	383002	F	"Meter-back" mounting	.32	.27	.22
57 D 3015	387001	C	Lug terminals	.16	.14	.11
57 D 3016	387002	E	Double fuse mounting	.32	.27	.22

MILITARY—MIL-F-19207A (*RF Shield)

Stock No.	Mfr's Type	Mil. No.	Fig.	Post Description	EACH 1-99	100-499	500-999
57 D 3677	342025	FHN20G	K	3AG miniature	1.28	1.07	.86
57 D 3676	342024	FHN26G	H	3AG miniature	1.24	1.04	.83
57 D 3052	340255	FHN26G*	H	3AG miniature	4.20	3.50	2.80
57 D 3678	342021	FHN26W	M	3AG waterproof	4.10	3.42	2.74
57 D 3680	372003	FHN31G	B	8AG extractor	2.50	2.09	1.67

TYPE 3AG INDICATING FUSE POSTS

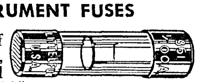


Light when fuses blow. 5/8" bshg. 1 9/16" behind panel. With lamps. *Fused circuit voltage—20 amps max.

INDUSTRIAL (Av. shpg. wt., 2 oz.)

Stock No.	Type or MS No.	*Volt Range	Knob Color	EACH 1-99	100-499	500-999
57 D 3019	344006	2½-7	Amber	2.50	2.08	1.66
57 D 3020	344012	7-16	Amber	2.50	2.08	1.66
57 D 3021	344024	16-32	Amber	2.50	2.08	1 66
57 D 3022	344125	100-125	Clear	1.52	1.27	1.02
57 D 3023	344250	200-250	Clear	1.52	1.27	1.02
MILITARY—MIL-F-19207A						
57 D 3647	FHL-17G	90-300	Clear	1.99	1.66	1.32
57 D 3648	FHL-18G-1	12-22	Amber	3.07	2.56	2.05
57 D 3649	FHL-18G-2	23-33	Amber	3.00	2.50	2.00
57 D 3650	FHL-18G-3	34-45	Amber	3.00	2.50	2.00
57 D 3651	FHL-18G-4	46-60	Amber	3.00	2.50	2.00
57 D 3652	FHL-18G-5	61-80	Amber	3.00	2.50	2.00
57 D 3653	FHL-18G-6	81-90	Amber	3.00	2.50	2.00

TYPE 8AG FAST-ACTION INSTRUMENT FUSES

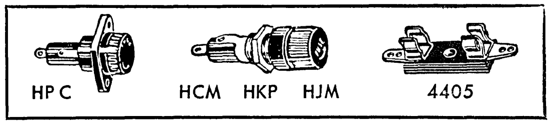


Series 361000. High-speed protection of delicate equipment—ammeters, wattmeters, radio "B" circuits, small rectifier and power tubes. 250 v. max., except *125 v. 1x¼". Wt., 2 oz. 5 per pkg.

Amps	Stock No.	PKG. OF 5 1-19	20-99	100-199	Amps	Stock No.	PKG. OF 5 1-19	20-99	100-199
1/500	57 D 3214	5.16	4.30	3.44	3/8	57 D 3221	.51	.43	.34
1/200	57 D 3215	2.16	1.80	1.44	1/2	57 D 3222	.51	.43	.34
1/100	57 D 3216	1.92	1.60	1.28	1	57 D 3224	.33	.28	.22
1/32	57 D 3217	1.68	1.40	1.12	1½	57 D 3225	.33	.28	.22
1/16	57 D 3218	1.05	.88	.70	2	57 D 3235	.33	.28	.22
1/10	57 D 3658	.75	.63	.50	3	57 D 3236	.33	.28	.22
1/8	57 D 3219	.75	.63	.50	5*	57 D 3237	.33	.28	.22
1/4	57 D 3220	.51	.43	.34	....	....	....	....	....

BUSS FUSES AND HOLDERS

FUSE MOUNTINGS AND HOLDERS



Provide convenient mounting of fuses in radio and TV sets, plus all types of electronic equipment. Fuses project beyond holder body for simple removal. Solder terminals. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	For Fuses	EACH 1-99	100-499	500-999
57 D 3500	HPC	1 13/32x1½"	.56	.47	.38
57 D 3477	HCM	9/32x1¼"	.52	.44	.35
57 D 3475	HKP	¼x1¼"	.37	.31	.25
57 D 3478	HJM	1x¼"	.37	.31	.25
57 D 3480	4405	1¼x¼"	.16	.14	.11

HKL AND HKR INDICATOR FUSEHOLDERS

For 1¼x¼" fuses. HKL has neon indicator which lights when fuse has blown, and is for use in 100 to 250-volt circuits. HKR is for 32-volt circuits, has incandescent indicator. U.L. Listed. Wt., 2 oz.

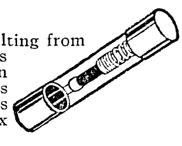
57 D 3501. HKL. 1-99 Ea. 1.52 100-499 Ea. 1.27 500-999 Ea. 1.02
57 D 3502. HKR. 1-99 Ea. 2.50 100-499 Ea. 2.08 500-999 Ea. 1.66

HKW PILOT LIGHT FUSEHOLDER

Combines pilot light and fuse mounting in one unit. When fuse is unblown, neon bulb in knob remains lighted; when blown, lamp goes out. Rated 20 amps at 90-300 volts. For panels up to ⅛" thick. With bulb. Overall length, 2 13/16"; dia., 13/16". 2 oz.

57 D 3573. 1-99. . Ea. 3.04 100-499. . Ea. 2.54 500-999. . . Ea. 2.02

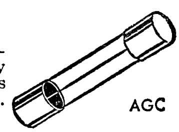
MDL FUSETRON FUSES



Long time-lag prevents needless blows resulting from starting currents or sudden surges. Operates instantaneously on high overloads or when circuit is shorted. Thermal cutout operates slowly on low overloads. All are 250 volts maximum except *125 volts max. Size, 1¼x ¼". U.L. Listed. 2 oz. 5 fuses per package.

Amp	Stock No.	PKG. OF 5 1-19	20-99	100-199	Amp	Stock No.	PKG. OF 5 1-19	20-99	100-199
2/10	57 D 3451	1.05	.88	.70	8/10	57 D 3456	1.05	.88	.70
1/4	57 D 3407	1.05	.88	.70	1	57 D 3461	1.05	.88	.70
1/2	57 D 3454	1.05	.88	.70	2*	57 D 3464	.99	.83	.66

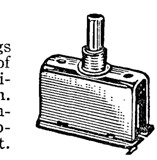
AGC AND MTH FUSES



Low-resistance fuses providing high-speed action to protect delicate instruments. Carry 110% of rated current; open in 1 hour or less at 135%. 250 volts max. U.L. Listed. 1¼x¼". *Type MTH. Wt., 2 oz. 5 fuses per pkg.

¼	57 D 3422	.51	.43	.34	2	57 D 3428	.30	.25	.20
½	57 D 3424	.51	.43	.34	3	57 D 3429	.28	.24	.19
1	57 D 3426	.30	.25	.20	4*	57 D 3430	.39	.33	.28
1½	57 D 3427	.30	.25	.20	5*	57 D 3431	.39	.33	.28

MALLORY CIRCUIT BREAKERS



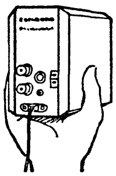
Stack-type circuit breakers available in ratings from 0.5 to 7.0 amperes to cover a wide variety of applications. Precision engineered to insure reliable operation and positive overload protection. Have "anti-cheat" reset action; non-cycling, constant pressure. Temperature compensated. Tripping time is within 10 seconds. Bushing mount. *Heavy-duty contacts. Shpg. wt., 3 oz.

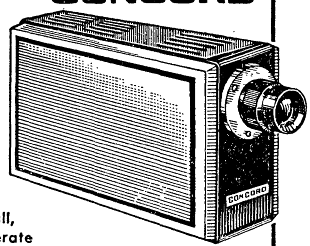
Stock No.	Type CBB-	Amps	Stock No.	Type CBB-	Amps	EACH 1-24	25-49	50-99	100-249
56 D 3978	050	0.5	56 D 3982	200	2.0	.95	.84	.73	.59
56 D 3979	075	0.75	56 D 3983	225	2.25	.95	.84	.73	.59
56 D 3980	100	1.0	56 D 4015	250	2.5	.95	.84	.73	.59
56 D 4013	150	1.5	56 D 3984	275	2.75	.95	.84	.73	.59
56 D 3981	175	1.75	56 D 4016	300	3.0	.95	.84	.73	.59
56 D 3985	325*	3.25	56 D 4017	450*	4.5	1.02	.91	.79	.64
56 D 4014	350*	3.5	56 D 4018	500*	5.0	1.02	.91	.79	.64
56 D 3986	375*	3.75	56 D 4019	600*	6.0	1.02	.91	.79	.64
56 D 3987	400*	4.0	56 D 4020	700*	7.0	1.02	.91	.79	.64

Closed-Circuit TV Systems, Equipment

NEW!

CONCORD





Very Small,
Simple-to-Install,
Simple-to-Operate

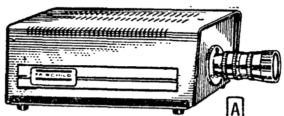
MTC-12 CLOSED-CIRCUIT TV CAMERA

- A High-Quality Camera Under $300
- Rugged, Reliable Solid-State Design
- Video and RF Outputs • With Lens

Connects to antenna terminals of standard TV receiver or input of video monitor. High-level output permits long distances between camera and receiver. Intercom jack permits 2-way audio communication.

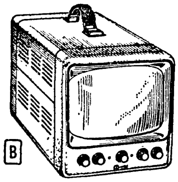
RF and video outputs. Electronic light-compensation circuitry automatically adjusts for light conditions. Once focused, no further adjustment needed. Solid-state circuit. Fast f/1.8 lens; other lenses available, right. Sensitive, long-life vidicon tube gives excellent definition. Size, 3x5¼x9⅜".

With 10' AC cord, 18' coax cable; junction box with 75-300-ohm matching transformer. For 110-130 v., 60 cycle AC. From Japan.
51 D 5802 U. Wt., 9 lbs..........299.50

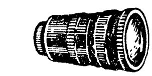


A

FAIRCHILD



B



C

Lens Assembly

A TC-175 DELUXE SOLID-STATE VIDICON TV CAMERA

Two output signals: composite video with sync, and a modulated RF carrier with video and sync. Regulated power supply and focus-coil current regulator maintain sharp focus. Output: Video, 1.5 v. p-p; RF, 100 mv (with optional crystals). Automatic Light Compensation: 2000:1. Scanning Rates (Random Interlace): Horizontal, 15,750 cps, crystal-controlled; vertical, 60 fields (locked to 60 cps power line). Light Required: 10 fc, usable to 0.2 fc. Horizontal Resolution: Video 700 lines at center. Weighs 10 lbs. Takes 16 mm Type C lens or zoom lens. 4$\frac{9}{16}$x6$\frac{1}{16}$x12⅞". 24 transistors. Less vidicon (use 7735A), lens, cable, RF crystals. For 110-130 v., 60 cycle AC. Shpg. wt., 11 lbs.
51 D 5130 U..........899.00

B MIRATEL TV MONITORS

Model LE8 8" PROFESSIONAL MONITOR. 10-mc bandwidth for movie-like pictures. Regulated power supplies. Fits std 19" rack. Metal cabinet, 9⅝x8¾x17$\frac{13}{16}$". Shpg. wt., 39 lbs.
51 D 5850 U..........335.00
51 D 5851 F. LE14 14" Monitor. 12¼x13½x16½". 33 lbs..........355.00

CANON ZOOM LENS

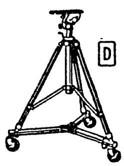
TV-16 Zoom Lens. 4-to-1 ratio, zooms from 25-100 mm. Constant 1.8 focus. 13 elements. Magenta-amber correction. Focuses as close as 6½ feet. Free from deviation at any given point of the zooming range. Includes leather case. Shpg. wt., 2¼ lbs. From Japan.
51 D 5477 F..........400.00

C CANON C-16 STANDARD LENSES

Recommended for use in high-quality telecasting. Standard 16 mm C mount. Depth-of-field markers. ‡Magnification. *Color Correction: M, magenta; A, amber; P, purple. C—components; E—elements. †Focusing range, infinity to . . . From Japan.

Stock No.	‡	Lens	C E	*	†	EACH
51D5473	0.5	13mm 1.5	6 9	MA	1'	125.00
51D5474	1	25mm 1.4	4 6	A	1'	55.00
51D5475	2	50mm 1.4	4 6	MA	2'	115.00
51D5875	2	50mm 1.8	4 5	MP	3'	70.00
51D5476	4	100mm 2.0	4 4	P	3.5'	130.00

CLOSED-CIRCUIT TV ACCESSORIES



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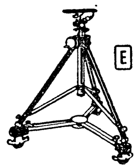
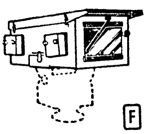
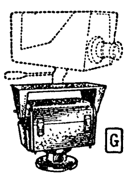


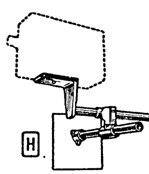
E



F



G



H

QUICK-SET CAMERA MOUNTS

D SAMSON. For up to 25-lb. cameras. Model 7301 Tripod with 18"-rise elevator; 7601 Dolly with brakes on casters; 7241 Friction Head with 15° side tilt, right and left, plus 360° pan and up-tilt of 45° and down-tilt of 90°. Shpg. wt., 25 lbs.
51 D 5891 F..........153.00

E HERCULES. For up to 65-lb. cameras. Model 5302 Tripod with 18"-rise elevator; 5602 Dolly with casters that can be set for free swivelling, straight-line tracking or locked; 5241 Friction Head (similar to 7241 Head above, but 20° side tilt). 45 lbs.
51 D 5892 F..........440.00

PELCO REMOTE PAN AND TILT

F PT-550M MEDIUM-DUTY REMOTE PAN AND TILT. Weatherproof. Turns 350° horiz., tilts 180°. Requires PT-1500C. 11⅜ x 5⅞ x 9$\frac{13}{16}$". 25 lbs.
51 D 5469 F..........580.00

PELCO REMOTE CONTROL BOX

PT-1500C REMOTE CONTROL BOX. Lets you orient camera on Pan/Tilt in up, down, left, or right positions by use of single "joy stick." Operates automatically horizontally with optional relay. 13¼ x 9¼ x 5½". For 115 v., 60 cycle AC. 13 lbs. Panel-type and variable-speed boxes on Special Order.
51 D 5470 F..........110.50

PELCO REMOTE PAN & TILT

PT-14 LIGHT-DUTY AUTO-PAN. Provides auto-scanning on pan for a 90° section. Vertical plane mechanical tilt 180°. 9$\frac{13}{16}$" x 6" dia. base. For 110 v. 60 cycle AC. 5 lbs.
51 D 5859 F..........140.00

G PELCO ENVIRONMENTAL HOUSING

EH-1. Weatherproof camera enclosure with window, camera mounting track, cable entry. 10½x12½x22". 20 lbs.
51 D 5853 F..........196.00

EH-2. As above, but 10½x12½x28".
51 D 5854 F..........210.00

KAPCO TVA2-3 TV AMPLIFIER

Transistorized video amplifier. Overcomes line loses, provides equalization. Unity or 6 db gain, flat or rising response curve. 3 outputs. Output, 1.4 v. p-p. 5 x 5⅝ x 1⅞".
51 D 5890 F Shpg. wt., 1¾ lbs...130.00

H PELCO AM-1P CAMERA MOUNT

Universal mount—ceiling, wall, vertical.
51 D 5471 U. Wt., 7 lbs..........39.75

HERE ARE SOME "ALLIED RECOMMENDED" CCTV SYSTEMS

SYSTEM FOR OVERFLOW CROWDS AT CHURCHES, ETC.

As Low As $1724.36

Camera: Fairchild TC175..........See above
Vidicon Tube: RCA 7735B..........See pg. 110
Monitor: Miratel LV24 27"..........Special Order
Lens: Canon 50 mm f/1.4..........See above
Universal Mount: Pelco AM-1P..........See above
RG59/U Coax Cable..........See pg. 361
PL-259 Connectors, 83-65 Adapters..........See pg. 256

SYSTEM FOR STORE OR SMALL-AREA MONITORING

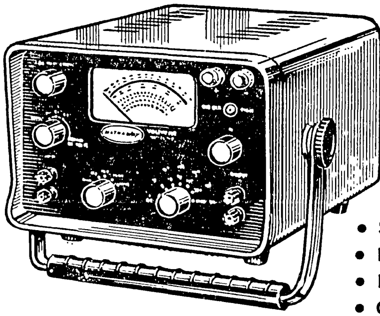
As Low As $1839.69

Camera: Fairchild TC175..........See above
Vidicon Tube: RCA 7735B. Lens: Canon 25 mm f/1.4. See pg. 110
Universal Mount: Pelco AM-1P..........See above
Monitor: Miratel LE14..........See above
RG59/U Coax..........See pg. 361
83-65 Adapters. PL-259 Connectors..........See pg. 256
Intercom: Talk-A-Phone T-AC-605 Master, Spkrs..See pg. 490

NATIONWIDE TV SYSTEMS-PLANNING, INSTALLATION, AND SERVICE

Allied Electronics, through an exclusive contract with Fairchild, provides complete closed-circuit TV systems. Installation, service, and systems planning are supervised by local Fairchild engineering distributors throughout North America. For an "on location" survey and estimate, contact your nearest Allied Electronics facility. No obligation. See directory on back cover.

Test and Control Instruments



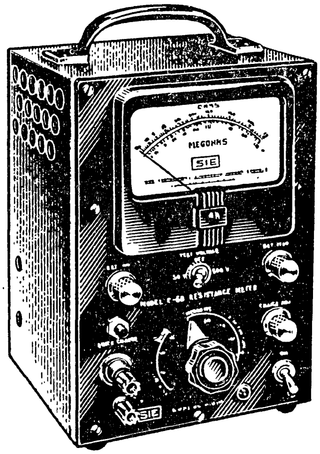
- 14 Voltage Ranges on AC and DC
- DC Segment Expansion Feature
- Self-Zeroing
- DC Calibrator
- DC Polarity Lights
- Oscilloscope Output

MODEL R-2 VOLTMETER

Incorporates unique "DC Distend" feature which expands any upper 10% or 1% of a DC-volts range to cover full meter scale. Permits more exact examination of voltages—especially useful in measuring power supply regulation, potentiometer resolution and amplifier linearity. DC upscale readings with polarity indicators offer twice the scale length of center-zero meters. Residual noise, less than 2 μv on 1-mv AC scale. DC mv drift, less than 50 μv.

Accuracy: 2% of full scale, ±0.1 mv, DC-100 kc; 5%, 100 kc-1 mc. AC and DC voltage ranges: 1 mv to 1000 v. full scale, 14 ranges in 10 db steps. Resistance range: 10 ohms to 10 megs mid-scale, in decade ranges. Db scale: −20 to +2 db. Frequency response: 10 cps to 1 mc. Input impedance: mv scales, 10 megs shunted by 25 mmf (9 megs on AC); voltage scales, 10 megs shunted by 20 mmf. Internal DC calibration. 11⅜x13⅝x18½". With handle /stand. For operation from 105-125/210-250 volts, 50-60 cycle AC. Shpg. wt., 27½ lbs.

51 D 5192 U.................................... 595.00



Unique Circuitry 1.5, 50 and 500 VDC Test Voltages

0 to 10,000,000 Megohms in 11 Ranges

Handles All Dielectric Problems with Exacting Accuracy

Quick-Charge for Capacitor Check

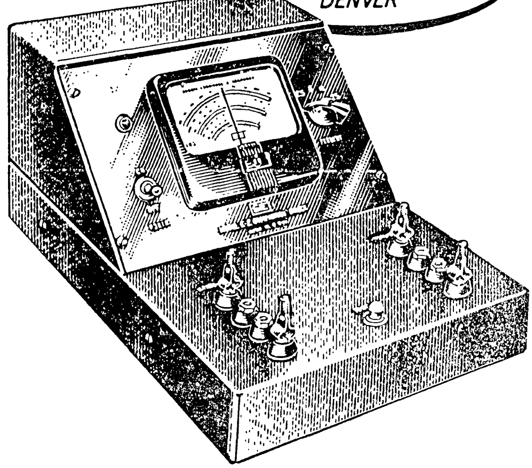
MODEL C-6B RESISTANCE METER

Highly versatile, easy-to-use instrument combining the functions of a resistance meter, continuity checker and insulation leakage tester. Unique circuitry with 3 separate test voltages allows resistance measurements from 0 to 10,000,000 megohms in 11 ranges. Ranges: 0-500,000 ohms in 4 steps at 1½ volts, DC applied potential; 100,000 ohms to 1,000,000 megs in 6 steps at 50 volts; 1 to 10,000,000 megs in 6 steps at 500 volts. A 1½-volt dry cell is used for readings up to 500,000 ohms—unit operates as a portable shunt-type ohmmeter in these ranges.

For megohm readings, a high-impedance VTVM using cascaded cathode followers measures the drop across range resistors up to 10 million megohms. Guard ring eliminates undesired leakage paths, making unit highly stable. Accuracy (of full-scale deflection)—ohms, 3%; megs, 3% up to 10^3 range, and 5% on 10^4 range. Easy to operate—has meter face with just two scales, infinity/zero adjustment common to all functions, and "quick charge" for capacitor checking. Also: regulated supply; deposited carbon resistors; 2% movement. Compact size 10x14¼x9½". For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 11¾ lbs.

51 D 5189 X.................................... 260.00

HATHAWAY DENVER



MODEL E-2 COMPARISON BRIDGE HAS ACCURACY OF UP TO 0.1%

- Can Be Operated and Calibrated Easily by Anyone
- Fast-Checks More than 1000 Components per Hour
- Ranges: 1%, 2.5%, 5%, 10% and 25% Full Scale

The Model E-2 is an excellent comparison bridge, engineered by Hathaway for speedy and accurate value-measuring, matching and rejection of resistors, capacitors and inductors. This comparison bridge has been designed for extremely effective operation in laboratories and on factory production assembly lines. The Model E-2 especially convenient for industrial use, because ease of operation permits even inexperienced, unskilled operators to obtain a 0.1% accuracy (on the 1% range)—and to actually detect component differences as small as one part in ten thousand.

The E-2's exceptionally wide range of values makes it practical and effective for use with almost every electronic circuit application required in the laboratory or factory. Test limits are: for resistance—1 ohm to 5 megohms; for capacitance—500 mmf to 2000 mfd; and for inductance—3 millihenrys to 10,000 henrys. Ranges: 1%, 2.5%, 5%, 10%, and 25% full scale. Accuracy: on the 1% range— 0.1%; on the 2.5% range —25%; on the 5% range—0.5%; on the 10% range—1.0%; and on the 25% range—2.5%.

This efficient test instrument is particularly valuable for "go, no-go" on-the-spot component checking on production lines, and for precision-matching of resistors and capacitors. Instrument can also be employed with a decade box for a wide variety of laboratory applications. A lot of work gets done in short order—fast-checks more than 1000 components per hour. Can also be used with foot switch (not supplied) when freedom for two-hand operations is desirable. Ruggedly constructed for long-time use under all kinds of conditions. The E-2 is not only easy to operate, but also extremely easy to calibrate. Has smart-looking, durable gray crackle enamel case. Convenient size for laboratory, 13x10½x19". Shpg. wt., 15¾ lbs.

51 D 5190 U.................................... 225.00

SPECIFICATIONS

COMPARISON RANGE. Resistance: 1 Ohm to 5 meg-Ohms. Capacitance: 500 mmF to 2000 mF. Inductance: 3 mH to 10,000 H.

ACCURACY. 1% Range: ±0.1%. 2.5% Range: ±0.25%. 5% Range: ±0.5%. 10% Range: ±1.0%. 25% Range: ±2.5%. Five ranges of full scale meter deflection: 1%, 2.5%, 5%, 10%, and 25% (eye resolution to 1 part in 10,000).

BRIDGE INPUT. 6.3 Volts at 50 cps to 400 cps.

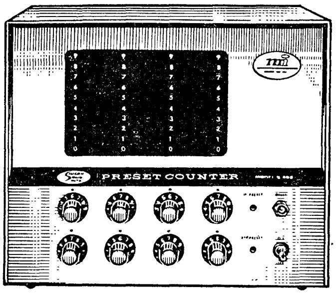
POWER RATING. 20 Watts (80 Volts to 130 Volts at 50 cps to 400 cps.)

DIMENSIONS. Height: 7 Inches. Width: 10 Inches. Depth: 14 Inches.

WEIGHT. 10 lbs., 2 oz. net.

Modular and Hathaway Instruments

MODULAR INSTRUMENTS COUNTERS



MODEL S-402 DUAL PRESET COUNTER

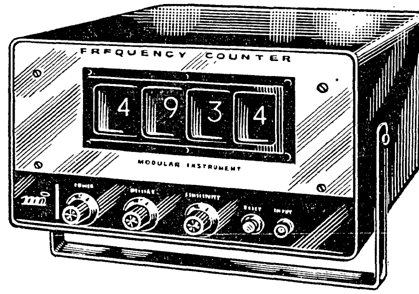
- Power Switch Breaks Both Sides of the Line
- Photocell Sensitivity Control on Rear Panel
- Complete Instructions Printed on Rear Panel
- Industrial Type Cam-Lock Connector Block
- Three-Wire Line Cord

All silicon solid state preset counter designed by Modular Instruments specifically to provide the most reliable industrial electronic counter at the most reasonable price. Operates from 30° to 130° F; operates from 100 to 125 volts AC input. Designed life 20,000 hours or 10^{12} counts. The S-402 provides performance and versatility previously unobtainable in an industrial counter at anywhere near its price. Counter always comes on at Zero—no possibility of accidentally reaching a preset number—no need to press reset button at start up. Preset relays cannot operate when power is applied or removed. A most important safety feature. It counts at speeds up to 15,000 per second. Indication completely isolated from counting. Its two presets can be used independently for either single or two point control. Because it is intended for rigorous in-plant service, particular care has been given to design and construction to provide protection against electrical noise interference. Power supply rectifiers and capacitors above chassis for coolest environment, easy test and service. And its all silicon solid-state circuitry assures reliability even in the most punishing plant environment. For 115 VAC operation. Size, 9½x11½x6½". With 6-ft. 3-wire cord. Shpg. wt., 10 lbs.

51 D 9825 T 495.00

SPECIFICATIONS

Count Indicator: 4 vertical columnar 0-9 indicators. Counting and preset operation independent of indicators. **Inputs:** Any pulse-generation transducer, including photo-cell magnetic, proximity switch, Phototac, switch closure. Built-in photocell power source for cells up to 100K ohms dark resistance. **Presets:** Two completely independent 4-digit presets. **Preset Indication:** Separate indicator lamp for each preset point.



MODEL 3500 TRANSISTORIZED 4-DECADE ELECTRONIC COUNTER

- Calibration of Tape Recorders, Resonant Reeds and Tuned Filters
- In-Line Readout
- Digitally Divided Time Base
- Compact, Portable with Solid-State Circuitry Throughout

Modular Instruments solid-state counter offers long-term accuracy and reliability previously achieved only in far more expensive tube-type units. This most popular counter combines superior performance with moderate price—similar electron tube units cost hundreds of dollars more! Has single time base of 1 second, 0.1% accuracy and 4-digit Nixie numerical display. Typical applications: measurement of speed with photoelectric or magnetic transducer, telemetry, calibration of phonos, precorders, resonant reeds and tuned filters. Counting Speed: 2 cps to 200 kc. Counting Period: 1 sec. (line frequency digitally divided.) Sensitivity: 400 mv rms across 20K. Counting System: binary. Display Period: 1-3 sec., adjustable. Reset: automatic after display. Temp. Range: 0-140°F. Digital division in time base provides increased stability. 7x12x13½" case has carrying handle and 8-ft. line cord. For 105-125 v., 60 cycle AC. Shpg. wt., 24 lbs.

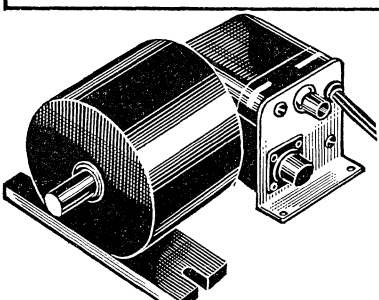
51 D 9676 U 595.00

EX-1 PRINTED CIRCUIT CARD EXTENDER. For servicing PC boards of Model 3500 counters. Shpg. wt., 5 oz.

51 D 9816 .... 16.50

SPECIFICATIONS

Counting Speed: 2 cycles per second to 100,000 cycles per second. **Sensitivity:** 400 millivolt across 20,000 ohms. **Number of Display Digits:** 4 NIXIE numerical indiactors. **Resetting:** Automatic after display period. **Display Period:** Adjustable 1 to 3 seconds. **Counting Period:** 1 second. **Operating Temperature:** 0°F. to 140°F.



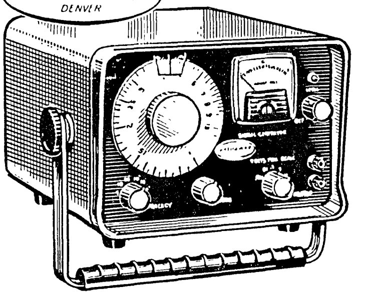
"PHOTOTAC" ROTARY TRANSDUCERS

SERIES P-100—UNIDIRECTIONAL. Speed: 10,000 rpm. Output: Sq. wave, —5.6 to —0.5 v. across 3.3K; +5.6 to +0.5 optional. Temp. Range: 0-55°C. Bulb life: 60,000 hrs. For 110-120 VAC 60 cycle. 2 lbs. **Specify** Stock No. and Counts/Revolution.

SERIES P-200—BI-DIRECTIONAL. Output on one line for counter-clockwise, another line for clockwise. 10,000 rpm; pulse 10 μsec. wide, —5.6 v. to 0 across 1.8K. Temp. Range: 0-55°C. 110-120 VAC. Shpg. wt., 2 lbs. **Specify Stock No. and Counts/Revolutions.**

Stock No.	Mfr's Type	Counts—Per Revolution Values Available—Specify	EACH
51 D 9801 C	P-100	1, 8, 12, 20, 30, 50, 60, 90, 100, 120, 125, 150, 180, 200, 250, 300, 360	260.00
51 D 9820 C	P-100D	400, 720	295.00
51 D 9821 C	P-100D	1000, 1200	295.00
51 D 9803 C	P-200	2, 16, 24, 40, 60, 100, 120, 180, 200, 240, 250, 360	295.00
51 D 9822 C	P-200	400, 500, 600, 720	375.00
51 D 9823 C	P-200	1000, 1200	375.00

HATHAWAY DENVER



MODEL N-2A AF/RF SIGNAL GENERATOR

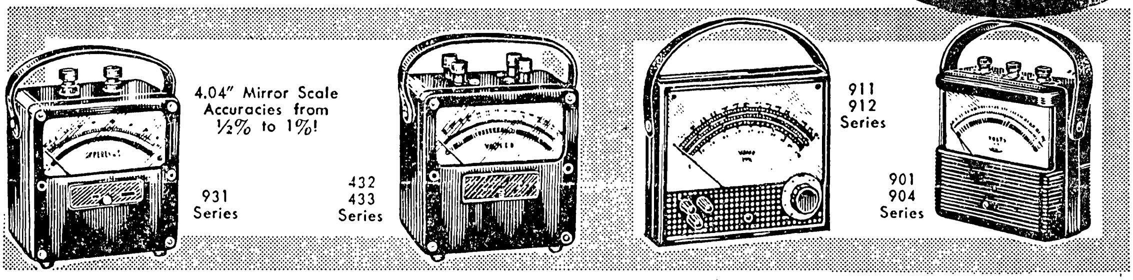
- Metered Output Level
- Distortion Less Than 0.5%
- ±5% Output Level Accuracy
- Stable Output, Transistorized

Precision AF/RF signal generator covering a wide frequency range with stability, low distortion and constant output amplitude. Output is continuously variable from 1 cps to 1 mc in 6 overlapping bands having ratios of over 10:1. Particularly useful in the design, repair and testing of audio, geophysical, medical and control equipment, including transistorized equipment. Output of 0-10 v. rms varied by attenuator with five 20 db steps and potentiometer. Metered output level. Distortion less than 0.5% from 11 cps to 1 mc. Calibration Accuracy: frequency, ±2% ±0.2 cps; level. ±5%. Wien-bridge oscillator stablized by positive and negative feedback. Power supply insensitive to line voltage fluctuations. Output impedance; less than 1000 ohms at 10 volts; 600 ohms at other attenuator positions. Blue wrinkle finish. 7¹⁄₁₆x9⁹⁄₁₆x12½". With handle/stand. For 105-125 volts, 50-60 cycle AC. May be operated on 220 VAC by changing taps on power transformer. Shpg. wt. 19¾ lbs.

51 D 5187 U 350.00

Accurate Meters for Plant or Lab

WESTON



931 SERIES

• Accuracy ±½% • 4.04″ Mirror Scale

MATCHED DC VOLTMETERS, AMMETERS, MILLIAMMETERS, MICROAMMETERS. Matched portable instruments of very high accuracy for industrial DC testing . . . within ½ of 1%. Moderately priced and designed for the requirements of most industrial test situations. For highest readability all instruments have knife-edge pointers and long, 4.04″ mirror scale to eliminate parallax reading error.

Movement is the self shielded permanent magnet moving coil type—unaffected by stray fields. Available in DC voltmeters, ammeters, milliammeters and microammeters. Less leads (takes any type). Size, 5½x5x3½″. Av. shpg. wt., 4 lbs.

DC VOLTMETERS

Stock No.	Ranges DC Volts	Ohms/Volt	EACH
51 D 5151	0-150-300-750	5000	122.00
51 D 5150	0-3-15-150	5000	122.00
51 D 5357	0-7.5-30-75	5000	122.00
51 D 5362	0-3-7.5-30	5000	122.00
51 D 5360	0-150-300-750	1000	109.00
51 D 5359	0-3-15-150	1000	109.00
51 D 5361	0-7.5-30-75	1000	109.00
51 D 5358	0-3-7.5-30	1000	109.00

DC AMMETERS

Stock No.	Ranges DC Amps	EACH
51 D 5152	0-5-20-50	110.00
51 D 5366	0-2.5-10-25	110.00
51 D 5365	0-1.5-3-15	110.00
51 D 5364	0-0.1-1-10	110.00
51 D 5363	0-0.05-0.5-5	110.00

DC MILLIAMMETERS

Stock No.	Ranges DC Milliamps	EACH
51 D 5368	0-30-300-3000	107.00
51 D 5367	0-0.03-0.3-3	119.00

DC MICROAMMETER

51 D 5369. Range: 0-200 microamps. Resistance, 600 ohms................101.00

433 SERIES

• Accuracy ±¾% • 4.04″ Mirror Scale

MATCHED AC VOLTMETERS, AMMETERS, MILLIAMMETERS. Exceptionally accurate instruments for industrial testing. Movable vane type mechanism offers precision readings at moderate cost. Knife edge pointer for accurate readings and mirror scale to eliminate parallax. Binding post terminals accept any type of leads (not supplied). Size, 5¼x5x3¼″. Av. shpg. wt., 4 lbs.

AC VOLTMETERS

Stock No.	Ranges AC Volts	Frequency Response Cps	EACH
51 D 5154	0-150-300-600	25-125	121.00
51 D 5370	0-75-150	25-125	103.00
51 D 5371	0-30-60	25-125	103.00
51 D 5372	0-10-20	25-125	103.00
51 D 5373	0-5-10	25-125	103.00
51 D 5374	0-150-300-600	25-1000	135.00
51 D 5375	0-75-150	25-1000	118.00
51 D 5376	0-30-60	25-1000	118.00
51 D 5377	0-10-20	25-1000	118.00

AC AMMETERS

Stock No.	Ranges AC Amps	Frequency Response Cps	EACH
51 D 5155 T	0-5-20-50	25-500	151.00
51 D 5378 T	0-3-7.5-30	25-500	151.00
51 D 5379 T	0-1.5-7.5-15	25-500	151.00
51 D 5380 T	0-1-5-10	25-500	151.00
51 D 5381 T	0-5-10	25-500	110.00
51 D 5382 T	0-5-20-50	25-1000	157.00
51 D 5383 T	0-1-2.5-5	25-1000	157.00

AC MILLIAMMETER

Stock No.	Ranges AC Ma.	Frequency Response Cps	EACH
51 D 5424	0-50-100	25-1000	114.00
51 D 5425	0-250-500	25-1000	114.00

432 SERIES—DC OR SINGLE-PHASE AC WATTMETERS

• Accuracy ±½% • 4.04″ Mirror Scale • *Electrodynamometer Type*

For measuring DC or AC wattage. AC coverage from 25 to 125 cycles with power factors above 50%. Each unit has two ranges selected by binding posts and each range may be doubled. Power consumption: potential circuit @ 115 v., 60 cycles—1.2 watts, 1.2 volt-amperes. Current circuit @ 5 amps, 60 cycles—0.65 watts, 0.68 volt-amperes. *High range/low range. †Kilowatts. 3¼x5x5¼″. Av. shpg. wt., 4½ lbs.

Stock No.	Volts* Normal	Volts* Max.	Amperes* Normal	Amperes* Max.	Watts High Range	Watts Low Range	Scale Div.	EACH
51 D 5384 T	150/ 75	200/ 100	1/ .5	1.5/ .075	0-75-150	0-37.5-75	75	208.00
51 D 5385 T	200/ 100	260/ 130	5/ 2.5	7.5/ 3.75	0-500-1000	0-250-500	100	208.00
51 D 5386 T	300/ 150	400/ 200	5/ 2.5	7.5/ 3.75	0-750-1500	0-375-750	75	208.00
51 D 5387 T	300/ 150	400/ 200	10/ 5	15/ 7.5	0-1.5-3.0†	0-0.75-1.5†	75	208.00

911 SERIES

• Mirrored Scale • Self Shielded

DC VOLTMETER. Converts to panel or switchboard mounting without adapters. Has: 7.2″ mirrored scale; self-shielded mechanism; metal-film resistors. 0-1-3-10-30-100 v., ±1%; 0-300-1000 v., ±2%. Sensitivity, 20,000 ohms/volt. Supplied less leads. With panel-conversion hardware. 7½x6½x2⅜″. Shpg. wt., 6 lbs.

51 D 9508......................68.50

51 D 9509. DC Ammeter. Amps, 0-1-3-10; ma, 0-10-30-100-300. ±1%. Physically same as above....................68.50

51 D 9510. DC Milliammeter. 0-0.1-0.3-1-3-10-30-100 ma. ±1%..............68.50

912 SERIES

• Mirrored Scale • ±2% Accuracy

AC VOLTMETER. Matches 911 series DC meters above. Converts to panel or switchboard mounting without adapters. 7.2″ mirror scale; shielded movement; metal film resistors. Ranges: 0-3-10-30-100-300-1000 v., ±2%; 1 KV and 3 v. @ ±3%. Sensitivity, 5000 ohms/volt. Size, 7½x6½x2⅜″. Shpg. wt., 6 lbs.

51 D 9511......................78.50

51 D 5388. AC Ammeter. Similar to above. Ranges: 0-0.5-0.1-0.2-0.5-1-2-5 AC amps. Accuracy ±2% all ranges, 60-400 cycles. Transformer-rectifier type..........78.50

901 SERIES

• Accuracy ±¼% • 5½″ Mirror Scale

DC AMMETER. For use where easy reading and high shielding are desired. Has 5½″ calibrated scale. Ranges: 0-2-5-20 amps and 50 mv movement. ¼% accuracy. PM moving-coil design. Less leads. 7½x7¼x3⅝″. Shpg. wt., 5¾ lbs.

51 D 5159 T................. 179.00

51 D 5160 T. DC Milliammeter. As above but with ranges 0-10-20-50-100-200-500-1000 ma. Max. res. 2.5 ohms.......186.00

51 D 5389 T. DC Milliammeter. As above but 0-1-2-5-10-20-50-100 ma.......186.00

51 D 5161 T. DC Voltmeter. 0-3-15-30-75-150-300-750 v. 5000 ohms/v. Same case and features as above.............197.00

904 SERIES

• Accuracy ±½% • 5½″ Mirror Scale

AC VOLTMETER Offers high shielding and sufficient accuracy for checking other meters. Movable iron-vane type. 0-3-7.5-15-30-75-150-300-750 v. Response: 50-125 cps with ½% accuracy; 125-450 cps with 1% accuracy. 5½″ scale. 7½x7¼x3⅝″. Less leads. Wt., 5¾ lbs.

51 D 5162 T.................. 267.00

51 D 5198 T. AC Ammeter. 0-2-5-10-20-50-100-200 amps. ½% accuracy. Response: 50-450 cps. Same as above.... ....240.00

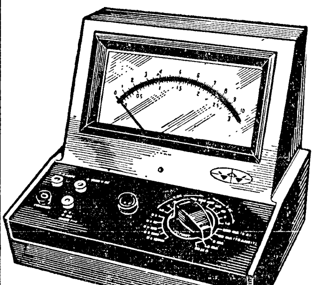
51 D 5390 T. AC Ammeter. As above but ranges 0-1-2-5 10-20-50 amps......233.00

LEATHER CARRYING CASE

TYPE 48532. Protect test equipment with this attractive leather case. For series 931, 432, 433 (except 51 D 5374).

51 D 5153. Shpg. wt., 1 lb.............18.00

Weston Precision Lab Instruments



MODEL 80 BENCH MULTIMETER. Versatile, highly accurate bench multimeter specially designed for easy use. Easy-viewing slope-front panel and fingertip controls make unit ideal for production line use as well as for lab and service applications. Large 5½" meter is diode protected to prevent burnout, and entire instrument is fuse-protected on the two lowest ohmmeter ranges.
Ranges: AC voltage, 0-2.5-10-50-250-500-1000-5000 volts @ 5K ohms/volt; DC voltage, 0-0.25-1-2.5-10-25-50-100-250-1000-5000 volts @ 20K ohms/volt; DC current 0-50 microamps, 0-1-10-100 milliamps, 0-1-10 amps; 5 resistance ranges read 2000 ohms to 20 megohms full scale, 20 to 200 K center scale. Db, −10 to +10.
Accuracy of readings is 1% on DC scales; 1½% on AC scales. Anti-parallax scale. Size, 8$\frac{1}{16}$x6⅝x7⅜". Housed in high-impact, thermoplastic case. Shpg. wt. 5 lbs.
51 D 5458....................**79.50**

SERIES 80, 81, 82 INSTRUMENTS

- **Employ Console Design Concept for Optimum Readability; Easy Access to Controls**
- **Exclusive Anti-Parallax Viewing Corrector for "On-the-Mark" Readings**

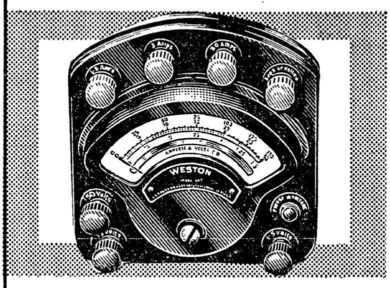
MODEL 81 DC MILLIAMMETER/AMMETER. Includes features of Model 80 at right. DC milliamps, 0-10-30-100-300; DC amps, 0-1-3-10. Include 5-way binding post to permit use with plug-type leads. Less leads. 4 lbs.
51 D 5478...................**68.50**

MODEL 81 DC MICROAMMETER/MILLIAMMETER. Same as Model 81 Ammeter above, but has ranges: 0-0.1-0.3-1-3-10-30-100 milliamps; 0-2500-1390-475-164-50-16.6-5 ohms. Accuracy ±1%; Scale: 100 and 60 divisions. Shpg. wt., 4 lbs.
51 D 5479...................**68.50**

MODEL 81 DC VOLTMETER. DC voltage ranges: 0-0.25-1-2.5-5-10-25-50-250-1000 volts. Scale: 50 divisions; Sensitivity: 20,000 ohms per volt. Accuracy ±1%, except 2.0% on the 1000 volt range. Shpg. wt., 4 lbs.
51 D 5480...................**68.50**

MODEL 82 AC MILLIAMMETER/AMMETER. Ranges: 0-50-100-200-500 milliamps; 0-1-2-5. Accuracy: 2% from 60 to 400 cps; from 25 to 1000 cps frequency error is 1.5%, usable to 5 kc. Transformer—rectifier type. 4 lbs.
51 D 5481...................**71.50**

MODEL 82 AC VOLTMETER. Ranges: 0-2.5-10-50-250-500-1000 AC volts. Ranges below 250 volts are usable to 15 kc. Sensitivity: 5000 ohms/volt. Accuracy ±1%; Scale: 50 divisions. Rectifier type. Shpg. wt., 4 lbs.
51 D 5482...................**71.50**



MODEL 281 DC INSTRUMENTS

These miniature, portable instruments are destined to be even more dependable than their predecessor, the Model 280. The core magnet self-shielded mechanism is used with a larger moving coil—provides excellent shielding plus higher torque-to-weight ratio for greater sensitivity. Magnetic shielding permits use near magnetic materials without loss of accuracy. Hand calibrated scales. Mirror and knife-edge pointers combine to banish parallax errors. Tough bakelite cases offer greater protection as a result of improved insulation—withstand high dielectric test. Rated accuracy, 1% of full scale. Scale length, 2.97".

DC VOLT-AMMETERS

Av. shpg. wt., 1¼ lbs.

Stock No.	Range		Scale Div.
	Volts	Amperes	
51 D 5750	60/30/3	15/3/0.3	60
51 D 5751	150/15/1.5	15/1.5/0.15	75
51 D 5752	150/15/3	30/3/1.5	60
51 D 5753	150/60/3	30/0.6/0.06	60

EACH...........................**73.00**

DC VOLTMETERS

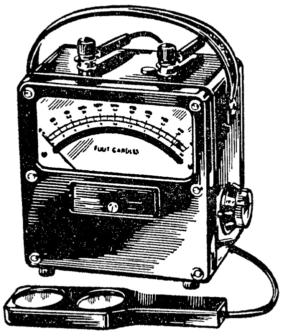
Av. shpg. wt., 1¼ lbs.

Stock No.	Range	Scale Div.	EACH
51 D 5754	30/3/1.5	60	61.00
51 D 5755	150/15/1.5	75	61.00
51 D 5756	150/30/3	60	61.00
51 D 5757	150/60/3	60	61.00

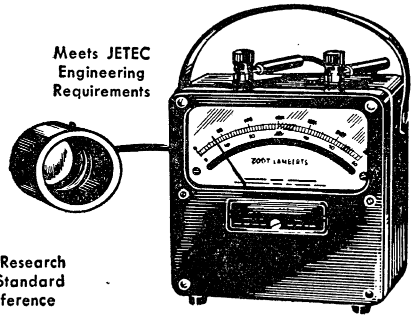
DC AMMETERS

Av. shpg. wt., 1¼ lbs.

51 D 5758	15/3/1.5	60	60.00
51 D 5759	30/3/1.5	60	60.00



Meets JETEC Engineering Requirements



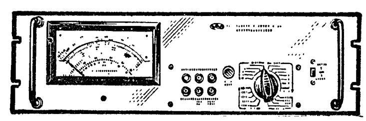
For Research or Standard Reference

MODEL 756 ILLUMINATION METER

Portable instrument for making light measurements that require a high degree of accuracy over a broad range of values. Unique "Viscor" filter corrects for color; cosine filter for angle of incidence. Long mirror form of scale assures accurate readings. Calibration is made by direct comparison to accurate reference standard lamps. Unit is standardized at color temperature of 2700°. Light target housing 2 photocells has 6-ft. extension cable; additional cable can be added to reach otherwise inaccessible places. Sizes: unit, 7⅝x8¾x4¾"; light target, 7¼" long. With leather case with compartment for light target, neck strap. 7½ lbs.
RANGES: 0-20-100-500 ft.-candles. With "Viscor" and cosine filter.
51 D 5455 T..................**455.00**
RANGES: 0-6-12-60-120-600 ft.-candles With "Viscor" filter.
51 D 5456 T..................**503.00**

MODEL 759 FOOT-LAMBERT METER

Versatile instrument for general brightness measurements. Also meets requirements of TV engineers as outlined by sub-committee on phosphor and optical characteristics of the Joint Electron Tube Engineering Council. "Viscor" filtered high output cell is used with a very sensitive microammeter unit. Tubular baffle which restricts oblique light and provides a basic range of 0 to 60 ft.-lamberts. Removable multiplier disc provides second range of 0 to 300. Standard lamps are used for the exclusive purpose of calibrating the Model 759 Foot-Lambert meter. Meters are standardized at color temperature of 6750° K. by specially calibrated filter.
With separable hooded light target and "Viscor" filter; multiplier disc; and calibration curve. Sizes: unit, 5½x6¼x3½"; light target, 3⅜" dia. Wt., 5 lbs.
51 D 5457 T..................**338.00**

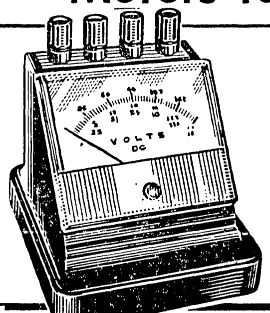


WESTON MODEL 80-R ANTIPARALLAX ANALYZER

- **Extremely High Accuracy Capabilities**
- **"On the Mark" Readability with the New Anti-Parallax Scale**
- **Refractive Plastic Overlay Meter**

Here is one of the finest Multi-Range Analyzers with "on-the-mark" readability. Fits standard 19x5¼" rack. Refractive anti-parallax scale allows appreciably faster readings. Diode-protected meter movement; fuse protected ohmmeter circuitry. Polarity reversing switch. DC volt ranges (20K/volt): 0-.25-1-2.5-10-25-50-100-250-1000. AC volt ranges (5K/volt): 0-2.5-10-50-250-500-1000. DC ranges: 50 μa; 0-1-10-100-1000 ma; 10 amps. Ohms: X1, X10, X100, X1000, X10K. Db scale, −10 to +10. Accurate within 1% on DC scales; 1½% on AC. 8x6⅝x7⅜". Shpg. wt., 5 lbs.
51 D 5736 X...................**94.50**

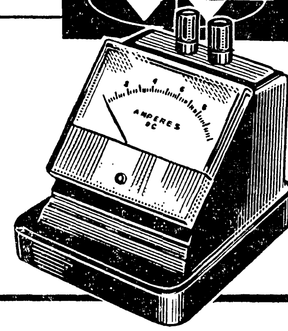
Meters for Schools and Industry



WESTON "BENCH TESTERS"

- DC Voltmeters • DC Ammeters • AC Voltmeters
- DC Millivoltmeters • DC Galvanometers

MODEL 2931, 2932 AND 2936 "BENCH TESTERS." Designed primarily for use in the laboratories of schools, colleges and industrial firms to measure electrical values. Accuracy on all meters is ±2% of full scale. Multi-range model is illustrated at left . . . single range at right. Ranges on multi-range models are selected by connecting to the appropriate binding posts, which accept pin tips, spade lugs or banana plugs. Spring-backed jewels for rugged long term stability. Damping is designed for minimum response time. Av. shpg. wt., 1½ lbs.



2931 DC VOLTMETERS SENSITIVITY 1000 OHMS/VOLT

Stock No.	Ranges—Volts DC	Scale Divisions	EACH
51 D 5393	0-15	75	22.75
51 D 5394	0-1.5-3-30	60	33.60
51 D 5395	0-3-15-30	60	33.60
51 D 5396	0-1.5-15-150	75	33.60

2931 DC AMMETERS

Stock No.	Ranges—Amps DC	Scale Divisions	EACH
51 D 5398	0-3	60	22.75
51 D 5399	0-15	75	22.75
51 D 5400	0-1.5-3-30	60	49.85

2931/2936 DC GALVANOMETERS ZERO-CENTER NULL INDICATORS

Stock No.	Range—VDC	Scale	EACH
51 D 5403	30-0-30	Standard—2μa/div.	22.75
51 D 5404	30-0-30	Linear—1μa/div.	31.25

MODEL 2932 1000 OHMS/VOLT AC VOLTMETERS (RECTIFIER TYPE)

Stock No.	Ranges—Volts AC	Scale Divisions	EACH
51 D 5402	0-30-150-300	60	37.50
51 D 5401	0-3-15-150	75	37.50

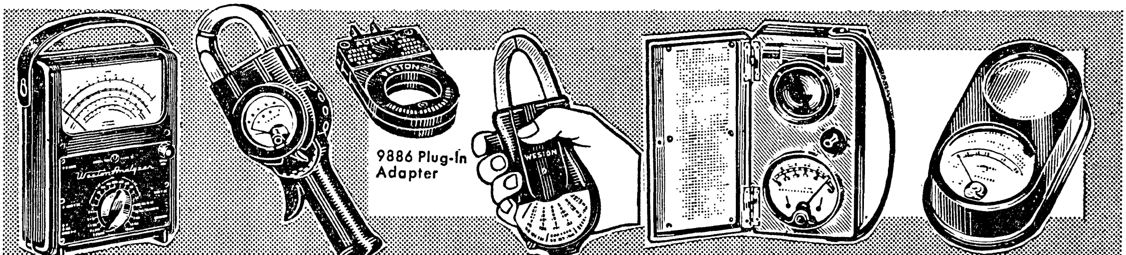
MODEL 2931 TWO-RANGE DC MILLIVOLTMETER (CONVERTIBLE TO AMMETER)

Range: 0-50 millivolts. Two scales of 50 and 75 are provided with divisions of 100 and 150, respectively. Use with external shunts and leads below to measure DC current.
51 D 5397....................................22.75
NO. 9858 LEADS. 5-foot leads with resistance of 0.065 ohms to match DC Millivoltmeter. Shpg. wt., 4 oz.
51 D 5406....................................1.50

MODEL 9992—50 MV SHUNT

Converts Model 2931 DC Millivoltmeter into DC ammeter with ranges as shown. Shpg. wt., 5 oz.

Stock No.	Mfr's No.	Range—Amps DC	EACH
51 D 5411	41214	0-25	11.75
51 D 5412	41218	0-50	11.75
51 D 5413	41223	0-100	12.75



980 633 749 614 703

POPULAR SERVICING AND MEASURING INSTRUMENTS

MODEL 980 MARK II VOM

- Large 4.63" Meter Scale
- DC Accuracy ±2%
- DC Sensitivity 20,000 Ohms/Volt
- Fused Resistance Ranges

A "must" for the service man—sensitive, rugged volt-ohm-milliammeter with a DC sensitivity of 20,000 ohms per volt and an AC sensitivity of 1000 ohms/v. Designed for a wide range of accurate test measurements in industrial electronics. Features: spring back jewels; fused resistance ranges; single knob selects function and range insulated crack-proof case. Ranges: DC volts, 0-1.6-8-40-160-400-800-4000; AC volts, 0-1.6-8-40-160-400-1600; Decibels, −15 to +54 in 6 ranges; DC μa, 0-80; DC ma, 0-1.6-8-80-800; DC amps, 0-8; Resistance, 1K to 10K full-scale and 25 to 250,000 center-scale (5 ranges). Accuracy: DC, 2%; AC, 3%, 4.63" scale. With leads, less batteries. 7$\frac{9}{16}$x6¼x3". Shpg. wt., 3 lbs.
51 D 9280....................53.50

633 CLAMP VOLT-AMMETER

TYPE VA-1. For AC testing without breaking circuits. Clamps around conductors to measure AC amps—test leads measure AC volts. Safety trigger permits bare-hand use —fits conductors to 2" in dia. Bakelite case; shatterproof glass, 750-v. insulation. AC amps; 0-10-25-100-250-1000. AC volts: 0-175-350-700. Accuracy: ±3%. 50-70 cps; adjustable to ±3% at 400 cps. 2.36" scale length. Overall size: 13⅝x4⅜x2½". Shpg. wt., 4½ lbs.
51 D 9512....................141.50

749 AC CLAMP VOLT-AMMETER

Pocket-size version of meter above. Takes conductors to 1" in dia. AC amps, 0-6-15-30-60-150-300. AC v., 0-150-300-600. 2.36" scale. With case, voltage test leads, insulated clips, 3 accessory probes. 7½x3x1¼". Shpg. wt., 1 lb.
51 D 9513....................51.50
51 D 9514. Model 9886 Plug-In Adapter. Aids in current readings of double-conductor leads. Has 10-1 current-divider, also. Shpg. wt., 7 oz..........................6.00

MODEL 614 LIGHT METER

A professional-quality foot-candle meter. Measures directly in foot-candles in three ranges on a 2.36" scale. Ranges: 0-100-250-500 foot-candles. Supplied with "Viscor" and cosine filters for color and direction correction, respectively. With bakelite case and leather carrying strap. Size: 7⅜x3⅜x2¼". Shpg. wt., 3 lbs.
51 D 5199 T....................164.00
51 D 5415 T Light Meter. Same as above except range 0-60-120-600 foot-candles and with "Viscor" color filter only.....160.00

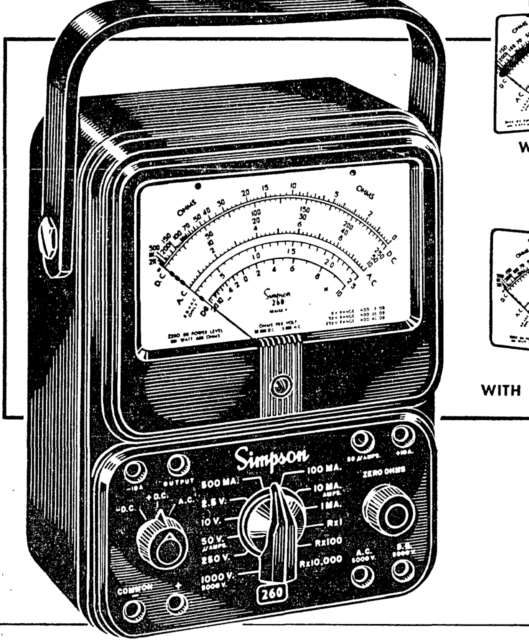
SERIES 703 SIGHTMETERS

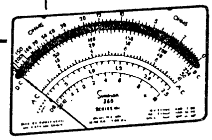
TYPE 3A. Pocket-size meter for checking illumination levels at work stations. 0-75 foot-candles. Unfiltered. Scale 1.57". 4⅝x2⅝x2¼". Shpg. wt., 2½ lbs.
51 D 5232....................52.00
TYPE 6A. As above, but with "Viscor" and cosine filters for color and direction correction. Less case, below. Shpg. wt., 2½ lbs.
51 D 5233....................65.00
51 D 5235. Leather Case. 1 lb..........3.25

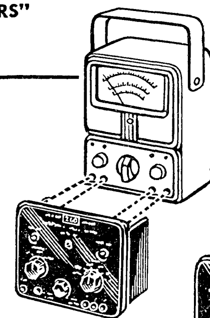
Simpson

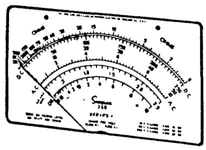
FAMOUS 260 AND 270 AC-DC VOLT-OHM-MILLIAMMETERS

AVAILABLE WITH MIRROR SCALES, BURNOUT-PROOF METER "ADD-A-TESTERS"

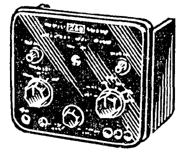



WITH MIRROR SCALE


Just Plug In Adapter for Complete Unit


WITH STANDARD 260 SCALE

Self-Powered and Self-Contained


Convert Your VOM Into 8 New Testers!

MODEL 260—SERIES 5. Features: 2-color scale; 5000 ohms/v. AC, 20,000 ohms/v. DC sensitivity; polarity switch; full-wave bridge rectifier; response to 50 kc. Ranges: DC mv, 0-250; AC, DC v., 0-2.5-10-50-250-1000-5000; AF output v., 0-2.5-10-50-250; DC μa, 0-50; DC ma, 0-10-100-500; DC amps, 0-10; Res., 0-20 megs, 3 ranges; db, —20 to +50, 4 ranges. Accuracy: 2%, DC; 3%, AC. 7x5¼x3⅛". With batteries, leads. Shpg. wt., 5 lbs.

51 D 9199 .... 55.00

51 D 9200. 260RT. As above, but in roll-top case 61.00

51 D 5035. 260P. Same as the famous 260 VOM except with burn-out-proof meter 85.00

51 D 9585. 260—Series 5M. With mirror scale. 6½ lbs 57.00

51 D 9586. 260RT-5M. With mirror scale and roll-top case 63.00

MODEL 270. Has 260—Series 5M features, plus knife-edge pointer, higher stability, 1½% accuracy.

51 D 9209 .... 68.00

51 D 9228. 270RT. As above, but in roll-top case 74.00

HIGHLY VERSATILE PLUG-IN "ADD-A-TESTERS"

For any 260 VOM made since 1947, or the more accurate 270 vom. Size, 4⅜x5$\frac{5}{16}$x3$\frac{7}{16}$". Av. shpg. wt., 2 lbs.

51 D 9334. 650 Transistor Tester. Ico range, 0-100 μa 35.00

51 D 9336. 651 DC VTVM. 0-.5, 1.0, 2.5, 10, 25, 50, 100, 250, 500 v. ranges. Impedance, 10 megohms 40.00

51 D 9337. 652 Temp. Tester. —50 to +250°F in 2 ranges 40.00

51 D 9338. 653 Ammeter. 0.25, 1, 2.5, 12.5, 25a; 50-3 kc 23.00

51 D 9339. 654 Audio Wattmeter. 17 microwatts to 100 watts. Load ranges, 4, 8, 16 and 600 ohms 25.00

51 D 9340. 655 μv Attenuator. 2.5-250,000 μv decade steps 23.00

51 D 9342. 656 Battery Tester 23.00

ACCESSORIES FOR SIMPSON METERS

51 D 9210. Type 0508 High-Voltage DC Probe. 25-kv range. For models 260-3, and 270. Shpg. wt., ½ lb 11.50

51 D 9202. Type 0509 High-Voltage DC Probe. 50-kv range. For models 260-3, and 270. Shpg. wt., ½ lb 12.50

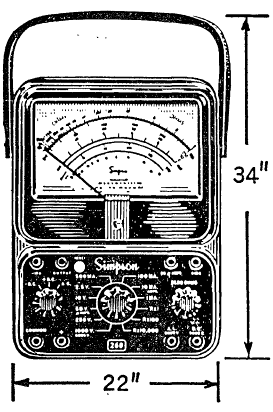
51 D 9196. Type 8375 Leads. Alligator clips, "L" terminals. For models 230, 240, 260-2, and 372. Shpg. wt., ½ lb 1.75

51 D 9203. Type 7500 Leads. Banana plugs, alligator clip. For model 260-3 and 270. Shpg. wt., 1 lb 2.10

51 D 9151. Type 0805 Ever-Redy Leather Carrying Case. For models 260, 270 and 303. Shpg. wt., 2 lbs 10.00

51 D 9162. Type 1818 Carrying Case. As above, but standard leather. For models 260 and 270. Shpg. wt., 2 lbs 9.00

260 VOM CLASSROOM DEMONSTRATOR

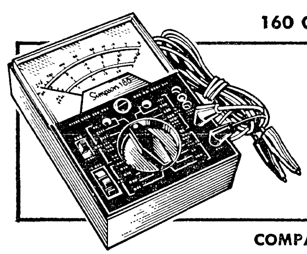


- Easy to See and Read
- Lightweight, Portable
- Hangs Easily Anywhere

The new Simpson 260® VOM classroom demonstrator is a blown-up, board-type model designed to assist instructors in teaching the use of the popular 260 VOM. Lightweight and portable, the demonstrator can be hung conveniently anywhere in the classroom. Features a zero-adjust knob that is coupled directly to pointer, thus enabling instructor to actually set pointer at exact scale reference required. This shows exact manner in which zero-adjust is accomplished, and how to read each scale. Size: 34x22x2". Shpg. wt. 15 lbs.

51 D 9589 U 24.50

160 COMPACT VOM



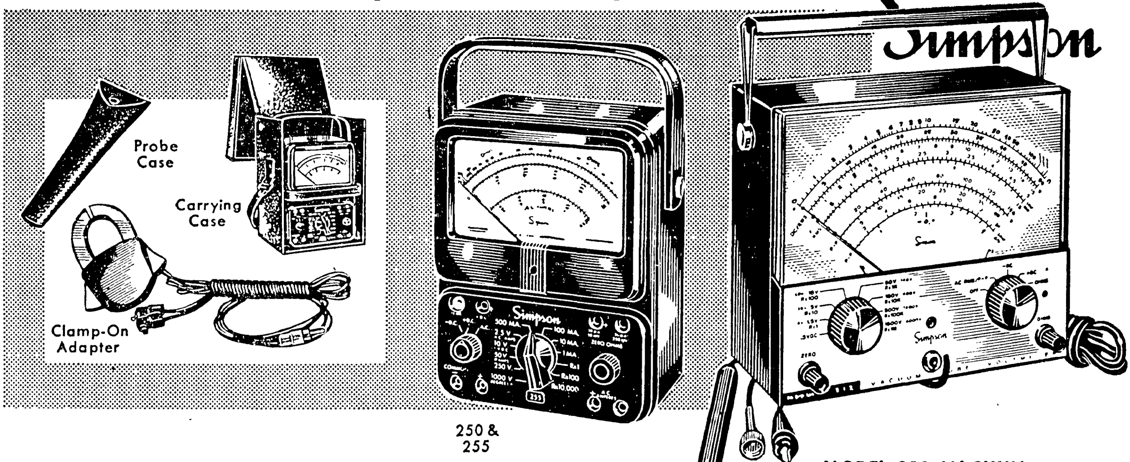
- Easy to Handle and Use
- Diode Protected Meter Movement
- 20,000 DC, 5000 AC Ohms/Volt Sensitivity
- .25 DC Low Voltage Range

COMPACT VERSION OF THE WORLD FAMOUS 260 VOM

Same features as the 260 VOM, but with extended range coverage for accurate transistor measurements. Diode protected, taut band meter movement, DC polarity reversing switch, and separate battery compartment. Ranges: DC volts; 0-.25-1.0-2.5-10-50-250-500-1000 at 20,000 ohms/volt sens.; AC volts; 0-2.5-10-50-250-500-1000 at 5000 ohms/volt sens. Current Ranges: 0-50 μa, 1-10-100-250-500 ma, with 250 millivolt drop. Ohmmeter Ranges (with 30 ohms center scale); 1-10-100-10K-100K. Accuracy, AC 4%; DC, 5% of full scale. With leads, batteries. Shpg. wt. 6 lbs.

51 D 9591 .... 48.00

Quality Test Equipment



250 & 255

MODEL 255 VOM

- Temperature Range 100-1050° F
- AC-Clamp-On Adapter Available
- Versatile—Wide Range of Uses

Ideal for service and maintenance men in fields such as gas appliance servicing and installation; electric utilities; and heating service and installation. Includes 5-foot thermocouple lead; temperature range of +100° to +1050° F. Incorporates low voltage drop on DC current ranges for accurate testing of transistorized circuitry plus extra-low voltage ranges of 50 and 250 millivolts, DC. Clamp-on adapter (see below) measures to 250 amps AC. Includes provision for using ADD-A-TESTER adapters (see descriptions on facing page). Sensitivity, ranges (except temperature) and accuracy are identical with Model 250 described at right. Overall Size: 7x5¼x3⅛". Shipped complete with test leads and prods, 5-foot thermocouple lead, and informative instruction manual. Wt., 4 lbs.

51 D 9620........................**90.00**

MODEL 0531 CLAMP-ON ADAPTER. Measures up to 250 amperes AC without opening circuit. Wt., 1 lb.

51 D 9625........................**30.00**

MODEL 0161 HIGH VOLTAGE PROBE. Extends range to 10K volts, AC. Wt., 1 lb.

51 D 9626........................**11.75**

MODEL 250 VOM

- All the Features of the 260 VOM Plus Lower Voltage Drop on DC Current
- Diode-Protected Meter Movement

Accurate transistorized circuit testing requires a low voltage drop on DC current ranges, and this Simpson Model 250 provides it—allows only 50 millivolts drop. Also provides extra-low voltage ranges on DC for dependable solid-state testing. Contains all the top-quality features of the popular Model 260 VOM, including provisions for using the ADD-A-TESTER adapters, the high-voltage probes, and other accessories.

Sensitivity: 20,000 ohms per volt DC, 5000 ohms per volt, AC. Ranges: DC and AC volts, 0-2.5-10-50-250-500-1000 plus the extra-low voltages on DC, 0-0.050-0.250 millivolts. DC current; 0-50 μa, 0-1-10-100-500 milliamperes, and 0-10 amperes. Four db scales; —20 to +10, —8 to +22, +6 to +36, and +20 to +50. Ohms: X10, X100, X10K (12 ohms center). Accuracy, ±2% full scale, DC volts and current except 0-50 μa, ±1%; ±3% full scale AC volts. Self-shielding taut band movement, diode protected. Supplied complete with test leads, and instructive operators manual. Overall size, 7x5¼x3⅛". Shpg. wt., 4 lbs.

51 D 9619........................**60.00**

MODEL 312 VACUUM-TUBE VOLTMETER

- 16 Megohm Input Resistance
- Large, Easy-to-Read Scale
- ½-Volt DC Range for Transistors

Designed to meet today's test equipment requirements for accuracy, dependability, and reliability. Ideal for a wide range of general service uses—resistance measuring, voltage reading, tube checking, etc. A highly useful aid to the professional serviceman or the amateur. Higher input resistance produces 40% less circuit loading than most conventional VTVM's. ½-volt DC range reads voltages low enough for accurate testing of modern solid-state circuitry. AC accuracy is improved to ±3% of full scale. 7", easy-to-read meter scale.

DC voltage ranges: 0-0.5-1.5-5-15-50-150-500-1500 (16 megohm input). AC voltage ranges: 0-4-14-40-140-400-1400-4000, peak-to-peak. Ohms: X1, X10, X100, X1000, X10K, X100K (10-ohm center). Frequency response ±3%, 15 cps to 3 mc through 150 VAC. Accuracy: ±3% of full-scale on all voltage ranges; ±3% of arc on all resistance ranges. Size, 6¾x7¾x3¾". For operation from 105-125 volts, 60-cycle AC. Shpg. wt., 5 lbs.

51 D 9623........................**85.00**

51 D 9604. Model 0152 RF Probe. Freq. range, 10 kc to 250 mc. Usable to 40 volts rms. Shpg. wt., 1 lb.. ....**8.75**

51 D 9605. Model 1055 High-Voltage Probe. Shpg. wt., 1 lb.....................**11.75**

51 D 9606. Model 0577 Case. Vinyl, with lead storage. Shpg. wt., 2 lbs........**13.00**

CONVENIENT ACCESSORIES FOR VOM's ABOVE

MODEL 0508 HIGH-VOLTAGE DC PROBE. Extends range to 25-kv. Wt. ½ lb.

51 D 9210........................**11.50**

MODEL 0509 HIGH-VOLTAGE DC PROBE. Extends range to 50 kv. Wt., ½ lb.

51 D 9202........................**12.50**

MODEL 0549 CARRYING CASE. Contains space for tools, etc. Wt., 2 lbs.

51 D 9622........................**16.00**

MODEL 0574 HV PROBE CASE. Snaps onto above carrying case. Wt., 1 lb.

51 D 9621........................**4.00**

HIGH-VOLTAGE PROBES

Heavily insulated and protected, these high voltage probes greatly extend the range and versatility of your VOM. Allow you to read measurements accurately up to 40,000 volts with the Model 269 VOM (described at right). Shpg. wt., 2 lbs.

MODEL 0173. Extends the range of Model 269 VOM to 16,000 volts.

51 D 5289........................**12.00**

MODEL 0181. Extends the range of Model 269 VOM to 40,000 volts.

51 D 9158........................**13.50**

MODEL 5262 CARRYING CASE

Attractively styled "Ever-Redy" vinyl carrying case for Model 269 or Model 262 VOM's described at right. Provides good protection for your instruments while in storage or in transport. Shpg. wt., 2 lbs.

51 D 9155........................**10.00**

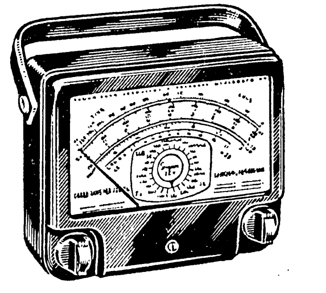
MODEL 269-2 MICROAMMETER VOM

Battery-operated 100,000 ohms-per-volt multitester. Shielded meter movement incorporates spring-back jewels, has large 7" scale. Offers 33 ranges: DC, 0-16-160 μa; 0-1.6-16-160 ma; 0-1.6-16 amps. DC v., 0-1.6-8-40-160-400-1600-4000; AC v., 0-3-8-40-160. Ohms, 0-2K-20K-200K; Megs, 0-2-20-200. AF v., 0-3-8-40-160; db (1 mw-600 ohms), —12 to +45.5 db in four ranges. Accuracies: DC v., ±3% of full scale; AC v., ±5% of full scale; DC resistance, ±3% of arc length. Frequency response: essentially flat through 50 kc. Size, 6x8x3". Exclusive "Adjust-A-Vue" handle. With test leads, 4000-v. DC probe, batteries and operator's manual. Wt., 6 lbs.

51 D 9153........................**90.00**

MODEL 262. As above, but 20,000 ohms/volt DC, 5000 ohms/volt AC. 6 lbs.

51 D 9154........................**70.00**

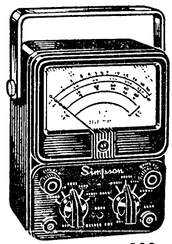


Spring-back jewels eliminate shock and vibration damage to meter pivots. 100,000 ohms/volt sensitivity—higher input impedance than many VTVM's on higher DC volt ranges

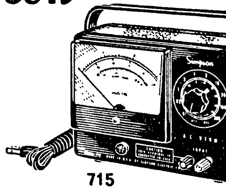
See Pages 512-518 for Complete Listings and Specifications of Knight Test Equipment.

Industrial Test Instruments

Simpson

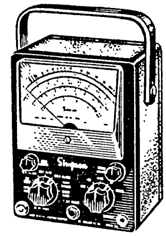


303

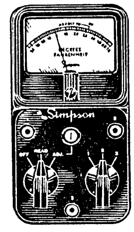


715

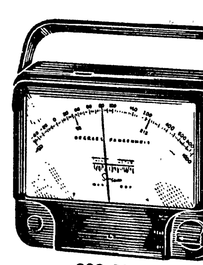
Excellent for Hi-Fi and General Low-Level Audio Work



311



385-3L



388-3L

VACUUM-TUBE VOLT-OHMMETERS

MODEL 303 AC-DC VTVM

Features low current-consumption, wide voltage and resistance ranges, and high accuracy. Ranges: AC/DC v., 0-1.2-12-60-300-1200; AC v., 0-1.2-12-160, flat to 100 kc; resistance, 0-1000-100,000 ohms and 0-1-10-1000 megs; db, −20 to +63 in 5 ranges; AF output v., 0-1.2-12-60. Accuracies: DC volts, ±3% of full scale; AC volts, ±5% of full scale. DC resistance, 3° of linear arc. 4½″ dial. Bakelite case, 7x5¼x3⅛″. DC, AC ohms probes, ground lead. For 110-120 v., 60 cycle AC. Shpg. wt., 6½ lbs.

51 D 9148 .... 80.00
51 D 9152. 303RT. Above, in roll-top case. Wt., 8 lbs. 90.00
51 D 9149. 0074 High-V. Probe. Extends DC to 30 kc. 1 lb... 12.00
51 D 9150. 0073 RF Probe. Measures RF volts. Wt., 1 lb..... 8.75

MODEL 311 AC-DC VTVM

High DC input impedance, 22 megs. Direct readout of rms and p-p values. Ranges: AC/DC v., 0-1.5-15-50-150-500-1500. Resistance: 0-1K-10K-100K ohms; 0-1-10-100-1000 megs. AF v., 0-1.5-5-15-50-150-500-1500, ±5%, 30 cps-100 kc. P-P, 0-4-14-40-140-400-1400-4000 v. Accuracies: DC v., ±3% of full scale; AC v., ±5% of full scale. DC resistance, ±3° of linear arc. 4½″ meter. DC-AC ohms probe, ground lead. Size, 7½x5⅝x4½″. For 105-125 v., 50-60 cycle AC. Shpg. wt., 8 lbs.

51 D 9587 X 75.00
51 D 9208. 0732 High-V. Probe. Extends DC to 30 kv. 1 lb... 11.75
51 D 9211. 0731 High-Frequency Probe. Shpg. wt., 1 lb....... 11.50

MODEL 715 AC VTVM

Sensitive, general-purpose unit. High input impedance (min. 1 meg at 1 kc), 10 voltage ranges and frequency response of 10 cps to 400 kc, ±1 db. Ranges: AC v. rms, 0-.01-.03-.1-.3-1-3-10-30-100-300; db, —52 to +52 dbm in 10 ranges. Special scale provides db markings on both voltage range positions and meter scale. 0 dbm, 1 mv in 600 ohms. Accuracy, ±5% of full scale. 1% resistors. Ideal for hi-fi and low level audio work. 5½x7½x3″. With leads. For 105-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

51 D 9239.. 70.00

ACCURATE TEMPERATURE TESTERS

MODEL 385-3L TEMPERATURE METER

Provides accurate readings from −50° to +70°F. Reliable thermistor sensing element. Scale is calibrated in Fahrenheit and Centigrade. Reads up to 15 ft. away with lead supplied. Accuracy, ±1°F, center scale. Accommodates 3 leads. This permits 2 or 3 readings (for comparison) by rotating a switch. 5⅞x3x2½″. 2 lbs.

51 D 9207.. 36.00
51 D 5135. 0789 Free Air Temperature Probe. 1 lb.......... 7.45

THERMISTOR LEADS

(For 385-3L and 389-3L)

51 D 5136. 0010 15-Ft. Thermistor Lead. ½ lb............... 5.50
51 D 5137. 0216 30-Ft. Thermistor Lead. 1 lb................ 6.45
51 D 5138. 0415 50-Ft. Thermistor Lead. 1½ lbs............. 7.60
51 D 5140. 0417 150-Ft. Thermistor Lead. 4½ lbs........... 12.90

MODEL 388-3L THERM-O-METER

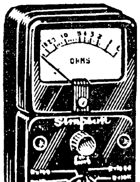
Takes accurate readings from −50° to +1000°F on 7″ scale. Measures the temperature of practically anything. Can be used with gases, liquids and solids. Iron-constantan thermocouple. Compensation circuit corrects for room temperature. Has 7½-ft. probe (Type 0190). Provision for 3 probes. Permits readings in 3 different areas by rotating switch. Accuracy, ±1½ scale divisions. Size, 6x7$^{15}/_{16}$x2$^{15}/_{16}$″. With battery. Shpg. wt., 6 lbs.

51 D 9159.. 70.00
51 D 9160. 0187 Surface-Temperature Probe. Wt., 1 lb. 8.90
51 D 9161. 0190 General-Purpose Probe. Shpg. wt., 1 lb...... 5.00

MODEL 389-3L TEMPERATURE METER

Similar to 388-3L, except uses thermistor sensing element and has dual ranges for measuring temperatures between—50°F and +100°F, and between +100°F and +250°F. Accuracy, ±2°F. Employs thermistor principle. Shpg. wt., 6 lbs.,

51 D 9201.. 65.00
51 D 5141. 0790 Surface-Temperature Probe. 1 lb............. 6.00



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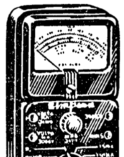

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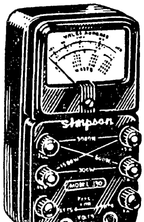

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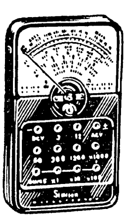
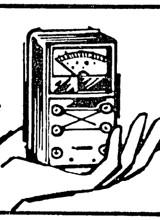




Take Them Anywhere

355

GENERAL-PURPOSE "MICRO-TESTERS"

51 D 9166. 372 Ohmmeter. 3″, 85μa meter. Ranges: 0-500-5000-50,000-500,000 ohms; 0-5, 0-50 meg. Batteries, leads. Accuracy, ±3° of linear arc length. Shpg. wt., 3½ lbs........ 33.00

51 D 9197. 362 Low Ohmmeter. Reads 0-5-25 ohms. Accuracy, ±3° of linear arc. Leads. Shpg. wt., 3 lbs.......... 28.00

51 D 9204. 373 DC Milliammeter. 0-1-5-10-25-50-100-250-1000 ma. Accuracy, ±3% of full scale. 3 lbs......... 25.00

51 D 9205. 374 DC Microammeter. 0-50-100-250-500-1000 μa. With external resistors, can be used as 20K ohms/v. voltmeter. Accuracy, ±3% of full scale. Shpg. wt., 3 lbs. 30.00

51 D 9206. 375 DC Ammeter. 0-1-2.5-5-10-25 amps. Accuracy, ±3% of full scale. Shpg. wt., 3 lbs.......... 25.00

51 D 9165. 370 AC Ammeter. Ranges: 0-1-2.5-5-10-25 amperes. Current transformer. 3″ meter. Less leads. For 60 cycle AC only. Accuracy, ±5% of full scale. Shpg. wt., 3 lbs........... 26.00

355 VOM Midgetester. Miniature VOM with 10K ohms/volt AC-DC sensitivity. 100-μa meter. Ranges: AC-DC v., 0-3-12-60-300-1200; 0-10K-100K ohms, 0-1-10 megs. Essentially flat to 10 kc. Accuracy: DC v., ±3% full scale; AC v., ±5%. Only 4½x2¾x1″. With batteries, leads. Shpg. wt., 2 lbs.

51 D 9254.................... 43.00
51 D 9157. Leather Case. 8 oz..... 4.00
51 D 9198. Extra Leads. Wt., 6 oz. 2.10

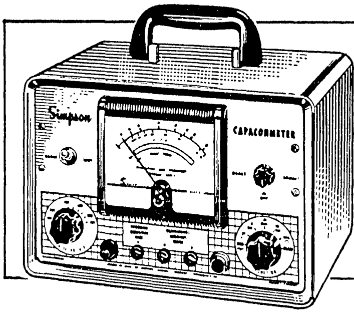
240 "Hammeter" VOM. 1000 ohms/volt AC-DC. DC v., 0-15-75-300-750-3000; AC v., 0-15-150-750-3000. Ohms: 0-3000-300,000. DC ma, 0-15-150-750. Accuracy: DC v., ±3%; AC v., ±5%. Battery, leads. Shpg. wt., 3 lbs.

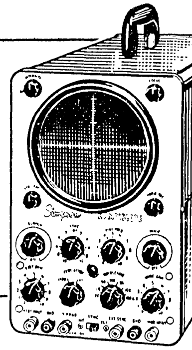
51 D 9163.................... 35.00

390 Volt-Amp-Wattmeter. For 60-cycle AC units. Ranges: AC v., 0-150-300; amps, 0-3-15; watts, 0-300-600-1500-3000. Accuracy, ±5% full scale, or better. 3″ meter. Break-in plug, leads. Shpg. wt., 4 lbs.

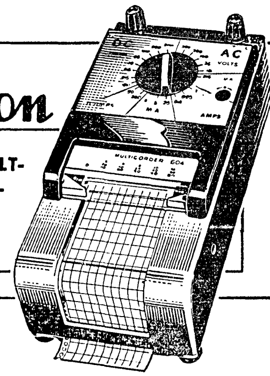
51 D 9164.................... 55.00

Simpson and Triplett Test Equipment





Simpson



MODEL 604 VOLT-AMP-MILLIAMP-MICROAMP MULTICORDER

MODEL 383A CAPACOHMETER

- Reads Capacitance Directly
- Detects Borderline Capacitors

Time-saving, versatile "in-or-out-of-circuit" capacitor leakage tester with "one-package flexibility." Measures leakage resistance of defective paper, mica or ceramic capacitors. Indicates directly the capacitance of good paper, mica or ceramic capacitors over the range of 10.0 mmf to 10.0 mfd.

All measurements are made under load conditions; no adjusting of a bridge circuit and balancing controls. Pulse technique immediately detects many marginal capacitors normally hard to locate. Checks for short, open or intermittent in bypass, coupling and blocking capacitors.

Detects leaks in wiring, transformers, etc. Controls include meter sensitivity, meter adjust, function selector, pulse voltage switch. Large, easy-to-read 4½" meter. Portable case, 8⅜x11⅜x8½". Supplied complete with leads. For 105-125 volts, 60 cycle AC. Shpg. wt., 12 lbs.

51 D 9630 X **100.00**

MODEL 466 5" "HANDISCOPE"

- Heavy-Duty Construction • Push-Pull Amplifiers
- Excellent for B&W TV • Z-Axis Input

Ruggedly constructed, general-purpose oscilloscope for AM, FM or black-and-white TV servicing and industrial applications. Features: push-pull amplifiers; built-in 1-v. peak-to-peak calibrating voltage; Z-axis intensity modulation input Horizontal deflection may be obtained from either internal sweep circuits or external signal.

Response: Vertical, ±1 db, 15 cps-100 kc, 6 db down at 250 kc, usable to 1 mc; horizontal, ±1 db, 15 cps-20 kc, 6 db down at 100 kc. Maximum sensitivity: Vertical, .030 rms v./inch; horizontal, 0.7 rms v./inch. Sweep range: 15 cps-80 kc. Maximum input, 400 v. Sawtooth sweep range, 15 cps-80 kc. Z-Axis sensitivity, 20 volts rms.

Top-mounted carrying handle for easy portability. Supplied complete with input cable and instruction manual. Size, 7⅞x12¼x16⅛". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

51 D 9643 U **170.00**

- Indicates Range and Value on Chart
- Records Without Ink • 3-Speed Motor

Gives permanent record of range and measured value, without ink, on pressure-sensitive paper. High torque, shock resistant taut band movement. Chart speed: 1/3/12 in./hr. with impressions every 2 seconds.

Chart paper: 2.3"x50'. Sensitivity: 20,000 ohms/volt DC; 5000 ohms/volt AC. Accuracy of recording, ±2.5%. Accuracy of indication, ±1.5% DC or AC (45-65 cps sine wave on AC). Temperature influence about 1% of true value, AC or DC, for 10°C change.

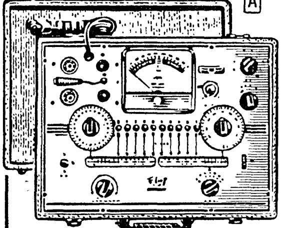
Frequency response, flat from 15 to 10,000 cps; ±2.5% 10K-20K cps. Ranges: DC, 0-0.1, 0.5, 2.5, 10, 25, 100, 250, 500 v.; 0-50 250 μa; 0-1, 5, 25 ma; 0-0.1, 0.25, 1 amp. AC, 0-0.2 ma; 0-10, 25, 100, 250, 500 v. 9¾x4¾x4". Self-starting, synchronous motor for 115 v., 60 cycle AC. 6 lbs.

51 D 9624 X **200.00**

51 D 9615. Chart Paper. Wt., 2 lbs. in box of 10 rolls **19.50**

Triplett

A



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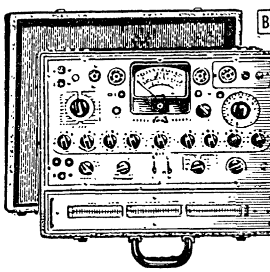

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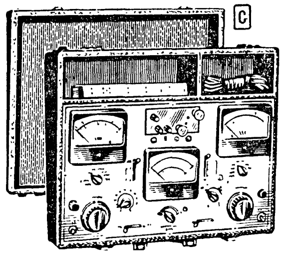

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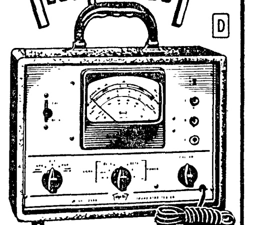


[A] MODEL 3414 TUBE TESTER

Modified plate conductance tester, correlated with G_m, for fast, accurate checking of all receiving tubes. All switch settings made before tube warms up—rejects burned-out tubes instantly. Filament voltages from 0.65 to 117 v. in 23 steps. Includes neon indicator shorts test, variable leakage test; roll chart, 3-color 4" meter. With cover. 11½x15⅞x6½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 16½ lbs.

51 D 9645 X **120.00**

51 D 9111. T-2247-BV CRT Adapter. For 3414 or 3444 testers. Tests TV CRTs while in set. 1 lb. **8.00**

[B] MODEL 3444 TUBE ANALYZER

Lab-type dynamic mutual-conductance tester in portable case. Measures G_m without compensating factors, using proper DC potentials, 5 kc signal source and vacuum tube μammeter. Self-checking circuit tests accuracy of G_m readings. Checks plate current cutoff, plots characteristic curves, tests for gas, etc. With cover. Size, 15¾x18¹³⁄₁₆x7¾". For 110-120 v., 60 cycle AC. Shpg. wt., 28¾ lbs.

51 D 9617 U **350.00**

51 D 9236. CG Adapter. Extends 3444 range to low power industrial and transmitting tubes. 2½ lbs. **39.50**

[C] MODEL 3490A TRANSISTOR ANALYZER

Provides a complete analysis, not just a test, of a semiconductor's characteristics from actual ratings. Also tests diodes, rectifiers, zener diodes, SCR's, etc. Reads leakage currents down to 100 nanoamperes on 6 μa full-scale meter and analyzes both power and signal transistors at specified voltages and currents, with continuously variable collector current up to 30 amps. Tests DC Beta, AC Beta @ 1 kc, I_{CO}, I_{EO}, I_{CEO}, Alpha, reach-through and saturation voltages plus floating potential. Three monitored power supplies with input current to 3 amps plus 0-10 v. variable tetrode voltage. Collector voltages to 110 volts; emitter or base to 12 volts. With cover. Size, 18¹⁵⁄₁₆x15⁷⁄₁₆x8". Shpg. wt., 33 lbs.

51 D 9786 U **400.00**

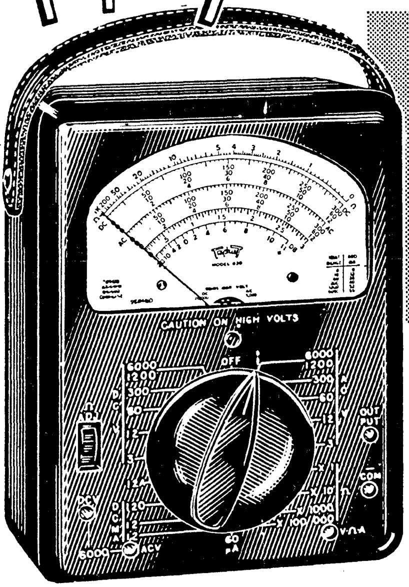
[D] MODEL 2590 TRANSISTOR TESTER

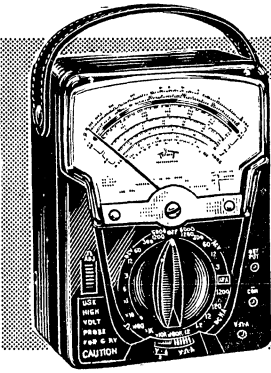
Checks all transistors under simulated operating conditions. Tests Beta, I_{CBO} and I_{CEO} for both power and signal types. Checks transistors for shorts and leakage, diodes for leakage and forward current. Easy to operate—no roll chart needed. Transistor socket plus external leads. 8⅝x11⅝x5⅛". For 105-125 v., 50-60 cycle AC. Shpg. wt., 6¾ lbs.

51 D 9618 .... **65.00**

SEE PAGES 512-518 FOR COMPLETE LISTINGS AND SPECIFICATIONS OF KNIGHT® TEST EQUIPMENT

Portable VOM and VTVM Testers

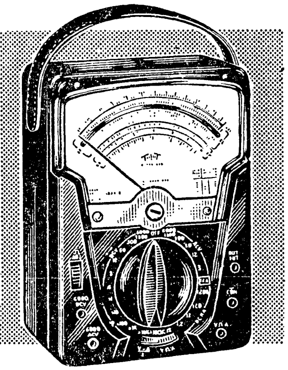




200,000 Ohms/Volt DC Sensitivity

5-Microamp Suspension Meter

62 Ranges



MODEL 630 VOM

Popular streamlined tester with long meter scales for easy reading. Features 20,000 DC, 5000 AC ohms/volt sensitivity. Single 20-position switch selects both circuit and range—minimizes chance of incorrect settings and burnouts. Fuse-protected ohmmeter circuit prevents needle pegging. Spring-backed instrument jewels for extra ruggedness and accuracy.

DC accuracy is ±2% to 1200 volts. AC response, 5 cps to 50 kc. Ranges: DC and AC volts; 0-3-12-60-300-1200-6000; DC current, 0-60 μa, 0-1.2-12-120 ma, 0-12 amps. Resistance, 0-1000-10,000 ohms and 0-1-100 megs. Db, −20 to +77 in 6 ranges; output volts, 0-3-13-60-300-1200. Jack with condenser in series with AC ranges. Size, 7½x5½x3⁷⁄₃₂". With batteries, alligator clips, and test leads. Shpg. wt. 5 lbs.

51 D 9118........................**55.00**

MODEL 630A VOM. As above, but with ½% precision multiplier resistors for 1½% accuracy on DC readings; 3% accuracy on AC readings. Long mirror scale. With leads, clips, and batteries. Shpg. wt. 5 lbs.

51 D 9121........................**65.00**

VOM ACCESSORIES

PROBES. Fully insulated 11¾" probe with 48" leads. *Indicates use with 630, 630A, 631. †Indicates use with 630-PL, 630-APL, 630-L, 630-PLK. ‡Use with 850. Shpg. wt., 7 oz.

Stock No.	Type	Volts	EACH
51 D 9112	*T-79-70	0-30,000 DC	16.00
51 D 9215	*T-79-71	0-30,000 AC	16.00
51 D 9193	‡T-79-196	0-30,000 DC	23.00
51 D 9258	†T-79-83	0-10,000 DC	16.00
51 D 9259	†T-79-130	0-25,000 DC	16.00
51 D 9260	*T-79-145	RF Probe	8.50
51 D 9261	‡T-79-215	RF Probe	8.00

CASES AND STAND. *Black cowhide. †Black leather. T255A35 is a stand.

Stock No.	Type	For Testers	Lbs.	EACH
51 D 9119	*639-N	630 Series	1½	11.00
51 D 9116	*639-P	630 Series	1½	16.00
51 D 5280	†669-OS	666R	1½	8.00
51 D 9120	T255A35	630 Series	1	1.50

51 D 9256. Type 611 Lead. For Model 10 AC-Ammeter adapter (facing page) for all 630 Series units. Shpg. wt. 10 oz. **2.50**

51 D 9235. Type 311 Lead. Allows separate use of Model 10 AC-Ammeter. (facing page). 10 oz.....................................**2.50**

MODEL 630NS PRECISION VOM

Suspension meter movement has no pivots, bearings, hairsprings, etc. Extremely rugged. Special precision resistors are rigidly mounted and connected direct to the switch. 200,000 ohms per volt for greater sensitivity on high resistance circuits. Input impedance is higher than on most VTVM's at 55 volts, DC and above. Accuracy is 1½% DC, and 3% AC. Temperature compensated to 100 kc.

62 ranges for wide choice of scales. Ranges: DC volts: 0-0.6-3-12-60-300-1200 at 100K ohms/volt: 0-0.3-1.5-6-30-150-600 at 200K ohms/volt 0-0.150 at 60 μa. AC volts: 0-3-12-60-300-1200 at 10K ohms/volt: 0-1.5-6-30-150-600-at 20K ohms/volt. Db, −20 to +63 in 10 ranges. DC current: 0-5-60-120-600 μa, and 0-1.2-6-12-60-120-600-1200 ma, plus 0-6-12 amps. Ohms: 0-1000-10K-100K-1 meg-10 meg-100 meg. (4.4-44-440, etc. at center scale). Shipped complete with leads, clips, and batteries. 7½x5½x3¹¹⁄₃₂". 5 lbs.

51 D 9691..................**100.00**

MODEL 630NA DELUXE VOM

Single selector switch reduces chances of error in setting. Temperature and frequency compensation, usable with frequencies through 500 kc. 5½" easy-to-read mirror scale with unbreakable window. Special diode protected meter, and fuse protection in ohmmeter circuit prevents overloading and burnouts. Spring-backed instrument jewels for extra ruggedness. Has 70 ranges.

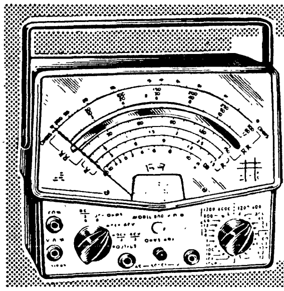
Accuracy: 1½% on DC to 1200 volts; ±3% on AC to 1200 volts. 8 ranges to 6000 (10K ohms/volt); 8 ranges to 3000 (20K ohms/volt). AC volts; 6 ranges to 6000 (5000 ohms/volt); 6 ranges to 3000 (10 K ohms/volt). Db, −20 to +77 in 12 ranges. DC μ amps, 1 range to 120 (240 mv); 2 ranges to 600 (120 mv). DC ma: 4 ranges to 1200 (240 mv); 3 ranges to 600 (120 mv). DC amps, 1 range to 12 (240 mv); 1 range to 6 (120 mv). Ohms, 3 ranges to 100K, 3 ranges to 100 megs. Leads, clips, batteries. 5 lbs.

51 D 9110..................**85.00**

MODEL 630-L VOM

(Not illus.) Low mw ohmmeter circuit (only 140 mv on x1 and x10 ranges)—will not damage semiconductor circuits. Single switch minimizes chances of incorrect settings; mercury battery to reduce rezeroing. 5½", 2-color meter scale. Spring-backed jewels for extra ruggedness. Usable to 500 kc. Accuracy ±2% on DC; ±3% on AC. Sensitivity: 20K ohms/volt, DC; 5000 ohms/volt, AC. DC v.: 0-2.5-10-50-250-1000-5000. AC v.: 0-3-10-50-250-1000-5000. Db: −20 to 75 in 6 ranges. DC current, 0-100 μa; 0-10-100-1000 ma; 0-10 amps. Ohms: 0-1000-10K; 0-1-100 megs. Size, 7½x5½x3¹¹⁄₃₂". Complete with leads, clips, and batteries. Shpg. wt., 5 lbs.

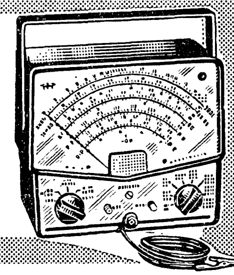
51 D 9692..................**60.00**



66 Ranges with 1½% DC Accuracy to 1200 V.

7" Mirror Scale and Knife-Edge Pointer

Full Meter Overload Protection



MODEL 800 LAB-TYPE VOM

Usable with frequencies to 100 kc. Sensitivity: 20K and 10K ohms/volt., DC; 10K and 5K ohms/volt AC. DC volts: 0-0.6-3-12-60-300-1200-6000 at 10K ohms/volt: 0-0.120 (at 60 μa) 0.3-1.5-6-30-150-600-3000 at 20K ohms/volt. AC volts: 0-3-12-60-300-1200-6000 at 5000 ohms/volt; 0-1.5-6-30-150-600-3000 at 10K ohms/volt. Db: −30 to +70, in 12 ranges. DC current: 0-60-120-600 μa; 0-1.2-6-12-60-120-600-1200 ma; 0-6-12 amps. Ohms: 0-1000-10K-100K, 0-10-100 megs. Size, 7½x6¼x3⅞". Leads, battery. 7 lbs.

51 D 9071..................**100.00**

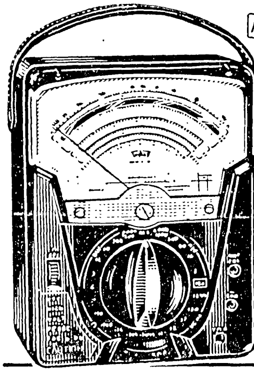
MODEL 850 VTVM

Single-unit probe, with built-in switch for AC/DC/OHMS. Easy-to-read 7" dial scale. 200-μa suspension movement, 0.5 volt. FS range on DC, zero center on all DC scales. Overload protected. DC volts (11 megs input resistance); 0-0.5-1.5-5-15-50-500-1500; AC rms volts (0.83 megs min. input impedance); 0-1.5-5-15-50-150-500-1500; AC p to p volts: 0-4-14-40-140-400-1400-4000. Response: 15 cps to 3 mc. Ohms: 0-1000-10K-100K; 0-1-10-100 megs. 6⁷⁄₁₆x7⅝x3¾". 48" leads, battery. 110-120v., 60-cycle AC. 7 lbs.

51 D 9257..................**85.00**

Portable VOM and VTVM Testers

[A]



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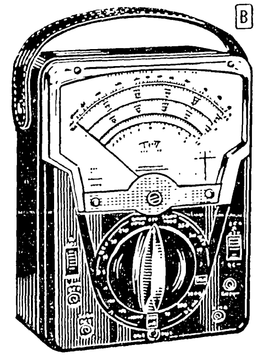
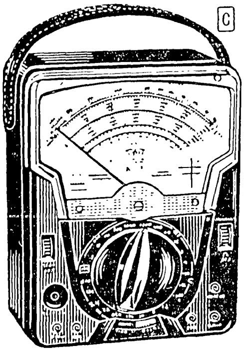
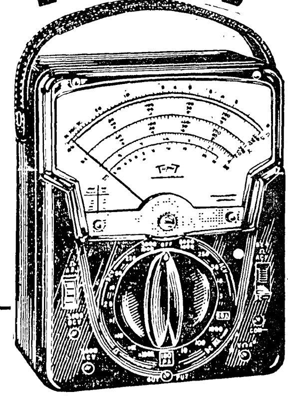


[C]





[A] PROFESSIONAL 630-M VOM

Special diode-protected meter movement. Sensitivity: 1,000,000 ohms/volt, DC; 20,000 ohms/volt, AC. Has 1-μa movement Large, 5½" scale. Accuracy: DC, 1½%; AC, 3%. 61 ranges. DC volts: 12 ranges to 1200. AC volts: 10 ranges to 1200. Usable to 100 kc. DC current: 4 ranges to 600 μa; 7 ranges to 600 ma; 2 ranges to 12 amps. Ohms: 2 ranges to 100K; 3 ranges to 100 megs. Db: −20 to +77 in 10 ranges. 7½x 5½x3¹¹⁄₃₂". With leads. 5 lbs.
51 D 9230T.................200.00

[B] MODEL 630-PL VOM

5½" meter, frequency response to 500 kc, spring-backed jewels, and polarity reversing switch. Resistance ranges from 0.1-ohm low to 100-megs high. AC and DC volts, 6 ranges each, to 5000 v.; DC current, 0-100 μa, 0-10-100-1000 ma, 0-10 amps; ohms, 0-1000-10,000 and 0-1-100 megs; db, −20 to +75 in 6 ranges; output v., 0-3-10-50-250-1000 at 5000 ohms/v. Accuracy, 2% DC and 3% AC. 7½x5½x3¹¹⁄₃₂". With leads, batteries. Wt., 5 lbs.
51 D 9229....................55.00

[C] MODEL 631 BATTERY-POWERED VTVM-VOM ... TWO TESTERS IN ONE

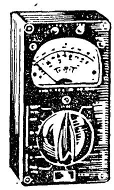
Single switch selector for VTVM or VOM operation. Has large, easy-to-read 5½" meter with unbreakable face, and spring-backed jewels for ruggedness. Accuracy: VOM, 3% DC, 4% AC; VTVM, 4%. VTVM. DC volts: 0-1.2-6-30-120 (11 megs input impedance). VOM. DC volts: 0-3-12-60-300-1200 (20,000 ohms/volt). AC and audio volts: 0-3-12-60-300-1200 (5000 ohms/volt). DC current: 0-60 μa; 0-1.2-12-120-1200 ma; 0-12 amps. Db: −20 to +63. Ohms: 0-1500-15K; 0-1.5-150 megs. Size, 7½x5½x3¹¹⁄₃₂". Supplied complete with test leads, alligator clips and batteries. Shpg. wt., 5 lbs.
51 D 9113.................... 75.00

630-PLK-2 BURNOUT-PROOF VOM

- Offers Comprehensive Overload Protection
- Single-Range, Polarity-Reversing Switches
- Ohm/Volt Sensitivity; 20,000 DC, 5000 AC

Virtually burnout-proof! Transistorized switching circuit protects meter movement and all components from overload damage. DC volts: 0-2.5-10-50-250-1000-5000 (20,000 ohms/volt). AC volts: 0-3-10-50-250-1000-5000 (5000 ohms/volt). Db: −20 to +75 in 7 ranges. DC current: 0-100 μa (250 mv); 0-10-100-1000 ma (250 mv); 0-10 amps (250 mv). Ohms: 0-1000-10,000 (4.4-44 at center scale); 0-1-100 megs (4400-440K at center scale). Output volts: 0-3-10-50-250-1000 (5000 ohms/volt). 7½x5½x 3¹¹⁄₃₂". Complete with 50" test leads removable alligator clips, and batteries. Shpg. wt., 5 lbs.
51 D 5299....................85.00

MODEL 666R POCKET VOM



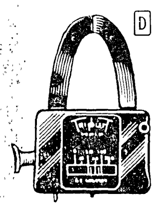
Handy tester for pocket or tool kit, has single, recessed selector switch. Three resistance ranges to 3 megs. Five voltage ranges to 5000 volts, AC or DC. AC rectifier is precalibrated for easy replacement. Accuracy: 3% DC; 4% AC. AC/DC sensitivity: 1000 ohms/volt. RANGES. DC and AC volts: 0-10-50-250-1000-5000. Ohms: 0-3000-300,000; 0-3 megs. DC current: 0-10-100 ma; 0-1 amps. Size, 5⅞x3¹⁄₁₆x2⁹⁄₁₆". With test leads, alligator clips and batteries. Shpg. wt., 3 lbs.
51 D 9114..40.00

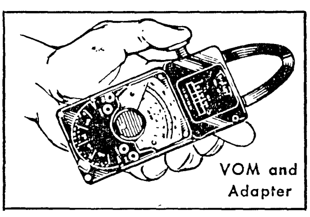
NEW MODEL 630-APLK

Same fine features, sensitivity, and overload protection as the 630-PLK, but with even greater accuracies, plus mirror scale and knife-edge pointer to prevent parallax. Accuracy is ±1½% DC, and ±3% AC. Complete with test leads, alligator clips, and batteries. Shpg. wt., 5 lbs.
51 D 9693....................95.00

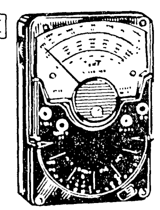
THE WORLD'S LARGEST-SELLING MINIATURE VOM'S

[D]





[E]



[D] **MODEL 10 AC-AMMETER ADAPTER.** Plugs into Model 310 or 310-C VOM to make a clamp-on AC ammeter. Can be used with any VOM with a 3-volt AC scale at 5000 ohms/volt. Reads AC current in 6 ranges: 0-6-12-30-60-120-300 amps. 4¼x1¼x3¼". (See leads on facing page.) 1 lb.
51 D 9231......................17.00

MODEL 379 LEATHER CASE. For 310-10 in combination. Has pocket for 101. 3 lbs.
52 D 6590.......................7.00

MODEL 101 LINE SEPARATOR. Plugs into AC outlet, increasing Model 10 ammeter sensitivity 10x and 20x. 0.3 to 30 amps, AC in 9 ranges. Has provision for voltage-measuring prods. Shpg. wt., 1 lb.
51 D 9232......................7.00

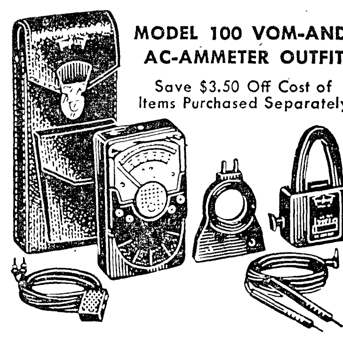
[E] **MODEL 310 VOM.** Shirt-pocket meter has 20,000 ohms/volt DC sensitivity, is self-shielded, and offers 3% DC accuracy. DC volts: 0-3-12-60-300-1200 (20,000 ohms/volt). AC volts: 0-3-12-60-300-1200 (5000 ohms/volt). Ohms: 0-20,000-200,000; 0-2-20 megs. DC current: 0-600 μa; 0-6-60-600 ma. 4¼x1¼x3¼". With test leads and batteries. Shpg. wt., 2 lbs.
51 D 9667....................40.00

MODEL 310-C VOM. Same as above, but with 600-v. ranges instead of 1200. Also, polarity reversing switch and 15,000 ohms/volt AC sensitivity. Wt., 2 lbs.
51 D 5096....................50.00

51 D 9146. 369 Leather Case. For Models 310 and 310-C only. Wt., 3 lbs.......3.50

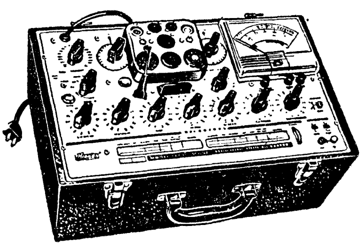
MODEL 100 VOM-AND-AC-AMMETER OUTFIT

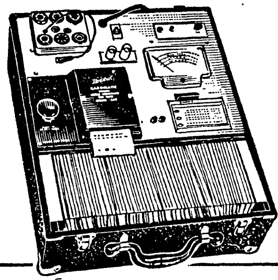
Save $3.50 Off Cost of Items Purchased Separately

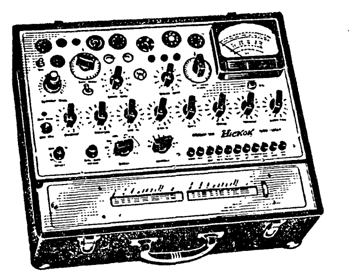


Save $3.50 on this packaged miniature VOM outfit. Cost of items purchased separately is $73.50. Outfit consists of: Model 310 pocket-size VOM; Model 10 clamp-on AC Ammeter Adapter; Model 101 Line Separator; Model 379 Leather Carrying Case; Model 311 Lead Attachment. 310 VOM has 20,000 ohms/volt DC sensitivity. Offers 3% DC accuracy, and is self-shielded. Clamp on adapter converts 310 to ammeter. Reads current in 6 steps. 101 separator increases ammeter sensitivity. Case has neck strap. Holds 310 and 10 with pocket for 101. Detailed descriptions on facing page. Wt., 7 lbs.
51 D 5095....................70.00

HICKOK Tube and Transistor Testers







MODEL 6000A PORTABLE TUBE TESTER

- Hickok-Developed G_m Test Circuit
- Direct Reading Grid Current (Gas) Test
- Immediate Filament Continuity Test

High-speed deluxe portable tube tester for both industrial maintenance and service technicians. Test over 1600 tube types including latest types; up-to-date roll chart issued semiannually. Tests more tubes, faster, without sacrificing accuracy. Tests trans-conductance, shorts, leakages, gas, filament continuity. Direct reading of grid current (gas) in microamps on meter. Instantaneous shorts and leakage test with new, increased sensitivity. Continuous line voltage indication permits correction at any time during test. Provides test for NPN and PNP transistors, forward conduction efficiency test on semiconductor diodes. Sockets: octal; loctal; 7, 9 and 10-pin min.; compactron; novar; 5, 7-pin nuvistor. 3000, 6000, 15,000 micromhos. Socket plate replaceable for obsolescence protection. Size 7½x16¾x11¾". For 105-125 v. 50-60 cycles. Shpg. wt., 21 lbs.

51 D 5006 U............... **239.50**

MODEL 123R "CARDMATIC" AUTOMATIC TUBE TESTER

- Fast, Accurate Card-Programmed Testing
- Tests Saturation and Cutoff Plus G_m
- Regulated Supplies, 3-5% Accuracy

Simply insert programmed test card for tube tests. Can be programmed at any point on the characteristic curve to determine performance in particular circuits. Unusually low 220 mv signal voltage and regulated power supplies. 500 test cards included, with cards available for 3100 additional types, 48 hour service. Calibration cards included to set overload protection, G_m, shorts sensitivity, fixed bias and power supply voltages. Tests industrial and computer types, nuvistors, novars, low power thyratrons, VR's, with adapters available for compactrons, 10-pins and European rimlocks. Tests G_m, grid emission, leakage, shorts, gas. Also saturation and cut-off, important for computer tubes. Ranges: 500-26,000 micromhos; 100 μa-510 ma. Sockets: 4, 5, 6, 7-pin, octal, loctal, 7 and 9-pin miniature, 7-pin in-line and octal submin. For 105-125 v., 50-60 cycles AC. Shpg. wt., 52 lbs.

51 D 5115 Z............... **595.00**

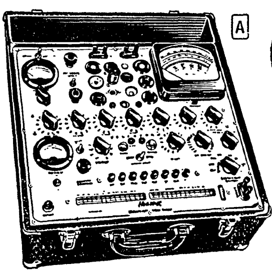
MODEL 580 LABORATORY TUBE TESTER

- Four Gm Ranges—Up to 60,000 μmhos
- Choice of Rapid Test or Set-Up to Handbook Conditions

Tests G_m, leakage, gas, cathode life, Voltage regulator test. Rapid settings from roll chart. Handbook or experimental G_m conditions can be set up—variable test potentials and plate, grid and cathode jacks provided. Resistor may be inserted in cathode jacks for self bias test; bypassed by internal capacitor. Ultra-sensitive gas test circuit detects gas effects down to 0.05 microamps! Leakage senstitivity to 50 megohms with readings on meter. Only one setting needed for dual-section tubes. Ranges: 60,000, 30,000, 10,000, 3000 micromhos; 3 diode ranges, VR range. Voltages: fil., 0.6-117 v. in 19 steps; signal, 280 mv rms; plate and screen, 6.3-300 v. DC in 12 steps; bias, 0-50 v. Sockets: 4, 5, 6, 7-pin, octal, loctal; 7, 9 and 10-pin miniature; 7 and 8-pin submin.; compactron, novar, acorn, 5 and 7-pin nuvistor. Illuminated chart. 7x19x15½". 105-125 v., 60 cycles. 35 lbs.

51 D 5000 U............... **585.00**

A



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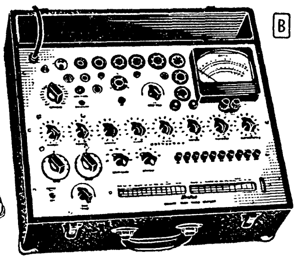


[A] MODEL 539C LABORATORY TUBE TESTER

Measures transconductance, leakage, gas, cathode life. Tests voltage regulators for firing point, voltage, current. Ranges: 60,000, 30,000, 15,000, 6000, 3000, 600 micromhos; rectifier diode; regulators. Sockets: 4, 5, 6, 7-pin, octal, loctal; 7, 9 and 10-pin miniature; 7-pin in-line and 8-pin rd. submin.; compactron, novar, 5 and 7-pin nuvistor. Test Voltages: fil., 0-117 v. in 18 steps; signal, 0.25, 0.5, 1.0, 2.5 v. rms; plate, 66, 150 v.; screen, 56, 130 v.; bias, 0-40 v. Meter and lamp indication of inter-element leakage to 50 meg. Panel terminals for monitoring plate and heater current. Also provides for self bias testing by means of terminals on front panel. Meters: Gm (includes leakage and regulator scales); line voltage monitor; grid bias. 7½x16¾x18⅜". Roll chart. 105-125 v., 50-400 cycles AC. Shpg. wt., 34 lbs.

51 D 5005 U.................................. **525.00**

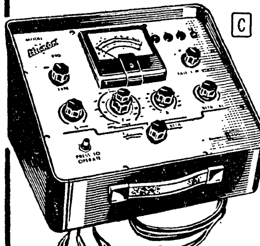
[B] MODEL 752A PORTABLE TUBE TESTER

Tests over 1600 tube types; roll-chart updated semiannually. Extra features include: bias and line fusing; safety interlocked switches—prevents damage due to improper setting; self-bias test jacks on panel. Adapters available for CRT pencil-type, and other special tubes. Measures transconductance, leakage, cathode life. Tests voltage regulators for firing point, voltage, current. Dual section tubes need only one setting. Ranges: 1500, 3000, 6000, 15,000, 30,000 micromhos; scales for leakage, voltage regulators. Sockets: 4, 5, 6, 7-pin, octal, loctal, 7, 9 and 10-pin min., 7-pin in-line and 8-pin round submin., acorn, compactron, novar, 5 and 7-pin nuvistor. 7½x18⅜x16¾". Roll chart. For 105-125 v., 50-60 cycles. 27 lbs.

51 D 5116 U.................................. **365.00**

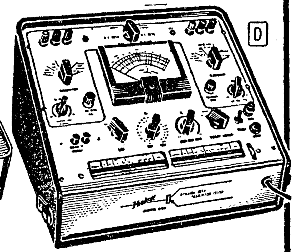
DYNAMIC BETA TRANSISTOR TESTERS

C



890

D



870

[C] MODEL 890 IN-CIRCUIT TRANSISTOR TESTER

Measures AC beta to ±5% accuracy in or out of circuit (0-50, 100, 200). Also measures Ic (0-10 ma); transistor input resistance (50-10,000 ohms); circuit input impedance (100-100,000 ohms); all in or out of circuit. Icbo (0-50 μa) out of circuit. Variable collector voltage—1.5, 3.0 or 4.5 v. 1000 cps test signal set at 5μa base current. Battery powered. Portable case, 6½x9x10¾". Less batteries. Shpg. wt., 8 lbs.

51 D 9646.................................. **155.00**

18 D 5105. K-15 22½-v. Battery. Uses 1.............. **1.44**

18 D 5865. Type 1 1.5 v. Battery. Uses 4.... Pkg. of 2 for **.26**

[D] MODEL 870 AC AND DC BETA TRANSISTOR TESTER

Roll chart provides test data for over 2500 types; updated semiannually. Tests at specified I_c, V_{ce} and I_b. Tests I_{cbo} with variable V_{cb} of 0-100 v., on ranges of 0-100 microamp, 0-1 0-10 ma. Small-signal AC beta, large-signal DC beta tests: Collector voltage variable, 0-5 v., collector current, 0-5 ma for small-signal test; 5 ma-2 amps for large-signal. Beta ranges: 0-100-300 with 5 μa base current, 0-600 with 2½ μa base current. Beta test accuracy, ±5%. With battery and charger. 7⅞x14$\frac{9}{16}$x11¾". 110-120 v., 60 cycles AC. 22 lbs.

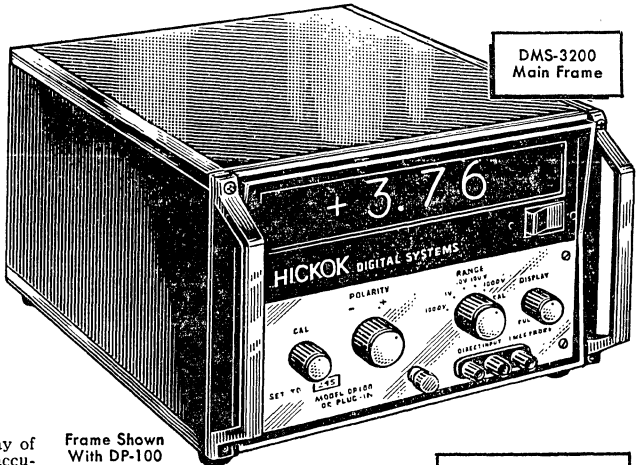
51 D 9652 U............................ **355.00**

VERSATILE SOLID-STATE PLUG-IN DIGITAL SYSTEMS

DMS-3200 MAIN FRAME

- Sturdy Die-Cast Aluminum Front and Rear Panels
- "Slip-out" Construction of Printed Circuit Boards

Precision electronic instrument which displays readings in digital form, instead of the difficult-to-read pointer system. Consists of a main frame and a number of plug-in units which are described below. Main frame unit provides a bright, "nixie" type 3-digit display that provides far greater accuracy and speed in measuring. Manual range selection with automatic decimal location, automatic over-range indication. No loss of accuracy for up to 50% overrange. Manually switched polarity, with automatic indicator and wrong polarity warning. 40-db AC rejection at line freq. No drift or zero offset. Double regulated, temperature compensated zener for internal calibration. Metal-film and wirewound resistors in critical areas. Display var; 1/2 sec. to 6 sec. per reading. Count time 100 msec. Response time 1 sec. (to 1% of final reading). Size: 6 3/8x9 1/4x19". Wt. 12 lbs.
51 D 5657 U........................320.00

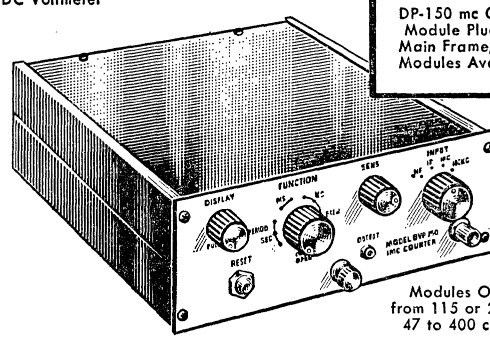


DMS-3200 Main Frame

Frame Shown With DP-100 DC Voltmeter

DP-100 PLUG-IN DC VOLTMETER

Plugs into main frame above to provide digital display of DC voltages from 0.1 millivolt to 1000 volts, with an accuracy of ±0.1%. True integration for best possible noise rejection. Ranges: 0.999-9.99-99.9-999. Overload protected input. (impedance, 10 megohms in all ranges, 1 megohm in probe). 3x8 1/8x10". Use with DMS-3200 Main Frame, above. Shpg. wt. 5 lbs.
51 D 5658..............................175.00



DP-150 mc Counter Module Plugs Into Main Frame, Other Modules Available.

Modules Operate from 115 or 230 Volts, 47 to 400 cycle AC

DP-150 PLUG-IN 1-MC COUNTER

Plugs into frame above to provide accurate measurements of sine and square waves, pulses, and other complex waveforms from 0.1 cycles to 1 mc. Also measures period of same waveforms from 999 seconds to 0.1 msec. Overrange capability allows 7-digit resolution with accuracy of ±0.001%, ±1 count. Provision for event totalizing and manual reset. 1 meg input, 40 mmf shunt; overload protected. 10 mv sensitivity. Provision for internal check at 1 cps, 1 kc, and 100 kc. Schmitt trigger output for use as time mark generator, scope trigger, etc. 3x8 1/8x10". Wt. 5 lbs.
51 D 5659..............................175.00

ADDITIONAL PLUG-IN MODULES

Precision-made, solid-state modules plug into the DMS-3200 main frame above. Save by purchasing only the modules you need. Overall size: 3x8 1/8x10". All operate from 115 or 230 volts, 47 to 400 cycle AC. Shpg. wt. ea. 5 lbs.

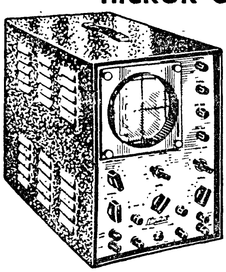
DP-170 OHMMETER. Precision designed unit provides digital display of resistance measurements from 9.99 ohms to 999 megohms. Accuracy is 0.1% to 999K and 0.3% to 999 megohms. Can be read to 20% overrange with no loss in accuracy. Ohmmeter operates efficiently from 10°C to 50°C. Overall size: 3x8 1/8x10". Shpg. wt., 3 1/2 lbs.
51 D 5664....................................240.00

DP-200 CAPACITY METER PLUG-IN. When used with the DMS-3200 main frame, provides digital display of capacity measurements from 1 picofarad to 9.999 microfarads, with no loss in accuracy up to 20% overrange. Accuracies of ±0.1% F. S., ±0.2% of reading. (Slightly less at highest and lowest ranges.) Requires no balancing or nulling, simply connect test leads.
51 D 5668....................................240.00

HICKOK OSCILLOSCOPES

677 WIDEBAND 5" SCOPE

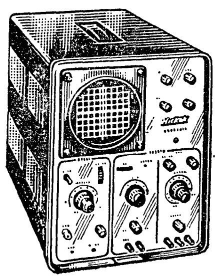
- Pre-set Horizontal and Vertical Sweep Positions
- Built-in P to P Calibrator



Developed specifically to provide television service technicians with a high quality instrument at an economical price. Vertical amplifier has cathode follower input (impedance, 3 meg shunted with 10 mmfd). Horizontal amplifier provides minimum 5 times sweep expansion, facilitates detailed observation of TV sync waveforms, including colorburst. (impedance, 5 meg, shunted with 30 mmfd). 40 mv rms/inch vertical sensitivity. Retrace blanking built-in. Response; vertical, ±3 db, 5 cps to 4.5 mc; horizontal, ±3 db, 5 cps to 350 kc. Plus or minus internal, external, and line frequency sync. 30 cps and 7875 cps fixed frequencies. Separate astigmatic control provides sharp, bright trace. Size: 14x9 1/2x18 1/2". With leads. For 110-120v, 60-cycle AC. Shpg. Wt. 36 lbs.
51 D 5283 U....................................214.50

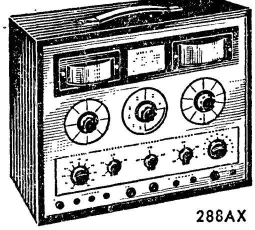
770A 5" SCOPE

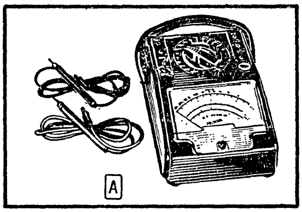
- Two Band-Width Sensitivities
- 8-Step, Vernier Attenuators
- Vertical Positioning Control



Utility oscilloscope developed for usage in a wide range of industrial and laboratory applications. Features Gaussian roll off for true pulse reproduction. Flat-face tube. Calibrated horizontal sweep, choice or recurrent, driven, and automatic modes of sweep generator operation. Post-accelerated, with 18-position sweep rate selector and 5 times horizontal magnification. Miller run-up sweep circuit. 75 ns rise time. ±3 db, 3 cps to 3.5 mc at 0.01 v/div.; ±3 db DC to 4 mc at 0.1 v/div. Horizontal ±3 db to 600 kc. Vertical input; 1 megohm shunted at 40 mmf. Inputs to horizontal amplifier: direct, 60-cycle line, sweep generator. Plus or minus internal, external, and line frequency synchronization. With leads. 13 3/4x11x17 1/2". For 105-125v, 60-cycle AC. 57 lbs.
51 D 5287 Z...................................585.00

Famous-Name Test Equipment

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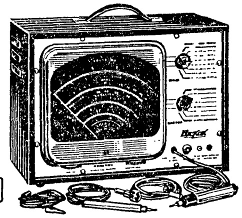
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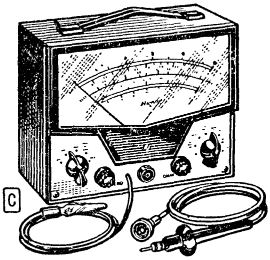

C

288-AX FM-AM SWEEP AND MARKER GENERATOR

- Harmonic-Rich 100 Kc and 1 Mc Crystal Outputs, Switch Selected
- External or Internal FM Modulation
- Calibrated Modulation Control

Crystal-controlled high output FM-AM sweep and marker generator—a complete alignment instrument providing signals for servicing FM, AM and TV receivers. Features eight FM bands ranging from 35 kc to 160 mc, and eight AM bands ranging from 35 kc to 110 mc. Provision for internal or external amplitude or frequency modulation of RF output.

Includes a fixed FM oscillator at approximately 50 mc, with 450 kc sweep; low distortion FM is obtained by beating with the output of the internal AM generator. Has built in db meter, −10 to +38 db. Internal fixed 400 cps AM or FM modulation and 20 to 15000 cps variable AM modulation.

Switch-selected 100 kc and 1 mc crystal outputs. Vernier RF control plus attenuator. Size, 13x16x7". Complete with crystals and cable. For 110-120 v., 50-60 cycle AC. Shpg. wt., 33 lbs.

51 D 5120 U.................**315.00**

A 455A BURNOUT-PROOF VOM

Compact portable VOM. Rugged design withstands hard use. Unique overload circuit cut-out and fuses protect meter and circuitry against burnout on any function, including ohms. Single range/function selector switch. Sensitivity: 20,000 ohms-per-volt, AC and DC. Ranges: AC-DC volts, 0-3-15-60-150-600-1200; resistance, 0-1000-100,000 ohms; 0-1-100 megs—5 ohms center-scale; DC current, 0-50 μa; 0-1-10-100-1000 ma; 0-10 amps. High-impact phenolic case, 8½x5⅞x3". With test leads. Less Burgess batteries Type 2 and U-20 (see battery section). Wt., 5½ lbs.

51 D 9122...................**89.50**

51 D 9754. Neoprene Carrying Case. For above. Shpg. wt., ½ lb..........**12.50**

B 209C VTVM/CAPACITANCE METER

New vacuum-tube VOM with greater operating ranges, higher sensitivity, extended AC response. Large 9" overload-protected meter. Ranges: +DC, −DC volts—0-0.5-1.5-5.0-15-50-150-500-1500; AC volts, rms and p-p—0-1.5-5.0-15-50-150-500-1500; DC current—0-0.5-1.5-5.0-15-50-150-500-1500 ma; ohms (center scale 10)—X1, X10, X100, X1K, X10K, X100K, X1M; capacitance (center scale 40)—X10, X1, X0.1, X0.01, X0.001 μfd, X10 and X100 μμfd. Response: ±3 db, 10 cycles to 200 mc. Sensitivity: 500 mv. Accuracy: ±3% full scale. 3-wire cord. Input: 11 megs DC, 10 megs AC shunted. 11x15x7½". With AC and DC probes, test leads. For 110-120 v., 60 cycle AC.

51 D 5124 U. 20 lbs............**184.50**

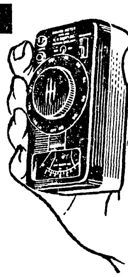
C MODEL 470A PORTABLE VTVM

Versatile, portable VTVM for the engineer and serviceman. Has 2-scale 7" meter. Single-unit AC-ohms-DC probe simplifies servicing by eliminating the inconvenience of separate test leads. Exceptional sensitivity permits transistor bias testing. Ranges: AC and DC volts, 0-0.5-1.5-5-15-50-150-500-1500; peak-to-peak AC volts, 0-1.4-4-14-40-140-400-1400-4000; resistance ranges (center scale=10): X1, X10, X100, X1000, X10,000, X100,000, X1 meg, and X10 megs. Frequency response, 15 cps to 2.5 mc. DC input resistance, 17.7 megohms. AC resistance, 17.7 megohms shunted by approximately 150 mmf. DC zero-center scale. Range switch for AC, DC and ohms. Lightweight metal case with convenient carrying handle. 6⅜x7½x4½". Supplied complete with single-unit probe and lead. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

51 D 5118...................**89.50**

SCOTT

MODEL 450 SOUND METER



- Measures Sound Level, Response and Dispersion
- Transistorized and Battery-Operated
- Wide Operating Range, 40-142 db

Pocket-size, transistorized sound-level meter. Can be used to survey noisy areas for possible ear damage, to estimate frequency response characteristics of speakers and rooms, to measure level and dispersion patterns of P.A. and theater sound systems, and for classroom acoustic experiments. Completely portable—can be taken anywhere without being limited by need of an AC outlet; and it's lightweight.

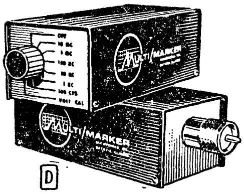
Compact, transistorized design allows thousands of readings from one 22½-volt battery. Wide operating range: from 40 to 142 db in sound level; from 35 to 8000 cps in response. Heavy-gauge aluminum case for field use. Has direct-reading scale with step-type attenuator; built-in crystal microphone.

Has input jack for extension mike or vibration pickup, monitoring output jack, and 2½" meter calibrated on random noise. Completely non-microphonic—no spurious readings. Calibrates itself on 110-volt AC. Battery check button assures proper power available at all times for accurate readings. Requires Burgess U15, Eveready 412 or equivalent 22½-volt battery. Only 6x3x2". Shpg. wt., 2½ lbs.

52 D 6598 T...................**182.00**

ACCUTRONICS CALIBRATORS, MARKERS, SQUARE-WAVERS

Versatile, Compact Equipment Featuring Silicon Transistors For Outstanding Reliability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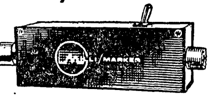
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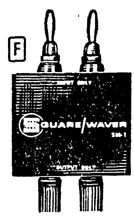

F

D MULTI/MARKER

Accurate battery-powered instrument calibrates vertical amplifiers or oscilloscopes. Can also be used as portable secondary standard, trigger source for breadboard work, or signal generator.

Provides crystal-controlled, switch selected time marks at 100 cps, 1 kc, 10 kc, 100 kc, 1 mc and 10 mc with accuracy of ±0.007% and spike waveform 1 volt p-p, ±2%. Depending on marker selected, rise time varies from 100 μsec to 10 nanosec.

Low output impedance. Supplied with leather carrying case. Size, 1⅞x2⅜x5⅛". Less batteries, listed below. Shpg. wt., 1 lb.

51 D 5426..............**195.00**

18 D 5891. Mallory TR126 Batteries. (Two required for above.) Shpg. wt., 8 oz.............Pkg. of 2 for **2.62**

E MICRO/MARKER CALIBRATOR

Tiny "plug-in" scope sweep calibrator provides crystal-controlled 1-mc time marks with ±0.01% accuracy. Also calibrates signal generators, oscillators, serves as time-marker generator for non-calibrated sweeps and as portable 1-mc frequency source. *Silicon* transistor circuit. Output is 1 volt, p-p, at 50 ohms. Rich in harmonics. Withstands 0 to +60°C. With UHF and BNC connectors. Less battery, below. Aluminum case, 1¼x1¼x4⅛". Shpg. wt., 1 lb.

51 D 5279...............**49.50**

51 D 5291. As above, but 10-mc time marks. Shpg. wt., 1 lb........**59.50**

51 D 5292. As above, but 20-mc time marks. Shpg. wt., 1 lb........**69.50**

18 D 5896. Mallory TR115 Mercury Batteries. (One req'd. for above.) Shpg. wt., 12 oz.........Pkg. of 2 for **4.12**

F MODEL SM-1 SQUARE/WAVER CONVERTER

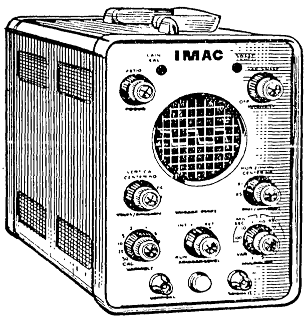
Converts any sine, ramp, or saw tooth generator into a square wave generator! Requires no batteries or other power. Just plug SM-1 into generator output to get square waves with less than 85 nanosecond rise and fall time. Range, 1 cps-600 kc. Up to 20 v. rms from 600-ohm source for 10 volts p-p, no load, or 5 volts p-p, 1.5 K load. Symmetry, 50/50 ±10% at max. input from 60 cps to 600 kc. *Silicon* transistor circuit. 1x2x1¾". Shpg. wt., ½ lb.

52 D 7293.......................................**35.00**

You Get Same-Day Shipment of Your Test-Equipment Order

Professional-Quality Test Equipment

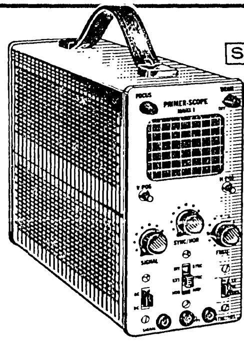
NEW! IMAC S-3 SOLID-STATE 3" OSCILLOSCOPE



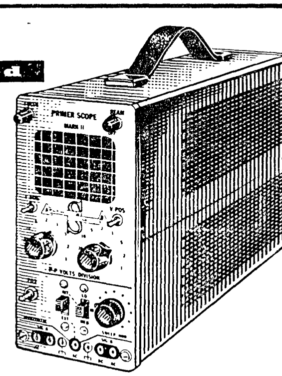
- Transistorized—Uses Less than 15 Watts
- Flat 3" CRT • Calibrated Sweep Speeds

Designed to meet practically all testing requirements. Cathode-follower nuvistor input. Vertical sensitivity: .05 v/division, linear over 8 divisions (2"). DC to 6 mc, ±3 db at 2 divisions; useful to 12 mc. Has .075 μsec rise time. Horizontal sweep: 1μsec/division to 500 msec/division in 18 steps. Accuracy: ±3%, 1 μsec to 50 msec/div.; ±10%, 100-500 msec. Trigger modes: free run; positive and negative internal, external slope; automatic sweep stability; trigger delay. 25 transistors, 18 diodes, nuvistor, CRT. Aluminum case, 8¾x6x14". For 110-120 v., 50-60 cycle AC. 18 lbs.
51 D 9026 U 425.00

SCHAEVITZ m·c·d



Versatile Scopes Featuring Small Size and Light-Weight Design



3" MCD MARK I "PRIMER-SCOPE"

- Vertical Response from DC to 75 kc
- Internal or External Positive Sync

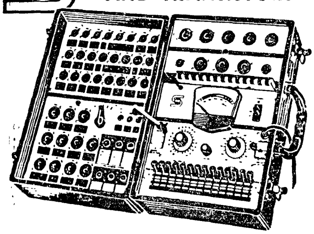
Excellent low-cost oscilloscope for field engineers, technicians, and repairmen. Response: vertical, DC to 75 kc; horizontal, 20 cps to 75 kc. Sensitivity: vertical, 0.25 mv p-p/division; horizontal, 0.15 v. rms/division. Vertical/horizontal input: 0.5 megs, 100 mmf. Sweeps 20 cps to 20 kc, 3 steps. Has internal or external positive sync. Internal blanking. Size, 7¼x3½x11¼". For operation from 105-125 v., 60-400 cycle AC. Shpg. wt., 6¾ lbs.
51 D 9798..................99.00

3" MCD MARK II DUAL TRACE

- Two Simultaneous Displays
- Vertical Response From DC to 100 kc

Three-inch scope provides two displays at once. Frequency response: vertical, DC to 100 kc; horizontal, 20 cps to 75 kc. Sensitivity: vertical, 36 mv rms/division; horizontal, 150 mv rms/division. P-P v. calibrated 0.1 to 50 v., 9 ranges. Sweeps 20 cps to 20 kc, 3 steps. Input: vertical, 1 meg. 90 mmf; horizontal, .5 meg, 40 mmf. Internal and external positive sync. Internal, retrace blanking. Size, 7¾x3½x12". For 105-125 v., 60 cycle AC. Wt., 9 lbs.
51 D 9796.................185.00

SECO TESTERS FOR TUBES AND TRANSISTORS

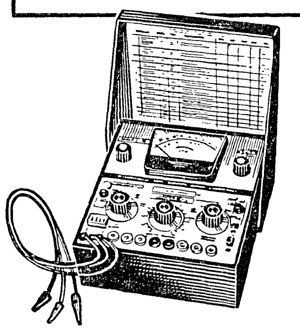


MODEL 107B TUBE TESTER

Dynamic Mutual Conductance Tester that virtually eliminates set-up error. 44 sockets in the cover accommodate 80 base types, testing over 1000 popular tubes—without set-up—for leakage, shorts grid emission, gas and dynamic mutual conductance. Additional ten sockets on the front panel check pulse amplifier, damper and power output types for cathode emission, grid and gas error, important tests for these types.

The sockets on the front panel are wired to fourteen lever-type pin selector switches to provide the versatility for testing Novar, Nuvistor, Compactron, Ten-Pin and Magnoval types—as well as all other modern TV, radio, hi-fi, industrial, and foreign tubes plus low-voltage hybrid types. Extra features include a patented grid-circuit test that pinpoints hard-to-find faulty tubes; four DC power supplies; two stage bridge circuit and amplifier; and a 1-ampere protective circuit breaker.

Meter scale indicates Replace-?-Good and percent GM. Complete set-up data is supplied and pages on new tubes are mailed periodically to 107B owners at no charge. Size, 13x9x7". For 105-130 v., 50-60 cycle AC. Wt., 15 lbs.
51 D 9004 X..............189.50



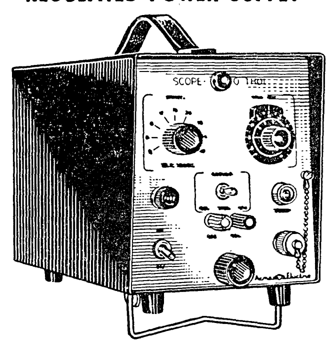
TRANSISTOR/DIODE ANALYZER

MODEL 250B. Complete tests and measurements of semiconductor parameters plus circuit tracing facilities. Tests transistors IN or OUT of circuit plus zener diodes and tunnel diodes. Battery-operated, completely portable test instrument. Includes 5000 ohms/volt VOM with seven ranges of DC volts, milliamps and resistance plus audio/RF generator for circuit tracing.

A special meter-protecting diode safeguards against meter movement damage from accidental current overloads. No set-up data required for operation. Measures true DC Beta gain, 0-200; reverse conductance of signal and power diodes, 0-200 μamps; forward conductance of signal, power diodes, 0-20 ma.

In addition, does all this: reads both collector base (I_{cbo}) and collector-base emitter (I_{ceo}) leakage currents; cancels I_{ceo} leakage for true gain readings; tests tunnel diode "peak and valley" currents and zener diodes; identifies NPN and PNP transistors. Matches transistors of similar types by AC dynamic test or DC analysis. Operates from three size "C" flashlight batteries. Less batteries. With leads. Size, 9¾x7½x4¼". Shpg. wt., 4 lbs.
51 D 5237..................86.50

ACME MODEL PS-39590 SOLID-STATE DC REFERENCE REGULATED POWER SUPPLY



- Dependable Solid-State Circuit
- Eliminates Need For Battery Stacks

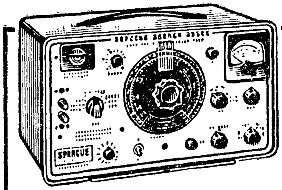
Solid-State "Scope-O-Trol" power supply cancels out DC increment for true scopic observation of DC and AC steady-state and transient voltage changes. Completely eliminates need for battery stacks. Provides regulation of ±.005% for ±15% line change at 115 volts. Output: 0-52 v. DC, ±.015%/hr. with .002% ripple. Adjustments in 6 overlapping 10-volt steps. Compact size, only 12½x8x6". For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.
51 D 5667 Z 215.00

ALLIED'S OWN *knight* TEST EQUIPMENT

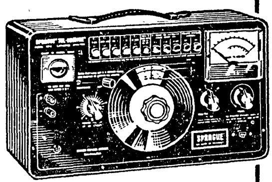
See Pages 512-518 for Complete Listings and Specifications of Knight Test Gear.

Selected Test Equipment

SPRAGUE



TCA-1 Transfarad Capacitor Analyzer



TO-6 Tel-Ohmike Capacitor Analyzer

MODEL TCA-1 TRANSFARAD® CAPACITOR ANALYZER

Wien bridge analyzer especially for testing transistor circuit capacitors without damage. Tests low-leakage, low-voltage aluminum and tantalum electrolytic capacitors, tantalum foil capacitors, low-voltage film, paper and ceramic capacitors. Only 0.5 VAC is applied—even tests 1 v. capacitors. Capacitance bridge reads 1 mmf to 2000 mfd in five ranges, with accuracy from ±2% or 1 mmf, to ±5%. Insulation resistance, 50-20,000 megs with only 25 VDC applied. Leakage current from 0.02 to 600 microamps in 7 ranges. Wien Bridge measures power factor from 0-50%. Polarizing voltage continuously adjustable, 0-150 v. 7⅞x14⅝x9½". With leads. For 105-125 v., 60 cycle AC. Shpg. wt. 27¾ lbs.

52 D 6593 U.................................**197.50**

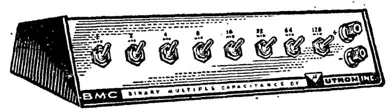
MODEL TO-6 TEL-OHMIKE® CAPACITOR ANALYZER

Lab-accurate instrument for completely checking all capacitors. Five overlapping ranges of Wien bridge measure up to 2000 mfd, including 1 pf to 100 pf range. Extremely low bridge voltage, 1.35 for electrolytics, 2.85 for others, for safe testing of low voltage types. Checks insulation resistance of paper, micas and ceramics in two ranges, 10 Kmeg and 50 Kmeg. Tests for leakage at up to 600 v. with leakage current on meter in four ranges, 0-0.06/0.6/ 6/60 ma. Checks power factor up to 50%. Has turns ratio scale to measure turns ratio of power and audio transformers. Other features: overload protected meter, magic eye tube for easy bridge balancing; push-buttons for range selection. Modern case finished in two-tone gray, 8⅞x14⅝x6⅛". For operation from 110-120 v., 50-60 cycle AC. 16¾ lbs.

51 D 5655 U.................................**99.50**

MUTRONINC. BMC CAPACITANCE SUBSTITUTION BOX

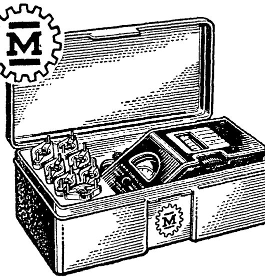
- 1 to 255 Mfd in Steps of 1 Mfd
- Accuracy of 2% Can Be Achieved



Uses binary switching for greater range, more flexibility. High accuracy—lab measured values supplied with each box. Designed for use in development and testing of transistor circuits, the Binary Multiple Capacitance box uses only eight electrolytic capacitors to achieve a range of 1 to 255 mfd in steps of 1 mfd. All capacitors are rated at 50 WVDC. Tolerance in all switch positions: −10 to +30% Using lab values supplied, accuracy to 2% can be achieved. Sleek anodized case is permanently marked. Simple instructions supplied. Case size—9¾x3x3". Shpg. wt., 1¾ lbs.

52 D 9002.................................**35.95**

MILLEN GRID-DIP METER



- Seven Direct Reading Scales
- Wide Range, to 300 Megacycles
- Convenient Carrying Case Holds Seven Coils and Meter

Model 90651. Easy-to-read 2" meter with 0-100 scale. Has plug-in coils for 1.7-300 mc; 2 switches for filament and plate; terminals for battery. Transformer supply. For 110-120 v., 50-60 cycle AC. 7x3³⁄₁₆x3⅜". With carrying case. Shpg. wt. 3½ lbs.

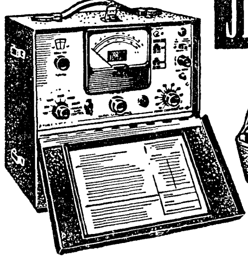
21 D 4324.............**68.85**

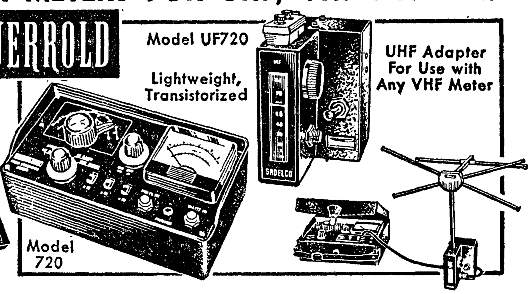
Extra Coils. For covering frequencies from 220-2000 KC. Sh. wt., 3 oz.

Stock No.	Mfr's Type	Range KC	EACH
21 D 4325	46702	925-2000	8.25
21 D 4326	46703	500-1050	8.25
21 D 4327	46704	325-600	8.25
21 D 4328	46705	220-350	8.25

FIELD STRENGTH METERS FOR UHF, VHF AND FM

JERROLD





JERROLD 704B VHF FIELD STRENGTH METER

- Reads Percent of Distortion and Modulation
- Used for Field Intensity Surveys . . . Orienting Antennas . . . Measuring RF Attenuation of Coax . . . Balancing TV Distribution Systems

Professional-quality, direct-reading unit for TV and FM measurements. Reads db or μv from 5 μv to 3 volts in 8 ranges; bandwidth, 0.6 mc. Separates audio carriers from adjacent video carrier. Reads modulation percentage of FM carriers; percent of AM distortion of FM amplifiers, percent of AM or RF generators. Range: 54-220 mc. Accuracy, ±0.8 db over full range. Image rejection, 90 db below signal level. Impedance, 75 ohms. Has scope output for examining composite video and phone outputs for monitoring FM signals. Calibration card is attached to hinged door panel for permanent reference. Lightweight and durable aluminum case with carrying handle. 12x12¾x8". For 105-125 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

51 D 9656 U..................**395.00**

JERROLD 720 PORTABLE METER

Compact, lightweight portable, transistorized meter. Covers the VHF-TV and FM spectrum in two expanded ranges. Accuracy, ±1.75 db. Four sensitivity ranges, 10 microvolts to 1 volt. 75 ohm input with low VSWR. Reads db's as well as microvolts. Headphone jack for identification of interference sources, TV channels, etc. Separates picture and sound carriers. Gives peak carrier readings. 8¼x4½x2¼". With batteries and case. Wt., 6 lbs.

51 D 9701 T..................**295.00**

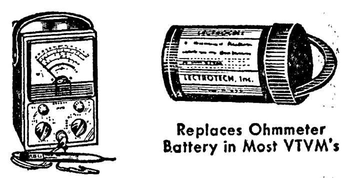
JERROLD UF 720 UHF METER ADAPTER

Extends the range of any VHF meter to UHF. Plugs into 720 above. Transistorized design, completely self-contained, with its own regulated battery supply. Accuracy, ±2 db; input, 75 ohm, ch. 14-83; output, 75 ohm, 64 mc or ch. 3; sensitivity, 5 μv; gain, 0 db; image rejection, 40 db. With tunable probing antenna, 300-75 ohm xfmr, alkaline batteries. Wt., 2 lbs.

51 D 9702.....................**120.00**

LECTROTECH

MINIATURE 1½ VOLT DC POWER SUPPLY FOR VTVM's

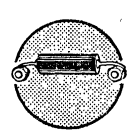


Replaces Ohmmeter Battery in Most VTVM's

Not a battery but a true miniature DC power supply. Occupies same space as a standard "D" Cell. Takes only a few minutes to mount and wire into any VTVM. Once installed no need to replace batteries, no danger from battery bleeding and corrosion. Provides permanent source of 1½ v. DC—install it and forget it. Fits into any VTVM using neg. grounded "D" Cell for ohmmeter. 4 oz.

51 D 5634......................**3.95**

Metergard



Prevents Bent Pointers and Damaged Pivots, Due to Overloads

Ends expensive meter repairs. No larger than a paper capacitor, Metergard wires across any meter from 25 μa to 25 ma to protect against overloads of up to 10,000%. Will not change accuracy of meter.

51 D 5627. 1-9...............Each **2.95**
10-49....Each **2.60** 50-99....Each **2.39**
100-249..Each **2.19** 250-Up...Each **1.95**

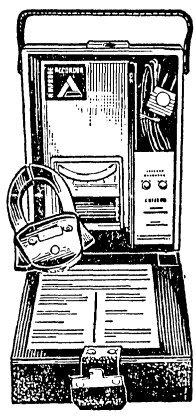
Amprobe Chart Recorders and Testers

DUAL SCALE RECORDER-INDICATORS

Recorder and indicator are dual-scaled for maximum versatility, so you get four precision instruments in this one compact unit. Can be used as either standard indicating voltmeter, standard indicating ammeter, recording voltmeter or recording ammeter. Provides visual, accurate, permanent and objective record.

Very simple to operate and maintain. Paper-loading is especially easy with no rollers or drums to thread. Runs on pressure-sensitive paper, which takes inkless stylus for clean hands and smudgeless operation. Can be used to monitor line-voltage, balance circuits on a 24-hour basis and check motor loading, machine cycling or operating time.

Chart speed of 12 inches per hour for 30 hours on one roll of paper. Chart size: 2½" side x 30" long. Chart speed of 1 inch per hour available on Special Order. Accuracy, ±3% full scale, except expanded scales; ±1% (or one division with 60 cycle sine wave input). Meter sensitivity, 260 μa with 375 ohms resistance. Requires 115 volts, 60 cycles AC. With snap-around current transducer, cowhide case. 7x5 7/16x3 5/8". Shpg. wt., 4 lbs.



30 Hour Recording on Each Chart

Stock No.	Mfr's Type	Range (AC)		EACH
		Volts	Amps	
51 D 5445 T	LAVA81	95-130 190-260	0-10-50 250-500	148.85
51 D 5446 T	LAVA82	95-130, 190-260	0-5-25- 100-250	143.85
51 D 9718 T	LAVA83	95-130 190-260 380-520	0-10- 50-250- 500	169.85
51 D 9719 T	LAVA84	95-130- 190-260 380-520	0-5- 25-100- 250	164.85

CHART RECORDERS

Provides highly accurate permanent records of any variable that can be converted into an electrical signal. Records voltage, current, temperature, flow, pressure and other conditions. Uses pressure-sensitive paper, which is marked with an inkless stylus. This means smudgeless charts, and clean hands for the operator. One roll of paper runs for 30 full hours at a chart speed of 12 inches per hour. Gives highly accurate recording of ±3% on full scale, or ±1.25% on AC expanded scale.

LT8100 Temperature Recorder is also supplied with resistance bulb-thermometer. Type LAV8600 has sensitivity 1380 ohms/volt. Types LAA81 and LAA82 Meters include clamp-on transducer. For 115 volt, 60 cycle AC. 7x5 7/16x2 1/8". Portable leather case is included. Shpg. wt., 4 lbs.

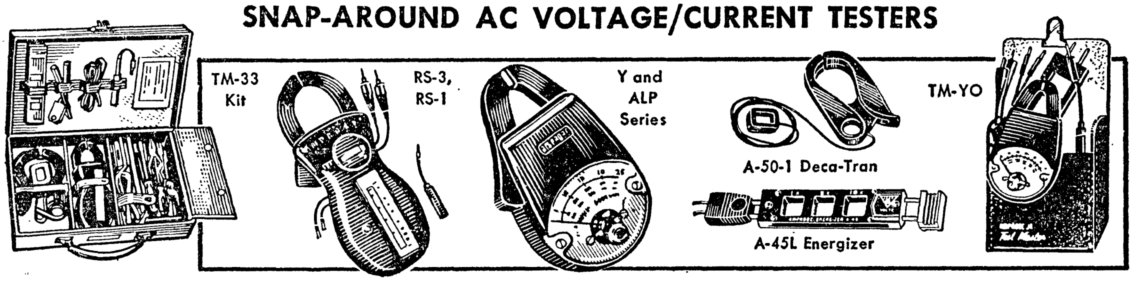
Stock No.	Mfr's Type	Description	Range	EACH
51 D 9795	LT8100	Temperature Recorder	−50 to 100°F; 50 to 250°F	103.85
51 D 5447	LAV-2X	Expanded Scale VM	95-130; 190-260VAC	98.85
51 D 5449	LAV-3X	Expanded Scale VM	95-130; 190-260; 380-520VAC	124.85
51 D 5448	LAV8600	Voltmeter	0-150-300-600VAC	98.85
51 D 5443	LAA81	Ammeter	0-10-50-250-500 Amps AC	109.85
51 D 5444	LAA82	Ammeter	0-50-25-100-250 Amps AC	104.85

STRIP CHARTS FOR CHART RECORDERS

Perforated and printed in two colors. Individually boxed rolls; chart size: 2½" wide x 30' long. Marked volts or amps appropriate to recorder indicated, except *−50°F to +100°F; †+50°F to +250°.

Stock No.	Mfr's Type	For Use with These Recorders	Six Rolls
51 D 5459	835X3A	LAV2X, 3X; LAVA81, 82, 83, 84	9.00
51 D 5460	830AV600	LAV8600	9.00
51 D 5461	850A	LAA81, 82; LAVA81, 82, 83, 84	9.00
51 D 5464	823T1*	LT8100	9.00
51 D 5465	833T2†	LT8100	9.00

SNAP-AROUND AC VOLTAGE/CURRENT TESTERS



MODEL TM-33 TEST-MASTER KIT

A complete trouble-shooting and test kit for electrical maintenance. Consists of Amprobe RS-3 AC Voltmeter-Ammeter-Ohmmeter with 3 ranges to 600 volts, 5 ranges to 300 amps and 25-ohm (midscale) range. A-50-1 Deca-Tran to multiply amps ranges 10X; and A-45L Energizer to increase current sensitivity for accuracy at low readings. Top-grain leather case with snap-lock and space for small tools, 11x8½x3". Shpg. wt., 3 lbs.

51 D 5200....................94.50

ROTARY-SCALE TESTERS

Rotary-scale testers provide greater accuracy—only one scale, appropriate to the range selected, shows behind magnified unbreakable window. Pointer-lock freezes reading; measures in dark, read in light.

MODEL RS-3. Insulated jaws clamp around conductor (up to 1 1/16" dia.) for current. Test leads plug-in for voltage and resistance checks. Reads 0-150-300-600 v., AC; 0-5-15-40-100-300 amps. AC; 25 ohms mid-scale. Accurate ±3%, full scale. With leather case, leads. 7 3/32x2 5/8x1 11/32". Wt. 2 lbs.

51 D 9268....................57.50

MODEL RS-1. Reads 0-6-15-40-100 amps; AC; 0-150-600 v., AC. No resistance range.

51 D 9243....................43.85

AMPROBE JUNIOR

Snap-around testers measure voltage and amperage. These precision instruments measure instantly and accurately on a calibrated scale. Snap-around conductors up to ½" in dia. Measure amps shown and AC volts, 0-125-250 except *0-150-600. ALP series has conductor tracer, 10 station markers, two station holders, voltage and ground leads, fused battery attachment, leather case. Y series with leads, less case. Shpg. wt., 1 lb.

Stock No.	Model	Amps	EACH
51 D 9089	Y25	0-25	22.50
51 D 9091	Y50	0-50	22.50
51 D 9167	Y525*	0-25	22.50
51 D 9168	Y550*	0-50	22.50
51 D 9169	Y500*	0-100	22.50
51 D 5417	ALP50	0-50	38.50
51 D 5419	ALP550*	0-50	38.50

51 D 9105. Case for Y series........3.25

AMPROBE JR. TEST MASTER KITS

Consists of a YO Amprobe Jr., A-45 Energizer, and a specially designed leather carrying case. Measure voltage, current, and resistance instantly and accurately on calibrated scale (not just an indication). The Energizer increases the versatility of the instrument by increasing the sensitivity 5 or 10 times for precise readings on fractional horsepower motors and appliances. Voltage range; 0-150/600, except *0-125/250. Also measures resistance. Ohmmeter range: 25 ohms midscale. 4¾x2½x1⅜". Supplied with battery attachment and test leads. Shpg. wt., 1½ lbs.

Stock No.	Model	Amps	EACH
51 D 5201	TM-YO-525	0-2.5-25	37.85
51 D 5202	TM-YO-550	0-5-50	37.85
51 D 5203	TM-YO-500	0-10-100	37.85
51 D 5205	TM-YO-50*	0-5-50	37.85
51 D 5206	TM-YO-100*	0-10-100	37.85

AMPROBE RANGE-EXTENDING ACCESSORIES

MODEL A-50-1 DECA-TRAN. Use with any model Amprobe to extend amperage ranges 10 times—up to 1200 amps. Includes case and 2' cord for remote reading. 1 lb.

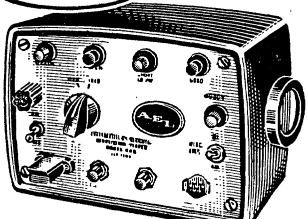
51 D 5207........................30.50

MODEL A-45-L ENERGIZER. Multiplies sensitivity of most Amprobes by 5 or 10 times. Permits current readings on permanently wired low-current equipment.

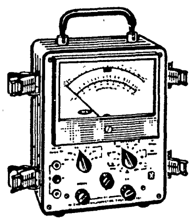
51 D 5227........................6.75

High-Accuracy Test Equipment for Industry

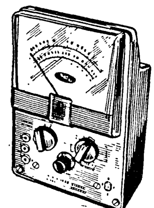
SEMICONDUCTOR CIRCUIT TESTERS



Model 241



Model 259

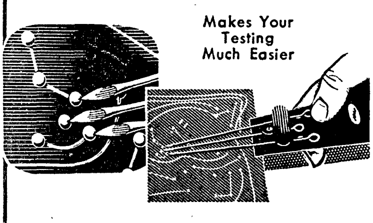


Model 245

MODEL 240 CIRCUIT TESTER

In-circuit semiconductor tester utilizes a revolutionary principle in transistor test equipment which permits transistor testing with no previous knowledge of transistor type or lead configuration. You cannot damage the transistor under test—unit is fully automatic. The test set automatically applies the proper voltages to the appropriate leads after determining and adjusting for the correct voltages for silicon or germanium transistor types completely by itself. Checks transistors out-of-circuit, or in-circuit with shunts as low as 250 ohms (germanium) or 470 ohms (silicon), base to emitter. Absolutely no knobs to adjust, no potentiometers to turn and no calibration to make. Results immediately indicated by go, no-go and fault indicating lights. Accurately checks for and indicates gain, shorts and opens in your transistors. Test virtually every type of transistor including power, switching, small signal, junction, alloy, point contact and military types. With probe. 7¾x5½x6". 110-120 v., 60 cycle AC. Wt., 18 lbs.

51 D 5008 T..............**425.00**



MODEL 242 PROBE

Makes possible one-hand testing. Features three contacts which can be quickly adjusted to the exact contact configuration. Shpg. wt., 1 lb.

51 D 5011................**29.50**

MODEL 259 TESTER

In-circuit semiconductor tester designed to fill a requirement for testing semiconductors in-circuit with simplicity and complete safety. Measures both low- and high-power transistors either in- or out-of-circuit for 1000-cycle Beta (h_{fe}) within a range of 1 to 1000 and transconductance (Gm) to 10,000 micromhos. It will also measure the resistance appearing between the electrodes of transistors and F.E.T.'s. Measures the reverse leakage of diodes, rectifiers and F.E.T.'s either in- or out-of-circuit. Automatic Beta Calibration Circuit sets collector current of transistor. Battery operated (included). 7½x8½x10". With test leads. Wt., 10 lbs.

51 D 5027 T..............**280.00**

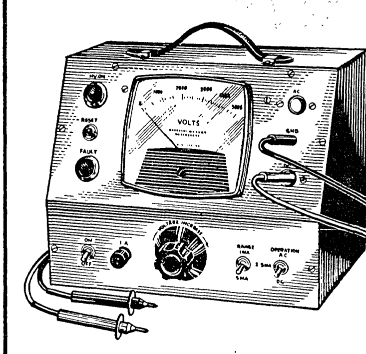
MODEL 245 TESTER

Extremely versatile transistor and diode tester—provides in-circuit or out-of-circuit tests. Measures Beta (h_{fe}) of transistors with as low as 50 ohms emitter-to-base circuit loading. Beta range of 1 to 1000 with ±10% accuracy. Also measures resistance across the emitter-to-base; collector-to-base, and collector-to-emitter. Measurement is absolute—resistance is displayed on meter in ohms. Completely safe—can't damage semiconductors under test. Power output limited to .25 microwatts. In addition to Beta tests, measures I_{cbo} of transistors and I_r of diodes out-of-circuit; checks shorts and opens of diodes and rectifiers in-circuit with circuit loading as low as 20 ohms. Readings are displayed on a large 6" taut-band meter. Powered by type C batteries and housed in high impact plastic case. Shpg. wt., 5 lbs.

51 D 5007 T..............**175.00**

51 D 5016. Model 246 In-Circuit Probe. 3 contacts permit using Model 245 and 259 Semiconductor Testers to check transistors with one-hand.......**29.50**

MILWAUKEE ELECTRONIC INSULATION TESTERS



MODEL ME-5KVAD AC/DC POTENTIAL

- Non-Destructive—Safety Design
- 0-5000 Volts AC and DC Adjustable
- Extremely Flexible for Testing

Extremely flexible in use and completely safe in operation. High potential insulation tester provides both AC and DC output voltages, continuously variable from 0 to 5000 v. Non-destructive—trip circuit instantly de-energizes high voltage transformer when leakage current exceeds preset limits. Current trip-out is adjustable in three ranges with adjustment tolerance ±10%. Highest sensitivity range, up to 1 ma. Maximum current, AC or DC, 5 ma. AC or DC test voltage selected by means of front panel jack. AC and DC voltages not to be used simultaneously. Large 4" meter reads RMS voltage applied (±3%). "HV On" and "Fault" lights plus reset button are provided. Safety features include: grounded metal case; high leakage transformer to limit max current; one side of HV grounded; fused primary; 3-wire cord and plug. In convenient sloping panel case with carrying handle. Fuse easily accessible on front panel for inspection or replacement. With 6' leads. For operation from 115 v., 50-60 cycle AC. 8¼x8¾x10½". Shpg. wt., 25 lbs.

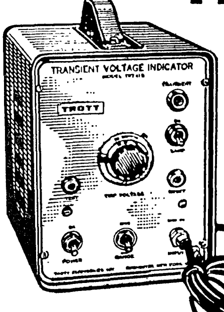
51 D 5001 U.................**260.00**

ME-5KV—AC POTENTIAL

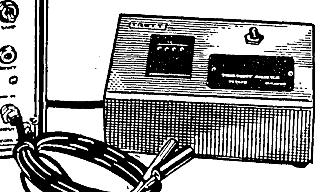
Similar to Model ME-5KVAD listed above but provides only AC potential. Excellent for lab research and production line use wherever accurate AC potential is required. Maximum leakage current 10 milliamps; low sensitivity, to 10 milliamps. Size, 8¼x8¾x10½". Supplied complete with 6-ft. leads for 115 v., 50-60 cycle AC.

51 D 5003 U. Shpg. wt., 19 lbs. ..**210.00**

TROTT TR741B TRANSIENT VOLTAGE INDICATOR



- 0-2000 Volt Sensitivity
- Repeatability 0.25%
- Portable, Battery-Operated
- Detects 0.5 μsec Transients



Transistorized, battery-operated device for sensing and indicating the presence of voltage transients in electronic circuitry. Detects transients as short as 0.5 μsec. Adjustable, direct-reading multiturn control for any trip amplitude—0 to 2000 volts. Additional 0-200 volt range offers expanded scale for low voltage tests. Zener regulation and unijunction firing circuit permit 0.25% repeatability. Once tripped, indicator lamp remains on until reset. Also provides 22½ volts for external counter trip. Accuracy is ±2% of full scale. Input impedance: 1 meg shunted by 5 pf. Gray hammertone portable case, Size, 8x6½x8". Supplied complete with two 22½-volt "B" batteries, two 4-foot test leads. Shpg. wt., 7 lbs.

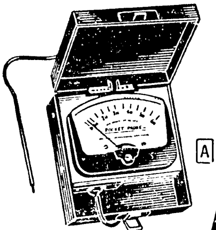
51 D 9792 T......................................**195.00**

MODEL TR741EC1 COUNTER

For use with above voltage indicator. Counts transient pulses up to 9999. Resets indicator unit after each pulse. Up to 10 counts per second. 4½x7¼x4½". Supplied complete with 22½-volt battery, plus an 18-inch cable and plug. Shpg. wt., 3 lbs.

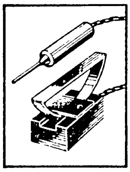
51 D 9793...**95.00**

Voltmeters and VOM's, Pyrometers

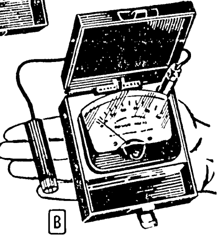


ELECTRONIC DEVELOPMENT LABS

[A]



Probes



[B]

[A] MODEL AW PYROMETER

Rugged thermocouple-actuated portable meter for measuring temperature of ovens, ranges, other appliances, furnaces. etc. Sensing element is a small beaded weld at the end of a 48″ thermocouple wire. Accuracy ±1%. Easy-to-read meter. Temperature range, 50-600°F. Includes copper error and room temperature compensation. Permamently attached needle probe. Size: 5¼x4¼x2″. Shpg. wt., 2 lbs.

51 D 9900.................... **47.95**

[B] MODEL MP PYROMETER

Medium-resistance thermocouple activated pyrometers with copper error compensation (cold junction compensation is in module). Highly accurate, ±1% from 50-600°F. Features an extremely fast-acting surface thermocouple, plus automatic temperature compensation and thermistor to guarantee accuracy. Size, 5¼x4¼x2″. Supplied complete with 24″ plug-in lead and probe for measuring temperature of flat or semi-flat surfaces. Shpg. wt., 3 lbs.

51 D 9895.................... **64.75**

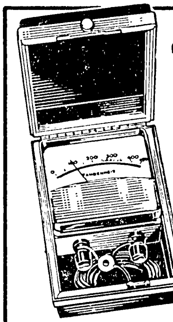
51 D 9901. As above, but 50-400°F.. **64.75**

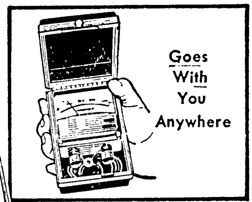
51 D 9902. As above, but 0-800°F... **64.75**

51 D 9903. Needle Probe. Stainless steel, 1x.059″ diameter.................. **18.25**

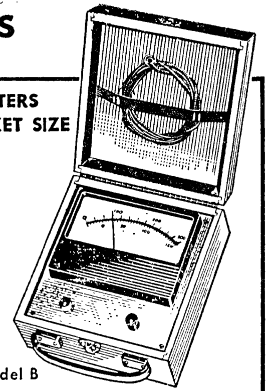
51 D 9904. Roller Contact Probe. For pipes, curved surfaces, from 1 to 20″ dia. Stainless steel contactor................. **18.25**

api PORTABLE PYROMETERS STANDARD AND POCKET SIZE





Model D-1



Model B

MODEL D-1 PYROMETER

- Carry It Right in Your Pocket for On-the-Go Portability
- Tough Vinyl-Covered Case

Low-cost pocket size medium-resistance thermocouple-actuated pyrometers. Dual-scale calibrated in degrees Fahrenheit and degrees Centigrade. Designed for checking laboratory ovens, oil baths, appliances, refrigerators, air conditioners, solder pots, furnaces and many other similar items which require quick, accurate measurements. Features Taut-Band frictionless meter movement which is highly resistant to shock, responds to smallest input, and gives near-perfect repeatability. Meter has mirrored scale for accurate readings, bimetal cold junction correction and copper error compensation. Tough vinyl-covered case has aluminum trim for protection plus pushbutton latch. Pocket size pyrometers are rugged enougn to be carried in the pocket for true "on-the-go" portability. Really compact, measures just 5½x3¾″. Supplied complete with 3-foot Chromel-Constantan Thermocouple. Listed in the most sensitive ranges—see table below. Shpg. wt., 1 lb.

Stock No.	Thermocouple Type	Temp. Range F°	Temp. Range C°	EA.
51 D 9905	CR/c	—100-+600	—70-+310	37.50
51 D 9906	CR/c	0-300	0-150	37.50
51 D 9907	CR/c	0-500	0-260	37.50
51 D 9908	CR/c	0-750	0-400	37.50
51 D 9909	CR/c	0-1000	0-500	37.50

MODEL B PYROMETER

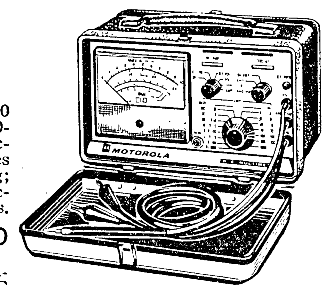
- Rugged Taut Band Meter
- Dual Scale Reads F° and C°
- Copper Error Compensation

Rugged thermocouple-actuated portable meters for measuring temperature of ovens, ranges, refrigerators, high-temperature appliances, solder pots, furnaces etc. Taut-band meter has no pivot friction allowing for truer readings and response from extremely small signals. Taut-band meters are much more resistant to damage from shock and vibration than conventional pivot-and-jewel design. Dual-calibrated scale shows both degrees Fahrenheit and degrees Centigrade. Meter has phenolic case, sealed glass window, easy-to-read 5″ mirror scale and knife-edge pointer. Supplied complete with strong lightweight instrument case with 5 foot Iron-Constantan (I/C), Chromel-Constantan (C®/C), or Chrome-Alumel (C/A) thermocouple probe as indicated in table, below. Case size, 8½x6½″. Shpg. wt., 3½ lbs.

Stock No.	Thermo-Couple	Temp. Range F°	Temp. Range C°	EACH
51 D 9910	C®/C	—100-+600	−70-+310	54.65
51 D 9669	I/C	0-300	0-150	51.65
51 D 9670	I/C	0-500	0-260	49.65
51 D 9671	I/C	0-750	0-400	54.65
51 D 9672	I/C	0-1000	0-500	54.65
51 D 9673	C/A	0-1500	0-800	52.75
51 D 9911	C/A	0-2000	0-1100	51.75
51 D 9674	C/A	0-2500	0-1370	51.75

MOTOROLA VOM's AND VOLTMETERS

S1052B BATTERY-OPERATED PORTABLE DC VOM

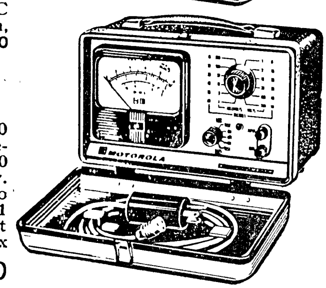


Lightweight, portable electronic DC VOM with laboratory precision is ideally suited for design, production engineering and field maintenance. Full scale sensitivity of 100 mv assures extremely accurate reading in the 10-30 mv range—especially advantageous in low-voltage transistor circuit measurements. Large, taut-band meter with 3:1 scales. Silicon transistors for reliability, accuracy of measurement, ruggedness, high input resistance and exceptional stability. Power consumption is so low that battery life is over 600 hours. Voltage Ranges (full scale): 100 and 300 mv., 0-1-2-10-30-100-300-1000 v.; Accuracy—±3% of full scale; Input Impedance—11 megs (10 megs on 100 mv. range). DC Current (full scale): 0-1-3-10-30-100-300 μa., 0-1-3-10-30-100-300 ma; Accuracy—±5% of full scale. Resistance Ranges (center scale): 10-100-1000-10K-100K-1 meg; Measurement Range—0.2 ohms to 50 megs; Accuracy—±5% at center scale. With batteries. 6½x10¼x5¾″. Shpg. wt., 9¼ lbs.

51 D 9708 T.................... **250.00**

51 D 9709 T. Model S1063A. As above, with battery plus 117 v. or 230 v., 50-3000 cycle AC operation. Complete with power source switch, cord, 3-prong plug. Shpg. wt., 9¾ lbs... **285.00**

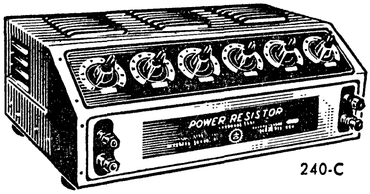
S1051C BATTERY-OPERATED PORTABLE AC VOLTMETER

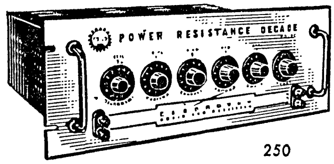


Fully transistorized, excellent sensitivity, high input resistance and 3% AC voltage accuracy are just a few of the many features designed to meet a wide variety of applications both in tube and transistor circuits. Many measurements previously impossible with typical vacuum tube instruments may now be easily and accurately obtained. Low current drain—operates over 400 hours. Voltage range (full scale); 0-1-3-10-30-300 mv.; 0-1-3-10-30-100-300 v.; plus db scale of —72 db to +52 db, referred to 1 mw in 600 ohms. Accuracy: within ±3% of full scale between 20 cp and 1 mc. Input Impedance: 10 megs shunted by 15 mmf on the 1 to 300 v. ranges; 1 meg shunted by 30 mmf on the 1 to 300 mv. ranges. Frequency response to 1 megacycle with 3% accuracy; low shunt capacitance. With battery. Size, 6½x10¼x5¾″. Shpg. wt., 7 lbs.

51 D 5240 T.................... **225.00**

CLAROSTAT RESISTOR DECADE BOXES





MODEL 240-C BENCH TYPE RESISTOR DECADES

Allows selection of any value from 1 to 999,999 ohms in 1-ohm increments. Six dials read Rx1, Rx10, Rx100, Rx1K, Rx10K and Rx100K for quick setting and direct readout. Dissipates up to 225 w. maximum, 1000 v. DC, or 660 v. AC per decade. All have 2% tolerance except Rx1 decade, 5%. Maximum current ratings range from 5 amps for Rx1 to 5 ma for Rx100K. Rugged, long-lasting Clarostat "Greenohm" wire-wound power resistors used throughout. Two sets of terminals accept any of the following: banana plugs, spade lugs or plain wire connections. Measures 8½x13x5⅜". Shpg. wt., 13¾ lbs.

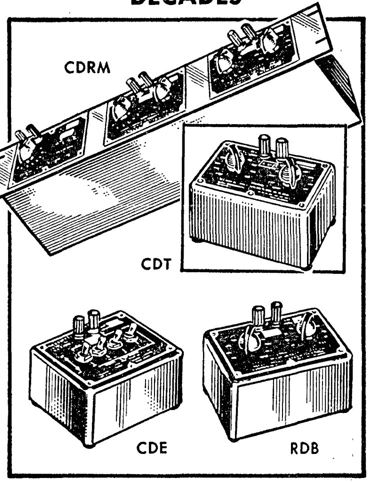
51 D 5250.................... **110.00**

MODEL 250 RACK-PANEL TYPE RESISTOR DECADES

Electrically identical to 240-C, but mechanically rearranged to fit std. 19" relay rack panel. Size, 13¼x19x7". For use in systems or other non-bench applications. Wt., 24¼ lbs.

51 D 5251 U.................. **150.00**

CORNELL-DUBILIER CAPACITOR AND RESISTOR DECADES



CAPACITOR DECADES

Rated at 600 volts DC, and 220 volts AC. Provide a reliable and accurate source of selected, precision values for breadboarding and substitution. Three different boxes, CDA-2, CDB-3 and CDC-3, can be easily paralleled to provide capacitances of 0 to 1.111 in 0.0001-mfd steps. CDA-2 has a mica dielectric, others are oil-impregnated. CDT-5/10 is polarized tantalum foil, provides an extended range of values. Last figure in Mfr's Type No. indicates ±% tol. Each has chart giving exact value for all scale markings. *Indicates Aluminum Electrolytic Capacitor substitution box. 3$^{13}/_{16}$x5x3⅝". 2 lbs.

Stock No.	Mfr's Type	Range Mfd	Mfd/ Step	EACH
51 D 5244	CDA-2	.0001-.011	.0001	14.95
51 D 9103	CDB-3	.01-1.1	.01	16.35
51 D 9104	CDC-3	1.0-10	1.0	27.25
51 D 9769	CDE*	10-150	10.0	14.20
51 D 9053	CDT-5/10	10-1100	10.0	99.50

CDRM RACK-PANEL CAPACITOR DECADES

A combination capacitor decade unit consisting of CDA-2, CDB-3, and CDC-3 (described above) mounted on durable 3½x19x4" rack panel. Shpg. wt., 7¼ lbs.

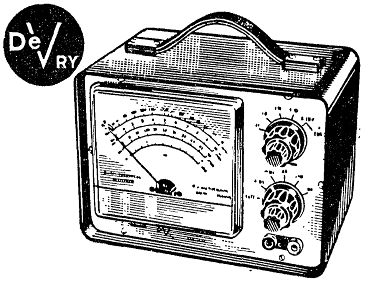
51 D 5246 X.................... **75.65**

RESISTOR DECADES

Each permits selection of 110 values. Units of resistance may be selected from the direct-reading panel switch scale. Series connected, they cover from 1 to 1,111,110 ohms in 1-ohm steps. Have 2 rotary switches with 11 positions. RDA and RDB use wire-wound resistors; RDC uses carbon resistors. Size, 3$^{13}/_{16}$x5x3⅝". Shpg. wt., 1¾ lbs.

Stock No.	Mfr's Type	Range Ohms	Ohms/ Step	EACH
51 D 9123	RDA	1-110	1	15.35
51 D 9124	RDB	100-11,000	100	15.65
51 D 9125	RDC	10,000-1,100,000	10,000	15.65

See pages 512-518 for the complete listings and specifications of Allied's own top-value Knight Test Equipment.



DEVRY TRANSISTORIZED MULTIMETER

- With Long-Lasting NiCd Battery and Built-In Battery Charger
- Usable from 10 to 500,000 cps

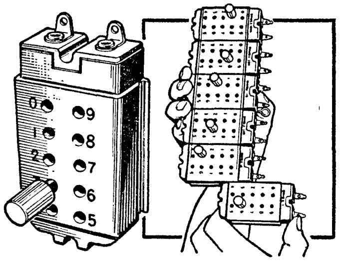
Combines the high impedance of a VTVM with the current measuring ability and freedom from AC power of a VOM. Uses 1% precision multiplier resistors for an overall accuracy of ±3%. Ranges, with input resistances in parentheses: DC volts, 0-1 (.92 meg), 0-10 (10.1 meg), 0-100 (9.19 meg), 0-1000 (9.1 meg). AC volts, 0-5 (650K), 0-50 (1.75 meg), 0-500 (1.85 meg), 0-1000 (1.85 meg). Resistance (ohms), 0-10K-100K-1 meg-10 meg. DC current, 0-50 μa-500 μa-5 ma-50 ma. Reads 0-500 ma and 0-5 amps with accessory shunts (below). Amplifier circuit designed to make meter burnout impossible. Has zero adjust. Current drain only 6 ma. Requires 115 VAC for charger. Size: 7¾x5½x4½". Wt., 6 lbs.

51 D 5217.................... **135.00**

51 D 5216. As above, but without charger and with "D" cells instead of NiCd . **89.50**

51 D 9766. Shunt. 0-500 ma range..... **4.00**

51 D 9765. Shunt. 0-5 amp range...... **4.00**

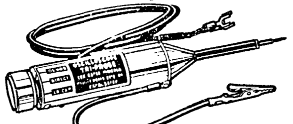


CLAROSTAT DECADE BOXES

- Provide Precision Resistance Values for a Wide Variety of Applications
- Easy-to-Join Tongue and Groove Units

Use Claro-Decs wherever accurate steps of resistance values between 0.1 ohms and 900K are needed. Each unit is a network of five 1% metal film-resistors (wirewound in Models 260-1, 260-2, plastic coated in others) graduated in value. The desired resistance value is obtained by simply inserting a banana plug (included) into the hole by the proper decade digit. Boxes can be side-stacked, mounted on breadboards, connected by wire jumper, etc. Values, resistance multiplier clearly marked. Size, 1½x1¾x3½". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Range Ohms	Ohms/ Step	EACH
51 D 9054	260-1	.1-.9	.1	3.95
51 D 9055	260-2	1-9	1	3.95
51 D 9056	260-3	10-90	10	3.95
51 D 9057	260-4	100-900	100	3.95
51 D 9058	260-5	1K-9K	1K	3.95
51 D 9059	260-6	10K-90K	10K	3.95
51 D 9060	260-7	100K-900K	100K	3.95



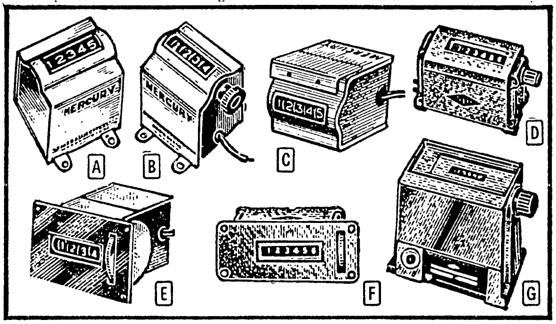
OSCILLOSCOPE TRI-PROBE By FAR HILLS DESIGN

- Demodulation/Direct/Low-Cap Probe
- Operating Range, 0-250 Megacycles
- Adjusts for Various Input Ohms

This single knob-operated probe ends bothersome switching. Just dial the section you need: Demodulation—traces waveforms in RF and IF stages; Direct—tests low frequency and low impedance circuits. Low-Capacity—traces high imp. circuits, reduces distortion. Needle-point pierces light insulation for easy testing. With leads. 12x3x3¼". Shpg. wt., 1 lb.

51 D 9061.................... **29.95**

ITT GENERAL CONTROLS INC. COUNTERS



ELECTRICAL COUNTERS

- Reset and Non-Reset Types
- For Industrial Applications
- Count Life to 200 Million
- Up to 1000 Counts Per Minute

All counters for use in 60 cycle operation. Available in either base or panel mount types.

PREFIX "CE4." For coin equipment and moderate-duty industrial applications. Minimum make-time 0.04 seconds, break time 0.06 seconds. Rated at 600 cpm. Enclosed in tamper-proof case. Reset units count to 4 digits, non-reset to 5. Shpg. wt., 1 lb.

PREFIX "CE6." For general industrial applications. Minimum make and break time .03 seconds. Enclosed in dust-resistant housing. Rated at 1000 cpm, with 50-million count life. Continuous-duty coils. Counts to 6 digits. Shpg. wt., 1 lb.

PREFIX "CE8." Heavy-duty, with 200-million count life. For drill and punch presses, etc. Minimum make and break time is 0.03 seconds. Die-cast aluminum housing. Dustproof and tamperproof. Rated at 1000 cps. Continuous duty coils. Shpg. wt., 5 lbs.

SIZE CHART

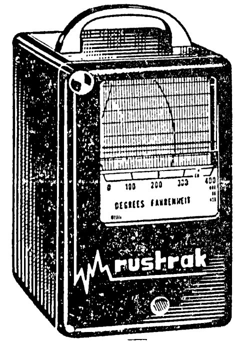
Fig.	Size	Mount	Mtg. Centers
A & B	2 31/64x1 23/32x1 9/16"	Base	1 1/8x1 15/16"
C	2 1/2x1 21/32x3 1/2"	Base	3 15/64x1 23/64"
D	2 13/16x1 7/8x4 7/16"	Panel	4 1/16x1 1/2"
E	1 15/16x2 13/16x2 27/64"	Panel	1 9/16x2 7/16"
F	1 9/16x1 23/32x2 27/64"	Panel	13/16x4 1/64"
G	3 1/8x5 5/8x4 11/16"	Base	5 1/4x2 1/2"

RESET TYPES

Stock No.	Type No.	Fig.	AC Volts	EACH 1-9	10-24	25-49	50-99	100-249
51 D 5901	CE40BS401	E	24	15.95	13.56	12.76	11.96	11.17
51 D 5902	CE40BS402	E	115	15.95	13.56	12.76	11.96	11.17
51 D 5903	CE40AS402	B	115	15.25	12.96	12.20	11.44	10.67
51 D 5904	CE600AS601	C	24	18.75	15.94	15.00	14.63	13.13
51 D 5905	CE600AS602	C	115	18.75	15.94	15.00	14.63	13.13
51 D 5906	CE600BS601	D	24	20.35	17.30	16.28	15.26	14.25
51 D 5907	CE600BS602	D	115	20.35	17.30	16.28	15.26	14.25
51 D 5908	CE800CS602	G	115	50.00	42.50	40.00	37.50	35.00
NON-RESET TYPES								
51 D 5909	CE40BN502	F	115	8.35	7.10	6.68	6.26	5.85
51 D 5910	CE40AN502	A	115	7.75	6.59	6.20	5.81	5.43

rustrak

NEW MODEL 122 RECORDING PYROMETER

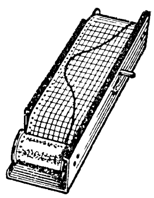


- 4 Ranges to 2400° F
- Pushbutton Calibration
- Remote Operation
- Accuracy to 2% of Span
- Completely Self-Contained

Self-contained system supplied with sensors ready to record temperatures up to 2400° F. Offers an economical and simple solution for a wide range of industrial temperature recording applications. Records in 4 ranges: 0-400° F and 0-1200° F with a Type J (I/C) thermocouple; 0-800° F and 0-2400° F with a Type K (C/A) thermocouple. Taut-band suspension galvanometer assures accuracy to ±2% of span. Cold junction compensation for both types J and K thermocouples over 65° F ambient temperature range. Self-contained pushbutton calibration eliminates need for external precision resistors and/or millivolt standards. Complete with Types J and K thermocouples. For 115 or 220 volts, 50-60-cycle AC, 12 or 24 VDC. 5 5/8x3 5/8x5 7/8". Shpg. wt., 4 lbs.

51 D 9037 T....................................165.00

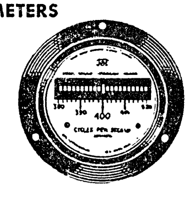
CHART VIEWER MODEL 168



Allows 12 full inches of chart recording to be read at one time. Rapid viewing of complete 63 ft. roll in less than a minute. Precision clutch mechanism permits clockwise crank motion for either direction. Accommodates Rustrak or similar chart paper to 2 9/16" wide. Weighted construction, non-skid pads. 14x3 1/2x2 5/8". 3 1/2 lbs.

51 D 9036......................34.50

J-B-T REED FREQUENCY METERS



Unique, patented vibrating reed design. Extremely accurate; use 9 reeds. Accuracy is ±0.3% at 77°F. Not affected by poor wave form, external magnetic disturbances, or voltage fluctuations. Have no moving parts to wear out or lose calibration. Flush panel, MIL-M-6A mounting. Flange, 3 1/2"; body diameter, 2 11/16"; depth, 2 23/32". Both models have molded cases. For operation from 110-130 volts.

- Permanently Accurate Within ±0.3%
- Rugged Construction
- Standard Mounting
- Patented Design

MODEL 33-FX. Range: 56-64 cycles. Frequency in 1-cycle steps. 1 watt; 110 ohms-per-volt. Shpg. wt., 12 oz.

52 D 6694........................27.25

MODEL 34-FX. Range: 380-420 cycles. Frequency in 5-cycle steps. 1.5 watts; 90 ohms-per-volt. Shpg. wt., 12 oz.

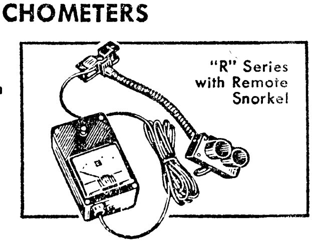
52 D 6685........................34.10

PIONEER SINGLE AND DUAL-RANGE PHOTO TACHOMETERS

COMPLETELY PORTABLE TRANSISTORIZED TACHOMETERS

Self-contained—No Wires or Mechanical Connections

Measure Rpm of Rotating Machinery Without Any Direct Connection



MODEL 36 DUAL-RANGE TACH. Measures 0-2400 and 0-12,000 rpm with accuracy of ±2%, full scale. Mark rotating or reciprocating machinery with chalk or grease pencil. Cadmium-sulfide photocell counts pulses, rpm shows on direct-reading transistorized meter. No electrical or mechanical connection to device being measured. Accuracy can be improved with extra markers. With two 1.4 v. and one 5.6 v. mercury batteries. 7 3/4x2 5/8x3 1/2". 2 lbs.

51 D 5629.....................................150.00

MODEL 12. Similar to Model 36 above, but has single 0-12,000 rpm scale. Shpg. wt., 2 lbs.

51 D 5630...99.50

MODEL 36R SNORKEL. Same features as Model 36 but with remote extension. Permits accurate RPM measurements with reading unit up to 50-feet away. Necessary for counting rpm in dangerous or inaccessible areas. No mechanical connections between units. Has magnetized mount; can be placed quickly and securely on any metal surface. Complete system includes tachometer, swivel, 12-ft. cord, and mercury batteries. Shpg. wt., 6 lbs.

51 D 5633.......................................200.00

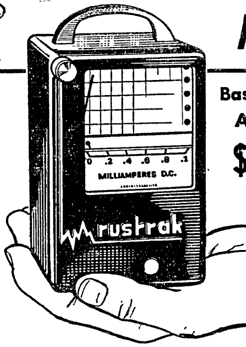
MODEL 24. All the features of Model 36 but single range. Measures 0-2400 rpm. Powered by two 1.4 v. and one 5.6 v. mercury batteries. 7 3/4x2 5/8x3 1/2". Shpg. wt., 2 lbs.

51 D 5628.......................................99.50

MODEL 24R SNORKEL. Same range and accuracy as Model 24 but with remote extension. Allows rpm measurements with reading unit up to 50-ft. away. Magnetic mount. With tachometer, swivel, 12-ft. cord, mercury batteries. Shpg. wt., 6 lbs.

51 D 5632 T....................................150.00

rustrak® Miniature Chart Recorders



- Easy-to-Use Inkless Stylus
- Chart Speed Easily Changed

Professional recorders that provide a continuous, distortion-free, rectilinear chart on pressure sensitive paper—give a high resolution line with no need for ink or heated stylus. May be used from sub-zero temperatures all the way to 160° F; from sea level to altitudes of up to 100,000 feet. Operation unaffected by conditions of high humidity. Provides accurate and economical measurements.

- Portable or Panel Mount

Basic Recorder As Low As $83.50

LAB-GRADE PORTABLE AND PANEL RECORDERS

Standard units include a synchronous motor that operates from 115 volts, 60-cycle AC for a chart speed of 1" per hour, 31 days continuous recording per chart roll. Accuracy is 2% on full scale (1% on Special Order) for DC units, 3% of full scale for AC units between 40 and 10,000 cps. Response time, 1 second max. Portable, with panel mounting hardware available. (See Accessories below). Optional access window permits making notes on charts. Other speeds are available through the use of interchangeable gear trains—see listings under RECORDER ACCESSORIES at the bottom of this page. Size: 5⅝x3⅝x4⅛". *Indicates panel mount only. Shpg. wt. 5 lbs.

SINGLE-CHANNEL CHART RECORDERS

RANGE	GLASS FRONT Stock No.	GLASS FRONT EACH	ACCESS WINDOW Stock No.	ACCESS WINDOW EACH
DC MILLIAMMETER RECORDERS				
0-1 ma	51 D 9314	83.50	51 D 9319	88.50
0-1 ma*	51 D 9315	83.50	51 D 9305	88.50
.5-0-.5 ma	51 D 9321	88.00	51 D 9732	93.00
0-5 ma	51 D 9307	88.00	51 D 9733	93.00
0-10 ma	51 D 9308	88.00	....	....
0-50 ma	51 D 9312	88.00	51 D 9734	93.00
0-100 ma	51 D 9313	88.00	....	....

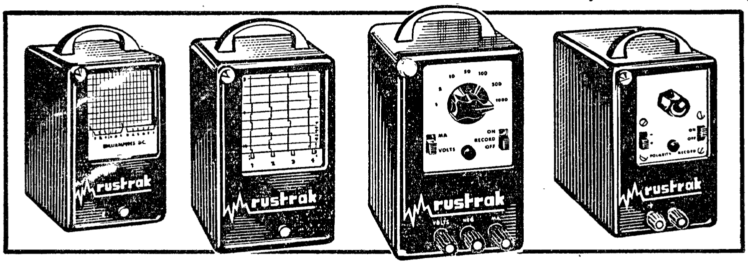
DC MICROAMMETER RECORDERS

Microammeter recorders provide accurate, continuous monitoring of DC current in ranges of 0-10, or 5-0-5 microamperes. 5700-ohm internal resistance with taut band zero left galvanometer movement assures dependability and accuracy. For DC voltages, recorder sensitivity is 100,000 ohms per volt. Recorder writing speed is not more than one strike per second.

RANGE	GLASS FRONT Stock No.	GLASS FRONT EACH	ACCESS WINDOW Stock No.	ACCESS WINDOW EACH
0-10 μa	51 D 9712	117.50	51 D 9714	122.50
5-0-5 μa	51 D 9713	125.50	51 D 9715	130.50
0-50 μa	51 D 5182	98.50	51 D 9738	103.50
0-100 μa	51 D 9270	93.50	51 D 9271	98.50
0-200 μa	51 D 9301	89.50	51 D 9739	94.50

RANGE	GLASS FRONT Stock No.	GLASS FRONT EACH	ACCESS WINDOW Stock No.	ACCESS WINDOW EACH
DC VOLTMETER RECORDERS				
0-15 v.	51 D 9297	88.00	51 D 9743	93.00
0-30 v.	51 D 5183	88.00	51 D 9744	93.00
0-50 v.	51 D 5184	88.00	....	......
0-150 v.	51 D 9298	88.00	51 D 9299	93.00
0-500 v.	51 D 9300	92.00	51 D 9746	97.00
DC MILLIVOLTMETER RECORDERS				
0-100 mv	51 D 9296	83.50	51 D 9736	88.50
0-10 mv	51 D 9740	94.50	51 D 9737	99.50
AC VOLTMETER RECORDERS				
0-150 v.	51 D 9323	92.95	51 D 9272	97.95
70-135 v.	51 D 9269	96.95	51 D 9273	101.95
70-135/140-270/and 280-540 v.	51 D 9274	104.95	51 D 9275	109.95
AC AMMETER RECORDERS				
0-5 amps	51 D 9750	112.00	51 D 9747	117.00
0-200 amps w/clamp-on transducer	....	....	51 D 9748	137.50

MULTI-CHANNEL RECORDERS, AMPLIFIERS, ACCESSORIES



Dual-Channel Recorder — 4-Channel Event Recorder — Multi-Ranger — Amplifier

DC AMPLIFIERS AND MULTI-RANGER

For recorders on this page. DC amplifiers isolate recorder without putting an additional load on the signal source—extend sensitivity without introducing additional error. Multi-rangers consist of multipliers and shunts with a selector switch and produce extra ranges when used with a standard 1-ma recorder. Amplifiers and recorders operate on 110-125 volts, 50-60 cycle AC, and have a 5-volt maximum output at 5000 ohms impedance.

Stock No.	Description	EACH
51 D 5181	Model 98; 0-10-100-500-mv., 1-10 v., DC or 0-1-10 μa	114.50
51 D 5158	Model 114; input res., 100 K: sens., 9 mv variable	115.00
51 D 5178	111-A Multi-Ranger, increases range of 1 ma recorder, 0-1-5-10-50-100-500-1000 v./ma	49.50

TRANSISTORIZED DC AMPLIFIER

MODEL 157A. Transistorized, chopper modulated DC amplifier for use with any 1 ma recorder. All circuits are solid state with the exception of the 10,000 hour chopper. Sensitivity, 1-100 mv with continuous adjustment. 100K input resistance. Accuracy, 2.5%. Operates on 115-volt, 60-cycle AC. 5⅝x3⅝x7½". Wt., 3 lbs.
51 D 9716T....................160.00
51 D 9717T. Model 157B. Same as above, but with offset 5X scale.......... 165.00

MULTI-CHANNEL RECORDERS

DUAL-CHANNEL RECORDERS. Same as recorders above, but with two individual galvanometers for accurate, simultaneous readings, from separate signal sources. Excellent for integrating comparison charts. Cast aluminum case allows rugged use.

Stock No.	Description	EACH
51 D 5166	0-1 ma DC; 0-1 ma DC	130.50
51 D 5167	0-100 μa DC; 0-100 μa DC	144.50
51 D 5169	0-5A, AC; 100-140, 200-280, 400-560 v., AC	159.50

4-CHANNEL EVENT RECORDER. Simultaneously records up to 4 ON-OFF operations. Requires 24 volts DC input power for each separate source. Less amplifier below.
51 D 5170........................92.00

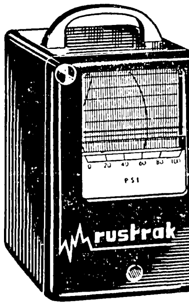
POWER SUPPLY. Supplies 24 volts DC from 110-125 volt, 60-cycle AC source for actuating circuits for recorder above from standard power sources.
51 D 5171........................15.00

AMPLIFIER. Actuates recorder by magnetic, load change, voice transducers, etc.
51 D 9753........................79.50

ACCESSORIES FOR RUSTRAK CHART RECORDERS

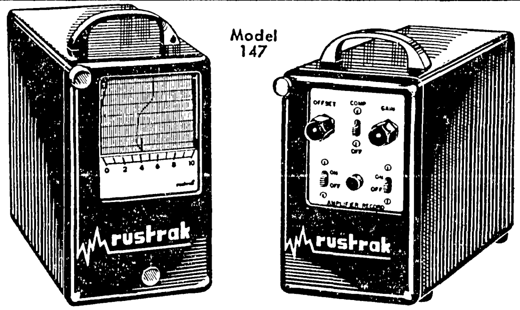
Stock No.	Description	EACH
51 D 9325 C	Extra gear trains. In per hr.: ¼, ½, 1, 2, 3, 6, 10, 12, 15, 30, 60. Specify speed.	5.00
51 D 9276	2-unit rack mtg. panel	15.00
51 D 9277	3-unit rack mtg. panel	15.00
51 D 9278	4-unit rack mtg. panel	15.00

Stock No.	Description	EACH
51 D 9326	63' chart paper rolls, Style A 50 divisions	2.25
51 D 9327	Style B, 75 divisions	2.25
51 D 9279	Style C, 65 divisions	2.25
51 D 5185	Style D, 20 div. (dual chan.)	2.25
51 D 5186	Style E, 1 div. (event rec.)	2.25
51 D 5149	Style F, 15 div. (dual chan.)	2.25

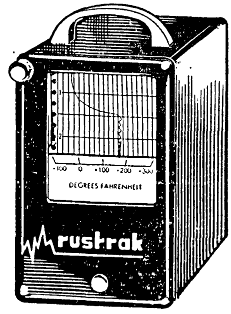


Model 162

Model 147



Recorder Amplifier



Model 144

PRESSURE RECORDER

MODEL 162. Single-channel recorder designed to provide accurate continuous monitoring of gas and liquid pressures. Utilizes C-type Bourdon tube made from seamless Grade A phosphor bronze. Designed for use primarily with non-corrosive media. Available with ranges other than listed below, or zero suppression up to 50% on special order. Accuracy, ±2%. ¼" male thread NPT. Overall size: 5⅝x3⅝x4⅛". Operates on 115-volt, 60-cycle AC. Shpg. wt. 4 lbs.

51 D 9027. 0-50 psi 89.50
51 D 9028. 0-100 psi 89.50
51 D 9029. 0-200 psi 89.50

AMPLIFIED TEMPERATURE RECORDER

MODEL 147. Amplified recording system includes a stable, chopper modulated DC amplifier with selectable automatic temperature compensator and matching recorder. Suitable for either laboratory or industrial measurements of temperature with thermocouples, or for low DC voltages with strain gauges or temperature bridges. Automatic cold junction compensation with C/C, I/C, and C/A standards. Sensitivity, 2 mv max full scale. Span down to 75° F. Amplifier, 5⅝x3⅝x8"; recorder, 5⅝x3⅝x4⅛". For 115-volt, 60-cycle AC. Shpg. wt., 5 lbs.

51 D 9030T 240.00

TEMPERATURE RECORDER

MODEL 144. Self-contained temperature recorder which produces an accurate, high resolution recording of temperatures in ranges up to −100° F to +600° F. Supplied with nickel-wire resistance probe. No reference point required. Special self-checking feature; by disconnecting probe, full scale reading is given to indicate correct calibration. 5⅝x3⅝x5⅞". For 105-130 v., 60-cycle AC. Shpg. wt., 5 lbs.

51 D 5165T 0 to 300° F 185.00
51 D 5163T 0 to 500° F.. .... 185.00
51 D 5143. Surface Probe. For use with above. Wt., 3 oz. 12.00

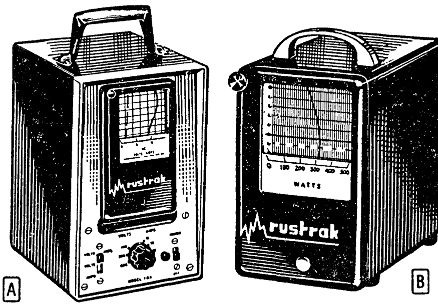
AC POWER RECORDERS

[A] MODEL 113B. Simultaneously charts both current and voltage. Available with 1-rpm motor only, with a writing speed of alternate strokes every 4 seconds. Voltage ranges: 0-150, 0-300, and 0-600 volts. Current ranges; 0-15, 0-30, 0-60, 0-150 amperes. Recording accuracy, 3% on both current and voltage scales. Overall size; 9x6x7". Clip leads and transducer attached. Operates on 105-130 volt, 60-cycle AC. Shpg. wt., 5 lbs.

51 D 9031 .... 205.00

[B] MODEL 164. Wattmeter recorder. (Hall effect—single or polyphase.) Current burden, 2.5 VA. Voltage sensitivity, 100 ohms/volt. Power factor, ±.5%. 1-phase, 1 transducer; 3-phase, 3-wire delta connection, 2 transducers. Accuracy, ±3% (full scale). Size, 5⅝x3⅝x8". Operates on 105-130 volt, 60-cycle AC. Shpg. wt., 5 lbs.

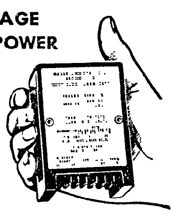
Stock No.	Input, Amp/V.	Range, Watts	Phase	EACH
51 D 9032T	5/120	0-500	1	147.50
51 D 9033T	5/240	0-1000	1	147.50
51 D 9034T	5/120	0-1000	3	195.00
51 D 9035T	5/240	0-2000	3	195.00



[A] Model 113B [B] Model 164

ENERGY PACKAGE FOR FAIL-SAFE POWER

- Hermetically Sealed Cells
- Constant Current Charger
- Large Amounts of Peak Power



Nominal output voltage, 6 VDC—units can be stacked to supply higher values of voltage and current when needed. Convert 100-135 VAC, 50-400 cps, to DC. Model 153 provides up to 500 milliampere-hours continuous output, and up to 10 amperes intermittent current (with AC off). Model 154 supplies up to 1900 milliampere-hours continuous output, and up to 20 amperes intermittent. Output voltage, ±1%. (AC on). Sizes: Model 153, 3⅞x2⅝x1¾"; Model 154, 5⁹⁄₁₆x3¹⁵⁄₁₆x2⁷⁄₁₆". Shpg. wts.: Model 153, 3 lbs., Model 154, 4 lbs.

Stock No.	Mfr's Type	EACH 1-9	10-49	50-99
51 D 9024	153	29.95	26.20	23.50
51 D 9025	154	44.95	39.20	35.05

THERMIST-O-METER

Accurately measures temperature of all types of surfaces, liquids, and gases. Sensing probes are interchangeable with no recalibration necessary. All meters have temperature scales for both °C and °F. TM1001 accepts 1 probe or junction box (see below). TM1004 accepts 4 probes or 4 junction boxes. Powered by long-lasting mercury cells. Accuracy, ±1%. Overall size: 7x5½x3". Shpg. wt., 3 lbs.

TM1001	TM1004	Range °C	Range °F
51 D 9008	51 D 9013	−50 to 0	−58 to +32
51 D 9009	51 D 9014	0 to +50	+32 to +122
51 D 9010	51 D 9015	+50 to +100	+122 to +212
51 D 9011	51 D 9016	0 to +100	+32 to +212
51 D 9012	51 D 9017	+100 to +150	+212 to +302

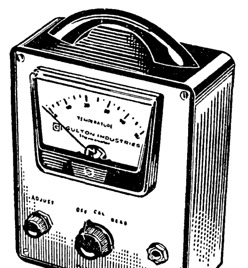
TM1001 .... Each 95.00
TM1004 .... Each 120.00

PROBES FOR ABOVE

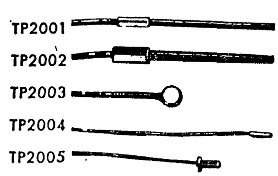
Stock No.	Type	Description	EACH
51 D 9019	TP2001	Insertion Probe	18.00
51 D 9020	TP2002	Air/Surface Probe	15.00
51 D 9021	TP2003	Surface Probe	18.00
51 D 9022	TP2004	Flexible Probe	12.00
51 D 9023	TP2005	Surface Probe	13.00

TJ3000 JUNCTION BOX. Handles 12 probes. Switch selects probe monitored. 7x5½x3".

51 D 9018 .... 45.00

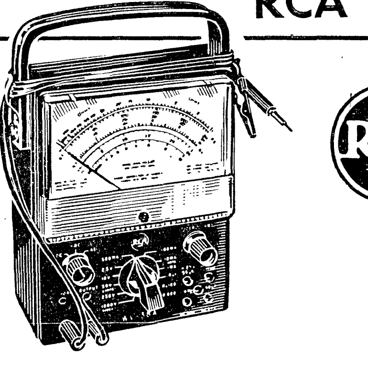


TM1001



See Pages 512-518 for Complete Listings and Specifications of Knight Test Equipment.

RCA Test Equipment, Demonstrator Kit



WV-38A ALL-PURPOSE VOM

Wired $52.00 Kit $38.00

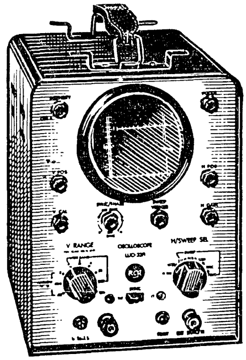
- 1 V. and 250 Mv. Ranges
- Large 5¼" Meter
- Measures Output and DB

Features 1 volt and 250 mv ranges for transistor servicing. DC ranges: 0-0.25-1-2.5-10-50-250-1000-5000, at 20,000 ohms/volt. AC ranges: 0-2.5-10-250-1000-5000, at 5000 ohms/volt. Accuracy: ±3% DC; ±5% AC. Response on 2.5-50 v. ±½ db from 10 cps to 50 kc. 3 resistance ranges from 0 to 20 meg. 8 DC current ranges: 0-50 µa, 0-1-10-100-500 ma, 0-10 amps. Reads db's from −20 to +50 in 4 ranges. DC blocking capacitor for AC output measuring. 6⅞x5¼x3⅛". With leads. Shpg. wt. 5 lbs.

21 D 4219. Factory Wired.... **52.00**

21 D 4218. Model WV-38A(K). As above, but in kit form. Wt. 5 lbs.. **38.00**

21 D 4220. Model WG-270A Case. For above. Scuff-proof. Wt. 1 lb...... **4.95**



WO-33A WIDEBAND 3" SCOPE

$139.00

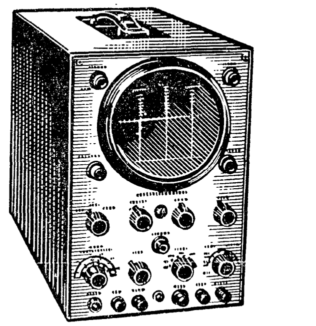
- Lightweight, Easy to Handle
- Ideal for Color TV Work
- Dual-band Response

High-gain positions of attenuator have narrow bandwidth of ±3 db, 20 cps to 150 kc. Low-gain positions of attenuator have wide bandwidth of ±3 db, 5.5 cps to 5.5 mc. Calibrator for accurate peak-to-peak measurements. Narrow-band sensitivity: .02 volt p-p/inch. (.003 volts rms.) Wideband sensitivity; 0.6 volt p-p/inch. (0.1 volt rms.) Sawtooth range, 15 cps to 75 kc. Plus or minus internal and external synchronization. 160° adjustable phase line sweep. Sync circuit locks in at frequencies as high as 4.5 mc.

Vertical input impedance, 90 mmf and 1 meg direct; 50 mmf and 1 meg at panel; 10 mmf and 10 megs in low-capacity position. Overall size: 8¾x6½x10¼". With direct/low-capacity probe. For 105-125 volt, 50 or 60 cycle AC. Shpg. wt 15 lbs.

21 D 4276 U. Factory Wired... **139.00**

21 D 4190 U. WO-33A(K). As above, but in kit form. Shpg. wt. 15 lbs.. **99.00**



WO-91B 5" WIDEBAND SCOPE

$269.00

- High Sensitivity
- Voltage Calibrator
- Direct/Low Cap Probe

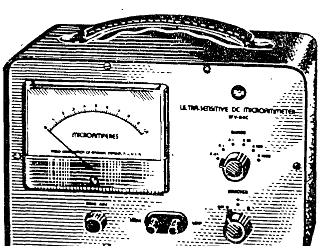
Excellent for observing colorburst signals and other color and black-and-white work. Sync separator for stable sweep lock-in on composite signals; 10 cps to 100 kc continuous sweep. Frequency-compensated attenuator; voltage calibrator; polarity reversal switch. Dual-band response: wideband ±1 db, 10 cps to 4.5 mc; narrowband, −6 db, 10 cps to 1.5 mc, or −1 db, 10 cps to 0.5 mc. Sensitivity: wideband, 0.150v p-p/inch; narrowband, 0.05 v. p-p/inch. Vert. input, 75 mmf and 1 meg direct; 11 mmf and 10 meg low-cap with WG 300-B (supplied). Access to vertical deflection plates of CRO on rear panel. 13½x9x16½". 105-125v., 50-60 cycle AC. 33 lbs.

21 D 4278 U. Factory Wired... **269.00**

21 D 4279. WG-300B Direct/Low Capacitance Probe. Shpg. wt. 1 lb........ **9.95**

21 D 4280. WG-302A Demodulator Probe. Extends range of WG-300B probe to 250 mc. Input 2.2 mmf. 1 lb....... **8.50**

SENSITIVE WV-84C DC MICROAMMETER



$110.00

- Measures Low As .0002 Microamp
- High-Sensitivity Voltmeter
- Measures High Resistances
- Battery Operated

Extremely sensitive, battery-operated, vacuum tube microammeter. Measures minute currents and voltages in electrolysis and corrosion investigations, checks current in motors and detectors. Converts to high-resistance voltmeter when used with external multiplier resistors (supplied) with an input resistance of at least 100 megohms per volt. Usable as ohmmeter to measure high resistance in the order of billions of ohms. Useful for leakage and insulation measurements.

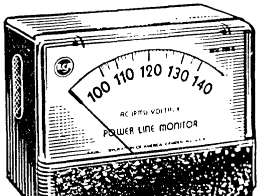
Reads from 0.0002 to 1000 microamps in 6 DC ranges. Voltage-drop at full scale, ½-volt on all ranges. Overall accuracy is ±4% of full-scale except on lowest range, which is ±5% or better. Precision meter electronically protected from burnout. With 50 and 950-megohm multipliers. Less batteries, below (requires 2 of each). Rugged case. 7½x10½x6¼". 10 lbs.

21 D 4273. Factory Wired........... **110.00**

18 D 5003. Burgess #4F 1½ v. Battery. Uses 2. Shpg. wt., 1½ lbs................. Each **1.15**

18 D 5560. Burgess #4156 22½-v. Battery. Uses 2. Shpg. wt., 1¼ lbs.............. Each **1.61**

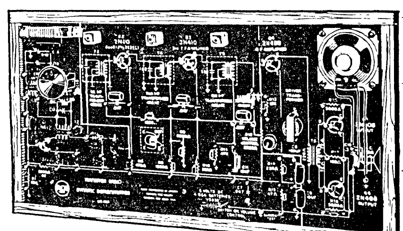
WV-120A POWER LINE MONITOR



- Accurate Expanded Scale and Large Numerals
- Measures 100-140 Volts at 25-400 Cps

Provides continuous line-voltage monitoring, without need for interrupting work to check. Expanded scale meter-movement provides high accuracy. Large numerals for easy readability. Convenient and easy to use; just plug line cord into AC outlet. Voltage range, 100-140 volts. Frequency range, 25-400 cps. Accuracy, ±2% at 120 volts. Moving-vane type meter gives accurate RMS readings, even when line voltage is not pure sine wave. Holes provided in rear of case for wall mounting, if desired. 3^{15}⁄$_{16}$x5x3^{1}⁄$_{16}$". 1½ lbs.

21 D 4193 Factory Wired............... **16.00**



$39.95

- Teaches Superhet Circuit
- Sensitive Transistor Radio

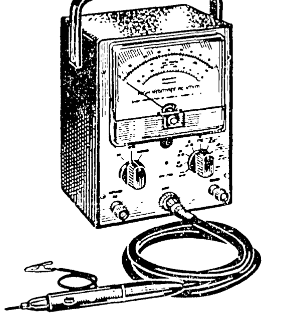
WE-93A(K) TRANSISTOR RADIO DYNAMIC DEMONSTRATOR KIT

AM transistor radio with circuit broken down and expanded for teaching purposes. In kit form—parts are supplied ready to mount on the sturdy 12x24" color-coded panel. Each part is placed in its proper position on the schematic, and is readily identified. Radio boasts a sensitive superheterodyne circuit that pulls in many stations. Easy to assemble on the fully-illustrated and labeled schematic. Various circuits are color-coded to indicate respective functions such as RF and oscillator, IF amplifier, detector and audio stages.

Wiring diagram on reverse side simplifies building. Component installation is made easy with silver-plated spring connectors. Supplied complete with all parts and assembly instructions. Also included is the 304-page RCA Transistor Manual, which has a complete section on basic theory, and detailed data on 373 semiconductor devices. 12 lbs.

21 D4216 U...................... **39.95**

RCA World-Famous Test Equipment



WV-76A AC VTVM

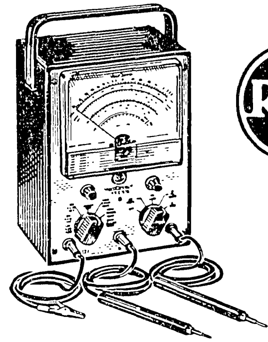
$79.95
- Low-Level Measurements
- Resp. to 500 kc, ±½ db
- 9 Voltage and 9 Db ranges

For use in high-fidelity and general low level audio work, such as hum and ripple measurements, IF gain and vibration analyzing. Measures AC voltage from 10 millivolts to 100 volts RMS in 9 overlapping ranges, 9 db ranges from −40 db to +40 db. Has rugged 200-microamp meter and easy-to-read scale protected by high-impact plastic cover. Uses 1% precision resistors for accuracy of ±4% of full-scale deflection.

Frequency response, ±½ db, 20 cps to 500 kc. Input resistance, 1 megohm shunted by 58 mmf. 10 megs shunted by 13 mmf with probe in low-cap position. Supplied complete with shielded direct/low capacitance probe and cable. Brushed aluminum panel, durable case. 7¾x5⅝x4¾". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.

21 D 4206. Factory Wired....79.95

21 D 4339. Model WV-76A (K). As above, but in kit form. Wt. 5 lbs. **57.95**



WV-77E JUNIOR VOLTOHMYST

$52.00
- Color-Coded Scales
- Separate AC Scales
- Ultra-Slim Probes

VTVM features color-coded scales, electronically-protected 400-microamp movement and fused ohms network. 11-meg input. Ranges: AC rms and DC volts, 0-1.5-5-15-50-150-500-1500; AC p-p volts, 0-4-14-40-140-1400-4000; resistance, 0-100-10,000-100,000 ohms; 0-10-100-1000 megs. Flat response ±5% from 40 cps to 5 mc on 1.5, 5, 15 v. rms and 4, 14, 40 P-P ranges. Individual 1½-v. rms and 4-v.P-P scales.

Accuracy: ±3% of full scale on DC; ±5% from 40 cps to 5 mc on 1.5, 5 and 15 v. rms and 4, 14 and 40 v. P-P ranges. 7⅜x5½x4¾". With probes, instructions. For 105-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

21 D 4208. Factory Wired....52.00

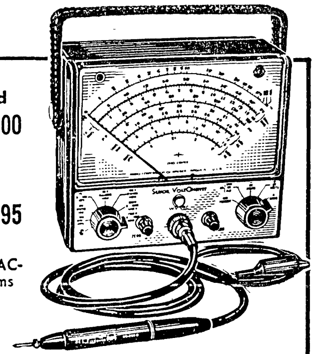
21 D 4207. Model WV-77E(K). As above, but in kit form. 5 lbs.............38.00

21 D 4209. WG-297 HV Probe. Extends DC range to 50,000 volts. Requires WG-206 at right. Wt. 1 lb. 11.95

Wired **$84.00**

Kit **$57.95**

Single AC-DC-Ohms Probe



WV-98C SENIOR VOLTOHMYST

Features electronic protection against burnout, a rugged 200 μa meter movement, and 1% precision resistors. 6½" meter is accurate to ±3%. 7 ranges for each function. Reads AC rms and DC to 1500 volts. 0.5 volt DC scale. Resistance from 0.2 ohms to 1000 megs. AC input impedance of 830K and 70 mmf to 1.5 megs. and 60 mmf. Input resistance is 11 megs. DC-AC-Ohms probe with selector switch.

Measures complex TV circuits—direct reading of p-p volts to 4200 in video, sync, and deflection circuits of TV. Die-cast aluminum case. 6½x7x3¾". With probe and shielded cable. For 105-125 volts, 50-60 cycle AC. Shpg. wt. 7 lbs.

21 D 4211. Factory Wired.......84.00

21 D 4210. Model WV-98C(K). As above, but in kit form. Shpg. wt. 7 lbs.....**57.95**

21 D 4212. WG-289 HV Probe. Extends DC range of WD-98C to 50,000 v. Requires multiplier below. Wt. 1 lb..........**11.95**

21 D 4213. WG-206 Multiplier. For WG-289. 1090 megohms to match 11-megohms input. Shpg. wt. 2 oz...............**3.50**

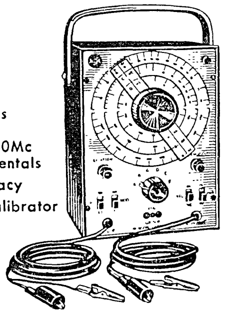
21 D 4214. WG-299D AC-DC-Ohms Probe. For use with WV-98C. 1 lb........**7.95**

21 D 4215. WG-301A Crystal Diode Probe. For WV-98C. Range to 250 mc. 8 oz. **7.75**

$65.00

Complete With Leads

- 85 Kc to 40Mc in Fundamentals
- 2% Accuracy
- Crystal Calibrator Socket



WR-50B RF SIGNAL GENERATOR

Excellent for alignment, and for use in signal tracing with AM, FM, hi-fi and CB equipment. Continuously tunable output. Dial calibration accurate within 2%. 400-cycle oscillator, with provision for external modulation. Cathode follower output—maintains waveform, voltage regulation and stability.

RF output 0.05 v. rms minimum. Front panel crystal socket to provide crystal controlled oscillator. In rugged metal case, 7¾x5⅜x4¾". With leads, easy-to-follow instructions and schematic. For 105-125 volts, 50-60 cycle AC. Shpg. wt. 10 lbs.

21 D 4192. Factory Wired..65.00

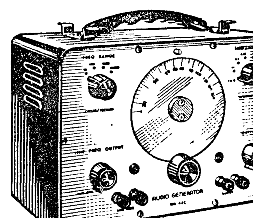
21 D 4272. WR-50A(K). Same as above, but in kit form. 10 lbs....**45.00**

WA-44C SINE AND SQUARE-WAVE GENERATOR

- Output From 20 to 200,000 cps in Four Bands
- 10-1 Step Attenuator plus Variable Output Control
- 30 to 15,000 cps With Less Than 0.25% Distortion
- "Bridged T" Oscillator With Cathode Follower Output

Provides low-distortion sine or square-wave for measuring frequency response, finding impedance of L-C combinations, and other uses. Generates 20-200,000 cps in four ranges, with sine or square-wave output. Square waves have less than 5% tilt, better than 0.15 microsecond rise time. Cathode follower outputs. Output is 8 volts rms minimum with rated load; frequency response, 1.5 db, 30 to 100,000 cps. Distortion is under 0.25% at full output. Has separate 60-cps output for intermodulation distortion measurements. Steel cabinet, 7x10 11/16x6⅛". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 12 lbs.

21 D 4290 U. Factory Wired................98.50



- 8-Volt Output
- Low Distortion
- Clean Square Waves

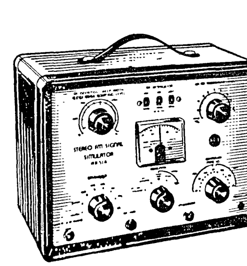
$98.50

WR-52A STEREO FM SIGNAL SIMULATOR

- Generates Composite Stereo Signal plus Phase-Test Signal
- Crystal-Controlled 19-kc Subcarrier Signal Checks Lock-In
- Four Built-in Modulation Frequencies and Provision for External AF Signal

Lightweight instrument generates signals needed to service stereo tuners, stereo receivers and multiplex adapters. Puts out composite stereo FM signal for either left or right channel and a phase-test signal for aligning subcarrier transformers. Signals can be modulated with 400, 1000 or 5000-cps frequency, or with an external audio frequency signal. Four sine-wave signals (19, 38, 67 and 72 kc) help to adjust bandpass networks. 100-mc adjustable carrier (±0.8 mc) can be modulated from 0-75 kc or swept from 0-700 kc at 60 cps for RF-IF alignment. Aluminum front panel. Blue-gray steel case, 10x13½x8". With two connecting cables and bracket. For 110-120 volts, 60 cycle AC. Shpg. wt., 14 lbs.

21 D 4291 U. Factory Wired.............227.00



Offers Complete Stereo FM Testing and Alignment Facilities

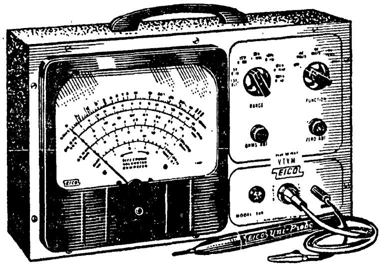
- Phase-Test Signal
- Subcarrier Signal
- Stereo Signal

$227.00

EICO

Popular-Priced Test Equipment

THE COMPLETE LINE OF EICO TEST EQUIPMENT IS AVAILABLE AT ALLIED



MODEL 249W PEAK-TO-PEAK VTVM

Kit Form $39.95 **Factory Wired $59.95**

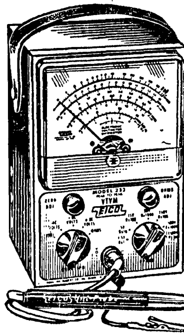
A highly versatile, deluxe VTVM that's perfect for use in servicing color and black and white TV sets, as well as FM and AM radios and tuners. Features unique, time-saving, dual-purpose "Uni-Probe"—only one probe performs all functions—a half-turn of probe tip selects DC or AC/Ohms. Also features extra large, electronically protected 7½" meter, balanced-bridge circuit, 1% precision ceramic multiplier resistors and zero center scale.

Ranges: p-p volts, 0-4-14-42-140-420-1400-4200 volts; DC/rms volts, 0-1.5-5-15-50-150-500-1500 volts; resistance, 0-1000 megohms in 7 ranges. Frequency response: flat from 30 cps to 30 mc. Size, 8½x13x5". Supplied complete with "Uni-Probe." For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 9 lbs.

21 D 4234. Factory Wired..........59.95

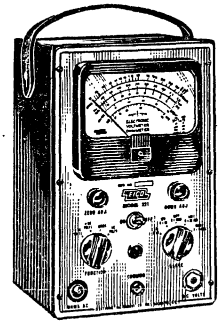
MODEL 249-K. Kit version of 249W. Less solder. Shpg. wt., 9 lbs.

21 D 4233.......................**39.95**



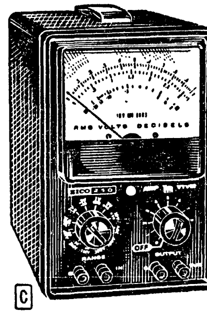
A

Factory Wired $49.95



B

Factory Wired $39.95



C

Factory Wired $79.95

[A] 232W PEAK-TO-PEAK VTVM

A long-time favorite with electronic servicemen everywhere. Ideal for color and monochrome TV work, FM and AM tuners and receivers, as well as all general service uses. Includes all the deluxe features of Model 249W (left), such as balanced bridge circuit, 1% precision ceramic multiplier resistors, but has 4½" meter. "Uni-Probe" is a great time saver—a half-turn of probe tip selects DC or AC/Ohms ranges.

Ranges: p-p volts, 0-4-14-52-140-420-1400-4200 volts; DC/rms volts, 0-1.5-5-15-50-150-500-1500 volts; resistance, 0-1000 megohms in 7 ranges. 30 cps to 3 mc. 8½x5x5". For 105-125 v., 50-60 cycle AC. 5 lbs.

21 D 4236. Factory Wired..........49.95

MODEL 232-K. Kit version of 232W. Less solder. Shpg. wt. 5 lbs.

21 D 4235.......................**29.95**

[B] MODEL 221W VTVM

Rugged VTVM for field, shop, lab, or production line use. 20 different meter ranges for measurement of AC rms and DC voltage, decibels and resistance. Features include: 25-megohm DC input; 3-megohm AC input; protected 4½" meter; zero center scale; balanced bridge circuit; and 1% precision ceramic multiplier resistors.

Ranges include: AC rms and DC volts, 0-5-10-100-500-1000 volts; resistance, 0-1-10K, 1-10-1000 megohms; 5 db ranges, —20 to +55 db. Frequency response; 20-200,000 cps. 9⁷⁄₃₂x16x5". Supplied with leads. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

21 D 4253 X. Factory Wired........39.95

MODEL 221-K. Kit version of 221W. Less solder. Shpg. wt., 7 lbs.

21 D 4252.......................**25.95**

[C] MODEL 250W AC VTVM AND AMPLIFIER

Laboratory-sensitive, 12-range AC VTVM. Frame-grid triode cathode-follower input circuit, two-stage R-C coupled amplifier. Has 10-megohm input. Front-panel switch converts unit to amplifier; provides 60 db gain on 1-millivolt range. Amplifier output: 5 volts, rms. Ranges: rms millivolts and volts, 0-1-3-10-30-100-300; db, —80 to ±52 in 12 ranges. Response is flat from 10 cps to 600 kc. Accuracy, ±3% of full scale. 8½x5¾x7". Less leads. For 105-125 v., 50-60 cycle AC. Wt., 7 lbs.

21 D 4259 U. Factory Wired........79.95

MODEL 250-K. Kit version of 250W. Less solder. Shpg. wt., 10 lbs.

21 D 4258.......................**49.95**

D E F G

SPECIAL-PURPOSE PROBES IN WIRED OR KIT FORM

[D] **HVP-2 WIRED HIGH-VOLTAGE PROBES.** **21 D 4240.** For Model 221. Extends Range to 30 Kv. 740 meg. Wt., ½ lb. **6.95**

21 D 4241. For Models 232, 249. Extends Range to 30 Kv. 1090 meg. ½ lb... **6.95**

[E] **"UNI-PROBE."** AC/DC/Ohms probe. Half-turn of probe tip selects DC or AC/Ohms. Shpg. wt., ½ lb.

21 D 4243. UP-W Factory Wired....6.95

21 D 4242. UP-K Kit...............4.95

[F] **PEAK-TO-PEAK PROBE KIT.** For measuring P-P volts (5 kc to 5 mc) on DC scales of 11-meg. input VTVM's. 1 lb.

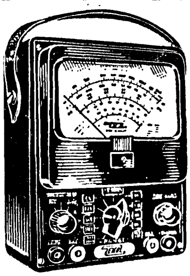
21 D 4245. PTP-11-K Kit...........4.95

[G] **RF MEASURING PROBES.** Permit measuring RF voltages with frequencies up to 250 mc. Shpg. wt., 1 lb.

21 D 4250. PRF-11. Factory wired probe for use with 11-meg VTVM's.......**4.95**

21 D 4251. PRF-11-K. Same as above, but in kit form.......................**3.95**

21 D 4249. PRF-25-K. RF Probe kit for use with 25-meg VTVM's.........**3.95**



Factory Wired $22.95

With Batteries, Less Leads

MODEL 566W VOM

- **Excellent General-Purpose Tester**
- **Features 1000 Ohms/Volt Sensitivity**
- **Easy-to-Read 4½" Meter Scale**

General-purpose VOM features divider resistors with rectifier in dual half-wave hook-up. AC/DC Ranges: 0-1-5-10-50-100-500-5000 volts at 1000 ohms per volt sensitivity (full-scale 0-1 volt range); 0-1-10 milliamps and 0.1-10 amps; 0-5000-100K, 0-1 meg. 6 db ranges, —20 to +69. With batteries. Less leads. 6¾x5¼x3".

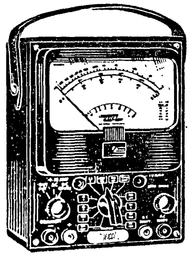
21 D 4261. Factory Wired. 3 lbs........**22.95**

21 D 4260. Model 566-K. As above, but in kit form. Less solder. Shpg. wt., 3 lbs......**16.95**

MODEL 556W VOM. Same as Model 566W above, but uses 1% precision resistors for better accuracy. Shpg. wt., 3 lbs.

21 D 4263. Factory Wired.............25.95

21 D 4262. Model 556K. Same as above, but in kit form. Less solder.................**18.95**



Factory Wired $29.95

- **Has 31 Ranges**
- **Easy-to-Read 4½" Meter**
- **With Batteries**

MODEL 565W VOM

Features 20,000 ohms/volt sensitivity 4½", 50 µa meter. Ranges: AC-DC volts, 0-2.5-10-50-250-1000-5000 (AC sens. 1000 ohms/volt); DC currents 0-100 µa, 0-10-100-500 ma, 0-10 amps; resistance, 2000-200K ohms, 0-20 megs; db, —12 to +55 in 5 ranges. 6¾x5¼x3". With batteries. Less leads. Shpg. wt., 4 lbs.

21 D 4269. Factory Wired....29.95

MODEL 565-K. Same as above, but in kit form. Less solder.

21 D 4268................**24.95**

MODEL 555W VOM. Same as Model 565W above, but with 1% precision resistors. Factory wired and tested. Shpg. wt., 4 lbs.

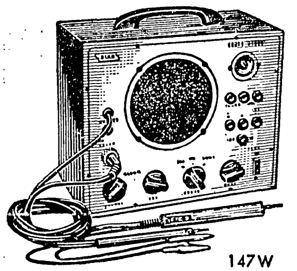
21 D 4271..................**34.95**

MODEL 555-K. Same as above, but in kit form. Less solder.

21 D 4270................**29.95.**

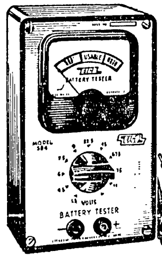
Factory Assembled or in Kit Form

EICO



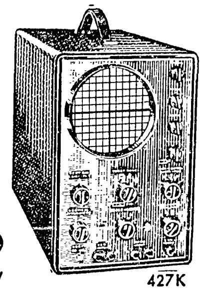
147W

Factory Wired $49^{95}



584W

Factory Wired $12^{95}



427K

Factory Wired $119^{95}

DELUXE 147W SIGNAL TRACER

- Visual and Audio Monitors
- Output for VTVM or Scope

Two input channels (high-gain RF and audio) permit direct observation of signal. Both visual and aural signal monitors (eye tube and 5″ speaker). Output for VTVM or scope. Can substitute as speaker, output transformer or amplifier. Heavy filtering, and hum-balance control. Calibrated wattmeter indicates tested unit's power consumption. Detects B+ short, intermittent filament, defective filter or bypass capacitors, etc. Noise locator applies DC voltage to suspected component and amplifies effect. Transformer-operated for safety. Aluminum panel; gray-wrinkle steel case. Size, 9x10x5″. With probes. For 105-125 v., 60 cycle AC. Wt., 10 lbs.

21 D 4130. Factory Wired..........49.95

MODEL 147K. As above, in kit form.

21 D 4131. Shpg. wt., 10 lbs..........29.95

427W SENSITIVE 5″ SCOPE

- Frequency Compensated Attenuator
- Direct-Coupled Vertical Amplifier

General-purpose wideband scope. Push-pull output in direct-coupled vertical amplifier; direct or capacitive input coupling; 4-position frequency-compensated vertical input attenuator. Also: saw-tooth output panel jack; front-panel intensity, focus and astigmatism controls; instantaneous vertical, horizontal positioning. Vertical amplifier: flat from DC to 500 kc (−6 db at 1 mc); sensitivity, 10 mv P-P, or 3.5 mv rms/cm. Horizontal amplifier: flat from 2 cps to 450 kc; sensitivity, 0.5 v. P-P, or 0.18 v. rms/cm. Zener-diode calibrator. 12½x8½x16 7/16″. For 105-120 v., 60 cycle AC. Shpg. wt., 27 lbs. Probes at left.

21 D 4473 K. Factory Wired......119.95

MODEL 427K. As above, but in kit form.

21 D 4150 K. Shpg. wt., 27 lbs......79.95

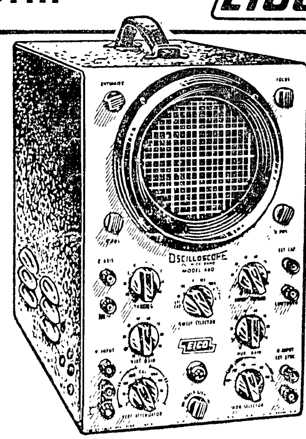
MODEL 584W BATTERY TESTER—CHECKS BATTERIES UNDER LOAD

- Provides True Load Condition Tests
- Rotary Switch Selects Voltage Range
- Color-Coded Dial Scale For Fast Readings
- Large, Accurate, 3½″ Meter

Tests all types of batteries commonly used in transistor and vacuum-tube portable radios, phonographs, tape recorders, hearing aids, as well as photoflash, flashlight, and lantern batteries. Rotary switch selects exact voltage of the battery under test (1.5, 4.5, 6, 7.5, 9, 22.5, 45, 67.5, 75, 90 volts, plus a spare position) and inserts the proper resistive load to reduce battery terminal voltage to that of actual operating conditions. Size, 6¼x3¾x2″. With leads. Shpg. wt., 2 lbs.

21 D 4228. Factory Wired..........12.95

21 D 4225. Model 584K. As above, but in kit form. Shpg. wt., 2 lbs..........9.95



460W WIDEBAND 5″ SCOPE

- Vertical Response from DC to 10 mc
- Edge-Lit Grating with Dimmer

Flat, DC to 4.5 mc, usable to 10 mc. Easily reproduces 3.58-mc color burst. 4-step attenuator. Vertical sens., 25 mv/P-P/cm for P-P measurements. Full-screen DC vertical and 2x horiz. positioning. Automatic sync. Sweep: 10 cps-100 kc, low-frequency sweep with ext. capacitor. Rise time, 0.06 sec. Voltage calibrator. Input imp., 3 megs shunted by 35 mmf. 13x8½x16″. For 105-125 v., 50-60 cycle AC. 28 lbs.

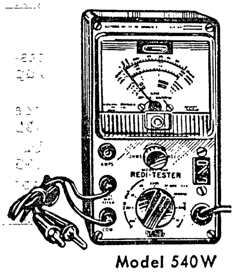
21 D 4157 K. Factory Wired....129.95

MODEL 460K. As above, kit form.

21 D 4158 K..........89.95

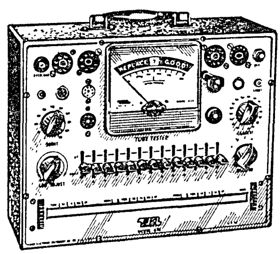
SCOPE PROBES. Shielded. For 430W, 430K, 427W, 427K, 460W, 460K. 8 oz.

Stock No.	Type	Description	EACH
21 D 4151	PSDK	Demodulator Probe Kit	3.95
21 D 4152	PSD	As above, but wired	5.95
21 D 4153	PDK	Direct Probe Kit	2.95
21 D 4154	PD	As above, but wired	3.95
21 D 4155	PLCK	Low-Capacity Probe Kit	3.95
21 D 4156	PLC	As above, but wired	5.95



Model 540W

Factory Wired $15^{95}



Model 628W

Factory Wired $59^{95}

MODEL 540W READI-TESTER

All-in-one AC-DC voltmeter, ammeter, ohmmeter, wattmeter, and leakage tester. 3½″ meter. Ranges: AC-DC volts, 0-7.5-15-150-300; AC-DC amps, 0-15; Resistance, 0-1000 ohms. Neon indicator checks continuity on resistors from 1K to 2 meg, and capacitors above .0005 mfd. Panel outlet for metering current, and switch for voltage, of tested line. "Good-Bad" reading on 6/12-volt auto batteries. Aluminum panel, bakelite case. With leads and batteries. 6½x3¾x3½″. Shpg. wt., 3 lbs.

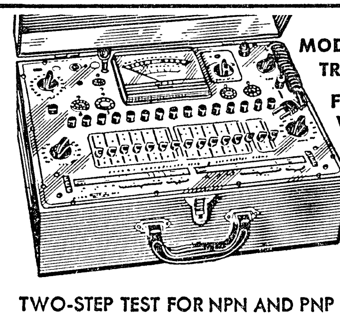
21 D 4232. Wired..15.95 **21 D 4231.** Model 540K Kit..12.95

MODEL 628W LOW-COST TUBE TESTER

Checks for emissions, shorts, opens, continuity. 4½″ D'Arsonval meter; 3-color condition scale and 0-100 matching scale. 13-lever switches, overload lamp and fuse, roll chart with snap-out window, pilot light test, line adjust control. 6½x12½x4¼″. For 105-135 volt, 60-cycle AC. Shpg. wt., 11 lbs.

21 D 4145 X. Wired..59.95 **21 D 4146 X.** 628K-Kit....44.95

21 D 4147 X. Model L-1 Lid. For above models. Wt., 3 lbs..3.98



MODEL 667W TUBE AND TRANSISTOR TESTER

Factory Wired $129^{95}

Sensitive 200 micro-amp 4½″ D'Arsonval meter for accuracy

Checks low-power transmitting and special-purpose tubes

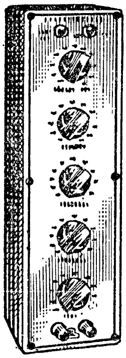
TWO-STEP TEST FOR NPN AND PNP SIGNAL TRANSISTORS

Reads composite G_m and G_p, peak emission, leakage of tubes, transistor collector current, and amplification factor. Tests virtually every receiving tube in use: 5 and 7-pin nuvistors; 9-pin novars; 12-pin compactrons; 7, 9, and 10-pin miniatures; 5, 6, 7, and 8-pin subminiatures; octals; and loctals. Also checks many low-power transmitting and special-purpose tubes, voltage regulators, cold-cathode regulators, electron-ray indicators and ballast tubes. Special output in center of novar socket also tests pilot lamps. Tests are made under actual tube operating conditions. When one section of a multi-purpose tube is tested, all sections draw their full rated current. Up-to-date roll chart with snap-out window for new data entries. Multi-circuit lever switch rapidly sets up plate, screen and control grid voltages. 13 pushbutton switches for fast leakage testing of alternate tube elements. Aluminum panel; gray-wrinkle steel carrying case and cover. 12x15x4½″. 105-130 volts, 50-60 cycle AC. 20 lbs.

21 D 4142 K. Factory Wired..........129.95

21 D 4143 K. Model 667K. As above, in kit form. 20 lbs. 79.95

Design Aids; Factory-Wired and Kit

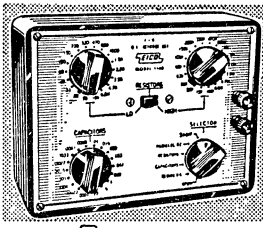


1171W DECADE RESISTANCE BOX

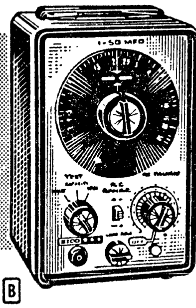
Factory Wired **$34^{95}**

Kit Form **$24^{95}**

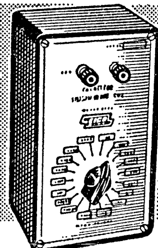
- Has Range of 0-99,999 Ohms
- Determines Exact Resistances Required
- Use 1-Watt Resistors, ½% Accuracy Any Setting



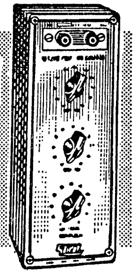
[A] WO-33A(K).



[B]



[C]



[D]

Factory Wired **$19^{95}** — Factory Wired **$39^{95}** — Factory Wired **$10^{95}** — Factory Wired **$24^{95}**

For use in a wide variety of general design and development applications. Compact 1171W is useful for providing a known resistance value in bridge circuit adjustments; can also be used for ohmmeter calibrations; determining the exact values required for meter or instrument multiplier resistors; determination by actual substitution of resistance values required in electronic circuits; and in determining the value of badly damaged or illegible resistors by direct substitution.

Features an extremely wide range of resistance values; 0-99,999 ohms in 1-ohm steps with 5 decades. Provides ½% accuracy at any resistance setting. Includes five 10-position switches. Comparator position and binding posts permit instant substitution of actual equivalent component of the value indicated on the box. Employs ½% precision resistors with 1 watt power dissipation for extremely accurate values.

Ruggedly constructed in heavy-gauge steel cabinet, finished in gray wrinkle, with sturdy aluminum panels. Completely factory wired and tested. Size, 12x3½x3". Less leads. Shpg. wt., 3 lbs.
21 D 4106. Factory Wired/Tested. 34.95
MODEL 1171K. Kit version of 1171W. Less solder. Shpg. wt., 3 lbs.
21 D 4107. .... 24.95

1140W SERIES-PARALLEL R-C BOX

[A] Combination of 1100W and 1120W substitution units. Switching facilities permit selection of any individual resistance and capacitance values of these two units, or 1350 combinations in series and parallel. 10% accuracy, using EIA values. Open and short circuit positions provided. 5⁵⁄₁₆x6⅞x2⁵⁄₁₆". Shpg. wt., 3 lbs.
21 D 4110. Factory-Wired/Tested... 19.95
MODEL 1140K. Kit version of 1140W. Less solder. Shpg. wt., 3 lbs.
21 D 4111. .... 14.95

955W CAPACITOR BRIDGE AND TESTER

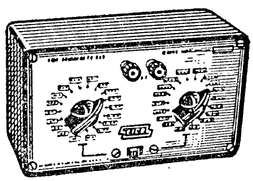
[B] Tests capacitors for shorts, opens and value in or out of circuit. Short Test—reliable to 2000 mfd with shunt resistance as low as 1 ohm. Low test-voltage will not damage low voltage electrolytics. Open Test—reliable down to 15 mmf out-of-circuit, or 250 mmf in-circuit. Capacity Measurement—from 0.1 to 50 mfd in or out of circuit with Wien Bridge. ±10% accuracy. 8½x5¾x6". Less leads. For 105-130 v., 60 cycle AC. Shpg. wt., 6 lbs.
21 D 4102X. Factory-Wired/Tested 39.95
MODEL 955K. Kit version of 955W. Less solder. Shpg. wt., 6 lbs.
21 D 4103X. 19.95

1120W CAPACITANCE SUB BOX

[C] Provides rapid substitution of a wide range of values from 0.0001 to 0.22 mfd in 18 steps. Useful in determining value needed for optimum performance. ±10% accuracy. Uses silver-mica and molded plastic capacitors; most rated at 600 v. others at 400 v. 5-way binding posts. 3¾x6½x3½". Less leads. 2 lbs.
21 D 4112. Factory-Wired/Tested... 10.95
MODEL 1120K. Kit version of 1120W. Less solder. Shpg. wt., 2 lbs.
21 D 4113. .... 6.95

1180W CAPACITOR DECADE BOX

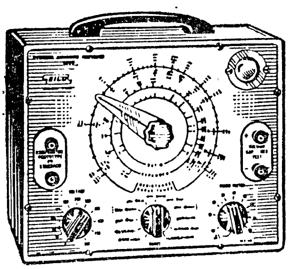
[D] Useful in any lab for determination of proper capacitance values. Range: 100 mmf to .111 mfd in 100 mmf steps. Voltage ratings: 350 WVDC continuous, 500 WVDC intermittent. Accuracy: ±1%. Zero capacitance: 7 mmf. Has positive detent, ceramic wafer switches, low-loss lucite terminal board and 5-way, jack-type binding posts that accommodate all popular lead terminals. Gray wrinkle steel case, 9x3½x3½". Less leads. Shpg. wt., 3 lbs.
21 D 4104. Factory-Wired/Tested.. 24.95
MODEL 1180K. Kit version of 1180W. Less solder. Shpg. wt., 3 lbs.
21 D 4105. .... 17.95



Factory Wired **$12^{95}**

1100W RESISTANCE SUBSTITUTION BOX

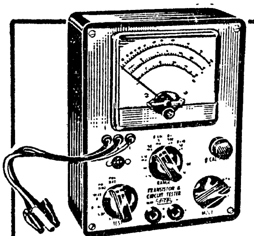
Extremely useful in developmental or service applications. Makes possible the rapid substitution of all resistance values that are decade multiples of 15, 22, 33, 47, 68 and 100 ohms, from 15 ohms to 10 megohms. Uses standard 1-watt ±10% tolerance EIA resistors throughout. Has convenient 5-way binding posts for use with any type of test leads. 3¾x6½x3½". Less leads. Shpg. wt., 2 lbs.
21 D 4108. Factory-Wired/Tested... 12.95
MODEL 1100-K. Kit version of 1100W. Less solder. Shpg. wt., 2 lbs.
21 D 4109. .... 7.95



Factory Wired **$34^{95}**

950-W R-C BRIDGE/COMPARATOR

Measures from 0.5 ohms to 500 megohms and 10 mmf to 5000 mfd, 4 ranges for each. An unknown R, C or L component can be compared to a standard and the ratio of values read on a scale of 0.5 to 20 times. Indicates power factor of electrolytic capacitors and provides a continuously variable 0-500 v. DC to check leaky capacitors, one range for mica and paper and another for electrolytics. Tuning eye gives positive indication when bridge is nulled and the value or ratio is read on a large, easy-to-read scale. Gray wrinkle steel case, 8x10x4¾". Less leads. For 105-125 v., 60 cycle AC. Shpg. wt., 10 lbs.
21 D 4100X. Factory-Wired/Tested. 34.95
MODEL 950-K. Kit version of 950B-W. Less solder. Shpg. wt., 10 lbs.
21 D 4101. .... 25.95



680W TRANSISTOR CHECKER AND CIRCUIT TESTER

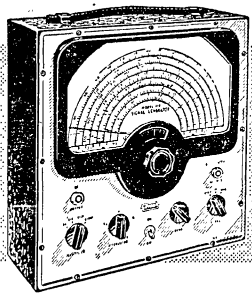
Factory Wired **$39^{95}**

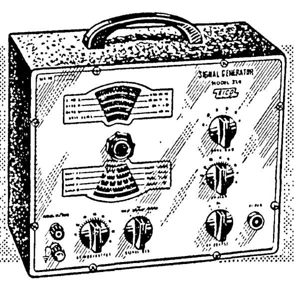
Provides Accurate Characteristics

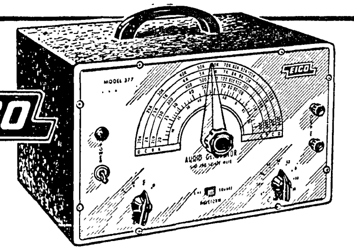
Provides accurate measurement of all the basic transistor and diode characteristics required for quality testing, plus the VOM facilities normally required for testing and trouble-shooting transistor circuits. Transistor measurements include ICBO and ICEO, with separate test positions for signal and power transistors, DC Beta, and simulated AC Beta. Instruction manual includes simple criteria for all measurements—no charts are needed.

VOM ranges: DC volts @ 20,000 ohms/volt, 0-5-50; DC current, 0-50-500 μa, 0-5-50-500 ma; resistance, 0-2-200 Kohms (1200-ohm center scale), and 0-20 megohms (120 Kohms center scale). Has 50 μa, 3½" meter movement with 2% accuracy; 1% precision resistors. 3x5¼x6¾". With leads and batteries. Shpg. wt., 3 lbs.
21 D 4148. Factory-Wired/Tested.. 39.95
MODEL 680-K. Kit version of Model 680W above. Less solder. Shpg. wt., 3 lbs.
21 D 4149. .... 25.95

Test Equipment, Wired and Kit Form







315W DELUXE RF GENERATOR

- Frequency Dial-Reading Accuracy Better Than 1% on All 7 Ranges
- Precision Bandspread Vernier Tuning
- 75 kc to 150 mc Frequency Range

Signal generator has fully shielded copper-plated chassis, attenuation controls and line filter for low-leakage output. Fundamentals: 75 kc to 50 mc, 5 ranges. Calibrated harmonics: 13 mc to 150 mc, 2 ranges. 400-cps sine-wave generator, with attenuator for RF modulation and external audio testing. Extra-large 9″ illuminated dial with gear-driven, anti-backlash, hairline pointer. External-modulation provision. VR150 voltage regulator. Aluminum panel; gray all-steel case, 13x12x7″. For 105-125 v., 60 cycle AC. Shpg. wt., 18 lbs.

21 D 4132X Factory Wired/Tested. 79.95

21 D 4133X. Model 315K Kit. 18 lbs. .59.95

324W LOW-COST RF GENERATOR

- One Compact Generator Covers 150 kc to 435 mc Frequency Range
- Frequency Reading Accuracy, 1.5%
- Accurate 6:1 Ratio Tuning Knob

Versatility, range, and accuracy at low price. Provides modulated or unmodulated RF signal and continuous output. Expanded frequency range of 6 fundamental bands: 150-400 kc; 400-1200 kc; 1.2-3.5 mc; 3.5-11 mc; 11-37 mc; and 37-145 mc. One harmonic band covers 111-435 mc. 400-cps sine-wave output. External-modulator provision. Colpitts RF oscillator directly modulated by a cathode follower. Fine and coarse RF attenuators. Aluminum panel; gray-wrinkle steel case, 8x10x4¾″. For 105-125 v., 60 cycle AC. Shpg. wt., 8 lbs.

21 D 4140. Factory Wired/Tested. 44.95

21 D 4141. Model 324K Kit. 8 lbs. .32.95

377W SINE-WAVE AND SQUARE-WAVE AUDIO GENERATOR

- Features High Calibration Accuracy, Stability and Purity of Waveform
- Heavy-Duty Filter Choke in Power Supply for Minimum Hum Level
- Constant Output Over Wide Range

Boasts a Wien Bridge resistance-capacitance oscillator circuit with 1% precision resistors. Sine-wave range; 20-200,000 cps in 4 bands, ±1½ db, from 60-150,000 cps with less than 1% distortion. Square-wave range: 60-50,000 cps in 4 bands, 5% tilt at 60 cps, 5% rounding at 50,000 cps. Output: 10 volts across 1000 ohms. Large, 6½″ dial face has 0-100 reference scale. Calibration accuracy: ±3%, or 1 cps. Deep-etched aluminum panel; gray wrinkle steel case, 7⅛x11⅛x7⅝″. For 105-125 v., 50-60 cycle AC. Shpg. wt., 14 lbs.

21 D 4134X Fact. Wired/Tested. 54.95

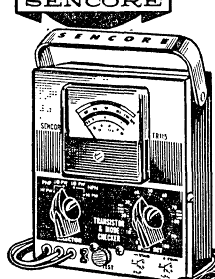
21 D 4135X. 377K Kit. Wt., 14 lbs. .39.95

TRANSISTOR/DIODE CHECKER

- Checks All Transistor and Diode Types
- Reads Beta Direct or as Good or Bad
- Includes List of Japanese Equivalents

Low-cost, battery-powered unit that provides DC out-of-circuit checks on transistors for leakage, gain, opens and shorts. Tests all transistors, from audio power to small hearing aid types. Reads Beta (current gain) directly, or as good or bad. Tests diodes for forward to reverse ratios, seleniums for forward and reverse current. Provides set-up charts for critical tests even though checker can be used for most tests without them. Lists Japanese equivalents. Case, 4½x5x2¼″. With carrying handle, leads and batteries. Shpg. wt., 2 lbs.

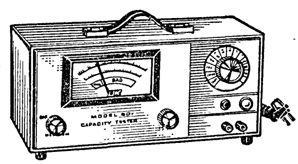
21 D 4188................24.95



Compact, Lightweight Unit with Handle for Easy Portability

IN/OUT-OF-CIRCUIT CAPACITOR ANALYST

- Checks Electrolytics for Life Expectancy and Energy Storage Capability
- Tests for Shorts and Opens
- Safe for All Capacitor Types



MODEL 801. Out-of-Circuit: Indicates energy storage capability and life expectancy. Checks combined effects of internal series resistance, leakage resistance and useful capacity of electrolytics up to 2000 mfd in one reading. Safe for high and low voltage types. In-Circuit: Short test for capacitors from 10 mmf to 2000 mfd even with shunt resistance of 25 ohms. Open test down to 25 mmf with shunt resistance down to 50 ohms. 3-wire test for dual, series electrolytics. Reads capacity from 10 mmf to 1 mfd in 5 ranges. Size, 6x10x4½″. For 110-120 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

21 D 4342..109.95

VOLTAGE, BATTERY AND CONTINUITY TESTERS

[A] EMICO AC VOLTAGE TESTER

Detects low or high line voltage. 2-prong male plug fits AC outlets. 90° swivel for easy reading from any position. 0-150 volt range. 2″ meter, damped movement. ±5% accuracy. Insulated plug, shockproof metal case. 8 oz.

21 D 4368...........................3.38

[B] STERLING BATTERY TESTERS

Pocket-size meters for general-purpose testing of dry and wet cell batteries. Type 16 has 1.5-90V scale; Type 24, 0-35A; Type 38A, 1-2-100V; Type 44, 0-10V, 0-35A; Type 45A, 0-50V, 0-50A. 2¼″ diameter, ⅝″ thick. ±5% accuracy. With leads. Av. wt., 6 oz.

Stock No.	Mfr's Type	Batteries That Can Be Tested	EACH
21 D 4373	16	Radio, Hearing Aid	4.05
21 D 4374	24	#6 Dry Cells	2.25
21 D 4375	38A	Radio, Industrial	2.70
21 D 4376	44	Hot Shot, #6 Dry	2.76
21 D 4377	45A	Ignition, Indus.	3.45

[C] G-C NEON GLOW TESTER

Indicates voltages from 60 v. AC and 90 v. DC to 550 v. AC-DC. For finding "hot" AC leads, checking fuses, appliance repair. Bulb in insulating holder. 5″ leads. Shpg. wt., 3 oz.

21 D 4369.............................44

[D] SITTLER LOW-VOLTAGE TESTER

TYPE T202. For testing low-voltage circuits in autos, batteries, radio and TV filament circuits. 5-50 v. AC-DC. Uses incandescent lamp. With leads. Shpg. wt., 3 oz.

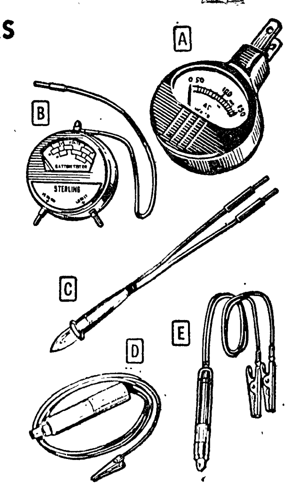
21 D 4372...........................99

21 D 4371. Type T203. Above, but 2.5 to 24-volt AC-DC range........................99

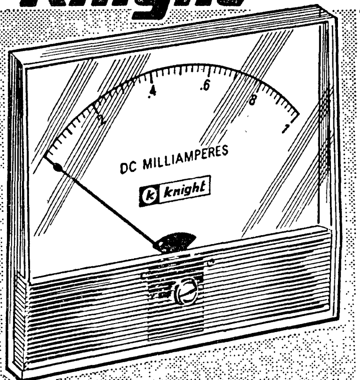
[E] AMF PRO-GLO CONTINUITY TESTER

Glow-type tester checks continuity, shorts, grounds and open circuits. Dim light indicates poor connection. No light when resistance exceeds 10 ohms. For dead circuits only. 5½x¾″. With bulb; requires 2 penlight cells. 3 oz.

21 D 4370...........................1.35

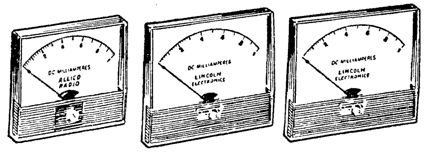


knight "Clear View" Panel Meters



CUSTOM DESIGN YOUR OWN METERS

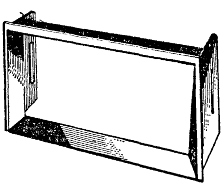
NOW YOU CAN ORDER QUALITY KNIGHT PANEL METERS WITH DIAL FACES OF YOUR OWN DESIGN



HOW TO ORDER

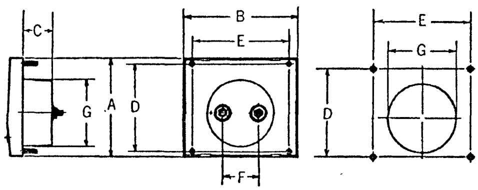
On orders for 25 or more of any one type of Knight meter shown on these pages, you can have your name or logo placed on the standard scale face. Extra charge for standard scale meters in quantities of 25-99, with your name or logo, $20.00. This is a one-time charge. No charge in quantities of 100 or more. For meters with scales in one color other than black, $30,00, 2 colors, $40.00, 3 colors, $50.00. Extra charges made one time only—no extra charges on subsequent orders with same meter face. To order, indicate Dept. 52 as Stock No., and also include meter range, size, and send logo or print of scale wanted.

COMPLETE BEZEL KIT



Includes Bezel, Brackets, Screws

Fits all 4½" Knight meters and also fits Simpson Model 1329 4½" meter listed on page 415.
52 D 6733.. ....1.50



Dim.	3½"	4½"
A	3.00"	4.00"
B	3.44"	4.68"
C	1.19"	1.19"
DxE	2.25" sq.	3.56x4.00"
F	1.40"	1.40"
G	2.75"	2.75"

- Completely Shielded Meter Movement
- Easy-to-Read Knife Edge Pointer
- Full Scale Accuracy of 2%
- With All Necessary Mounting Hardware

Wide selection of rugged, easy-to-read panel meters. Have 2% full scale accuracy. Feature knife-edge pointer and shielded meter movement—can be mounted on ferrous panels without loss of accuracy. With all necessary mounting and terminal hardware. All have #10-32x.42" terminals. All mounting studs are .52". *Rectifier type. **For prices on orders for 100 or more meters of any one type—with either Knight standard or "Custom-Design" scale faces—contact the Allied facility nearest you.** Av. shpg. wt., 1 lb.

3½" DC MICROAMMETERS

Stock No.	Range	Resistance Ohms	EACH 1-9	10-24	25-49	50-99
52 D 7204	25-0-25 μa	2000	11.65	9.90	8.90	8.25
52 D 7201	0-50 μa	2000	11.45	9.75	8.75	8.15
52 D 7306	50-0-50 μa	1240	10.60	8.95	7.95	7.50
52 D 7202	0-100 μa	1240	9.98	8.79	7.79	7.35
52 D 7307	100-0-100 μa	600	10.41	8.85	7.85	7.40
52 D 7203	0-200 μa	600	9.92	8.72	7.92	7.27

3½" DC MILLIAMMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7209	0-1 ma	46	9.75	8.55	7.75	7.10
52 D 7210	0-3 ma	2.1	9.75	8.55	7.75	7.10
52 D 7308	0-10 ma	5.0	9.75	8.55	7.75	7.10
52 D 7211	0-15 ma	3.3	9.75	8.55	7.75	7.10
52 D 7309	0-20 ma	2.5	9.75	8.55	7.75	7.10
52 D 7310	0-50 ma	1.0	9.95	8.75	7.95	7.30
52 D 7212	0-100 ma	.5	9.95	8.75	7.95	7.30
52 D 7213	0-200 ma	.25	9.95	8.75	7.95	7.30

3½" DC AMMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7311	0-1 A	.050	9.85	8.65	7.85	7.20
52 D 7312	0-5 A	.010	10.40	8.90	8.10	7.45
52 D 7225	0-10 A	.005	10.40	8.90	8.10	7.45
52 D 7226	0-15 A	.0033	10.40	8.90	8.10	7.45
52 D 7313	0-50 A	.001	10.40	8.90	8.10	7.45

3½" DC MILLIVOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7317	0-50 mv.	10	9.85	8.65	7.85	7.20
52 D 7318	0-100 mv.	20	9.83	8.63	7.83	7.18

3½" DC VOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7314	0-10 V.	2000 ohms/ volt	9.95	8.75	7.95	7.30
52 D 7275	0-15 V.		9.95	8.75	7.95	7.30
52 D 7315	0-30 V.		9.95	8.75	7.95	7.30
52 D 7219	0-50 V.		9.95	8.75	7.95	7.30
52 D 7220	0-100 V.	2000 ohms/ volt	9.95	8.75	7.95	7.30
52 D 7221	0-150 V.		9.95	8.75	7.95	7.30
52 D 7316	0-300 V.		9.95	8.75	7.95	7.30

3½" AC VOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7229	0-150 V.*	2000 ohms/v.	13.40	11.20	9.95	9.35
52 D 7230	0-300 V.*		13.40	11.20	9.95	9.35

3½" AC AMMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7233	0-5 A*	3 milliohms	12.25	10.98	10.21	9.80
52 D 7234	0-10 A*		12.25	10.98	10.21	9.80

4½" DC MICROAMMETERS

Stock No.	Range	Resistance Ohms	EACH 1-9	10-24	25-49	50-99
52 D 7208	25-0-25 μa	2000	12.48	10.40	9.35	8.67
52 D 7205	0-50 μa	2000	12.20	10.20	9.25	8.55
52 D 7320	50-0-50 μa	1240	11.40	9.53	8.55	7.93
52 D 7206	0-100 μa	1240	11.25	9.37	8.47	7.82
52 D 7321	100-0-100 μa	600	11.20	9.32	8.41	7.77
52 D 7207	0-200 μa	600	10.95	9.15	8.30	7.65

4½" DC MILLIAMMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7214	0-1 ma	46	9.98	8.79	7.98	7.35
52 D 7215	0-3 ma	2.1	9.98	8.79	7.98	7.35
52 D 7322	0-10 ma	5.0	9.98	8.79	7.98	7.35
52 D 7216	0-15 ma	3.3	9.98	8.79	7.98	7.35
52 D 7323	0-20 ma	2.5	9.98	8.79	7.98	7.35
52 D 7324	0-50 ma	1.0	11.29	9.44	8.54	7.89
52 D 7217	0-100 ma	.5	11.29	9.44	8.54	7.89
52 D 7218	0-200 ma	.25	11.29	9.44	8.54	7.89

4½" DC AMMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7325	0-1 A	.050	10.91	9.11	8.26	7.61
52 D 7326	0-5 A	.010	11.28	9.43	8.53	7.88
52 D 7227	0-10 A	.005	11.28	9.43	8.53	7.88
52 D 7228	0-15 A	.0033	11.28	9.43	8.53	7.88
52 D 7327	0-50 A	.001	11.28	9.43	8.53	7.88

4½" DC MILLIVOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7331	0-50 mv.	10	10.45	8.95	8.15	7.50
52 D 7332	0-100 mv.	20	10.40	8.90	8.10	7.45

4½" DC VOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7328	0-10 V.	2000 ohms/ volt	10.95	9.15	8.30	7.65
52 D 7276	0-15 V.		10.95	9.15	8.30	7.65
52 D 7329	0-30 V.		10.95	9.15	8.30	7.65
52 D 7222	0-50 V.		10.95	9.15	8.30	7.65
52 D 7223	0-100 V.	2000 ohms/ volt	10.95	9.15	8.30	7.65
52 D 7224	0-150 V.		10.95	9.15	8.30	7.65
52 D 7330	0-300 V.		10.95	9.15	8.30	7.65

4½" AC VOLTMETERS

Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7231	0-150 V.*	2000 ohms/v.	13.30	10.99	9.85	9.25
52 D 7232	0-300 V.*		13.30	10.99	9.85	9.25

4½" AC AMMETERS

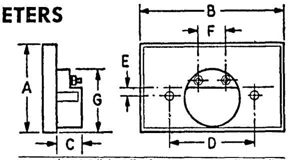
Stock No.	Range	Resistance Ohms	1-9	10-24	25-49	50-99
52 D 7235	0-5 A*	3 milliohms	14.38	12.93	11.48	10.98
52 D 7236	0-10 A*		14.38	12.93	11.48	10.98

"Space Saver" Panel Meters by knight

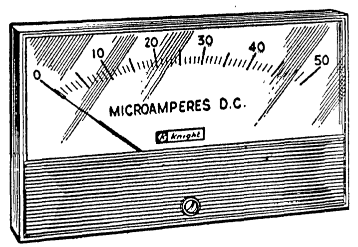
"SPACE SAVER" RECTANGULAR METERS

- Take up 40% Less Space; Have 15% Longer Scales
- Mount Quickly and Easily with Special Spring Clips
- Have Fully Compensated Meter Movements

Quick mounting meters with full scale accuracy, ±2% for DC types; ±3% for AC types. External magnet movement—fully compensated for use on steel or non-ferrous panels. On orders for 25 or more meters of the same type, meter faces can be designed to your own specifications—see "custom-design" offer, top preceding page. For prices on 100 or more meters—Knight or "Custom-Design"—contact the Allied facility nearest you. Av. wt., 1 lb.



Dim.	4½"	6"	Dim.	4½"	6"
A	2⅞"	3¾"	E	zero	⅜"
B	4½"	6"	F	1 13/32"	1 13/32"
C	1⅛"	1⅛"	G	2¾"	2¾"
D	3⅜"	3⅜"			



4½" METERS

Stock No.	Range	EACH 1-9	10-24	25-49	50-99
52 D 7240	25-0-25 μa DC	14.92	12.43	11.19	10.36
52 D 7237	0-50 μa DC	14.66	12.21	10.99	10.19
52 D 7278	50-0-50 μa DC	14.76	12.31	11.08	10.25
52 D 7238	0-100 μa DC	12.95	10.87	9.78	8.99
52 D 7279	100-0-100 μa DC	12.90	10.75	9.69	8.97
52 D 7239	0-200 μa DC	12.48	10.40	9.36	8.67
52 D 7245	0-1 ma DC	11.84	9.86	8.88	8.23
52 D 7246	0-3 ma DC	11.84	9.86	8.88	8.23
52 D 7280	0-10 ma DC	11.84	9.86	8.88	8.23
52 D 7247	0-15 ma DC	11.84	9.86	8.88	8.23
52 D 7281	0-20 ma DC	11.84	9.86	8.88	8.23
52 D 7282	0-50 ma DC	12.66	10.55	9.49	8.80
52 D 7248	0-100 ma DC	12.66	10.55	9.49	8.80
52 D 7249	0-200 ma DC	12.66	10.55	9.49	8.80
52 D 7283	0-1 A DC	12.66	10.55	9.49	8.80
52 D 7284	0-5 A DC	14.90	12.42	11.17	10.36
52 D 7261	0-10 A DC	14.90	12.42	11.17	10.36
52 D 7262	0-15 A DC	14.90	12.42	11.17	10.36
52 D 7285	0-50 A DC	14.90	12.42	11.17	10.36
52 D 7286	0-10 V. DC	13.86	11.55	10.39	9.63
52 D 7273	0-15 V. DC	13.86	11.55	10.39	9.63
52 D 7287	0-30 V. DC	13.86	11.55	10.39	9.63
52 D 7255	0-50 V. DC	13.86	11.55	10.39	9.63
52 D 7256	0-100 V. DC	13.86	11.55	10.39	9.63
52 D 7257	0-150 V. DC	13.86	11.55	10.39	9.63
52 D 7288	0-300 V. DC	13.86	11.55	10.39	9.63
52 D 7300	0-50 mv. DC	12.90	10.75	9.77	8.97
52 D 7302	0-100 mv DC	12.90	10.75	9.77	8.97
52 D 7269	0-5 A AC	18.94	15.79	14.20	13.15
52 D 7270	0-10 A AC	18.94	15.79	14.20	13.15
52 D 7265	0-150 V. AC	16.76	13.97	12.57	11.64
52 D 7266	0-300 V. AC	16.76	13.97	12.57	11.64

6" METERS

Stock No.	Range	EACH 1-9	10-24	25-49	50-99
52 D 7244	25-0-25 μa DC	17.16	14.30	12.87	11.92
52 D 7241	0-50 μa DC	16.86	13.95	12.64	11.72
52 D 7289	50-0-50 μa DC	16.98	14.16	12.87	11.80
52 D 7242	0-100 μa DC	14.95	12.50	11.25	10.43
52 D 7290	100-0-100 μa DC	14.78	12.32	10.98	10.26
52 D 7243	0-200 μa DC	14.36	11.97	10.77	9.98
52 D 7250	0-1 ma DC	13.62	11.35	10.21	9.47
52 D 7251	0-3 ma DC	13.62	11.35	10.21	9.47
52 D 7291	0-10 ma DC	13.62	11.35	10.21	9.47
52 D 7252	0-15 ma DC	13.62	11.35	10.21	9.47
52 D 7292	0-20 ma DC	13.62	11.35	10.21	9.47
52 D 7293	0-50 ma DC	14.56	11.95	10.92	9.98
52 D 7253	0-100 ma DC	14.56	11.95	10.92	9.98
52 D 7254	0-200 ma DC	14.56	11.95	10.92	9.98
52 D 7294	0-1 A DC	14.56	11.95	10.92	9.98
52 D 7295	0-5 A DC	16.95	14.29	12.86	11.91
52 D 7263	0-10 A DC	16.95	14.29	12.86	11.91
52 D 7264	0-15 A DC	16.95	14.29	12.86	11.91
52 D 7296	0-50 A DC	16.95	14.29	12.86	11.91
52 D 7297	0-10 V. DC	15.94	13.29	11.95	10.98
52 D 7274	0-15 V. DC	15.94	13.29	11.95	10.98
52 D 7298	0-30 V. DC	15.94	13.29	11.95	10.98
52 D 7258	0-50 V. DC	15.94	13.29	11.95	10.98
52 D 7259	0-100 V. DC	15.94	13.29	11.95	10.98
52 D 7260	0-150 V. DC	15.94	13.29	11.95	10.98
52 D 7299	0-300 V. DC	15.94	13.29	11.95	10.98
52 D 7301	0-50 mv DC	14.78	12.32	10.99	10.26
52 D 7303	0-100 mv DC	14.78	12.32	10.99	10.26
52 D 7271	0-5 A AC	21.78	17.99	16.33	14.98
52 D 7272	0-10 A AC	21.78	17.99	16.33	14.98
52 D 7267	0-150 V. AC	19.28	15.97	14.46	13.39
52 D 7268	0-300 V. AC	19.28	15.97	14.46	13.39

Simpson

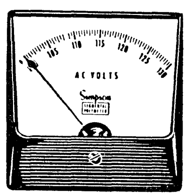
3½" and 4½" sizes

"WIDE-VIEW" PANEL METERS

SEGMENTAL VOLTMETERS

METER DIMENSIONS

Model No.	Flange	Body Dia.	Depth	Scale Length
1347	3.25x3.25"	2.73"	1.08"	3.14"
1349	4.00x4.68"	2.75"	1.08"	3.53"



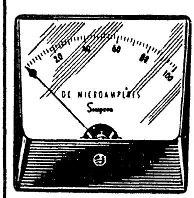
Type 1349 4½" Meter. Expanded scale; has ranges of 100-130, 200-260, 400-520 AC volts. Primarily for monitoring line voltages. Op. range, 20-20,000 cps. Accuracy, ±0.5% center scale. Freq. influence, less than 0.5%. Sens.: 160-100 ohms/v. end scale. 1½ lbs.
52 D 6890 .... 55.80

Type 1347 3½" Meter. Expanded scale; 100-130 VAC—used primarily to monitor line voltage. Op. range: 20-20,000 cps. Accuracy, ±0.5%; freq. influence, less than 0.5% center scale. Sens., 160-100 ohms/volt end scale. Intermittent input, 150 v. rms. 1 lb.
52 D 6081 .... 45.00

Type 1349 4½" Meter. Expanded scale; AC voltages from 100-130. Accuracy, ±0.5% center scale @ 25°C and 60 cps sine wave. Op. range: 20-20,000 cps. Freq. influence, less than 0.5%. Sens., 160 to 100 ohms/v. end scale. Int. input, 150 v. rms. 1½ lbs.
52 D 6887 .... 45.15

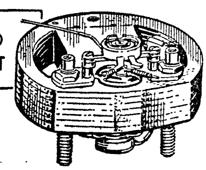
VU METERS

Model 1349—A Scale—4½" Stock No.	EACH 1-9	10-24	25-49	Range	Model 1349—B Scale—4½" Stock No.	EACH 1-9	10-24	25-49
52 D8949	26.10	23.49	22.19	−20 to 3	52 D8950	26.10	23.49	22.19



TAUT BAND DC PANEL METERS

TAUT BAND MOVEMENT



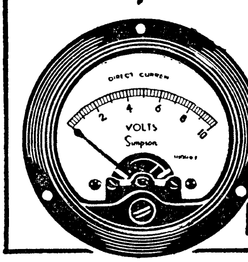
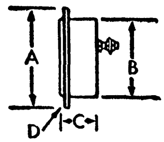
Models 1327 1329

Wide-view microammeters utilize taut-band movements for greatly increased repeatability and lower resistance. Have 25% fewer parts, thereby reducing chances of failure. Meet rigid quality and performance standards. Accuracy is ±2% of full scale. Movement resistance, 1960 ohms, except *4900 ohms, †1120 ohms, §503 ohms. Scale length: Model 1327, 3 3/64"; Model 1329, 3 15/16". Black spade pointers. Case is constructed of molded black phenolic base with high temperature black plastic cover. Sizes: Model 1327, 3¼x3¼x2 13/32"; Model 1329, 4 11/64x4 11/16x2 13/32". All require 1¾" behind panel, have ¼-28 threaded terminals. With all hardware. ‡Range. Shpg. wts.: Model 1327, 8 oz.; Model 1329, 10 oz.

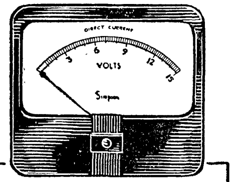
3½" and 4½" DC PANEL METERS

Model 1327T 3½" Meters Stock No.	EACH 1-9	10-24	25-49	‡	Model 1329T 4½" Meters Stock No.	EACH 1-9	10-24	25-49
52 D 8101	29.70	26.73	25.25	10*	52 D 8106	32.10	28.89	27.29
52 D 8102	26.40	23.76	22.44	15	52 D 8107	28.80	25.92	24.48
52 D 8103	23.85	21.47	20.27	25	52 D 8108	26.10	23.49	22.19
52 D 8104	20.55	18.50	17.47	50†	52 D 8109	22.05	19.85	18.74
52 D 8105	18.90	17.01	16.07	100§	52 D 8110	20.83	18.75	17.71

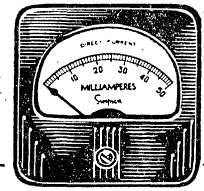
Simpson Round and Rectangular Panel Meters

3½" Models 25, 55



4½" Models 29, 39, 59



2½" Models 127, 157
3½" Models 27, 37, 57

DC UNITS have 100° dial arcs; accuracy is ±2% of full scale. Have Simpson External-Type Movement calibrated for non-magnetic metal panels. Model 183 external multipliers furnished on 2½" meters with ranges of 750 volts or higher, and on 3½" and 4½" meters of 1000 volts and higher. Others are self-contained. AC AND RF UNITS also have 100° dial arcs; accurate within ±2%, full scale, except rectifier types ±3%. AC meters have iron-vane movements calibrated for 25-125 cps, except AC milliammeters and ammeters for 25-800 cps. Model 183 external multiplier furnished on 500-volt AC meters; others have self-contained multipliers. (75-amp AC ammeters supplied less transformer required.) Black bakelite cases. With hardware, template. *Depth behind panel, less terminals. DC ammeters 50 amps and over require external shunt—see facing page; include 5' leads. Av. shpg. wt., 1 lb.

- ±2% Full-Scale Accuracy • 100° Dial Arcs
- DC Units Have External-Type Movement

METER DIMENSIONS

Model	Flange (A)	Body Dia. (B)	Depth* (C)	Scale Length (D)
25	3.50"	2.75"	1.31"	2.5"
27, 37	3.12x3.00"	2.75"	1.36"	2.56"
29, 39	4.20x4.66"	2.75"	1.00"	3.91"
55	3.50"	2.75"	1.41"	2.3"
57	3.12x3.00"	2.75"	1.45"	2.56"
59	4.20x4.66"	2.75"	1.09"	3.91"
127, 157	2.37x2.37"	2.17"	1.45"	1.88"

DC MILLIAMMETERS

Range	Model 127 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 25 3½" Rnd.	Model 27 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 29 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-1	52 D 8817	13.50	12.15	11.48	52 D 8400	52 D 7520	14.10	12.69	11.99	52 D 7420	15.45	13.91	13.13
0-1.5	....	13.50	12.15	11.48	52 D 8401	....	14.10	12.69	11.99	52 D 7449	15.45	13.91	13.13
0-3	52 D 8821	13.50	12.15	11.48	52 D 8402	....	14.10	12.69	11.99	52 D 8801	15.45	13.91	13.13
0-5	52 D 8823	13.50	12.15	11.48	52 D 8403	52 D 7521	14.10	12.69	11.99	52 D 7421	15.45	13.91	13.13
0-10	52 D 8825	13.50	12.15	11.48	52 D 8404	52 D 7522	14.10	12.69	11.99	52 D 7422	15.45	13.91	13.13
0-15	52 D 8827	13.50	12.15	11.48	52 D 8405	52 D 7530	14.10	12.69	11.99	52 D 7430	15.45	13.91	13.13
0-25	52 D 8829	14.25	12.83	12.11	52 D 8406	52 D 7523	14.70	13.23	12.50	52 D 7423	16.35	14.72	13.90
0-50	52 D 8831	14.25	12.83	12.11	52 D 8407	52 D 7524	14.70	13.23	12.50	52 D 7424	16.35	14.72	13.90
0-100	52 D 8833	14.25	12.83	12.11	52 D 8409	52 D 7525	14.70	13.23	12.50	52 D 7425	16.35	14.72	13.90
0-150	52 D 8835	14.25	12.83	12.11	52 D 8410	....	14.70	13.23	12.50	52 D 7432	16.35	14.72	13.90
0-200	52 D 8957	14.25	12.83	12.11	52 D 8411	52 D 7526	14.70	13.23	12.50	52 D 7426	16.35	14.72	13.90
0-250	....	14.25	12.83	12.11	52 D 8412	52 D 7533	14.70	13.23	12.50	52 D 7433	16.35	14.72	13.90
0-300	52 D 8837	14.25	12.83	12.11	52 D 8413	52 D 7527	14.70	13.23	12.50	52 D 7427	16.35	14.72	13.90
0-500	52 D 8839	14.25	12.83	12.11	52 D 8414	52 D 7528	14.70	13.23	12.50	52 D 7428	16.35	14.72	13.90
0-1000	52 D 8959	14.25	12.83	12.11	52 D 8415	52 D 7529	14.70	13.23	12.50	52 D 7429	16.35	14.72	13.90

DC VOLTMETERS

†Have external multiplier resistors. 1.5-300 v. units are 1000 ohms/volt; 500-5000 v. units are 2000 ohms/volt.

Range	Model 127 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 25 3½" Rnd.	Model 27 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 29 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-1.5	52 D 8987	14.40	12.96	12.24	52 D 8416	....	14.85	13.37	12.62	52 D 7611	16.35	14.72	13.90
0-3	52 D 8841	14.40	12.96	12.24	52 D 8417	52 D 7515	14.85	13.37	12.62	52 D 7415	16.35	14.72	13.90
0-5	52 D 8843	14.40	12.96	12.24	52 D 8418	52 D 7516	14.85	13.37	12.62	52 D 7416	16.35	14.72	13.90
0-8	52 D 8960	14.40	12.96	12.24	52 D 8419	....	14.85	13.37	12.62	52 D 7401	16.35	14.72	13.90
0-10	52 D 8845	14.40	12.96	12.24	52 D 8420	52 D 7501	14.85	13.37	12.62	52 D 7402	16.35	14.72	13.90
0-15	52 D 8847	14.40	12.96	12.24	52 D 8421	52 D 7502	14.85	13.37	12.62	52 D 7403	16.35	14.72	13.90
0-25	52 D 8849	14.40	12.96	12.24	52 D 8422	52 D 7517	14.85	13.37	12.62	52 D 7417	16.35	14.72	13.90
0-50	52 D 8851	14.40	12.96	12.24	52 D 8423	52 D 7518	14.85	13.37	12.62	52 D 7418	16.35	14.72	13.90
0-100	52 D 8853	14.40	12.96	12.24	52 D 8424	52 D 7507	14.85	13.37	12.62	52 D 7405	16.35	14.72	13.90
0-150	52 D 8855	14.40	12.96	12.24	52 D 8425	52 D 7504	14.85	13.37	12.62	52 D 7406	16.35	14.72	13.90
0-200	....	14.40	12.96	12.24	52 D 8426	52 D 7519	14.85	13.37	12.62	52 D 7419	16.35	14.72	13.90
0-250	52 D 8857	14.40	12.96	12.24	52 D 8427	....	14.85	13.37	12.62	52 D 7407	16.35	14.72	13.90
0-300	52 D 8859	14.40	12.96	12.24	52 D 8428	52 D 7508	14.85	13.37	12.62	52 D 7408	16.35	14.72	13.90
0-500	52 D 8861	15.25	13.73	12.96	52 D 8429	52 D 7509	15.60	13.98	13.26	52 D 7409	16.95	15.26	14.41
†0-1000	....	....	....	....	52 D 8430	52 D 7510	19.35	17.42	16.45	52 D 7410	21.15	19.04	17.98
†0-1500	....	....	....	....	....	52 D 7514	19.65	17.69	16.70	52 D 7411	21.45	19.31	18.23
†0-2000	....	....	....	....	....	52 D 7511	20.10	18.09	17.09	52 D 7412	21.90	19.71	18.62
†0-3000	....	....	....	....	....	52 D 7512	20.70	18.53	17.60	52 D 7413	22.50	20.25	19.13
†0-5000	....	....	....	....	....	52 D 7513	21.30	19.17	18.11	52 D 7414	23.10	20.79	19.64

DC MILLIVOLTMETERS

Range	Model 127 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 25 3½" Rnd.	Model 27 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 29 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-50	52 D 7562	13.80	12.48	11.73	52 D 7563	52 D 7564	14.25	12.83	12.11	52 D 7576	15.60	13.98	13.26

DC AMMETERS

‡ Use external portable shunts listed on facing page.

Range	Model 127 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 25 3½" Rnd.	Model 27 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 29 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-1	52 D 8865	14.25	12.83	12.11	52 D 8431	52 D 7535	14.70	13.40	12.50	52 D 7435	16.20	14.58	13.77
0-2	52 D 8867	14.25	12.83	12.11	52 D 8432	52 D 7536	14.70	13.40	12.50	52 D 7436	16.20	14.58	13.77
0-3	52 D 8869	14.25	12.83	12.11	52 D 8433	52 D 7537	14.70	13.40	12.50	52 D 7437	16.20	14.58	13.77
0-5	52 D 8871	14.25	12.83	12.11	52 D 8434	52 D 7538	14.70	13.40	12.50	52 D 7438	16.20	14.58	13.77
0-10	52 D 8873	14.25	12.83	12.11	52 D 8435	52 D 7539	14.70	13.40	12.50	52 D 7439	16.20	14.58	13.77
0-15	52 D 8875	14.25	12.83	12.11	52 D 8436	52 D 7046	14.70	13.40	12.50	52 D 7047	16.20	14.58	13.77
0-25	52 D 8877	14.25	12.83	12.11	52 D 8437	52 D 7540	14.70	13.40	12.50	52 D 7440	16.20	14.58	13.77
‡0-50	52 D 8879	14.25	12.83	12.11	52 D 8438	52 D 7542	14.70	13.40	12.50	52 D 7442	16.20	14.58	13.77
‡0-75	....	13.80	12.42	11.73	52 D 8439	....	14.25	12.83	12.11	52 D 8805	15.90	14.31	13.52
‡0-100	....	13.80	12.42	11.73	52 D 8440	52 D 8803	14.25	12.83	12.11	52 D 8806	15.90	14.31	13.52
‡0-150	52 D 8962	13.80	12.42	11.73	52 D 8441	....	14.25	12.83	12.11	52 D 8807	15.90	14.31	13.52

Specify Range and Model No. on All Meter Orders

Standard and Edgewise Panel Meters

Simpson

DC MICROAMMETERS

Range	Model 127 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 25 3½" Rnd.	Model 27 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 29 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-25	52 D 8885	21.75	19.58	18.49	52 D 8443	52 D 7544	22.65	20.39	19.15	52 D 7444	25.00	22.50	21.25
0-50	52 D 8887	18.90	17.01	16.07	52 D 8444	52 D 7545	19.35	17.42	16.45	52 D 7445	20.85	18.77	17.72
0-100	52 D 8889	16.35	14.72	13.90	52 D 8445	52 D 7546	17.10	15.39	14.54	52 D 7446	19.05	17.15	16.19
0-200	52 D 8891	14.55	13.10	12.37	52 D 8446	52 D 7547	15.45	13.91	13.13	52 D 7447	17.10	15.39	14.54
0-500	52 D 8893	14.10	12.69	11.99	52 D 8447	52 D 7548	15.45	13.91	13.13	52 D 7448	16.35	14.72	13.90
25-0-25	...	...	...	...	52 D 8448	52 D 7684	19.10	17.19	16.24	52 D 7691	21.00	18.90	17.85
50-0-50	...	...	...	...	52 D 8449	52 D 7685	17.25	15.53	14.66	52 D 7692	19.20	17.28	16.32
100-0-100	...	...	...	...	52 D 8450	52 D 7686	15.60	13.98	13.26	52 D 7693	17.40	15.66	14.79
500-0-500	...	...	...	...	52 D 8451	52 D 7687	14.25	12.83	11.99	52 D 7694	15.60	14.04	13.26

AC MILLIAMMETERS

Range	Model 157 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 55 3½" Rnd.	Model 57 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 59 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-50	52 D 7022	12.75	11.48	10.84	52 D 8452	52 D 7565	13.50	12.15	11.48	52 D 7465	15.90	14.31	13.52
0-100	52 D 7023	12.75	11.48	10.84	52 D 8453	52 D 7566	13.50	12.15	11.48	52 D 7466	15.90	14.31	13.52
0-250	52 D 7024	12.75	11.48	10.84	52 D 8454	52 D 7567	13.50	12.15	11.48	52 D 7467	15.90	14.31	13.52
0-500	52 D 7025	12.75	11.48	10.84	52 D 8455	52 D 7568	13.50	12.15	11.48	52 D 7468	15.90	14.31	13.52

AC VOLTMETERS

0-3	...	...	...	...	52 D 8457	...	13.80	12.42	11.73	52 D 7450	15.60	14.04	13.26
0-5	...	...	...	...	52 D 8458	52 D 7559	13.80	12.42	11.73	52 D 7459	15.60	14.04	13.26
0-10	52 D 7029	12.90	11.61	10.97	52 D 8459	...	13.80	12.42	11.73	52 D 7451	15.60	14.04	13.26
0-15	52 D 7030	12.90	11.61	10.97	52 D 8460	52 D 7552	13.80	12.42	11.73	52 D 7452	15.60	14.04	13.26
0-25	52 D 7031	13.50	12.15	11.48	52 D 8461	52 D 7560	14.10	12.69	11.99	52 D 7460	15.75	14.18	13.39
0-50	52 D 7032	13.50	12.15	11.48	52 D 8462	52 D 7553	14.10	12.69	11.99	52 D 7453	15.75	14.18	13.39
0-150	52 D 7033	14.25	12.83	12.11	52 D 8463	52 D 7555	15.15	13.64	12.88	52 D 7455	16.35	14.72	13.90
0-250	52 D 7034	14.25	12.83	12.11	52 D 8464	52 D 7561	15.15	13.64	12.88	52 D 7461	16.35	14.72	13.90
0-300	52 D 7035	14.25	12.83	12.11	52 D 8465	52 D 7556	15.15	13.64	12.88	52 D 7456	16.35	14.72	13.90
0-500	...	...	...	...	52 D 8466	52 D 7557	19.50	17.55	16.58	52 D 7457	20.25	18.23	17.21

AC AMMETERS

Range	Model 157 2½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 55 3½" Rnd.	Model 57 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 59 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-1	52 D 7037	12.75	11.48	10.84	52 D 8467	52 D 7575	13.50	12.15	11.48	52 D 7475	15.90	14.31	13.52
0-3	52 D 7038	12.75	11.48	10.84	52 D 8468	52 D 7577	13.50	12.15	11.48	52 D 7477	15.90	14.31	13.52
0-5	52 D 7039	12.75	11.48	10.84	52 D 8469	52 D 7578	13.50	12.15	11.48	52 D 7478	15.90	14.31	13.52
0-10	52 D 7040	12.75	11.48	10.84	52 D 8470	52 D 7579	13.50	12.15	11.48	52 D 7479	15.90	14.31	13.52
0-15	52 D 7041	12.75	11.48	10.84	52 D 8471	52 D 7582	13.50	12.15	11.48	52 D 7482	15.90	14.31	13.52
0-25	52 D 7042	13.05	11.75	11.09	52 D 8472	52 D 7580	13.80	12.48	11.73	52 D 7480	16.50	14.85	14.03
0-30	52 D 7048	13.05	11.75	11.09	52 D 8473	52 D 7612	13.80	12.48	11.73	52 D 7613	16.50	14.85	14.03
0-50	52 D 7043	13.05	11.75	11.09	52 D 8474	52 D 7581	13.80	12.48	11.73	52 D 7481	16.50	14.85	14.03
0-75	...	...	...	...	52 D 8475	52 D 8810	13.50	12.15	11.48	52 D 8811	15.90	14.31	13.52

PORTABLE SHUNTS FOR DC AMMETERS

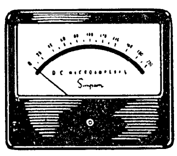
Amps	Stock No.	Mfr's Type	EACH 1-9	EACH 10-24	EACH 25-49
50	52 D 6921	6709	7.90	7.11	6.72
75	52 D 6919	6711	7.90	7.11	6.72
100	52 D 6922	6713	7.90	7.11	6.72
150	52 D 6939	6714	7.90	7.11	6.72
200	52 D 6941	6715	7.90	7.11	6.72

RF AMMETERS

Internal Thermocouple Type. Self-Shielding Meter Movement.

Range	Model 37 3½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49	Model 39 4½" Rect.	EACH 1-9	EACH 10-24	EACH 25-49
0-1	...	...	...	...	52 D 7495	19.05	17.15	16.19
0-2	52 D 7587	16.50	14.85	14.03	...	...	...	...
0-3	52 D 7588	16.50	14.85	14.03	52 D 7488	19.05	17.15	16.19
0-5	52 D 7589	16.50	14.85	14.03	52 D 7489	19.05	17.15	16.19

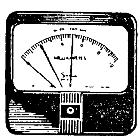
1150 6" DC MICROAMMETERS



6" rectangular panel meters. Accuracy, ±2%. Ranges 15 through 100 employ high-flux movements designated as Model 1150H and cannot be calibrated for operation on steel panels. Ranges 200 through 500 use a 1⁵⁄₁₆" shallow-core movement designated as Model 1150E. Shpg. wt., 2 lbs.

Stock No.	Range	1-9, EACH	10-24, EACH	25-49, EACH
52 D 6241	0-15	33.00	29.70	27.99
52 D 6242	0-25	29.55	26.60	25.12
52 D 6243	0-50	27.00	24.30	22.95
52 D 6244	0-100	25.80	23.22	21.93
52 D 6245	0-200	22.50	20.25	19.13
52 D 6246	0-500	21.90	19.71	18.62

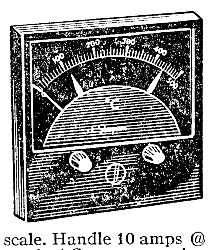
29XA ADJUSTABLE METER RELAYS



Current and voltage actuated. Excellent for alarm, control, or limit-setting uses. Non-locking contacts can be positioned along scale arc with external control. Meter front is 4.66x4.20". Body dia., 2.75". Depth (body plus front), 1.66". Contact positioning control extends .34" from front. Shpg. wt., 1 lb.

Stock No.	Type	Range	1-9, EA.	10-24, EA.	25-49, EA.
52 D 8951	DC μa	0-50	48.60	43.74	41.31
52 D 8952	DC μa	0-100	46.50	41.85	39.53
52 D 8953	DC μa	0-500	42.90	38.61	36.47
52 D 8954	DC ma	0-1	42.00	37.80	35.70
52 D 8955	DC mv	0-50	42.15	37.94	35.83

332 4XA CONTACTLESS METER RELAYS



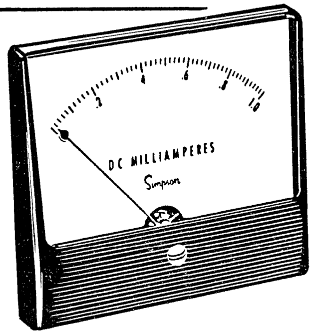
Rugged 4½" meters with adjustable memory—single or double relay control—either automatic or manual reset. Use optical control circuit to assure reliable switching (miniature photo-conductive sensor, with infinite-life lamp, controls integral solid-state switching circuit actuating self-contained DPDT load relay). Fail-safe—loss of power instantly de-energizes relay. Continuous indication regardless of control point settings. Meter movement is independent of all control functions. Accuracy of set point indication, ±2% of full scale. Repeatability, 2% of full scale. Control point response zone, 0.25% of full scale. Handle 10 amps @ 115 VAC, resistive. Require 115 v., 50-500 cycle AC to power relay control circuit. 4.68x2.72x4.375". 3.72" behind panel. Wt., 1½ lbs.

SINGLE CONTROL

Stock No.	Range	1-9, EA.	10-24, EA.	25-49, EA.
52 D 8111	0-50 microamps	99.00	89.10	84.15
52 D 8112	0-100 microamps	96.15	86.54	81.73
52 D 8113	0-500 microamps	96.15	86.54	81.73
52 D 8114	0-1 milliamps	99.00	89.10	84.15

DOUBLE CONTROL

52 D 8115	0-50 microamps	136.35	122.72	115.90
52 D 8116	0-100 microamps	133.65	120.29	113.60
52 D 8117	0-500 microamps	133.50	120.15	113.48
52 D 8118	0-1 milliamps	132.45	119.21	112.58



Simpson Meters

"Wide-Vue" 3½" and 4½"

METER DIMENSIONS

Model No.	Flange	Body Dia.	Depth	Scale Length
1327	3.25x3.25"	2.73"	1.08"	3.04"
1329	4.00x4.68"	2.75"	1.08"	3.93"
1347	3.25x3.25"	2.73"	1.08"	3.14"
1349	4.00x4.68"	2.75"	1.08"	3.93"
1357	3.25x3.25"	2.73"	1.22"	3.04"
1359	4.00x4.68"	2.75"	1.20"	3.93"

EASY-TO-READ METER SCALES

Plastic covers for wide-angle readability and maximum protection. Feature longer scales—3½" has scale more than ½" longer than conventional scale. DC meters, except 0-25 & 0-50 microamps, have "self-shielded" core magnet movement not affected by steel panels or magnetic fields. 0-25, 0-50 DC microammeters have external magnet movement; AC meters iron vane movements. Accuracy ±2%. Av. wt., 1 lb.

DC VOLTMETERS

Model 1327—3½" Stock No.	EACH 1-9	10-24	25-49	Range	Model 1329—4½" Stock No.	EACH 1-9	10-24	25-49
52 D 8991	15.75	14.18	13.39	0-5	52 D 8992	17.40	15.66	14.79
52 D 8149	15.75	14.18	13.39	0-10	52 D 8157	17.40	15.66	14.79
52 D 8150	15.75	14.18	13.39	0-15	52 D 8158	17.40	15.66	14.79
52 D 6870	15.75	14.18	13.39	0-30	52 D 6884	17.40	15.66	14.79
52 D 8151	15.75	14.18	13.39	0-50	52 D 8159	17.40	15.66	14.79
52 D 8152	15.75	14.18	13.39	0-100	52 D 8160	17.40	15.66	14.79
52 D 8153	15.75	14.18	13.39	0-150	52 D 8161	17.40	15.66	14.79
52 D 8993	15.75	14.18	13.39	0-200	52 D 8994	17.40	15.66	14.79
52 D 7660	15.75	14.18	13.39	0-250	....	.....	.....	.....
52 D 8155	15.75	14.18	13.39	0-300	52 D 8163	17.40	15.66	14.79
52 D 8905	16.50	14.85	13.99	0-750	52 D 8906	17.85	16.07	15.17
52 D 8995	20.55	18.50	17.48	0-1000	52 D 8896	21.90	19.71	16.82

DC MILLIAMMETERS

52 D 8181	14.85	13.37	12.62	0-1	52 D 8186	15.75	14.18	13.39
52 D 7662	14.85	13.37	12.62	0-3	52 D 7663	15.75	14.18	13.39
52 D 8182	14.85	13.37	12.62	0-10	52 D 8187	15.75	14.18	13.39
52 D 8907	14.85	13.37	12.62	0-15	52 D 8908	15.75	14.18	13.39
52 D 8969	14.85	13.37	12.62	0-20	52 D 8997	15.75	14.18	13.39
52 D 8183	15.30	13.77	12.98	0-50	52 D 8188	16.50	14.85	13.99
52 D 8184	16.50	14.85	13.99	0-100	52 D 8189	16.50	14.85	13.99
52 D 8185	15.30	13.77	12.98	0-150	52 D 8190	16.50	14.85	13.99
52 D 8909	15.30	13.77	12.98	0-200	52 D 8910	16.50	14.85	13.99
52 D 8998	15.30	13.77	12.98	0-750	52 D 8999	16.50	14.85	13.99
52 D 7668	15.30	13.77	12.98	0-1000	52 D 7669	16.50	14.85	13.99

DC MICROAMMETERS

52 D 8191	22.20	19.98	18.87	0-25	52 D 8195	24.45	22.01	20.78
52 D 8192	18.90	17.01	16.07	0-50	52 D 8196	20.40	18.36	17.34
52 D 8193	17.25	15.53	14.66	0-100	52 D 8197	19.20	17.28	16.32
52 D 7673	19.05	17.15	16.19	25-0-25	52 D 7674	20.55	18.50	17.48
52 D 8194	17.45	15.71	14.83	50-0-50	52 D 8198	19.35	17.42	16.45
52 D 8917	15.90	14.31	13.52	100-0-100	52 D 8918	17.55	15.80	14.92
52 D 8919	15.15	13.64	12.88	500-0-500	52 D 8920	15.90	14.31	13.52

DC AMMETERS *Require shunts, see page 417

52 D 8165	15.15	13.64	12.88	0-1	52 D 8173	16.50	14.85	14.03
52 D 8911	15.15	13.64	12.88	0-1.5	....	.....	.....	.....
52 D 8166	15.15	13.64	12.88	0-5	52 D 8174	16.50	14.85	14.03
52 D 8168	15.15	13.64	12.88	0-10	52 D 8176	16.50	14.85	14.03
52 D 8170	15.15	13.64	12.88	0-15	52 D 8178	16.50	14.85	14.03
52 D 8171	15.15	13.64	12.88	0-25	52 D 8179	16.50	14.85	14.03
52 D 8913	15.15	13.64	12.88	0-30	52 D 8914	16.50	14.85	14.03
52 D 8915	15.15	13.64	12.88	*0-100	52 D 8916	16.50	14.85	14.03
52 D 8062	15.15	13.64	12.88	*0-150	....	.....	.....	.....
....	.....	.....	.....	*0-200	52 D 8069	16.50	14.85	14.03
52 D 8064	15.15	13.64	12.88	*0-300	52 D 8070	16.50	14.85	14.03
52 D 8065	15.15	13.64	12.88	*0-500	52 D 8071	16.50	14.85	14.03
52 D 8066	16.05	14.45	13.64	15-0-15	....	.....	.....	.....
52 D 8067	16.05	14.45	13.64	30-0-30	....	.....	.....	.....

AC VOLTMETERS

Model 1357—3½" Stock No.	EACH 1-9	10-24	25-49	Range	Model 1359—4½" Stock No.	EACH 1-9	10-24	25-49
52 D 8921	13.95	12.56	11.86	0-15	52 D 8922	15.90	14.31	13.52
52 D 8923	14.40	12.96	12.24	0-50	52 D 8924	16.05	14.45	13.64
52 D 8154	15.45	13.91	13.13	0-150	52 D 8162	16.50	14.85	14.03
52 D 8156	15.45	13.91	13.13	0-300	52 D 8164	16.50	14.85	14.03

AC AMMETERS

52 D 8167	13.80	12.42	11.73	0-5	52 D 8175	16.05	14.45	13.64
52 D 8169	13.80	12.42	11.73	0-10	52 D 8177	16.05	14.45	13.64
52 D 8076	14.25	12.83	12.11	0-25	52 D 8077	16.50	14.85	14.03
52 D 8172	14.25	12.83	12.11	0-50	52 D 8180	16.50	14.85	14.03

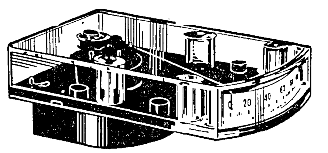
AC MILLIAMMETERS

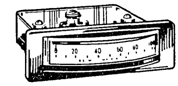
Model 1357—3½" Stock No.	EACH 1-9	10-24	25-49	Range	Model 1359—4½" Stock No.	EACH 1-9	10-24	25-49
52 D 8925	13.80	12.42	11.73	0-50	52 D 8926	16.05	14.45	13.64
52 D 8927	13.80	12.42	11.73	0-100	52 D 8928	16.05	14.45	13.64
52 D 8929	13.80	12.42	11.73	0-500	52 D 8930	16.05	14.45	13.64

RECTIFIER-TYPE AC VOLTMETERS

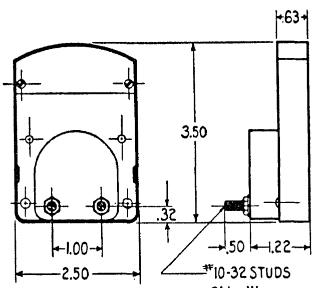
Model 1347—3½"				Range	Model 1349—4½"			
52 D 8941	20.25	18.23	17.21	0-5	52 D 8942	22.20	19.98	18.87
52 D 8943	20.25	18.23	17.21	0-10	52 D 8944	22.20	19.98	18.87
52 D 8945	20.25	18.23	17.21	0-50	52 D 8946	22.20	19.98	18.87
52 D 8087	20.25	18.23	17.21	0-150	52 D 8088	22.20	19.98	18.87
52 D 8947	20.25	18.23	17.21	0-300	52 D 8948	22.20	19.98	18.87

SIMPSON 2½" EDGEWISE PANEL METERS





- Save Panel Space
- Simple Installation



Bottom View With Stud Terminal **Side View With Stud Terminal**

Solve many of those special-application design problems. Ideal for use where panel design calls for making every square inch count or where saving weight is important. Feature "self-shielded" core magnet movements—calibrations remain unaffected by stray magnetic fields. Scale length is comparable to a conventional 2½" meter, but meter requires only half the panel area. Achieve accurate comparative readings by mounting edgewise meters next to each other. Scale length, 1⅞". Meter accuracy is ±2% of full scale. DC voltmeters have 1000 ohms/volt sensitivity (except *2000 ohms/volt). In dustproof, molded lucite cases; require 1¹⁄₁₆x2⁹⁄₁₆" cutout. Flange, 1x3¼". Schematic above shows complete dimensions. Terminals are solder lug type, except 0-5 and 0-10 ammeters have stud type terminals. Standard scale has black numbers on a white background. Shipped with bezel and two speed-nuts. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Range	EACH 1-9	10-24	25-49
52 D 7677	1522	0-50 DC Voltmeter	16.50	14.85	14.03
52 D 7678	1522	0-150 DC Voltmeter	16.50	14.85	14.03
52 D 7679	1522	*0-500 DC Voltmeter	16.80	15.12	14.28
52 D 7681	1522	0-5 DC Ammeter	17.40	15.66	14.79
52 D 7682	1522	0-10 DC Ammeter	17.40	15.66	14.79
52 D 7683	1522	0-1 DC Milliammeter	16.35	14.72	13.90
52 D 7688	1522	0-10 DC Milliammeter	16.35	14.72	13.90
52 D 7689	1522	0-100 DC Milliammeter	17.10	15.39	14.54
52 D 7690	1522	0-500 DC Milliammeter	17.10	15.39	14.54
52 D 7695	1522	0-50 DC Microammeter	21.45	19.31	18.23
52 D 7696	1522	0-100 DC Microammeter	19.20	17.28	16.32
52 D 7697	1542	VU Meter "A" Scale	27.30	24.57	23.21

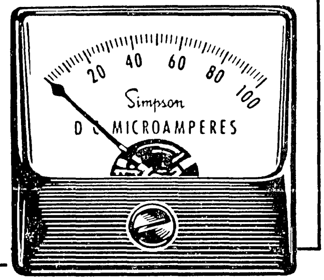
 Be Certain to Specify Range and Model No. on All Meter Orders

Accurate Panel Meters by . . . . Simpson

All in black molded bakelite cases, with recessed zero adjustments. Feature polished and shock mounted jewels. Include mounting hardware and template. Models 1212, 1214 and 1379 have "Wide-Vue" scales; self-shielded movements unaffected by stray magnetic fields. Accuracy: 1212, ±2%; ±1214, ±3% of full scale at 250° C and 60 cps sine wave; 47 and 49 rectifier-type AC voltmeters, ±3% of full scale. Meter terminals are 8-32 studs with hex nuts. Av. wt., 1 lb.

METER DIMENSIONS

Model No.	Flange	Body Dia.	Depth	Scale Length
1212	1.76x1.76″	1.5″	1.37″	1.5″
1214	1.76x1.76″	1.5″	1.37″	1.5″
47	3.12x3″	2.75″	1.36″	2.56″
49	4.2x4.66″	2.75″	1″	3.91″
79	4.2x4.66″	2″	1.68″	3.91″
1379	4.0x4.68″	2.75″	1.20″	3.93″
27	3.12x3″	2.75″	1.36″	2.56″
142	3.94x4.25″	3.25″	1″	3.5″



1212 DC AMMETERS

Stock No.	Range	EACH 1-9	10-24	25-49
51 D 9552	0-1	14.10	12.69	11.99
51 D 9553	0-2	14.10	12.69	11.99
51 D 9554	0-3	14.10	12.69	11.99
51 D 9555	0-5	14.10	12.69	11.99
51 D 9556	0-10	14.10	12.69	11.99
51 D 9557	0-15	14.10	12.69	11.99
51 D 9559	0-50	14.10	12.69	11.99

1212 DC VOLTMETERS

Stock No.	Range	EACH 1-9	10-24	25-49
51 D 9541	0-5	14.10	12.69	11.99
51 D 9542	0-10	14.10	12.69	11.99
51 D 9543	0-15	14.10	12.69	11.99
51 D 9544	0-25	14.10	12.69	11.99
51 D 9545	0-30	14.10	12.69	11.99
51 D 9546	0-50	14.10	12.69	11.99
51 D 9547	0-100	14.10	12.69	11.99
51 D 9548	0-150	14.10	12.69	11.99
51 D 9549	0-300	14.10	12.69	11.99
51 D 9550	0-500	17.70	15.93	15.05

1212 DC MILLIAMMETERS

Stock No.	Range	EACH 1-9	10-24	25-49
51 D 9560	0-1	13.65	12.29	11.60
51 D 9561	0-5	13.65	12.29	11.60
51 D 9562	0-10	13.65	12.29	11.60
51 D 9563	0-15	13.65	12.29	11.60
51 D 9564	0-25	14.10	12.69	11.99
51 D 9565	0-50	14.10	12.69	11.99
51 D 9566	0-100	14.10	12.69	11.99
51 D 9567	0-150	14.10	12.69	11.99
51 D 9568	0-200	14.10	12.69	11.99
51 D 9569	0-250	14.10	12.69	11.99
51 D 9571	0-500	14.25	12.83	12.11

1212 DC MILLIVOLTMETERS

51 D 9551	0-50	14.10	12.69	11.99

1212 DC MICROAMMETERS

51 D 9572	0-50	17.85	16.07	15.17

1212 DC MICROAMMETERS (Cont'd)

Stock No.	Range	EACH 1-9	10-24	25-49
51 D 9573	0-100	15.90	14.31	13.52
51 D 9574	0-200	14.40	12.96	12.24
51 D 9575	0-500	14.10	12.69	11.99
51 D 9576	25-0-25	18.00	16.20	15.30
51 D 9577	50-0-50	16.05	14.45	13.64
51 D 9578	100-0-100	14.55	13.10	12.37
51 D 9579	500-0-500	13.80	12.42	11.73

1214 AC RECTIFIER-TYPE VOLTMETERS

Stock No.	Range	EACH 1-9	10-24	25-49
51 D 9581	0-10	19.50	17.55	16.58
51 D 9582	0-150	19.50	17.55	16.58

1214 VU METERS

51 D 9584	−20 to +3	21.90	19.71	18.62

RECTIFIER-TYPE AC VOLTMETERS—2000 OHMS/V

Model 47—3½″ Rectangular					Model 49—4½″ Rectangular			
Stock No.	EACH 1-9	10-24	25-49	Range	Stock No.	EACH 1-9	10-24	25-49
52 D 7569	20.70	18.63	17.60	0-1	52 D 7490	22.65	20.39	19.25
52 D 7570	20.70	18.63	17.60	0-5	52 D 7491	22.65	20.39	19.25
52 D 7571	20.70	18.63	17.60	0-10	52 D 7492	22.65	20.39	19.25
....	......	......	......	0-15	52 D 7493	22.65	20.39	19.25
....	......	......	......	0-50	52 D 7494	22.65	20.39	19.25
....	......	......	......	0-150	52 D 7496	22.65	20.39	19.25

MODEL 1379 WIDE-VUE WATTMETERS

Dynamometer-type meters for measurement of DC and single-phase AC power with frequencies to 250 cps. Feature easy-to-read "Wide-Vue" scales. All units can be used with power factors below 50% if maximum ratings are observed. Calibrated for either magnetic or non-magnetic panels and for frequency range of from 25 to 125 cycles. *Compensated. Av. shpg. wt., 1 lb.

Stock No.	Range Watts	Max. Amps	Max. Volts	EACH 1-9	10-24	25-49
52 D 8476	0-10*	.175	300	51.45	46.31	43.73
52 D 8477	0-20*	.400	300	51.45	46.31	43.73
52 D 8478	0-30*	.650	300	51.45	46.31	43.73
52 D 8479	0-75	1.0	150	38.55	34.70	32.78
52 D 8480	0-150	2.0	150	38.55	34.70	32.78
52 D 8481	0-300	4.0	150	38.55	34.70	32.78
52 D 8482	0-600	4.0	300	41.25	37.13	35.06
52 D 8483	0-750	10.0	150	38.55	34.70	32.78
52 D 8484	0-1500	10.0	300	41.25	37.13	35.06
52 D 8485	0-3000	20.0	300	41.25	37.13	35.06

MODEL 79 WATTMETERS

Standard-face wattmeters. Specifications same as Model 1379, above.

52 D 8812	0-75	1.0	150	37.25	33.62	31.75
52 D 8813	0-300	4.0	150	37.25	33.62	31.75
52 D 8814	0-1500	10.0	300	40.20	36.18	34.17
52 D 8815	0-3000	20.0	300	40.20	36.18	34.17

MODEL 47 AND 142 VU METERS

Show volume level both in VU and percentage modulation. VU scale A. −20 to +3. 3900-ohm internal impedance across 600-ohm lines (zero reference, 1 mw). *Illuminated (2⅝″ deep). Wt., 1 lb.

Stock No.	Model	1-9, EACH	10-24, EACH	25-49, EACH
52 D 7597	47	24.60	22.14	20.91
52 D 7598	142	26.70	24.03	22.70
52 D 7599	142*	29.40	26.46	24.99

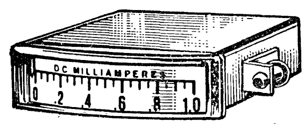
MODEL 27 DC GALVANOMETERS

Accurate indication of small currents. D'Arsonval movements. Resistance: 500-0-500 uamp meter, 46 ohms; 75-0-75 uamp, 2000 ohms. 3½″ rectangular case. Other dimensions at top of page.

Stock No.	Range	1-9, EACH	10-24, EACH	25-49, EACH
52 D 7591	500-0-500	14.55	13.10	12.37
52 D 7592	75-0-75	16.50	14.85	13.99

NEW EDGEWISE PANEL METERS

STACK HORIZONTALLY OR VERTICALLY



Miniature meters boast shelf-shielding core magnet movement that eliminates protruding barrel. Meter scale extends to nearly full width and height of meter. Accuracy, ±2% of full scale. Type 1921: scale length, 1.37″; panel cutout, .525x1.718″; depth behind panel, 2.3″. Type 1622: scale, 1.85″; panel cut out, .562x2.312″; depth behind panel, 2.3″. Av. shpg. wt., ¾ lb.

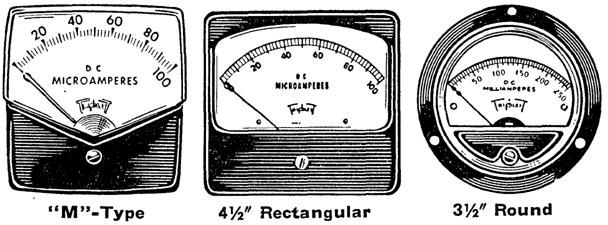
TYPE 1921 1½″ METERS

Stock No.	Range	1-9, EA.	10-24, EA.	25-49, EA.
52 D 7700	0-15 DC Voltmeter	18.45	16.61	15.68
52 D 7701	0-25 DC Voltmeter	18.45	16.61	15.68
52 D 7702	0-150 DC Voltmeter	18.45	16.61	15.68
52 D 7703	0-1 DC Milliammeter	18.15	16.34	15.43
52 D 7704	0-25 DC Milliammeter	18.90	16.97	15.99
52 D 7705	0-50 DC Milliammeter	18.90	16.97	15.99
52 D 7706	0-500 DC Milliammeter	18.90	16.97	15.99
52 D 7707	0-50 DC Millivoltmeter	19.20	17.28	16.32
52 D 7708	0-50 DC Microammeter	23.40	20.99	19.89
52 D 7709	0-500 DC Microammeter	18.75	16.88	15.94

TYPE 1622 2½″ METERS

Stock No.	Range	1-9, EA.	10-24, EA.	25-49, EA.
52 D 7730	0-15 DC Voltmeter	19.50	17.55	16.58
52 D 7731	0-25 DC Voltmeter	19.50	17.55	16.58
52 D 7732	0-150 DC Voltmeter	19.50	17.55	16.58
52 D 7733	0-1 DC Milliammeter	19.35	17.42	16.45
52 D 7734	0-25 DC Milliammeter	20.10	17.99	16.98
52 D 7735	0-50 DC Milliammeter	20.10	17.99	16.98
52 D 7736	0-500 DC Milliammeter	20.10	17.99	16.98
52 D 7737	0-50 DC Millivoltmeter	20.40	18.36	17.34
52 D 7738	0-50 DC Microammeter	24.45	21.95	20.78
52 D 7739	0-500 DC Microammeter	19.80	17.82	16.83

Standard and Edgewise Panel Meters



"M"-Type   4½" Rectangular   3½" Round

DC meters D'Arsonval type with Bar-Ring self-shielded magnets. AC meters air-damped, moving iron-vane type. All have jewel bearings, zero adjusters, cushioned pointer stops, black bakelite cases. ±2% accuracy. With mounting templates. **Specify Model, Range and Stock No.** Av. shpg. wt., ½ lb.

Model	Flange	Dia.	Depth	Scale
321T	3½"	2¾"	15/16"	2.49"
331S	3½"	2¾"	15/16"	2.22"
420	4⅝x4³⁄₁₆"	2¾"	27/32"	4.04"
430	4⅝x4³⁄₁₆"	2¾"	31/32"	3.6"
220M	2⁴⁵⁄₆₄x2⁴⁵⁄₆₄"	2¹³⁄₆₄"	1⅜"	2.5"
230M	2⁴⁵⁄₆₄x2⁴⁵⁄₆₄"	2¹³⁄₆₄"	1⅜"	2.5"
320M	3½x3½"	2¾"	1²⁵⁄₃₂"	3.34"
330M	3½x3½"	2¾"	1²⁵⁄₃₂"	3.34"
120	³³⁄₆₄x1³⁹⁄₆₄"	1²⁷⁄₆₄"	1⁵⁹⁄₆₄"	1¼"

DC MILLIAMMETERS

Range	321T 3½" Rnd.	EACH 1-9	10-24	25-49	420 4½" Rect.	EACH 1-9	10-24	25-49
0-1	52 D 6100	12.80	11.52	10.88	52 D 6136	14.10	12.69	11.99
0-5	52 D 6102	12.80	11.52	10.88	52 D 6137	14.10	12.69	11.99
0-10	52 D 6103	12.80	11.52	10.88	52 D 6138	14.10	12.69	11.99
0-100	52 D 6107	13.20	11.88	11.22	52 D 6142	14.50	13.05	12.33
0-300	52 D 6111	13.20	11.88	11.22	52 D 6146	14.50	13.05	12.33
0-500	52 D 6112	13.20	11.88	11.22	52 D 6147	14.50	13.05	12.33

DC MILLIVOLTMETERS

0-50	52 D 6088	12.80	11.52	10.80	52 D 6098	14.10	12.69	11.99
0-100	52 D 6089	12.80	11.52	10.80	52 D 6099	14.10	12.69	11.99

DC MICROAMMETERS

0-50	52 D 6050	18.80	16.92	15.98	52 D 6066	20.10	18.09	17.09
0-100	52 D 6051	16.50	14.85	14.03	52 D 6067	17.80	16.02	15.13
0-500	52 D 6053	13.60	12.24	11.56	52 D 6069	15.00	13.50	12.75

ZERO-CENTER DC MICROAMMETERS

50-0-50	52 D 6084	16.50	14.85	14.03	52 D 6094	17.80	16.02	15.13

DC AMMETERS

0-1	52 D 6440	13.20	11.88	11.22	52 D 6460	14.50	13.05	12.33
0-5	52 D 6441	13.50	12.15	11.48	52 D 6461	14.90	13.41	12.67
0-10	52 D 6442	13.50	12.15	11.48	52 D 6462	14.90	13.41	12.67
0-50	52 D 6562	13.50	12.15	11.48	52 D 6467	14.80	13.32	12.58
0-100	52 D 6563	21.60	19.44	18.36	52 D 6468	22.20	19.91	18.87
0-200	52 D 6564	21.60	19.44	18.36	52 D 6469	22.20	19.91	18.87

DC VOLTMETERS

1000 ohms per volt. Carbon film-type resistors. For use where high humidity is not encountered.

Range	321T 3½" Rnd.	EACH 1-9	10-24	25-49	420 4½" Rect.	EACH 1-9	10-24	25-49
0-10	....	13.50	12.15	11.48	52 D 6983	14.90	13.41	12.67
0-15	52 D 6964	13.50	12.15	11.48	52 D 6984	14.90	13.41	12.67
0-25	52 D 6965	13.50	12.15	11.48	52 D 6985	14.90	13.41	12.67
0-50	52 D 6966	13.50	12.15	11.48	52 D 6986	14.90	13.41	12.67
0-150	52 D 6968	13.50	12.15	11.48	52 D 6988	14.90	13.41	12.67
0-300	52 D 6971	13.50	12.15	11.48	52 D 6991	14.90	13.41	12.67

AC AMMETERS

Range	331S 3½" Rnd.	EACH 1-9	10-24	25-49	430 4½" Rect.	EACH 1-9	10-24	25-49
0-1	52 D 6300	13.30	11.97	11.31	52 D 6330	14.10	12.69	11.99
0-2	52 D 6301	13.30	11.97	11.31	52 D 6331	14.10	12.69	11.99
0-5	52 D 6303	13.30	11.97	11.31	52 D 6333	14.10	12.69	11.99
0-10	52 D 6304	13.30	11.97	11.31	52 D 6334	14.10	12.69	11.99
0-15	52 D 6308	13.30	11.97	11.31	52 D 6338	14.10	12.69	11.99
0-25	52 D 6305	13.30	11.97	11.31	52 D 6335	14.10	12.69	11.99
0-50	52 D 6306	13.30	11.97	11.31	52 D 6336	14.10	12.69	11.99

AC MILLIAMMETERS

0-10	52 D 6470	13.30	11.97	11.31	52 D 6496	14.10	12.69	11.99
0-25	52 D 6476	13.30	11.97	11.31	52 D 6447	14.10	12.69	11.99
0-50	52 D 6472	13.30	11.97	11.31	52 D 6448	14.10	12.69	11.99
0-100	52 D 6473	13.30	11.97	11.31	52 D 6497	14.10	12.69	11.99
0-200	....	13.30	11.97	11.31	52 D 6449	14.10	12.69	11.99
0-500	52 D 6475	13.30	11.97	11.31	52 D 6499	14.10	12.69	11.99

AC VOLTMETERS

†Have external resistors. Specify Range and Type No.

0-10	52 D 6201	13.30	11.97	11.31	52 D 6231	14.10	12.69	11.99
0-15	52 D 6202	13.30	11.97	11.31	52 D 6232	14.10	12.69	11.99
0-100	52 D 6205	13.30	11.97	11.31	52 D 6235	14.10	12.69	11.99
0-150	52 D 6206	14.50	13.05	12.33	52 D 6236	15.30	13.77	13.01
0-250	....	......	......	.....	52 D 6240	15.80	14.22	13.43
0-300	52 D 6207	15.70	14.13	13.35	52 D 6237	16.50	14.85	14.03
0-500†	52 D 6208	20.20	18.18	17.17	52 D 6238	21.00	18.90	17.85

"M"-TYPE WIDE-ANGLE PANEL METERS

DC VOLTMETERS

Range	220-M 2½" Rect.	EACH 1-9	10-24	25-49	320-M 3½" Rect.	EACH 1-9	10-24	25-49
0-50	51 D 9517	13.00	11.70	11.05	51 D 9518	13.50	12.15	11.48
0-150	51 D 9519	13.00	11.70	11.05	51 D 9520	13.50	12.15	11.48

DC MICROAMMETERS

0-50	51 D 9523	18.00	16.20	15.30	51 D 9524	18.80	16.92	15.98
0-100	51 D 9525	15.70	14.13	13.35	51 D 9526	16.50	14.85	14.03
0-200	51 D 9527	13.40	12.06	11.39	51 D 9528	14.20	12.78	12.07

DC MILLIAMMETERS

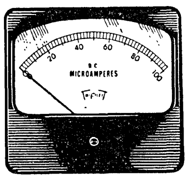
0-1	51 D 9529	12.00	10.80	10.20	51 D 9530	12.80	11.52	10.88

AC VOLTMETERS

Range	230-M—2½" Rect.				330-M—3½" Rect.			
0-150	52 D 6360	13.80	12.42	11.73	52 D 6378	14.50	13.05	12.33

AC AMMETERS

0-5	52 D 6363	12.50	11.25	10.63	52 D 6381	13.30	11.97	10.63
0-25	52 D 6366	12.50	11.25	10.63	52 D 6384	13.30	11.97	10.63

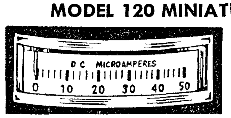


MODEL 420 TAUT-BAND DC MICROAMMETERS

Suspension-type microammeters with high shock-resistance. Have no pivots, jewels or hairsprings and no rolling friction. Conical-shaped spring-anchors absorb shock from any direction and maintain band suspension. Accuracy, ±2%. Flange, 4¹⁵⁄₃₂x2¹⁵⁄₁₆". Body diameter, 2¹³⁄₆₄". Scale length, 3.456".

Range	Stock No.	1-9 EA.	10-24 EA.	25-49 EA.
0-5	52 D 7121	41.70	37.53	35.44
0-10	52 D 7122	37.30	33.57	31.71
0-20	52 D 7123	29.60	26.64	25.16
0-50	52 D 7124	27.40	24.66	23.29
100-0-100	52 D 7125	22.80	20.52	19.38

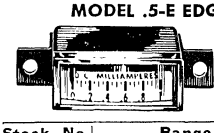
MODEL 120 MINIATURE EDGEWISE PANEL METERS



Require cutout of ⁹⁄₁₆x1¹¹⁄₁₆". D'Arsonval movement (AC units rectifier type). Self-shielded Bar-Ring magnets. Horizontal mounting. Accuracy: DC, ±2%, AC, ±3%.

Stock No.	Range	EACH 1-9	10-24	25-49
52 D 6394	0-1 DC Milliammeter	12.00	10.80	10.20
52 D 6398	0-100 DC Milliammeter	12.40	11.16	10.54
52 D 6402	0-500 DC Milliammeter	12.40	11.16	10.54
52 D 6404	0-10 DC Voltmeter	13.00	11.70	11.05
52 D 6405	0-50 DC Voltmeter	13.00	11.70	11.05
52 D 6407	0-50 DC Microammeter	18.00	16.20	15.30
52 D 6408	0-100 DC Microammeter	15.70	14.13	13.35
52 D 6409	0-200 DC Microammeter	13.40	12.06	11.39
52 D 6410	0-150 AC Voltmeter	21.70	19.53	18.45
52 D 6412	"A" Scale VU Meter	24.10	21.60	20.40

MODEL .5-E EDGEWISE STACKING METERS



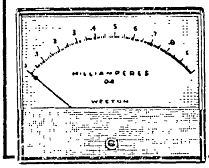
Miniature meters, ideal for stacking. Movement shielding effective even when stacked. Plastic case, window. Core magnet-moving coil mechanism. 1⁴¹⁄₆₄" mtg. ctrs. ½" high, 1¼" wide, 2⅛" deep.

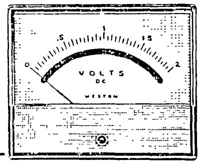
Stock No.	Range	1-9, EA.	10-24, EA.	25-49, EA.
52 D 7127	0-50 DC microammeter	32.20	28.98	27.37
52 D 7126	0-1 DC milliammeter	26.20	23.58	22.27

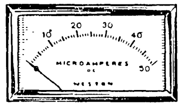
Specify Range and Model No. on Meter Orders

WESTON Taut-Band, PMS®, Standard Meters

TAUT-BAND PANEL METERS







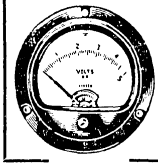
RECESS MOUNTING
(Plastic Fronts Only)

2% ACCURACY   1% ACCURACY
SURFACE MOUNTED TYPES

- Design for Minimum Power Consumption and Response Time
- Zero Correctors Provided On All 1900 Series Meters
- New 1% Types. Have Knife-Edge Pointer, Mirrored Scale

High-sensitivity taut-band meters with plastic fronts, 100° scales, zero adjusts. Available in 2% and 1% accuracy types. New 1% types feature knife-edge pointer and mirrored scale. Sizes: 1941T 1% and 2% types, 4½x4"; 1931T 2% types, 3½x3". All 2¾" body dia. All require ½" in front of panel, 1²³⁄₃₂" behind panel. Milliammeters with ranges of 50 ma or higher are shunted, have 100 mv drop. Ammeters have about 50 millivolt drop. Av. shpg. wt., ½ lb.

STANDARD PANEL METERS



SIZE CHART

Model No.	Flange	Body Dia.	Depth	Scale Length
301	3½"	2¾"	1"	2½"
302	3½"	2¾"	1"	2½"
304	3½"	2¾"	1³⁄₆₄"	2⅛"

MOUNTING BEZELS FOR TAUT-BAND METERS

For use with Taut-Band instruments having clear plastic fronts. Accommodate panels from ⅛" to ¹⁄₁₆" thick. All are supplied in a handsome, flat black enamel finish. Each bezel, with mounting hardware and drilling template, is packed in a plastic bag.

Stock No.	Description	EACH 1-9	10-24	25-49
51 D 9600	Half bezel for Model 1931T	1.30	1.12	1.04
51 D 9601	Half bezel for Model 1941T	1.35	1.22	1.08

±2%-ACCURACY TAUT-BAND METERS

Meter Range	Type 1931T 3½x3"	EACH 1-9	10-24	25-49	Type 1941T 4½x4"	EACH 1-9	10-24	25-49
0-50 μa	52 D 6213	21.00	18.90	16.80	52 D 6318	22.10	19.89	17.68
0-100 μa	52 D 6214	19.70	17.73	15.76	52 D 6319	20.70	18.63	16.56
0-200 μa	52 D 6215	18.80	16.92	15.04	52 D 6329	19.90	17.91	15.42
0-1 Ma	52 D 6217	16.60	14.94	13.28	52 D 6349	17.70	15.93	14.16
0-50 Ma	52 D 6249	16.60	14.94	13.28	....	....	....	....
0-500 Ma	....	....	....	....	52 D 6555	17.70	15.93	14.16
0-5 Amps	52 D 6269	16.60	14.94	13.28	52 D 6558	17.70	15.93	14.16
0-10 Amps	52 D 6281	16.60	14.94	13.28	52 D 6559	17.70	15.93	14.16
0-15 Volts	52 D 6311	17.40	15.66	13.92	52 D 6578	18.50	16.65	14.80
0-30 Volts	52 D 6312	17.40	15.66	13.92	52 D 6579	18.50	16.65	14.80
0-50 Volts	52 D 6313	17.40	15.66	13.92	52 D 6588	18.50	16.65	14.80

±1% TAUT-BAND METERS

Range	1941T 4½x4"	EACH 1-9	10-24	25-49
0-100 μa	51 D 5483	26.75	24.17	21.49
0-200 μa	51 D 5484	26.30	23.67	21.05
0-500 μa	51 D 5485	24.80	22.32	19.86
0-1 Ma	51 D 5486	23.90	21.51	19.11
0-10 Ma	51 D 5487	23.90	21.51	19.11
0-50 Ma	51 D 5488	23.90	21.51	19.11
0-500 Ma	51 D 5489	23.90	21.51	19.11
0-5 Amps	51 D 5490	23.90	21.51	19.11
0-10 Amps	51 D 5491	23.90	21.51	19.11
0-15 Volts	51 D 5492	24.65	22.19	19.71
0-30 Volts	51 D 5493	24.65	22.19	19.71
0-50 Volts	51 D 5494	24.65	22.19	19.71

STANDARD ROUND PANEL METERS (SIZE CHART ABOVE)

301 DC MICROAMMETERS

Range	Stk. No.	EACH 1-9	10-24	25-49
0-20	51 D 9396	23.70	21.33	18.96
0-50	51 D 9404	20.30	18.27	16.24
0-200	51 D 9411	14.90	13.41	11.92
50-0-50	51 D 9413	17.30	15.57	13.84
100-0-100	51 D 9415	14.90	13.41	11.92

301 DC AMMETERS

Range	Stk. No.	EACH 1-9	10-24	25-49
0-2	51 D 9420	14.40	12.96	11.52
0-3	51 D 9421	14.40	12.96	11.52
0-10	51 D 9425	14.40	12.96	11.52
0-15	51 D 9427	15.40	13.86	12.32
0-30	51 D 9429	15.40	13.86	12.32
0-50	51 D 9431	15.40	13.86	12.32

301 DC VOLTMETERS (1K/Volt)

Range	Stock No.	EACH 1-9	10-24	25-49
0-10	51 D 9437	14.90	13.41	11.92
0-30	51 D 9441	14.90	13.41	11.92
0-50	51 D 9443	14.90	13.41	11.92
0-100	51 D 9445	14.90	13.41	11.92

301 DC MILLIAMMETERS

Range	Stock No.	EACH 1-9	10-24	25-49
0-1	51 D 9356	14.40	12.96	11.52
0-5	51 D 9362	14.40	12.96	11.52
0-30	51 D 9369	14.40	12.96	11.52
0-50	51 D 9375	14.40	12.96	11.52
0-100	51 D 9377	14.40	12.96	11.52
0-200	51 D 9384	14.40	12.96	11.52
0-500	51 D 9388	14.40	12.96	11.52
100-0-100	51 D 9394	14.40	12.96	11.52

304 AC AMMETERS

Range	Stock No.	EACH 1-9	10-24	25-49
0-5	51 D 9490	13.75	12.36	10.98
0-10	51 D 9492	13.75	12.36	10.98
0-20	51 D 9494	13.75	12.36	10.98
0-30	51 D 9495	13.75	12.36	10.98

302 AC MICROAMMETERS

Range	Stock No.	EACH 1-9	10-24	25-49
0-100	51 D 9507	24.40	21.96	19.52
0-500	51 D 9502	20.70	18.63	16.56

302 AC MILLIAMMETERS

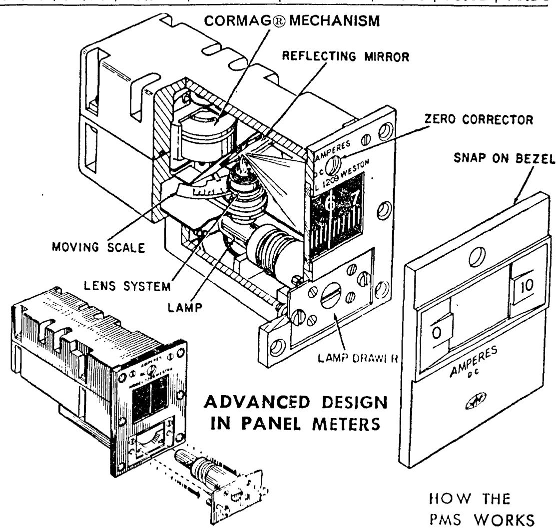
Range	Stock No.	EACH 1-9	10-24	25-49
0-1	51 D 9503	20.70	18.63	16.56
0-5	51 D 9504	20.70	18.63	16.56

PMS® 1209 PROJECTED-MOVING-SCALE METERS

- Displays Segment of Moving 8" Scale on 2½"-Wide Window
- Eliminates Parallax to Allow Side Viewing, TV Monitoring
- Self-Shielded Cormag Mechanism • Self-Illuminated
- Vertical Mechanical Axis Eliminates Pivot Roll

Provides analog display of meter reading with 1% accuracy. Cormag mechanism is coupled with an optical system to project segment of 8" moving scale on coated window. Equivalent of a 7x9" meter takes only 2½x3⅜" front panel space. Shielded mechanism. Scales have 100 divisions. Illuminated. Flange, 2⅜x3". Body, 1¾x 2²⁹⁄₃₂x4¹⁄₁₆". *Adjusted for 5' shunt leads resis. (.065 ohms). **In table below, "Black" indicates black calibrations on white background; "White" indicates white calibrations on black background.**

Range	Black No.	White No.	Resis. Ohms	EACH 1-9	10-24	25-49
0-50 μa	51 D 5700	51 D 5712	5600	61.50	55.35	52.35
0-100 μa	51 D 5701	51 D 5713	1160	60.00	54.00	51.00
0-200 μa	51 D 5702	51 D 5714	231	58.50	52.65	49.75
50-0-50 μa	51 D 5703	51 D 5715	1160	60.00	54.00	51.00
0-1 ma	51 D 5704	51 D 5716	21	55.50	49.95	47.18
0-5 ma	51 D 5705	51 D 5717	3.96	55.50	49.95	47.18
0-50 ma	51 D 5706	51 D 5718	2.0	57.00	51.30	48.45
0-2 v	51 D 5707	51 D 5719	1000/v.	58.00	52.20	49.30
0-10 v	51 D 5708	51 D 5720	1000/v.	58.00	52.20	49.30
0-50 v	51 D 5709	51 D 5721	1000/v.	58.00	52.20	49.30
0-100 v	51 D 5710	51 D 5722	1000/v.	58.00	52.20	49.30
*0-50 mv	51 D 5711	51 D 5723	5	57.00	51.30	48.45

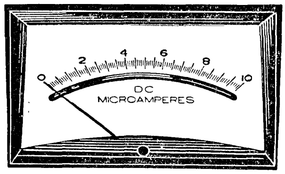


ADVANCED DESIGN IN PANEL METERS

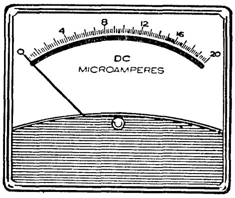
HOW THE PMS WORKS

Specify Range and Model No. on Meter Orders

api Super-Calibrated Panel Meters



SUPER CALIBRATED
TAUT BAND PANEL METERS

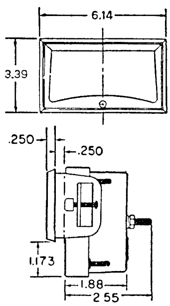


TAUT-BAND 0.5% AND 1% PANEL METERS

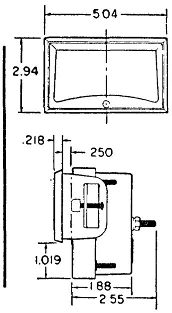
1% meters priced comparable to most 2% Taut-Band meters; 0.5% tracking types slightly higher. Sensitive, shielded taut-band meter movements are interchangeable between steel and aluminum panels.

Frictionless movements have near-perfect repeatability of 0.2%. Choice of Class II super-calibrated meters with 0.5% tracking (linearity) or Class I with 1% accuracy. All ranges have mirrored scales.

STYLIST BEZEL KIT

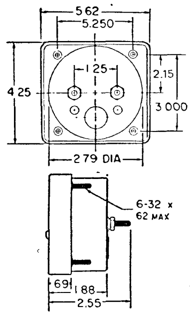


MODEL 1602

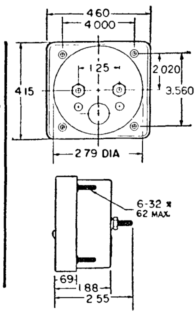


MODEL 1502

PANELIST METERS



MODEL 602



MODEL 502

STYLIST PANEL METER

Crisp, clean lines of bezel improve panel appearance. By adding a bezel kit to the Panelist meter, the bottom third of the meter is hidden behind the bezel for 30% more dial area in 15% less space. Installation is simple. Add bezel kit to Panelist meter converting it to Stylist. See right of page for **Stylist Bezel Conversion Kits.**

PANELIST PANEL METER

Sturdy plastic case is treated to repel dust and eliminate static. Meter dimensions are standardized for easy interchangeability with other makes.

MODEL 602-II PANELIST CLASS II / MODEL 502-II PANELIST CLASS II

DC Range	Ohms (±20%)	602-II Stock No.	EACH 1-9	EACH 10-24	502-II Stock No.	EACH 1-9	EACH 10-24
0-10 μa	4300	51 D 5300	51.00	43.35	51 D 5311	49.00	41.65
0-20 μa	2900	51 D 5301	37.00	31.45	51 D 5312	35.00	29.75
0-50 μa	1000	51 D 5302	31.75	26.99	51 D 5313	29.75	25.29
0-100 μa	1050	51 D 5303	30.25	25.71	51 D 5314	28.25	24.01
0-500 μa	210	51 D 5304	28.75	24.44	51 D 5315	27.25	23.16
5-0-5 μa	4300	51 D 5305	51.50	43.78	....	....	....
50-0-50 μa	1050	51 D 5306	30.75	26.14	51 D 5317	28.75	24.44
500-0-500 μa	100	51 D 5597	29.25	24.86	51 D 5598	27.75	23.59
0-1 ma	100	51 D 5307	28.75	24.44	51 D 5318	27.25	23.16
0-10 mv	40	51 D 5308	35.50	30.18	....	....	....
0-50 mv	50	51 D 5309	30.25	25.71	....	....	....

1% MODEL 602-I PANELIST CLASS I / 1% MODEL 502-I PANELIST CLASS I

DC Range	Ohms (±20%)	602-I Stock No.	EACH 1-9	EACH 10-24	502-I Stock No.	EACH 1-9	EACH 10-24
0-10 μa	5000	51 D 5322	46.00	39.10	51 D 5333	44.00	37.40
0-20 μa	3000	51 D 5323	32.00	27.20	51 D 5334	30.00	25.50
0-50 μa	1900	51 D 5324	26.75	22.74	51 D 5335	24.75	21.08
0-100 μa	1080	51 D 5325	25.25	21.46	51 D 5336	23.25	19.66
0-500 μa	175	51 D 5326	23.75	20.19	....	....	....
5-0-5 μa	5000	51 D 5327	46.50	39.53	51 D 5338	44.50	37.83
50-0-50 μa	1080	51 D 5328	25.75	21.89	51 D 5339	23.75	20.19
0-1 ma	100	51 D 5329	23.75	20.19	51 D 5340	22.75	18.91
0-10 mv	40	51 D 5330	30.50	25.93	51 D 5341	28.50	24.23
0-50 mv	50	51 D 5331	25.25	21.46	51 D 5342	23.75	20.19
5-0-5 mv	40	51 D 5332	31.00	26.35	....	....	....

CLASS II SUPER-CALIBRATED 0.5% PANEL METERS

0.5% tracking (linearity); 2% full scale accuracy. For adjustable circuit applications where zero and full scale are electrically adjustable (VTVM, thermistor-bridge, etc.). When used with this type of circuit, 0.5% readout accuracy is allowed. See above left for dimensions.

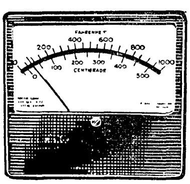
CLASS I SUPER-CALIBRATED 1% PANEL METERS

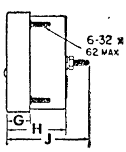
A long needed stock item; 1% accuracy full scale meters at a low price. Ideal for use with non-adjustable circuits measuring absolute values such as an ammeter or voltmeter. All have 100 division scales. For Class I and Class II; Model 602 scale arc, 4.85″; Model 502 scale arc, 4″.

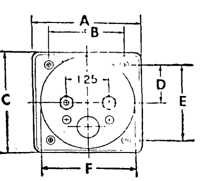
STYLIST BEZEL CONVERSION KITS

To convert Panelist meter to Stylist meter, specify range, model and stock number of Panelist meter. Then add model and stock number for either 1602 or 1502, below.

51 D 5355. Model 1602. For 602-II... 1.50
51 D 5356. Model 1502. For 502-II... 1.25







Adjustable External Resistor Compensates Up to 10 Ohms

TABLE OF DIMENSIONS IN INCHES

Type	A	B	C	D	E	F	G	H	J
503	4.71	4.00	4.27	2.02	3.56	2.79	0.76	1.95	2.62
603	5.75	5.25	4.36	2.15	3.00	2.79	0.76	1.95	2.62

MODEL 503 PYROMETER—2% ACCURACY

Thermocouple-actuated with copper error-compensation. Automatic bimetal cold-junction correction. External resistor adjusts for thermocouples up to 10 ohms. Mirrored F° and C° scales. Knife-edge pointers. I/C for Iron-Constantan; C/A for Chromel-Alumel; Cu/C, Copper Constantan. Phenolic case. Scale arc, 4″. 2 lbs.

Stock No.	Temperature Range °F	Temperature Range °C	Thermo-couple	EACH 1-9	EACH 10-24
51 D 5500	−200/+100	−130/+40	Cu/C	40.00	34.00
51 D 5344	−75/+225	−60/+110	I/C	35.00	29.75
51 D 5345	0/300	0/150	I/C	34.00	28.90
51 D 5346	0/500	0/260	I/C	32.00	27.20
51 D 5347	0/750	0/400	I/C	32.00	27.20
51 D 5348	0/1000	0/500	I/C	32.00	27.20
51 D 5349	0/1500	0/800	C/A	29.00	24.65
51 D 5350	0/2000	0/1100	C/A	28.00	23.40
51 D 5351	0/2500	0/1650	C/A	28.00	23.40

MODEL 603-I PYROMETER—1% ACCURACY

Same as Model 503 above, but offer 1% accuracy. Scale arc 5″.

Stock No.	Temperature Range °F	Temperature Range °C	Thermo-couple	EACH 1-9	EACH 10-24
52 D 7800	−450/+100	−65/+40	Cu/C	50.75	43.14
52 D 7802	0/300	0/150	I/C	44.75	38.04
52 D 7803	0/500	0/260	I/C	42.75	36.34
52 D 7804	0/750	0/400	I/C	42.75	36.34
52 D 7805	0/1000	0/500	I/C	42.75	36.34
52 D 7806	0/1500	0/800	C/A	39.75	33.79
52 D 7807	0/2000	0/1100	C/A	38.75	32.94
52 D 7808	0/2500	0/1370	C/A	38.75	32.94
52 D 7809	0/3000	0/1650	PLT 13%	42.75	36.34

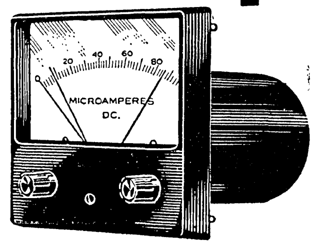
"Compack I" Optical Meter-Relay Controllers

CONTACTLESS ADJUSTABLE SET-POINT INDICATING METER RELAY CONTROLLERS

Monitor or Control Any Signal Measurable on a Panel Meter:

- Motor Load, RPM
- Voltage
- Inductance
- Phase
- Resistance
- Current
- Pressure, Temp.
- Vacuum

Below set point: (on a high set point meter) light is focused on photocell keeping load relay coil energized (fail safe). At or above set point: light is abruptly cut off from photocell, instantly de-energizing coil and closing contacts. Operation unaffected by ambient light. Double set point units energize both relay coils when signal is between the two set points. Shpg. wt., 3 lbs.



OPTICAL METER RELAY FEATURES

Taut-Band Construction for Sensitive Meter Ranges . . . Continuous Reading Above and Below Set Point . . . Advanced Solid-State Circuitry, Wired Fail-Safe.

"COMPACK" CONTROL CIRCUITS

ON-OFF CONTROLS

Models 503-KH (Single Set Point) and 503-KD (Double Set Point). Complete control package contains power supply, control circuitry and load relay coupled to Optical Meter-Relay. Connections are made to terminals in rear of meter barrel as shown above. Control circuit is simple phase-sensitive AC bridge which triggers an SCR on or off as the photocell changes resistance. The SCR "on" energizes the load relay coil. All circuit components are normally energized below set point, keeping the system fail-safe. May easily be converted to a push-button reset latching circuit. SPDT (Form C) relay contacts rated 5 amps at 115 VAC resistive. Scale arc length, 4". *Indicates taut band meter movement.

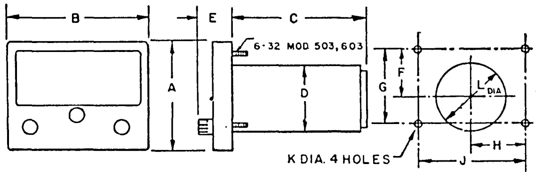
†AC Load Meter. Range 0-47 ma AC to match secondary of current transformers listed. Dial reads 0-150% of motor load. May be used with any transformer listed, to monitor or control motor load. When ordering AC Load Meter, order transformer appropriate to your application.

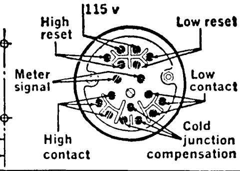
ON-OFF TEMPERATURE CONTROLS

Models 603-KH (Single Set Point) and 603-KD (Double Set Point). Medium resistance, thermocouple actuated pyrometers with electrical cold junction and copper error compensation; automatic thermocouple break protection. Mirrored scales calibrated in °F and °C. Adjustable for thermocouples up to 10 ohms. May be used for control or alarm applications. Scale arc approx. 5". All have taut band movements.

TIME PROPORTIONING TEMP. CONTROLS

Model 603-KTP. Same compensation and thermocouple break protection as temperature controls above, but with proportional control from relay output. Ratio of relay "on" time to "off" time proportional to deviation from set point. Has approx. 3% PR band. Capable of straight line temperature control as close as ±1°F. Has adjustable time cycle and PR band. Taut band meter.





Model	A	B	C	D	E	F	G	H	J	K	L
503-K	4.27"	4.71"	5.50"	2.79"	1.39"	2.02"	3.56"	2.000"	4.00"	.161"	2.82"
603-K	4.36"	5.75"	5.50"	2.79"	1.39"	2.15"	3.00"	2.625"	5.25"	.161"	2.82"

Model 503 is Fig. (B) Dimension — Model 603 is Fig. (C) Dimension

Range DC	Model 503-KH Single Set Point Stock No.	EACH 1-9	10-24	25-49	Model 503-KD Double Set Point Stock No.	EACH 1-9	10-24	25-49
0-10 µa*	51 D 5544	120.00	108.00	102.00	51 D 5553	145.00	130.50	123.25
0-20 µa*	51 D 5545	110.00	99.00	93.50	51 D 5554	135.00	121.50	114.75
0-50 µa*	51 D 5546	105.00	94.50	89.25	51 D 5555	130.00	117.00	110.50
0-100 µa*	51 D 5547	100.00	90.00	85.00	51 D 5556	125.00	112.50	106.25
50-0-50 µa*	....	....	....	....	51 D 5557	125.00	112.50	106.25
5-0-5 µa*	....	....	....	....	51 D 5558	145.00	130.50	123.25
0-1 ma	51 D 5548	94.00	84.60	79.90	51 D 5559	119.00	107.10	101.15
0-10 mv*	51 D 5549	104.00	93.60	88.40	51 D 5560	129.00	116.10	109.65
0-50 mv	51 D 5550	96.00	86.40	81.60	51 D 5561	121.00	108.90	102.85
0-1 ma AC	51 D 5551	98.00	88.20	83.30	51 D 5562	123.00	110.70	104.55
†AC Load	51 D 5552	100.00	90.00	85.00	51 D 5563	125.00	112.50	106.25

TRANSFORMERS AVAILABLE FOR AC LOAD METER (‡)—SPECIFY RANGE

Stock No.	Primary Range (Amps) Specify Choice	EACH
51 D 5522 C	3, 5, 7.5, 10, 15, 25, 30, 50	5.00

Temp. Range °F	Thermocouple ‡	Model 603-KH Single Set Pt. Stock No.	EACH 1-9	10-24	25-49	Model 603-KD Dble Set Pt. Stock No.	EACH 1-9	10-24	25-49
−450/+100	Cu/C	51 D 5564	119.00	107.10	101.15	51 D 5571	144.00	129.60	122.40
0/300	I/C	51 D 5565	119.00	107.10	101.15	51 D 5572	144.00	129.60	122.40
0/500	I/C	51 D 5566	117.00	105.30	99.45	51 D 5573	142.00	127.80	120.70
0/750	I/C	51 D 5567	117.00	105.30	99.45	51 D 5574	142.00	127.80	120.70
0/1500	C/A	51 D 5568	114.00	102.60	96.90	51 D 5575	139.00	125.10	118.15
0/2500	C/A	51 D 5569	114.00	102.60	96.90	51 D 5576	139.00	125.10	118.15
0/3000	Pt/13%Rh	51 D 5570	117.00	105.30	99.45	51 D 5577	142.00	127.80	120.70

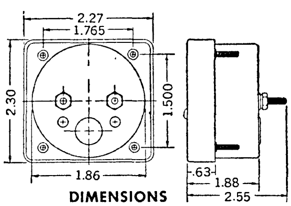
MODEL 603-KTP TIME PROPORTIONING TEMPERATURE CONTROL

Stock No.	Temperature Range °F	°C	Thermocouple	EACH 1-9	10-24	25-49
51 D 5578	0-300	0-150	I/C	144.00	129.60	122.40
51 D 5579	0-500	0-260	I/C	142.00	127.80	120.70
51 D 5580	0-750	0-400	I/C	142.00	127.80	120.70
51 D 5581	0-1000	0-500	I/C	142.00	127.80	120.70
51 D 5582	0-1500	0-800	C/A	139.00	125.10	118.15
51 D 5583	0-2500	0-1370	C/A	139.00	125.10	118.15

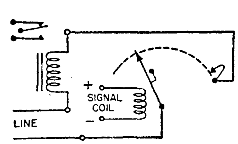
LOW-COST ALARM METER-RELAY

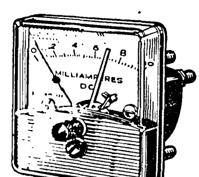
- Indicating Meter, As Well As Alarm
- Full Scale Adjustable Alarm Pointer
- Sensitivities to 100 Microamps

Used for monitoring motor load, gas content, overvoltage, current leakage, etc. Allows direct alarm action from meter relay contacts without need for a special DC power supply or amplifier. The indicating meter pointer carries a gold plated steel contact and the adjustable alarm pointer carries 2 small gold plated magnets for a contact. When the indicating pointer reaches an alarm setting, the magnet positively locks the contacts together, closing the alarm circuit. Operate reliably on as little as 6 volts, AC or DC, and will handle up to 115 volts, 100 ma. Manually reset. *Coil resistance, 2.5K. †AC Load Alarm, high set point. †† AC Load Alarm, low set point. Range, 0-47 ma to match current transformers listed in table above. When ordering, specify transformer primary range amps to match your application. Shpg. wt., 8 oz.



DIMENSIONS





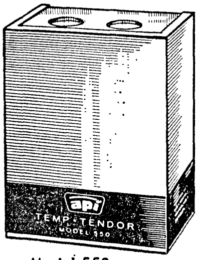
Stock No.	Range	1-9, EACH	10-24, EACH	25-49, EACH
51 D 5584	0-1 ma DC	35.00	29.75	28.00
51 D 5585	0-1 ma AC	38.75	32.94	31.00
51 D 5586	0-100 µa DC*	41.25	35.06	33.00
51 D 5587	0-50 mv DC	35.00	29.75	28.00
51 D 5588	AC Load†	38.75	32.94	31.00
52 D 7900	AC Load††	38.75	32.94	31.00

Specify Range and Model No. on All Meter-Relay Orders

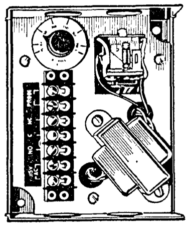
API Temperature Controllers—GE Meters

api — TEMPERATURE CONTROLLERS - PROBES

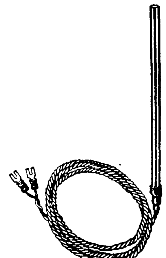
Solid-State Temperature Controller



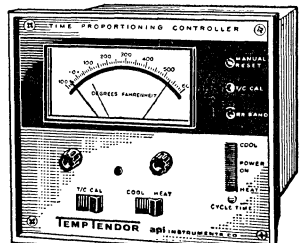
Model 550



Compact



Probe



Model 750

MODEL 550 CONTROLLER

New solid-state temperature controller uses nickel or platinum probes for temperature sensing. On-off control differential, less than 1°F. Circuit is wired fail-safe. Quickly converts to manual reset for alarm/shutdown function. Adjustable control point set on large calibrated dial. SPDT load contacts rated 5A @ 115 VAC, res. load. Use where ambient temp. ranges from 0-130°F. Non-sensitive probe ends withstand temp. to 400°F. Probes replaceable and interchangeable without recalibration. Less probes, below. Wt., 2 lbs.

MODEL 750 MULTI-POINT INDICATOR

Front panel 10-position selector permits check of temperature indication or control point of 1 to 10 individual temperature areas. Plug-in case design. Full scale accuracy, ±1%. Uses same probes as Model 550. In control applications, allows setting and monitoring up to 10 Model 550 controllers. For indication only, order Model 750 plus desired number of single element probes. For indication and control uses, order Model 750 with dual element probes plus a Model 550 controller for each probe. Cutout, 6¼x5⅛". 14 lbs.

MODEL 550 TEMPERATURE CONTROLLERS

Stock No.	Range °F	EACH 1-9	10-24	25-49
51 D 5589	−100/+200	65.00	58.50	55.25
51 D 5590	+50/+150	65.00	58.50	55.25
51 D 5591	0/+250	65.00	58.50	55.25
51 D 5917	0/+500	65.00	58.50	55.25
51 D 5592	+200/+500	65.00	58.50	55.25
51 D 5918	+500/1000	65.00	58.50	55.25

NICKEL SENSING PROBES

Stock No.	Length Inches	EACH 1-9	10-24	25-49
51 D 5593	2	20.00	18.00	17.00
51 D 5594	4	20.00	18.00	17.00
51 D 5595	8	20.00	18.00	17.00

PLATINUM SENSING PROBES

Stock No.	Length Inches	EACH 1-9	10-24	25-49
51 D 5919	2	33.60	30.24	28.56
51 D 5920	4	33.60	30.24	28.56
51 D 5921	8	33.60	30.24	28.56

MODEL 750 MULTI-POINT TEMPERATURE INDICATOR

Stock No.	Range °F	EACH
51 D 5930	−100/+200	160.00
51 D 5931	+50/+150	160.00
51 D 5932	0/+250	160.00
51 D 5933	0/+500	160.00
51 D 5934	+500/1000	160.00

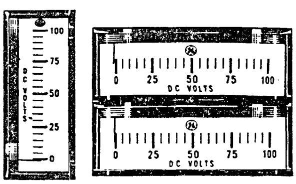
DUAL PROBES—for simultaneous indication and control. Use with 550 controller and 750 multi-point indicator.

DUAL NICKEL PROBES

Stock No.	Length Inches	EACH 1-9	10-24	25-49
51 D 5940	2	31.00	27.90	26.35
51 D 5941	4	31.00	27.90	26.35
51 D 5942	8	31.00	27.90	26.35

DUAL PLATINUM PROBES

Stock No.	Length Inches	EACH 1-9	10-24	25-49
51 D 5943	2	58.00	52.20	49.30
51 D 5944	4	58.00	52.20	49.30
51 D 5945	8	58.00	52.20	49.30



Edgewise Meters May Be Stacked

GENERAL ELECTRIC METERS, METER RELAYS AND PYROMETERS

TYPE 185—2¼" EDGEWISE METERS

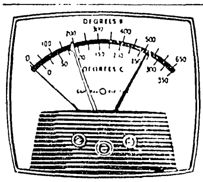
Slim-line meters mount individually or in space saving clusters. Flush case sides, with no mechanism bulge, assure tight case-to-case stack. Magnetic shielding prevents interaction between meters eliminating need for special calibration. Mounting bezel kits available at extra cost. Meet applicable ASA C-39. 1 specs. Accuracy: DC meters, ±2%; AC meters, ±3%. Overload: Voltmeter, 20%. Ammeter, 1000% momentary, 20% sustained. Insulation: 1800 volts RMS hi-pot. Response Time: microammeters, 3 sec. max.; all other DC ratings, 2 sec. max.; AC, 2.5 sec. max. 2¼x0.92". Select vert. or hor. mtg. types below. Av., 6½ oz.

HORIZONTAL MOUNTING TYPES

Range	Stock No.	1-9 EA.	10-24 EA.	25-49 EA.	50-99 EA.
0-500 µA	52 D 8280	14.40	11.70	10.80	9.54
0-1 MA	52 D 8281	14.40	11.70	10.80	9.54
0-500 MA	52 D 8354	15.20	12.35	11.40	10.07
0-1 A	52 D 8355	15.20	12.35	11.40	10.07
0-10 A	52 D 8284	14.40	11.70	10.80	9.54
0-10 V	52 D 8285	15.20	12.35	11.40	10.07
0-30 V	52 D 8286	15.20	12.35	11.40	10.07
0-50 V	52 D 8356	16.00	13.00	12.00	10.60
0-150 V	52 D 8288	15.20	12.35	11.40	10.07

VERTICAL MOUNTING TYPES

Range	Stock No.	1-9 EA.	10-24 EA.	25-49 EA.	50-99 EA.
0-500 µA	52 D 8290	14.40	11.70	10.80	9.54
0-1 MA	52 D 8291	14.40	11.70	10.80	9.54
0-500 MA	52 D 8357	15.20	12.35	11.40	10.07
0-1 A	52 D 8358	15.20	12.35	11.40	10.07
0-10 A	52 D 8294	14.40	11.70	10.80	9.54
0-10 V	52 D 8295	15.20	12.35	11.40	10.07
0-30 V	52 D 8296	15.20	12.35	11.40	10.07
0-50 V	52 D 8359	16.00	13.00	12.00	10.60
0-150 V	52 D 8298	15.20	12.35	11.40	10.07



NEW TYPE 195 METER RELAYS

Features solid-state, light sensitive switch providing ultimate in control simplicity and reliability. Controls load relay directly; no amplifier, no pointer contacts. Pointer travel unrestricted across entire scale. Piggy-Back control module eliminates mounting and wiring separate components. Engineered for On-Off (auto reset) control action. ±2% accuracy. 5A DPDT relay contacts. Available in Single High or Low Set Point, Double Set Point, DC and Rectifier types. Shpg. wt., 4 lbs.

3½" METERS (SINGLE HIGH SET POINT) — **4½" METERS**

Stock No.	EACH 1-9	10-24	25-49	DC Range	Stock No.	EACH 1-9	10-24	25-49
52 D 8375	86.40	70.20	64.80	0-1MA	52 D 8379	88.00	71.50	66.00
52 D 8376	86.40	70.20	64.80	0-50MA	52 D 8380	88.00	71.50	66.00
52 D 8377	86.40	70.20	64.80	0-100A	52 D 8381	88.00	71.50	66.00
52 D 8378	86.40	70.20	64.80	0-200A	52 D 8382	88.00	71.50	66.00

4½" TYPE 195 PYROMETERS

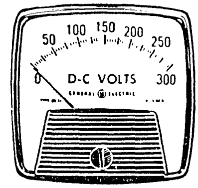
Engineered to provide precise temperature control and over-temperature protection. Available for temperatures ranging from 0° to 2500°F. (See table below). Basic operation is similar to meter relays at left. Primary difference is in measurement function. The 195 Pyrometer controllers are designed for maximum accuracy and compatibility with thermocouple sensors. Shpg. wt., 4 lbs.

Stock No.	Temperature Range	EACH 1-9	10-24	25-49
52 D 8390	0-650°F/350°C	111.20	90.35	83.40
52 D 8391	0-1000°F/500°C	111.20	90.35	83.40
52 D 8392	0-2500°F/1400°C	111.20	90.35	83.40

G.E. and Emico Panel Meters

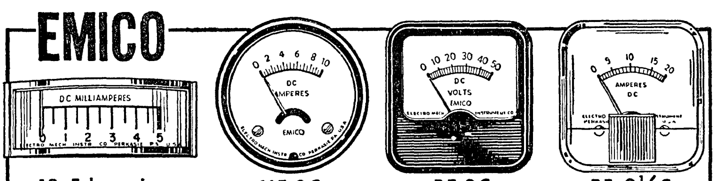
GE TYPE 162 3½" PANEL METER — GE TYPE 152 2½" PANEL METER

GE 162 Stock No.	EACH 1-9	EACH 10-24	EACH 25-49	Range	GE 152 Stock No.	EACH 1-9	EACH 10-24	EACH 25-49
"BIG LOOK" DC VOLTMETERS								
52 D 8320	15.20	12.35	11.40	0-5	52 D 8330	14.40	11.70	10.80
52 D 8321	15.20	12.35	11.40	0-10	52 D 8331	14.40	11.70	10.80
52 D 8203	15.20	12.35	11.40	0-15	52 D 8332	14.40	11.70	10.80
52 D 8204	15.20	12.35	11.40	0-30	52 D 8333	14.40	11.70	10.80
52 D 8205	15.20	12.35	11.40	0-50	52 D 8334	14.40	11.70	10.80
"BIG LOOK" DC MICROAMMETERS								
52 D 8224	24.80	20.15	18.60	0-20	52 D 8335	24.00	19.50	18.00
52 D 8225	20.00	16.25	15.00	0-50	52 D 8336	19.20	15.60	14.40
52 D 8226	16.80	13.65	12.60	0-100	52 D 8337	16.00	13.00	12.00
52 D 8322	15.20	12.35	11.40	0-200	52 D 8338	14.40	11.70	10.80
"BIG LOOK" DC MILLIAMMETERS								
52 D 8231	14.40	11.70	10.80	0-1	52 D 8339	13.60	11.05	10.20
52 D 8323	14.40	11.70	10.80	0-100	52 D 8340	13.60	11.05	10.20
52 D 8324	14.40	11.70	10.80	0-200	52 D 8341	13.60	11.05	10.20
52 D 8329	14.40	11.70	10.80	0-500	52 D 8342	13.60	11.05	10.20
"BIG LOOK" DC AMMETERS (SC)								
52 D 8325	14.40	11.70	10.80	0-1	52 D 8343	13.60	11.05	10.20
52 D 8326	14.40	11.70	10.80	0-2	52 D 8344	13.60	11.05	10.20
52 D 8250	14.40	11.70	10.80	0-5	52 D 8345	13.60	11.05	10.20
52 D 8251	14.40	11.70	10.80	0-10	52 D 8346	13.60	11.05	10.20
52 D 8327	14.40	11.70	10.80	0-30	52 D 8347	13.60	11.05	10.20
"BIG LOOK" AC VOLTMETERS								
52 D 8263	15.20	12.35	11.40	0-150	52 D 8348	14.40	11.70	10.80
52 D 8264	16.80	13.65	12.60	0-300	52 D 8349	16.00	13.00	12.00
"BIG LOOK" AC AMMETERS (SC)								
52 D 8272	14.40	11.70	10.80	0-5	52 D 8350	13.60	11.05	10.20
52 D 8328	14.40	11.70	10.80	0-10	52 D 8351	13.60	11.05	10.20
52 D 8274	14.40	11.70	10.80	0-15	52 D 8352	13.60	11.05	10.20
52 D 8329	15.20	12.35	11.40	0-30	52 D 8353	14.40	11.70	10.80



"Big Look" Meters

GE "Big Look" panel meters are available in AC, DC, rectifier, and expanded scale VM types. All have sealed cases with excellent readability. DC meters have self-shielded mechanisms, and are available in Taut Band design. Specifications meet ASAC-39.1, all with a ±2% FS accuracy. (±1% is also available at extra charge.) Size: Type 162, 3½x3½x2½", (requires 2.786" dia. mtg. hole); Type 152, 2½x2½x2½", (requires 2.195" dia. mtg. hole). Avg. shpg. wt., 12 oz.



13 Edgewise — NF 2C — RF 2C — RF 2¼C

5% PANEL METERS

DC meters have "HI TORK" magnetic movements. AC units are moving iron-vane type. All have 5% accuracy. Calibrated in steel cases. Sizes (depth and flange); NF-2C, 1¼x2¼"; RF-2C, 1-5/32x2¼"; RF-2¼C, 1-9/16x2-5/16"; Model 13 (all plastic), ¾x1-13/16x2⅛". *Indicates unbreakable plexiglas front. Have screw-terminal binding posts and/or solder lugs. Complete with hardware. Av. shpg. wt., 9 oz.

DC MILLIAMMETERS, AMMETERS AND VOLTMETERS

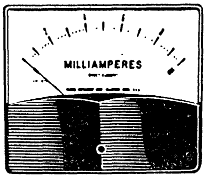
Range	Model 13 Edgewise Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	Model NF-2C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	Model RF-2C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	*Model RF-2¼C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99
0-1 MA	52 D 6023	4.05	3.64	3.44	52 D 7609	3.70	3.33	3.15	52 D 7614	3.75	3.37	3.19	52 D 8012	4.05	3.64	3.44
0-5 MA	52 D 6024	2.70	2.43	2.30	52 D 8970	2.35	2.11	2.00	52 D 8971	2.40	2.16	2.04	52 D 6022	2.70	2.43	2.30
0-10 MA	52 D 6025	2.55	2.29	2.17	52 D 7600	2.20	1.98	1.87	52 D 7615	2.25	2.02	1.91	52 D 8013	2.55	2.29	2.17
0-20 MA	52 D 6026	2.30	2.07	1.96	52 D 7601	1.90	1.71	1.62	52 D 7616	2.00	1.80	1.70	52 D 8014	2.30	2.07	1.96
0-30 MA	....	.....	.....	.....	52 D 7602	1.90	1.71	1.62	52 D 7617	2.00	1.80	1.70	....	.....	.....	.....
0-50 MA	52 D 6028	2.30	2.07	1.96	52 D 7603	1.90	1.71	1.62	52 D 7618	2.00	1.80	1.70	52 D 8016	2.30	2.07	1.96
0-100 MA	52 D 6029	2.30	2.07	1.96	52 D 7604	1.90	1.71	1.62	52 D 7619	2.00	1.80	1.70	52 D 8017	2.30	2.07	1.96
0-150 MA	52 D 6030	2.30	2.07	1.96	52 D 7605	1.90	1.71	1.62	52 D 7620	2.00	1.80	1.70	52 D 8018	2.30	2.07	1.96
0-200 MA	....	.....	.....	.....	52 D 7606	1.90	1.71	1.62	52 D 7621	2.00	1.80	1.70	52 D 8019	2.30	2.07	1.96
0-300 MA	52 D 6032	2.30	2.07	1.96	52 D 7607	1.90	1.71	1.62	52 D 7622	2.00	1.80	1.70	52 D 8020	2.30	2.07	1.96
0-500 MA	52 D 6033	2.30	2.07	1.96	52 D 7608	1.90	1.71	1.62	52 D 7623	2.00	1.80	1.70	52 D 8021	2.30	2.07	1.96
0-1 Amp	....	.....	.....	.....	52 D 8972	1.90	1.71	1.62	52 D 8973	2.00	1.80	1.70	52 D 8025	2.30	2.07	1.96
0-5 Amp	....	.....	.....	.....	52 D 8974	1.90	1.71	1.62	52 D 8975	2.00	1.80	1.70	52 D 6043	2.30	2.07	1.96
0-10 Amp	52 D 6070	2.30	2.07	1.96	52 D 7650	1.90	1.71	1.62	52 D 7656	2.00	1.80	1.70	52 D 6044	2.30	2.07	1.96
0-15 Amp	52 D 6073	2.30	2.07	1.96	52 D 6039	1.90	1.71	1.62	52 D 6041	2.00	1.80	1.70	52 D 6045	2.30	2.07	1.96
0-25 Amp	....	.....	.....	.....	52 D 8976	1.90	1.71	1.62	52 D 8977	2.00	1.80	1.70	52 D 6046	2.30	2.07	1.96
0-30 Amp	52 D 6080	2.30	2.07	1.96	52 D 6040	1.90	1.71	1.62	52 D 6042	2.00	1.80	1.70	52 D 6047	2.30	2.07	1.96
3-0-3 Amp	....	.....	.....	.....	52 D 7651	1.90	1.71	1.62	52 D 7657	2.00	1.80	1.70	....	.....	.....	.....
20-0-20 Amp	52 D 6082	2.30	2.07	1.96	52 D 7652	1.90	1.71	1.62	....	.....	.....	.....	52 D 8027	2.30	2.07	1.96
30-0-30 Amp	52 D 6083	2.30	2.07	1.96	52 D 7653	1.90	1.71	1.62	52 D 7659	2.00	1.80	1.70	52 D 8028	2.30	2.07	1.96
0-3 Volts	52 D 6168	2.30	2.07	1.96	52 D 7630	1.90	1.71	1.62	52 D 7635	2.00	1.80	1.70	52 D 8082	2.30	2.07	1.96
3-0-3 Volts	....	.....	.....	.....	52 D 7631	1.90	1.71	1.62	52 D 7636	2.00	1.80	1.70	52 D 8083	2.30	2.07	1.96
0-10 Volts	52 D 6188	2.30	2.07	1.96	52 D 7632	1.90	1.71	1.62	52 D 7637	2.00	1.80	1.70	52 D 8084	2.30	2.07	1.96
0-15 Volts	52 D 6189	2.30	2.07	1.96	52 D 6090	1.90	1.71	1.62	52 D 6169	2.00	1.80	1.70	52 D 6092	2.30	2.07	1.96
0-20 Volts	52 D 6190	2.30	2.07	1.96	52 D 6091	1.90	1.71	1.62	52 D 6193	2.00	1.80	1.70	52 D 6093	2.30	2.07	1.96
0-30 Volts	52 D 6191	2.30	2.07	1.96	52 D 8980	1.90	1.71	1.62	52 D 8981	2.00	1.80	1.70	52 D 6096	2.30	2.07	1.96
0-50 Volts	52 D 6192	2.30	2.07	1.96	52 D 8982	1.90	1.71	1.62	52 D 8983	2.00	1.80	1.70	52 D 6097	2.30	2.07	1.96

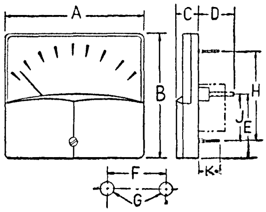
AC VOLTMETERS, AMMETERS AND MILLIAMMETERS

Range	Model 13 Edgewise Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	Model NF-2C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	Model RF-2C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99	*Model RF-2¼C Stock No.	EACH 1-24	EACH 25-49	EACH 50-99
0-150 Volts	52 D 6035	4.00	3.60	3.40	52 D 7666	3.60	3.24	3.06	52 D 7671	3.70	3.33	3.15	52 D 8023	4.00	3.60	3.40
0-300 Volts	52 D 6036	4.55	4.09	3.87	52 D 7667	4.20	3.78	3.57	52 D 7672	4.25	3.82	3.61	52 D 8024	4.55	4.09	3.87
0-1 Amp	....	.....	.....	.....	52 D 8984	3.05	2.74	2.59	52 D 8985	3.15	2.83	2.68	....	.....	.....	.....
0-5 Amp	52 D 6195	3.45	3.10	2.93	52 D 7646	3.05	2.74	2.59	52 D 7648	3.15	2.83	2.68	52 D 8085	3.45	3.10	2.93
0-10 Amp	....	.....	.....	.....	52 D 7647	3.05	2.74	2.59	52 D 7649	3.15	2.83	2.68	52 D 8086	3.45	3.10	2.93
0-500 MA	52 D 6212	3.45	3.10	2.93	52 D 7640	3.05	2.74	2.59	52 D 7643	3.15	2.83	2.68	52 D 8029	3.45	3.10	2.93

Please Specify Both Range and Model No. when Ordering Meters

PARKER ULTRA-THIN ULTRA-RUGGED Meters





Dimensions (In.)

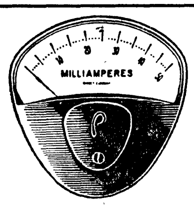
Letter	SB-35	SB-45
A	3½	4⅝
B	3⅛	4
C	½	½
D	29/32	29/32
E	1⅝	1¾
F	1½	1½
G	⅜	⅜

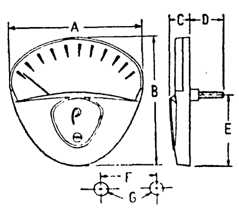
FUSEABLE METER STANDS

For bench top use of Models S-35, SB-35, SB-45. 12 oz.
52 D 7000. For S-35......6.00
52 D 7021. For SB-45.....6.00
52 D 7188. For SB-35.....6.00

SPECIFICATIONS APPLICABLE TO ALL PARKER METERS

Accuracy. ±2% DC, ±3% AC
Repeatability............±1%
Balance...............±½%
Operating Temp—20° to + 50°C
Overload 10,000% (500 ma max.)
Insulation.............3000V
Shielding.....Complete (Panel Material Unimportant)
Shock..Withstands Over 200G





Dimension (In.)

Letter	S-25	S-35
A	2 45/64	3 41/64
B	2⅝	3 17/32
C	19/32	9/16
D	⅞	59/64
E	1 27/32	1 63/64
F	1½	1½
G	⅜ dia.	⅜ dia.

Accurate, thin-line, surface-mounting meters in rectangular and medallion styles. Only ½" thick—easy to mount with only two ⅜" mounting holes. Takes up only terminal space behind panel, and the panel shields the meter from stray RF. Self-shielded—unaffected by ferrous panels. Full scale accuracy, ±2% for DC types; ±3% AC. DC types take 10,000% overloads. Wt., ½ lb.

SB-35 AND SB-45 RECTANGULAR MODELS

DC MICROAMMETERS

Model SB-35 3½" Rectangular				RANGE	Model SB-45 4½" Rectangular			
Stock No.	EACH 1-14	15-49	50-99		Stock No.	EACH 1-14	15-49	50-99
52 D 7068	22.00	19.80	17.60	0-500	52 D 7069	23.00	20.70	18.40
52 D 7183	17.50	15.75	14.00	500-0-500	52 D 7131	18.50	16.65	14.80

DC MILLIAMMETERS

52 D 7151	17.50	15.75	14.00	1-0-1	52 D 7132	18.50	16.65	14.80
52 D 7150	17.00	15.30	13.60	0-1	52 D 7133	18.00	16.20	14.40
52 D 7152	17.00	15.30	13.60	0-2	52 D 7134	18.00	16.20	14.40
52 D 7154	17.00	15.30	13.60	0-10	52 D 7135	18.00	16.20	14.40
52 D 7179	17.00	15.30	13.60	0-20	52 D 7136	18.00	16.20	14.40
52 D 7155	17.00	15.30	13.60	0-50	52 D 7095	18.00	16.20	14.40
52 D 7156	17.00	15.30	13.60	0-100	52 D 7137	18.00	16.20	14.40
52 D 7169	17.00	15.30	13.60	0-200	52 D 7138	18.00	16.20	14.40
52 D 7157	17.00	15.30	13.60	0-500	52 D 7096	18.00	16.20	14.40

DC AMMETERS

52 D 7171	17.00	15.30	13.60	0-1	52 D 7070	18.00	16.20	14.40
52 D 7172	18.00	16.20	14.40	0-10	52 D 7129	19.00	17.10	15.20
52 D 7181	18.50	16.65	14.80	0-15	52 D 7130	19.50	17.55	15.60

DC MILLIVOLTMETER

52 D 7159	17.00	15.30	13.60	0-50	52 D 7139	18.00	16.20	14.40

DC VOLTMETERS

52 D 7184	17.00	15.30	13.60	0-1.5	52 D 7141	18.00	16.20	14.40
52 D 7185	17.00	15.30	13.60	0-10	52 D 7142	18.00	16.20	14.40
52 D 7174	17.00	15.30	13.60	0-25	52 D 7071	18.00	16.20	14.40
52 D 7175	17.00	15.30	13.60	0-50	52 D 7143	18.00	16.20	14.40
52 D 7160	17.00	15.30	13.60	0-100	52 D 7144	18.00	16.20	14.40
52 D 7163	18.00	16.20	14.40	0-500	52 D 7074	18.00	16.20	14.40

AC MILLIAMMETERS

52 D 7187	21.00	18.90	16.80	0-500	52 D 7147	22.00	19.80	17.60

AC VOLTMETERS

52 D 7167	21.00	18.90	16.80	0-150	52 D 7148	22.00	19.80	17.60
52 D 7177	22.00	19.80	17.60	0-300	52 D 7149	23.00	20.70	18.40

MODELS S-25 AND S-35

DC MICROAMMETERS

Model S-25 2½"					Model S-35 3½"			
52 D 7075	22.50	20.25	18.00	0-500	52 D 7078	23.00	20.70	18.40
52 D 7076	18.00	16.20	14.40	500-0-500	52 D 7082	18.50	16.65	14.80

DC MILLIAMMETERS

52 D 7002	18.00	16.20	14.40	1-0-1	52 D 7010	18.50	16.65	14.80
52 D 7001	17.50	15.75	14.00	0-1	52 D 7009	18.00	16.20	14.40
52 D 7003	17.50	15.75	14.00	0-2	52 D 7011	18.00	16.20	14.40
52 D 7005	17.50	15.75	14.00	0-10	52 D 7013	18.00	16.20	14.40
52 D 7077	17.50	15.75	14.00	0-20	52 D 7084	18.00	16.20	14.40
52 D 7006	17.50	15.75	14.00	0-50	52 D 7014	18.00	16.20	14.40
52 D 7007	17.50	15.75	14.00	0-100	52 D 7015	18.00	16.20	14.40
52 D 7008	17.50	15.75	14.00	0-500	52 D 7016	18.00	16.20	14.40

DC AMMETERS

52 D 7104	17.50	15.75	14.00	0-1	52 D 7106	18.00	16.20	14.40
52 D 7105	18.50	16.65	14.80	0-10	52 D 7107	19.00	17.10	15.20
52 D 7085	19.00	17.10	15.20	0-15	52 D 7089	19.50	17.55	15.60

DC MILLIVOLTMETER

52 D 7019	17.50	15.75	14.00	0-50	52 D 7020	18.00	16.20	14.40

DC VOLTMETER

52 D 7086	17.50	15.75	14.00	0-10	52 D 7097	18.00	16.20	14.40
52 D 7109	17.50	15.75	14.00	0-25	52 D 7112	18.00	16.20	14.40
52 D 7110	17.50	15.75	14.00	0-50	52 D 7113	18.00	16.20	14.40
52 D 7050	17.50	15.75	14.00	0-100	52 D 7054	18.00	16.20	14.40
52 D 7088	17.50	15.75	14.00	0-150	52 D 7098	18.00	16.20	14.40

AC MILLIAMMETERS

52 D 7092	21.50	19.35	17.20	0-500	52 D 7093	22.00	19.80	17 60

AC VOLTMETERS

52 D 7060	21.50	19.35	17.20	0-150	52 D 7064	22.00	19.80	17.60
52 D 7115	22.50	20.25	18.00	0-300	52 D 7118	23.00	20.70	18.40

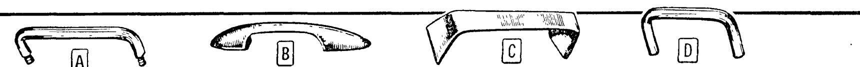
 Allied Has the World's Largest Stock of Test Instruments

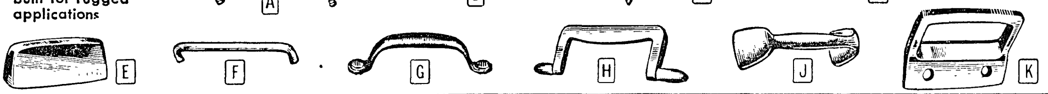
Metal Handles, Cabinets, and Cases

HANDY NUMERICAL INDEX TO BUD PRODUCTS

BUD HANDLES

Quality handles, built for rugged applications





A Made from 3/8″ steel rod. Chrome-plated. With mounting hardware. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Mtg. Ctrs.	Hand Clear.	PER PAIR 1-49	50-99	100-149	150-199
42 D 8059	H-9115	4″	15/16″	2.40	2.16	1.92	1.80
42 D 8060	H-9116	6″	15/16″	3.00	2.70	2.40	2.25
42 D 8061	H-9160	3 1/2″	1 11/16″	2.70	2.43	2.16	2.03
42 D 8062	H-9161	5 1/4″	1 11/16″	3.15	2.84	2.52	2.36
42 D 8063	H-9162	7″	1 11/16″	3.24	2.92	2.59	2.43
42 D 8065	H-9164	10 1/2″	1 11/16″	3.96	3.56	3.17	2.97

B Has rugged die-cast aluminum construction; silver-anodized finish. Outside centers are 5 3/8″. With hardware. Av. wt., 3 oz.

42 D 8067	H-9120	4 3/8″	1″	3.51	3.16	2.81	2.63
42 D 8069	H-9123	4 1/2″	1″	2.61	2.35	2.09	1.96

C Die-cast silver anodized-aluminum. With mounting hardware. Av. shpg. wt., 3 oz.

42 D 8075	H-9151	5 5/32x5/8″	1 1/4″	5.10	4.59	4.08	3.83
42 D 8076	H-9152	3 7/8″	1 1/8″	4.14	3.73	3.31	3.11

D Of chrome-plated 1/4″ brass rod. With two 6/32x1/2″ screws. Av. shpg. wt., 4 oz.

42 D 8077	H-9166	1 29/32″	1″	1.20	1.08	.96	.90
42 D 8078	H-9168	3″	1″	1.35	1.22	1.08	1.01

F Ruggedly constructed from 3/4″ steel rod except *1/2″ steel rod. Chrome-plated. With hardware. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Mtg. Ctrs.	Hand Clear.	PER PAIR 1-49	50-99	100-149	150-199
42 D 8054	H-9110	6″	1 1/4″	2.79	2.51	2.23	2.09
42 D 8055	H-9111	4″	15/16″	1.50	1.35	1.20	1.13
42 D 8056	H-9112	6″	15/16″	1.89	1.70	1.51	1.42
42 D 8057	H-9113	8″	15/16″	2.10	1.89	1.68	1.58
42 D 8058	H-9114*	8″	1 1/2″	3.51	3.16	2.82	2.63

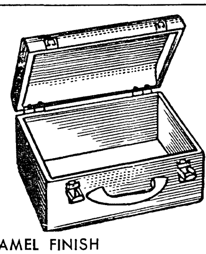
G Etched tubular aluminum. Length: UH-70A, 5 1/8″; UH-71A, 3 3/4″. Av. shpg. wt., 3 oz.

42 D 7893	UH-70A	4 5/8″	7/8″	.72	.64	.58	.54
42 D 7894	UH-71A	3 1/4″	3/4″	.60	.54	.48	.46

All handles listed in table below are die-cast, silver-anodized aluminum. All necessary mounting hardware is included. Type H-9122 has 1 1/2″ hand clearance, includes 1/2″ steel pins with hinge blocks. Type H-9131 is 4x2 7/8″. Type H-9140 has 3/4″ hand clearance. Type H-9150 has 1 1/4″ hand clearance. Av. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Mtg. Ctrs.	PER PAIR 1-49	50-99	100-149	150-199
42 D 8070	H-9122	H	7 1/4″	5.94	5.35	4.95	4.46
42 D 8072	H-9131	K	2 1/4″	3.90	3.51	3.12	2.93
42 D 8073	H-9140	E	3 1/2″	2.34	2.11	1.87	1.76
42 D 8074	H-9150	J	4x5/8″	3.15	2.84	2.52	2.36

"TRANSICASE" INSTRUMENT CASES

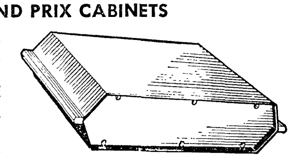


Portable, .040″ thick aluminum. Flush-fitting aluminum panel; lid on 2 slide-off hinges—fastened by toggle catches (chromium plated). Inside of lid cushioned by foam rubber; 1 15/32″ clearance from panel top. Rubber feet, base and back. TC-300 and TC-301 have 4 13/32″ clearance below panel; wt., 4 1/2 lbs. TC-302 and TC-303 have 5 29/32″; 8 lbs. TC-304 has 7 11/32″; 10 lbs. Choice of two colors.

SPECIFY BLUE OR GRAY ENAMEL FINISH

Stock No.	Type TC-	Size (HWD)	Panel Size	EACH 1-14	15-24	25-34	35-49
42 D 7584 C	300	6x10x7″	8 15/16x5 15/16″	24.95	22.45	19.96	18.71
42 D 7586 C	301	6x11 1/2x8 1/4″	10 3/8x7 1/4″	25.50	22.95	20.40	19.13
42 D 7588 C	302	7 1/2x13x9″	11 7/8x7 15/16″	26.00	23.40	20.80	19.50
42 D 7589 C	303	7 1/2x16x9″	15 3/8x7 15/16″	26.50	23.85	21.20	19.88
42 D 7590 CX	304	9x20x8″	19x7″	27.90	25.11	22.32	20.93

STYLISH GRAND PRIX CABINETS

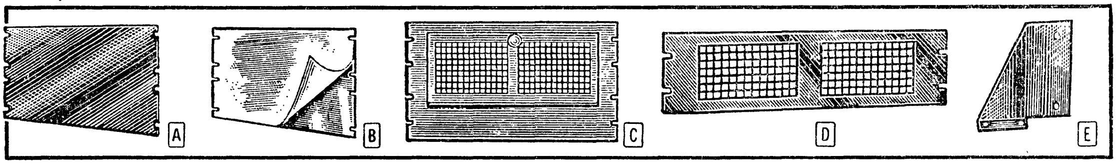


Attractive, modern design is compatible with any decor; ideal for use where appearance is important. Engineered to make installation and servicing of contents easy. Upper and lower segments are held together by sturdy brushed aluminum extrusions (also serve as handles). Each slides over end flanges and is securely held in place with set-screws. Body, front and rear panels constructed of 20-gauge steel. Complete with set-screws, 4 rubber feet.

SPECIFY LIGHT GRAY HAMMERTONE OR SMOOTH DARK GRAY FINISH

Stock No.	Mfr's Type	Size (HWD)	Wt., Lbs.	EACH 1-25	25-49	50-99	100-149
42 D 8723 CX	MD-1	4 3/16x19 1/8x10 1/2″	7 1/4	13.15	11.85	10.50	9.85
42 D 8724 CX	MD-2	7 3/16x19 1/8x10 1/2″	7 3/4	13.65	12.25	10.90	10.25
42 D 8725 CX	MD-3	4 3/16x12 1/8x8 3/4″	7	10.50	9.45	8.40	7.85

Rack Panels and Accessories



STANDARD RACK PANELS

A Heavy-duty 1/8" thick aluminum or steel panels. 19" wide (available 24" wide on Special Order) have notched edges that fit mtg. screw spacing of all Series 60 standard and telephone-type relay racks. For prices on quantities larger than those shown, write, wire or phone Allied Electronics. Specify black wrinkle, gray wrinkle, gray hammertone, smooth gray, or smooth blue finish.

ALUMINUM (Specify Finish)

Ht.	Stock No.	Mfr's Type	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
1¾"	42 D 7408 CX	PA-1101	½	1.20	1.08	.96	.90
3½"	42 D 7409 CX	PA-1102	1	1.55	1.40	1.24	1.16
5¼"	42 D 7410 CX	PA-1103	1¼	2.10	1.89	1.68	1.58
7"	42 D 7411 CX	PA-1104	1¾	2.65	2.39	2.12	1.99
8¾"	42 D 7417 CX	PA-1105	2	3.10	2.79	2.48	2.33
10½"	42 D 7418 CX	PA-1106	2½	3.95	3.56	3.16	2.96
12¼"	42 D 7419 CX	PA-1107	3	4.50	4.05	3.60	3.38
14"	42 D 7420 CX	PA-1108	3¼	5.25	4.73	4.20	3.94
15¾"	42 D 7421 CX	PA-1109	4	5.85	4.27	4.68	4.39
17½"	42 D 7422 CX	PA-1110	4	6.45	5.81	5.16	4.84
19¼"	42 D 7423 CX	PA-1111	4¼	7.00	6.30	5.60	5.25
21"	42 D 7424 CX	PA-1112	5	7.70	6.93	6.16	5.78

STEEL (Specify Finish)

Stock No.	Mfr's Type	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
42 D 7364 CX	PS-1250	1¼	.90	.81	.72	.68
42 D 7365 CX	PS-1251	2½	1.10	.99	.88	.83
42 D 7366 CX	PS-1252	3¾	1.40	1.26	1.12	1.05
42 D 7367 CX	PS-1253	4¾	1.55	1.40	1.24	1.16
42 D 7368 CX	PS-1254	5½	1.95	1.76	1.56	1.46
42 D 7369 CX	PS-1255	7	2.30	2.07	1.84	1.73
42 D 7370 CX	PS-1256	8	2.65	2.39	2.12	1.99
42 D 7371 CX	PS-1257	8¾	3.10	2.79	2.48	2.33
42 D 7372 CX	PS-1258	10¼	3.40	3.06	2.72	2.55
42 D 7373 CX	PS-1259	11	3.85	3.47	3.08	2.89
42 D 7375 CX	PS-1260	12¾	4.20	3.78	3.36	3.15
42 D 7376 CX	PS-1261	13½	4.70	4.23	3.76	3.53

SURFACE-SHIELD RACK PANELS

B 1/8" thick bright aluminum alloy rack panels in blemish-free mill finish. Each panel is covered on both sides with sturdy pressure sensitive white paper to protect against damage. Panels listed are 19" wide. 24" width available on special order.

Stock No.	Mfr's Type	Ht.	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
42 D 8662 X	SFA-1831	1¾"	½	1.10	1.00	.90	.85
42 D 8663 X	SFA-1832	3½"	1	1.55	1.40	1.25	1.15
42 D 8664 X	SFA-1833	5¼"	1¼	2.05	1.85	1.65	1.55
42 D 8665 X	SFA-1834	7"	1¾	2.55	2.30	2.05	1.90
42 D 8666 X	SFA-1835	8¾"	2	3.05	2.75	2.45	2.30
42 D 8667 X	SFA-1836	10½"	2½	3.85	3.45	3.10	2.90
42 D 8668 X	SFA-1837	12¼"	3	4.40	3.95	3.50	3.30
42 D 8669 X	SFA-1838	14"	3½	5.10	4.60	4.10	3.85
42 D 8670 X	SFA-1839	15¾"	3¾	5.70	5.15	4.55	4.30
42 D 8671 X	SFA-1840	17½"	4	6.30	5.65	5.05	4.75
42 D 8672 X	SFA-1841	19¼"	4½	6.90	6.20	5.50	5.20
42 D 8673 X	SFA-1842	21"	5	7.50	6.75	6.00	5.65

STEEL DOOR RACK PANELS

C Extremely useful when accessibility to component parts on the chassis is important. Made of 1/8" sheet steel, panels are 19" wide. Special design, plunger-type lock makes certain door is easy to open and lock. Offered in both ventilated as well as solid door styles. *Ventilated door (square perforations). Av. wt., 9 lbs.

Specify gray wrinkle, black wrinkle, or gray hammertone finish.

Stock No.	Mfr's Type	Ht.	EACH 1-49	50-99	100-149	150-199
42 D 7579 CX	PS-615	10½"	6.70	6.03	5.36	5.03
42 D 7580 CX	PS-616	12¼"	8.30	7.47	6.64	6.23
42 D 7581 CX	PS-814*	10½"	8.30	7.47	6.64	6.23
42 D 7582 CX	PS-815*	12¼"	9.10	8.14	7.28	6.83

HEAVY-GAUGE STEEL RACK SHELVES

(Not illus.) Slide-in shelves for heavy power supplies, modulator units, etc. Require chassis support angles listed below. Black enamel finish. HWD: CB-1976, 1x19x15", CB-1977, 1x19x12".

Stock No.	Type	Lbs.	1-24, Ea.	25-49, Ea.	50-99, Ea.	100-149, Ea.
42 D 7273 X	CB-1976	6¼	3.47	3.12	2.78	2.60
42 D 7274 X	CB-1977	5¼	2.64	2.38	2.11	1.98

VENTILATED GRILLE PANELS

D Sturdy 1/8" thick steel. Grille is die-stamped in the panel. For use where additional ventilation for equipment is needed. All panels are 19" wide and are available in a choice of finishes. *Indicates 3½" space provided from bottom of panel to ventilated portion of panel to allow for chassis mounting. Av. wt., 5 lbs.

Specify gray wrinkle, black wrinkle, or gray hammertone finish.

Stock No.	Mfr's Type	Ht.	EACH 1-49	50-99	100-149	150-199
42 D 7574 CX	PS-808	5¼"	3.60	3.24	2.88	2.70
42 D 7575 CX	PS-809	7"	3.90	3.51	3.12	2.93
42 D 7576 CX	PS-810*	8¾"	4.70	4.23	3.76	3.53
42 D 7577 CX	PS-811*	10½"	4.95	4.46	3.96	3.71
42 D 7578 CX	PS-812*	12½"	5.35	4.82	4.28	4.01

CHASSIS SUPPORTING ANGLES

(Not illus.) Relay rack runners of 7/64" steel. For heavy chassis, shelves. Distribute weight to sides of rack. Black enamel.

Stock No.	Mfr's Type	H. W. D.	Wt., Lbs.	PER PAIR 1-24	25-49	50-99	100-149
42 D 7877	SA-1349	1⅜x3x14½"	4	2.35	2.12	1.88	1.76
42 D 8641	SA-1350	1⅜x3x12"	3	2.30	2.37	1.84	1.73

CHASSIS MOUNTING BRACKETS

E Insure proper support of heavily loaded chassis. Heavy-gauge steel brackets cut away to accommodate chassis 3" high, except *4" chassis. Black enamel. Sold only in pairs.

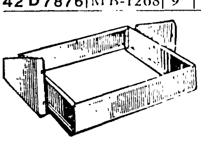
Stock No.	Mfr's Type	Ht.	Depth	Wt., Lbs.	PER PAIR 1-49	50-99	100-149	150-199
42 D 7868	MB-458	6½"	8"	1¼	1.35	1.22	1.08	1.01
42 D 7869	MB-448	6½"	10"	1¾	1.35	1.22	1.08	1.01
42 D 7867	MB-459	6½"	11"	2	1.50	1.35	1.20	1.13
42 D 7870	MB-449	6½"	12"	2	1.75	1.58	1.40	1.31
42 D 7873	MB-460	6½"	13"	2½	1.69	1.52	1.35	1.27
42 D 7871	MB-450	*8½"	10"	2¼	1.97	1.77	1.58	1.48
42 D 7872	MB-451	*8½"	13"	3	2.09	1.88	1.67	1.57

TRIANGULAR MOUNTING BRACKETS

(Not illus.) Provide rigid support for panel and chassis assemblies and for shelves where heavy weights are involved. Heavy-gauge steel, ¾" flange. Black enamel finish. Sold only in pairs.

Stock No.	Mfr's Type	Ht.	Depth	Wt., Lbs.	PER PAIR 1-49	50-99	100-149	150-199
42 D 7874	MB-1266	5"	5"	1	1.10	.99	.88	.83
42 D 7875	MB-1267	7"	7"	1	1.30	1.17	1.04	.98
42 D 7876	MB-1268	9"	9"	1½	1.55	1.40	1.24	1.16

RELAY RACK SLIDE DRAWER



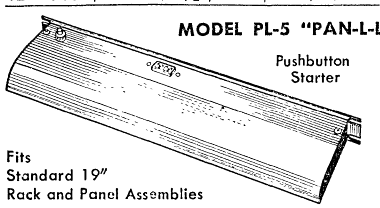
Type SD-1717. Sliding drawer assembly. Easily and quickly assembled and installed in any standard rack or cabinet. Stop screw on slide rail prevents drawer from falling out of channel. Will support up to 50 lbs. Size, 16¾x14x3". Gray hammertone finish. Shpg. wt., 7½ lbs.

42 D 8640 X. 1-14.... Each 12.00 15-24.............Each 10.80
25-34................Each 9.60 35-49...............Each 9.00

Type TP-1718 Drawer Plate. Fastens to top or bottom of drawer above. 14-gauge aluminum. Gray hammertone. 16¾x14". 1½ lbs.

42 D 7279 X. 1-14.... Each 2.70 15-24...............Each 2.45
25-34...............Each 2.15 35-49..............Each 2.05

MODEL PL-5 "PAN-L-LITE" FIXTURE



Easily installs on rack or panel. Light, 5x18x1¼" has bronzetone aluminum frame mounted on standard Bud 1¾x19" steel rack panel with gray finish. Translucent plastic light diffuser; push-button starter switch; convenience outlet; heavy-duty 6' cord and plug. Requires standard 15-watt fluorescent bulb. U.L. Listed. 2 lbs.

42 D 8726 X. 1-9.... Each 9.30 10-14..................Each 8.37
15-19..................Each 7.44 20-24..................Each 6.98

Bud Relay Racks, Rack Cabinets

[A] DELUXE ENCLOSED RELAY RACKS

Top and bottom have chrome trim. Doors have 2 snap-action catches. 16-gauge steel with 7/64″ panel supports. Casters can be mounted on base. For 19″ panels—24″ width available on Special Order. *CR-2072, CR-2073 in gray hammertone only.

SPECIFY GRAY HAMMERTONE, GRAY WRINKLE, OR BLACK WRINKLE FINISH

Stock No.	Mfr's Type	Overall Size	Panel Ht.	Wt., Lbs.	EACH 1-9	10-14	15-19	20-24
42 D 7500 CL2ZF	CR-1774	42 1/16x22x17 1/8″	36¾″	90	49.70	44.75	39.75	37.30
42 D 7501 CL2ZF	CR-1771	47 5/16x22x17 1/8″	42″	95	56.20	50.60	44.95	42.15
42 D 7502 CL2ZF	CR-1772	66 9/16x22x17 1/8″	61¼″	122	70.35	63.30	56.30	52.75
42 D 7503 CL2ZF	CR-1780	75 5/16x22x17 1/8″	70″	125	71.50	64.35	57.20	53.65
42 D 7504 CL2ZF	CR-1773	82 5/16x22x17 1/8″	77″	150	84.25	75.85	67.40	63.20
42 D 7505 L2ZF	*CR-2072	66 9/16x22x22 1/8″	61¼″	150	93.80	84.40	75.05	70.35
42 D 7507 CL2ZF	CR-2075	75 5/16x22x22 1/8″	70″	148	95.35	85.80	76.30	71.50
42 D 7506 L2ZF	*CR-2073	82 5/16x22x22 1/8″	77″	175	111.45	100.30	89.15	85.60

ADD-A-RACK SERIES

Permit above racks to be assembled into banks of two or more. Four sections: top, bottom, door and coupling panel. Replace either side of rack with coupling panel; add new top and bottom; attach side to new top and bottom; attach new door. For 19″ panel—24″ width available on Special Order. *AR-2276, 2277 in gray hammertone only.

SPECIFY GRAY HAMMERTONE, GRAY WRINKLE, OR BLACK WRINKLE FINISH

Stock No.	Mfr's Type	Used With	Wt., Lbs.	EACH 1-9	10-14	15-19	20-24
42 D 7508 CL2ZF	AR-1775	CR-1771	77	53.90	48.50	43.10	40.45
42 D 7509 CL2ZF	AR-1776	CR-1772	100	67.05	60.35	53.65	50.30
42 D 7511 CL2ZF	AR-1779	CR-1780	107	68.20	61.40	54.55	51.15
42 D 7510 CL2ZF	AR-1777	CR-1773	127	82.40	74.15	65.90	61.80
42 D 7512 CL2ZF	AR 1778	CR-1774	75	48.75	43.90	39.00	36.55
42 D 7613 L2ZF	*AR-2276	CR-2072	130	85.17	76.65	68.14	63.88
42 D 7515 CL2ZF	AR-2279	CR-2075	120	87.00	78.30	69.60	65.25
42 D 7514 L2ZF	*AR-2277	CR-2073	150	103.75	93.38	83.00	77.81

[B] DESK-TYPE RELAY RACKS

Chassis-type base. Supporting angles assure steadiness. Choice of finishes.

Gray Hammertone	Black Wrinkle	Mfr's Type	Overall Size	Panel Ht.	Wt., Lbs.	EACH 1-14	15-24	25-34	35-49
42 D 7309 U	42 D 7395 U	RR-1248	24x20⅜x12″	21″	15	10.50	9.45	8.40	7.88
42 D 7311 U	42 D 7396 U	RR-1249	31x20⅜x12″	28″	17	12.85	11.57	10.28	9.64

[D] SUPER-DELUXE ENCLOSED 2-DOOR CABINET RACKS

Like deluxe racks (Fig. A.), but panel supports adjustable 1-6″ at 1″ intervals. Takes casters. 16-ga. steel. For 19″ panel—24″ width available on Special Order.

SPECIFY GRAY HAMMERTONE, GRAY WRINKLE OR BLACK WRINKLE FINISH

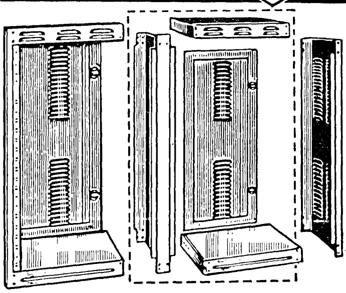
Stock No.	Mfr's Type	Overall Size	Panel Ht.	Wt., Lbs.	EACH 1-9	10-14	15-19	20-24
42 D 7522 CL2ZF	CR-2174	42 1/16x22x17 1/8″	36¾″	108	67.35	60.60	53.90	50.50
42 D 7523 CL2ZF	CR-2171	47 5/16x22x17 1/8″	42″	117	76.30	68.65	61.05	57.25
42 D 7524 CL2ZF	CR-2172	66 9/16x22x17 1/8″	61¼″	146	98.45	88.60	78.75	73.85
42 D 7526 CL2ZF	CR-2175	75 5/16x22x17 1/8″	70″	150	100.80	90.70	80.65	75.60
42 D 7525 CL2ZF	CR-2173	82 5/16x22x17 1/8″	77″	191	118.20	106.40	94.55	88.65

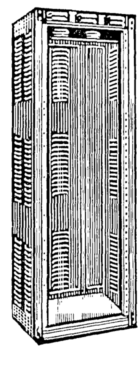
[E] OPEN-TYPE RELAY RACKS

Chassis-type base, except*, has base of ¼″ iron angles and brackets. For 19″ panel—24″ width available on Special Order. *RR-1265 in black wrinkle only.

SPECIFY GRAY HAMMERTONE OR BLACK WRINKLE FINISH

Stock No.	Mfr's Type	Overall Size	Panel Ht.	Wt., Lbs.	EACH 1-9	10-14	15-19	20-24
42 D 7516 CL2ZF	RR-1263	35 39/64x20x22″	31½″	38	23.90	21.51	19.12	17.93
42 D 7517 CL2ZF	RR-1363	40 55/64x20x22″	36¾″	37	23.05	20.75	18.44	17.29
42 D 7518 CL2ZF	RR-1264	70 39/64x20x22″	66½″	53	27.30	24.57	21.84	20.48
42 D 7519 L2ZF	*†RR-1265	72¼x20⅜x13″	66½″	100	63.00	56.70	50.40	47.25
42 D 7520 CL2ZF	RR-1364	75 55/64x20x22″	71¾″	46	26.40	23.76	21.12	19.80
42 D 7521 CL2ZF	RR-1366	81 7/64x20x22″	77″	48	31.45	28.31	25.16	23.59


ADD-A-RACK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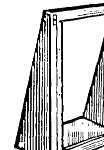
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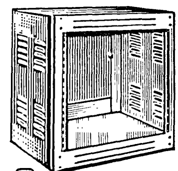
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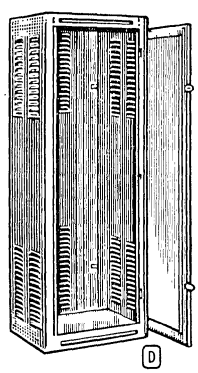
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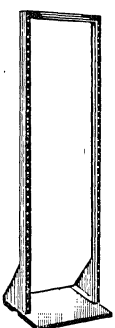

[E]

[C] HEAVY-DUTY CABINET RACKS AND ADD-A-CABS

For use where increased depth is required; clear inside depth, 16¼″; 22″ wide. Hinged removable rear door. Louvered sides and 2½x17½″ rear bottom vent. Consist of top, bottom, back and one side. Use one common side. Write for prices in quantities of 50-99. 24″ width available for CR rack only on Special Order.

SPECIFY GRAY HAMMERTONE, BLACK OR GRAY WRINKLE

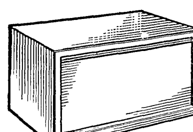
HEAVY-DUTY CABINET RACKS

Stock No.	Ht.	Panel Ht.	Type CR-	Wt., Lbs.	EACH 1-14	15-24	25-34	35-49
42 D 7527 CL2ZF	24½″	19¼″	1736	48	28.00	25.20	22.40	21.00
42 D 7528 CL2ZF	31½″	26¼″	1737	55	30.20	27.20	24.15	22.65
42 D 7529 CL2ZF	40¼″	35″	1738	64	35.85	32.25	28.70	26.90

ADD-A-CABS

Stock No.	Type ACR-	Used With	Wt., Lbs.	EACH 1-14	15-24	25-34	35-49
42 D 7530 CL2ZF	1936	CR-1736	41	26.65	24.00	21.30	20.00
42 D 7531 CL2ZF	1937	CR-1737	48	28.75	25.90	23.00	21.55
42 D 7532 CL2ZF	1938	CR-1738	55	34.15	30.75	27.30	25.60

MULTI-PURPOSE FUTURA CABINETS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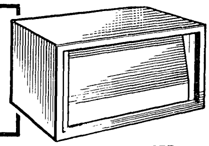

INCLINED

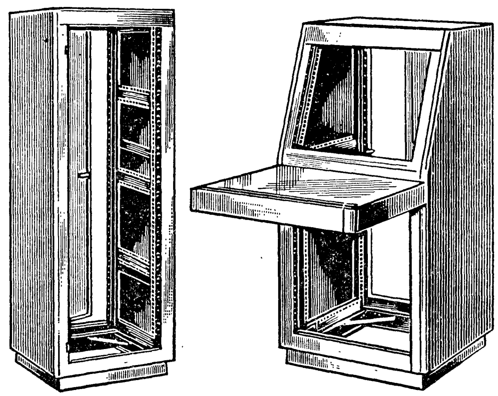
Removable top, side; front-panel flange-held—no screws. Body and rear panel 20-gauge steel; front panel (vertical or 15° incline), 18 gauge. 4 rubber feet on base. Chassis mounts to base, front or rear panel. Av. wt., 8 lbs. Specify smooth blue or gray finish.

Stock No.	Type MD-	Size, (HWD)	Panel Style	EACH 1-24	25-49	50-99	100-149
42 D 8732 C	1960	7x13x8″	Vertical	7.50	6.75	6.00	5.65
42 D 8733 C	1961	8x14x9″	Vertical	8.00	7.20	6.40	6.00
42 D 8734 C	1962	8x16x9″	Vertical	8.35	7.50	6.65	6.20
42 D 8735 C	1963	7x13x8″	Inclined	8.80	7.90	7.00	6.55
42 D 8736 C	1964	8x14x9″	Inclined	9.35	8.40	7.50	6.25
42 D 8737 C	1965	8x16x9″	Inclined	10.00	9.00	8.00	7.50

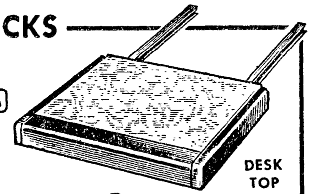
"F" in Suffix of Stock No. Indicates Shipment From Factory in Willoughby, Ohio

Cabinet Racks and Accessories

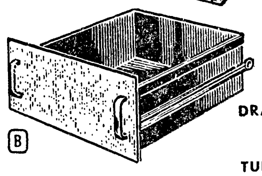
SERIES 60 CABINET RACKS



UPRIGHT UNIT INCLINED WITH DESK TOP

A 

DESK TOP



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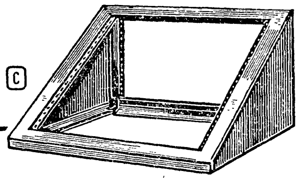
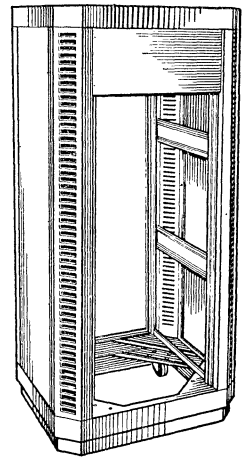
C 



Zephyr 8 Rack Combines Great Appearance with Extra Ventilation and Strength

UPRIGHT CABINET RACKS

Welded frame of 14-gauge cold-rolled steel channels. Sides have "U"-braces with perforated channels. Two pairs of vertical adjustable panel-mounting rails attach to braces. Rails support a 19″ panel and other equipment, as listed. No drilling necessary. Sides and rear door are of 16-gauge smooth steel with 6″ channel welded to door. Door mounts to open from either left or right. Front rails are drilled and tapped at 10-32 W.E. spacing, rear rails are drilled with universal spacing. Size: 24$\frac{1}{16}$″ wide. 23¾″ inside depth except †20¼″. Top opening 18½″ wide, 17″ deep on 22″ outside depth types; 18½″ wide, 20½″ deep on others. *Panel space. Contact Allied for prices on quantities of 10-14.

SPECIFY GRAY OR BLUE FINISH

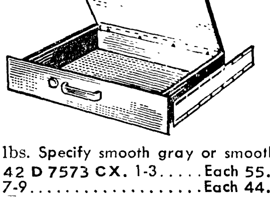
Stock No.	Type 60-	Ht. In.	D. In.	P.S.* In.	Wt., Lbs.	EACH 1-3	4-6	7-9
42 D 8700 CZF	2300	29⅝†	22	21	126	106.30	95.67	85.05
42 D 8701 CZF	2301	40⅛†	22	31½	156	131.45	118.30	105.15
42 D 8702 CZF	2302	50⅝†	22	42	176	146.05	131.45	116.85
42 D 8703 CZF	2303	61⅛†	22	52½	192	166.25	149.60	133.00
42 D 8704 CZF	2304	69⅞†	22	61¼	208	180.25	162.20	144.20
42 D 8705 CZF	2305	78⅝†	22	70	224	200.00	180.00	160.00
42 D 8706 CZF	2306	87⅜†	22	78¾	240	218.65	196.80	174.90
42 D 8707 CZF	2307	29⅝	25½	21	156	125.50	112.95	100.40
42 D 8708 CZF	2308	40⅛	25½	31½	176	151.20	136.10	120.95
42 D 8709 CZF	2309	50⅝	25½	42	192	168.00	151.20	134.40
42 D 8710 CZF	2310	61⅛	25½	52½	208	186.50	167.85	149.20
42 D 8711 CZF	2311	69⅞	25½	61¼	224	207.30	186.55	165.85
42 D 8712 CZF	2312	78⅝	25½	70	241	230.30	207.25	184.25
42 D 8713 CZF	2313	87⅜	25½	78¾	267	251.35	226.20	201.10

FULLY ASSEMBLED INCLINED PANEL RACKS

Feature panel mounting rails adjustable from front to rear on inclined, front and rear vertical sections. Rails accommodate a standard 19″ panel and optional desk top, as shown. Front rails drilled and tapped at 10-32 W.E. spacing. Welded frame of 14-gauge cold-rolled steel channels; sides and door of 16-gauge smooth-finish steel with a 6″ channel welded to door. Inclined panel is slanted 20° on vert. 50⅝″ high, 24$\frac{1}{16}$″ wide, 22″ outside depth, 20¼″ inside depth. *Inclined top panel height; †vert. bottom panel ht. 165 lbs.

SPECIFY GRAY OR BLUE FINISH

Stock No.	Type 60-	I.P.* In.	V.P.† In.	EACH 1-3	4-6	7-9	10-14
42 D 8674 CZF	2330	10½	29¾	165.25	148.70	132.20	123.94
42 D 8675 CZF	2331	15¾	24½	175.15	157.65	140.10	131.36
42 D 8676 CZF	2332	17½	22¾	175.15	157.65	140.10	131.36



DESK TOP DRAWER

Type 60-2363. Spacious drawer for small tools and components, circuit designs and manuals. Designed for use with Bud Series 60 cabinets. Hinged desk-top made of Formica bonded to aluminum; has piano-type hinge. Ingenious latch on front panel locks and releases drawer as well as releasing the top. Slides travel quietly on nylon rollers. Front panel is 3½x19″. 16⅝x3¼x15″ inside. 19 lbs. Specify smooth gray or smooth blue finish.

42 D 7573 CX. 1-3.....Each 55.00 4-6..............Each 49.50
7-9..................Each 44.00 10-14...........Each 41.25

ZEPHYR 8 STURDY 19-INCH PANEL RACKS

All-welded 14-gauge steel frame; 16-gauge removable sides, reinforced rear door. Front mounting rails (adjustable) drilled and tapped 10-32 with W.E. spacing. Octagonal shape with ventilating louvers on 4 sides. 24″ deep, 27$\frac{23}{32}$″ wide. 2-tone gray finish.

Stock No.	Mfr's Type	Ht. In.	Panel Space	Wt., Lbs.	EACH 1-3	4-6	7-9
42 D 8728 ZF	MD-1991	58¼	52½″	190	206.00	185.40	164.80
42 D 8729 ZF	MD-1992	61	61″	215	229.00	206.10	183.20

ZEPHYR 8 ACCESSORY DOORS

Stock No.	Mfr's Type	Used With Rack	Wt., Lbs.	EACH 1-3	4-6	7-9
42 D 8738 ZF	MD-1996	MD-1991	25	26.00	23.40	20.80
42 D 8739 ZF	MD-1997	MD-1992	30	28.90	26.00	23.10

SERIES 60 ACCESSORIES

A Desk Tops. Furnished assembled with durable, attractive wood-grained formica top surface and smooth sides. Easily fastens to rack with two predrilled channels that attach to enclosure's panel mounting rails. Support over 200 lbs. 3$\frac{1}{16}$x24$\frac{1}{16}$″ wide. 22 lbs.

SPECIFY GRAY OR BLUE FINISH

Stock No.	Mfr's Type	Depth	EACH 1-3	4-6	7-9	10-14
42 D 8680 CUF	60-2360	22″	36.05	32.45	28.85	27.04
42 D 7572 CUF	60-2362	25½″	36.75	33.05	29.40	27.55

B Type 60-2368 Drawer. Roll-out drawer slides out 16 inches on friction-free nylon rollers. Durable 16-gauge steel with 11-gauge 19″ panel and brackets. Capable of supporting heavy loads—accommodates sub-assemblies, test equipment, supplies. Safety-feature—drawer-stops permit drawer to be extended to full depth without danger of falling out. Shipped completely assembled. Silver-anodized aluminum handles. Inside dimensions, 6¾x16⅝x19¼″. Requires 8¾″ vertical space. Shpg. wt., 28 lbs.

SPECIFY GRAY OR BLUE FINISH

42 D 8682 CUF. 1-3.....Each 32.05 4-6.............Each 28.85
7-9....................Each 25.65 10-14..........Each 24.04

C Steel Turrets. Made of rugged 16-gauge steel. Designed so that any of three sides may be attached to Series 60 upright racks or placed on any horizontal surface. Fit standard 19″ rack panels. Mounting rails have universal hole spacing. Sides easily removable. Available panel space (front, bottom, and rear): Type 2364—17½″, 14″, 8¾″; Type 2365—12¼″, 10½″, 7″; Type 2366—21″, 17½″, 10½″. Panel spaces recessed ⅜″. Shpg. wt.: Type 2364, 17 lbs.; Type 2365, 14½ lbs.; Type 2366, 20 lbs.

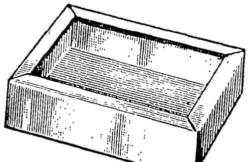
SPECIFY GRAY OR BLUE FINISH

Stock No.	Type 60-	Outside Size H	W	D	EACH 1-3	4-6	7-9	10-14
42 D 8150 CXF	2364	12$\frac{5}{16}$″	22$\frac{1}{16}$″	17⅞″	39.05	35.15	31.25	29.29
42 D 8151 CXF	2365	10$\frac{3}{16}$″	22$\frac{1}{16}$″	14⅜″	32.55	29.30	26.05	24.41
42 D 8152 CXF	2366	14⅜″	22$\frac{1}{16}$″	20$\frac{13}{16}$″	41.00	36.90	32.80	30.75

"F" in Suffix of Stock No. Indicates Shipment From Factory in Willoughby, Ohio

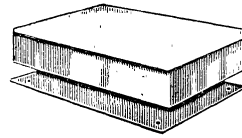
Durably Constructed Metal Bases

STEEL CHASSIS BASES



Standard

Best quality chassis bases. Available in zinc-plated or black-wrinkle finished steel, standard (18-22 gauge) or heavy-duty (16 gauge). Carefully formed, one-piece construction; corners are reinforced and spot-welded. The four sides are folded at the bottom to provide additional strength; bottom fold also permits easy addition of bottom plate. Standard bases are less bottom plates, see below. Heavy-duty bases are for uses requiring extra strength to hold heavy weights, and include 20 gauge bottom plates with mounting screws. *Punched to accommodate chassis mounting brackets.



Heavy-Duty

STANDARD CHASSIS BASES

Size			Gauge	Wt., Lbs.	Black-Wrinkle		EACH				Zinc-Plated		EACH			
H	W	D			Stock No.	Type	1-24	25-49	50-99	100-149	Stock No.	Type	1-24	25-49	50-99	100-149
2″	7″	5″	22	1	42 D 7820	CB-628	1.20	1.08	.96	.90	42 D 7884	CB-629	1.45	1.31	1.16	1.09
2½″	9½″	5″	22	1¼	42 D 7821	CB-644	1.50	1.35	1.20	1.13	42 D 7898	CB-645	1.85	1.67	1.48	1.39
1½″	9½″	5″	22	1	42 D 7822	CB-788	1.35	1.22	1.08	1.01	42 D 7899	CB-776	1.85	1.67	1.48	1.39
3″	10″	5″	22	1¼	42 D 7823	CB-604	1 40	1.26	1.12	1.05	42 D 7878	CB-605	2.05	1.85	1.64	1.54
3″	14″	6″	20	1¾	42 D 7824	CB-755	1.95	1.76	1.56	1.46	42 D 7900	CB-756	2.25	2.03	1.80	1.69
2″	7″	7″	20	1½	42 D 7825	CB-789	1.35	1.22	1.08	1.01	42 D 7879	CB-1191	1.65	1.49	1.32	1.24
2″	9″	7″	20	1½	42 D 7826	CB-790	1.55	1.40	1.24	1.16	42 D 7880	CB-1192	1.75	1.58	1.40	1.31
2″	11″	7″	20	1½	42 D 7827	CB-791	1.60	1.44	1.28	1.20	42 D 7881	CB-1193	1.85	1.67	1.48	1.39
3″	12″	7″	20	1¾	42 D 7828	CB-792	1.75	1.58	1.40	1.31	42 D 7882	CB-793	2.30	2.07	1.84	1.73
2″	13″	7″	20	2	42 D 7829	CB-646	1.70	1.53	1.36	1.28	42 D 7883	CB-1194	2.10	1.89	1.68	1.58
2½″	13½″	5″	20	2	42 D 7207	CB-647	1.95	1.76	1.56	1.46	42 D 7320	CB-1198	2.40	2.16	1.92	1.80
3″	15″	7″	20	3	42 D 7208	CB-649	2.20	1.98	1.76	1.65	42 D 7321	CB-1189	2.65	2.39	2.12	1.99
3″	15″	8½″	20	3½	42 D 7209	CB-665	2.45	2.21	1.96	1.84	42 D 7322	CB-666	3.00	2.70	2.40	2.25
3″	17″	4″	20	2¼	42 D 7210	CB-1068	2.00	1.80	1.60	1.50	42 D 7323	CB-1066	2.35	2.12	1.88	1.76
2½″	17″	7″	20	3	42 D 7211	CB-648	2.20	1.98	1.76	1.65	42 D 7324	CB-1199	2.60	2.34	2.08	1.95
3″	17″	7″	20	3½	42 D 7212	CB-757	2.40	2.16	1.92	1.80	42 D 7325	CB-758	2.85	2.57	2.28	2.14
2½″	10″	8″	20	2	42 D 7213	CB-701	1.90	1.71	1.52	1.43	42 D 7326	CB-702	2.20	1.98	1.76	1.65
2½″	12″	8″	20	2½	42 D 7214	CB-703	1.95	1.76	1.56	1.46	42 D 7327	CB-704	2.45	2.21	1.96	1.84
3″	12″	8″	20	2½	42 D 7215	CB-759	2.05	1.85	1.64	1.54	42 D 7328	CB-760	2.60	2.34	2.08	1.95
2″	17″	8″	20	3	42 D 7217	CB-650	1.90	1.71	1.52	1.43	42 D 7329	CB-774	2.60	2.34	2.08	1.95
3″	17″	8″	20	3¼	42 D 7220	CB-651*	2.25	2.03	1.80	1.69	42 D 7330	CB-775	2.90	2.61	2.32	2.18
3″	12″	10″	20	3	42 D 7830	CB-652	2.10	1.89	1.68	1.58	42 D 7901	CB-1195	2.50	2.25	2.00	1.88
3″	14″	10″	20	4	42 D 7831	CB-653	2.25	2.03	1.80	1.69	42 D 7902	CB-779	2.70	2.43	2.16	2.03
2″	17″	10″	20	3¼	42 D 7221	CB-654*	2.20	1.98	1.76	1.65	42 D 7284	CB-769	2.65	2.39	2.12	1.99
3″	17″	10″	20	3¾	42 D 7222	CB-636*	2.20	1.98	1.76	1.65	42 D 7331	CB-1196	3.35	3.02	2.68	2.51
3″	17″	10″	18	5	42 D 7223	CB-655*	2.80	2.52	2.24	2.10	42 D 7206	CB-637	3.15	2.84	2.52	2.36
3″	23″	10″	18	5½	42 D 7225 X	CB-656	3.15	2.84	2.52	2.36	42 D 7332 X	CB-1197	3.75	3.38	3.00	2.81
2″	17″	11″	18	4¾	42 D 7227 X	CB-657*	2.60	2.34	2.08	1.95	42 D 7333 X	CB-770	3.10	2.79	2.48	2.33
3″	17″	11″	18	5½	42 D 7228 X	CB-658*	3.05	2.75	2.44	2.29	42 D 7280 X	CB-771	3.85	3.47	3.08	2.89
2″	17″	12″	18	4¾	42 D 7229 X	CB-663*	2.70	2.43	2.16	2.03	42 D 7334 X	CB-661	3.40	3.06	2.70	2.25
3″	17″	12″	18	5½	42 D 7230 X	CB-664*	3.20	2.88	2.56	2.40	42 D 7281 X	CB-662	4.05	3.65	3.24	3.04
2″	17″	13″	18	5¼	42 D 7231 X	CB-659*	3.20	2.88	2.56	2.40	42 D 7282 X	CB-772	4.10	3.69	3.28	3.08
3″	17″	13″	18	6¼	42 D 7232 X	CB-660*	3.75	2.38	3.00	2.81	42 D 7283 X	CB-773	4.50	4.05	3.60	3.38
4″	17″	10″	18	5¾	42 D 7233	CB-640*	3.25	2.93	2.60	2.44	42 D 7335	CB-641	3.90	3.51	3.12	2.93
4″	17″	13″	18	7½	42 D 7234 X	CB-642*	4.30	3.87	3.44	3.23	42 D 7336 X	CB-643	5.15	4.64	4.12	3.86
5″	17″	10″	18	7	42 D 7235	CB-623	5.00	4.50	4.00	3.75	42 D 7337	CB-624	5.90	5.31	4.72	4.43
5″	17″	13″	18	7¾	42 D 7236 X	CB-625	5.45	4.91	4.36	4.09	42 D 7338 X	CB-626	6.55	5.90	5.24	4.91

HEAVY-DUTY CHASSIS BASES

For heavy-duty applications. One-piece 1/16″ steel; reinforced, spot-welded corners. Bottom-folded sides for added strength and easy attachment of bottom plate. In black wrinkle or zinc-plated finished steel. With bottom plates and mounting screws.

Size			Gauge	Wt. Lbs.	Zinc-Plated		EACH				Black-Wrinkle		EACH			
H	W	D			Stock No.	Type	1-24	25-49	50-99	100-149	Stock No.	Type	1-24	25-49	50-99	100-149
3″	17″	8″	16	6¾	42 D 7275	CB-1765	4.76	4.28	3.81	3.57	42 D 8536	CB-1758	4.26	3.83	3.41	3.20
3″	17″	11″	16	8½	42 D 7276 X	CB-1767	4.84	4.36	3.87	3.63	42 D 8537 X	CB-1760	4.34	3.91	3.47	3.26
2″	17″	13″	16	8½	42 D 7277 X	CB-1768	5.34	4.81	4.27	4.01	42 D 8538 X	CB-1761	4.84	4.36	3.87	3.63
3″	17″	13″	16	9½	42 D 7278 X	CB-1769	5.43	4.89	4.34	4.07	42 D 8539 X	CB-1762	4.93	4.44	3.94	3.70
4″	17″	13″	16	10½	42 D 7349 X	CB-1770	5.85	5.27	4.68	4.39	42 D 8540 X	CB-1763	5.26	4.73	4.21	3.95

STEEL BOTTOM PLATES FOR STANDARD CHASSIS BASES

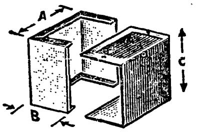
Bottom plates to fit standard chassis bases above. In zinc-plated or black wrinkle finished steel for exact matching with chassis. Effective shields against dust and dirt; protect wiring and components on the under side of the chassis. Bottom plates have four embossed feet in corners to prevent marring of table-tops or shelves. Drilled for No. 6 self-tapping screws.

Fits Chassis		Wt. Lbs.	Black-Wrinkle		EACH				Zinc-Plated		EACH			
D	W		Stock No.	Type No.	1-49	50-99	100-149	150-199	Stock No.	Type No.	1-49	50-99	100-149	150-199
5″	7″	½	42 D 7654	BP-705	.57	.51	.46	.43	42 D 7674	BP-706	.69	.62	.55	.52
5″	9½″	¾	42 D 7655	BP-680	.62	.56	.50	.47	42 D 7675	BP-667	.75	.68	.60	.56
5″	10″	¾	42 D 7656	BP-536	.73	.66	.58	.55	42 D 7676	BP-538	.80	.72	.64	.60
7″	7″	1	42 D 7657	BP-681	.92	.83	.74	.69	42 D 7677	BP-668	.97	.87	.78	.73
7″	9″	1	42 D 7658	BP-682	.94	.85	.75	.71	42 D 7678	BP-669	.99	.89	.79	.74
7″	11″	1	42 D 7659	BP-683	.95	.86	.76	.72	42 D 7679	BP-670	1.07	.96	.86	.80
7″	12″	1¼	42 D 7660	BP-537	1.10	.99	.88	.83	42 D 7680	BP-539	1.25	1.13	1.00	.94
7″	13″	1¼	42 D 7661	BP-684	1.02	.92	.82	.77	42 D 7681	BP-671	1.20	1.08	.96	.90
5″	13½″	1	42 D 7662	BP-685	.84	.76	.67	.63	42 D 7682	BP-672	1.00	.90	.80	.75
4″	17″	1½	42 D 7663	BP-1069	.90	.81	.72	.68	42 D 7683	BP-1067	1.20	1.08	.96	.90
7″	17″	1½	42 D 7664	BP-686	.90	.81	.72	.68	42 D 7684	BP-673	1.37	1.23	1.10	1.03
8″	10″	1¼	42 D 7668	BP-707	.92	.83	.74	.69	42 D 7685	BP-708	1.05	.94	.84	.79
8″	12″	1½	42 D 7665	BP-709	1.06	.95	.85	.80	42 D 7686	BP-710	1.34	1.21	1.07	1.01
8″	17″	1¾	42 D 7666	BP-687	.95	.86	.76	.71	42 D 7687	BP-674	1.54	1.39	1.23	1.16
10″	12″	1½	42 D 7667	BP-688	.95	.86	.76	.71	42 D 7688	BP-675	1.57	1.41	1.26	1.18
10″	14″	1½	42 D 7669	BP-517	1.40	1.29	1.12	1.05	42 D 7689	BP-514	1.50	1.35	1.20	1.13
10″	17″	1¾	42 D 7670	BP-689	1.20	1.08	.96	.90	42 D 7690	BP-676	1.60	1.44	1.28	1.20
11″	17″	1½	42 D 7671 X	BP-690	1.20	1.08	.96	.90	42 D 7691 X	BP-677	1.60	1.44	1.28	1.20
12″	17″	2	42 D 7672 X	BP-691	1.27	1.14	1.02	.95	42 D 7692 X	BP-678	1.87	1.68	1.50	1.40
13″	17″	2¼	42 D 7673 X	BP-692	1.47	1.32	1.18	1.10	42 D 7693 X	BP-679	2.24	2.02	1.79	1.68

When Ordering, Please Specify Stock No. and Mfr's Type No.

High-Quality Aluminum Products

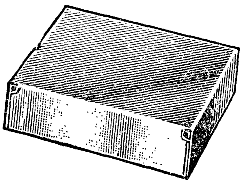
ALUMINUM TWO-PIECE MINIBOXES



Two-piece boxes, suited for housing above-chassis or below-chassis assemblies. Also excellent for complete, self-contained units where effective shielding as well as protection from dust and dirt is desired. May be used for phono amplifiers, VHF and UHF converters, low-pass TVI filters, test and measurement units, etc. Valuable for experimenters, industrial and laboratory use. Two-piece construction permits installation of more components than possible in a conventional box; also permits easy access to circuitry for servicing or wiring modifications. Flanges assure extremely low RF leakage and provide high rigidity. User has choice of snap-lock fastening or screw fastening; all hardware supplied. Made of high-quality aluminum, gray hammertone or natural finish; strong, yet easy to cut, punch and drill.

Size AxCxB	Wt., Lbs.	Gray Hammertone	Mfr's Type	EACH 1-49	50-99	100-149	150-199	Natural Aluminum	Mfr's Type	EACH 1-49	50-99	100-149	150-199
2¾x2⅛x1⅝″	¼	42 D 7616	CU-2100-A	.74	.67	.59	.56	42 D 7634	CU-3000-A	.65	.60	.52	.47
3¼x2⅛x1⅝″	¼	42 D 7617	CU-2101-A	.76	.68	.61	.57	42 D 7635	CU-3001-A	.65	.60	.52	.47
4x2⅛x1⅝″	¼	42 D 7618	CU-2102-A	.80	.72	.64	.60	42 D 7636	CU-3002-A	.70	.65	.55	.53
4x2¼x2¼″	¼	42 D 7619	CU-2103-A	.90	.81	.72	.68	42 D 7637	CU-3003-A	.80	.70	.65	.60
5x2¼x2¼″	¼	42 D 7620	CU-2104-A	.95	.86	.76	.71	42 D 7638	CU-3004-A	.85	.75	.70	.65
5x4x3″	½	42 D 7621	CU-2105-A	1.25	1.15	1.00	.95	42 D 7639	CU-3005-A	1.05	.95	.85	.80
5¼x3x2⅛″	¼	42 D 7622	CU-2106-A	1.02	.92	.82	.77	42 D 7640	CU-3006-A	.90	.80	.70	.68
6x5x4″	¾	42 D 7623	CU-2107-A	1.60	1.45	1.30	1.20	42 D 7641	CU-3007-A	1.30	1.15	1.05	1.00
7x5x3″	¾	42 D 7624	CU-2108-A	1.80	1.60	1.45	1.35	42 D 7642	CU-3008-A	1.45	1.30	1.15	1.10
8x6x3½″	1	42 D 7625	CU-2109-A	2.30	2.05	1.85	1.75	42 D 7643	CU-3009-A	1.85	1.65	1.50	1.40
10x6x3½″	1¼	42 D 7626	CU-2110-A	2.60	2.35	2.10	1.95	42 D 7644	CU-3010-A	2.05	1.85	1.65	1.55
12x7x4″	1¼	42 D 7627	CU-2111-A	3.50	3.15	2.80	2.65	42 D 7645	CU-3011-A	2.80	2.50	2.25	2.10
17x5x4″	2¼	42 D 7628	CU-2112-A	3.50	3.15	2.80	2.65	42 D 7646	CU-3012-A	2.80	2.50	2.25	2.10
10x2x1⅝″	½	42 D 7629	CU-2113-A	1.30	1.15	1.05	1.00	42 D 7647	CU-3013-A	1.05	.95	.85	.80
12x2½x2¼″	¾	42 D 7630	CU-2114-A	1.70	1.55	1.35	1.30	42 D 7648	CU-3014-A	1.35	1.20	1.10	1.00
4x2x2¾″	¼	42 D 7631	CU-2115-A	.92	.83	.74	.69	42 D 7649	CU-3015-A	.80	.70	.65	.60
4¼x2¼x1½″	¼	42 D 7632	CU-2116-A	.92	.83	.74	.69	42 D 7650	CU-3016-A	.80	.70	.65	.60
3¼x2⅛x1⅛″	¼	42 D 7633	CU-2117-A	.80	.72	.65	.60	42 D 7651	CU-3017-A	.70	.65	.55	.53

ALUMINUM CHASSIS BASES



Construction and design same as the steel chassis bases on the facing page. Each made from one piece of sheet metal. Bases are welded on Government-approved spot-welders specially developed for aluminum welding of aircraft parts—assures utmost strength and long lasting qualities. Natural finish aluminum alloy 5005 H-14. All are 18 ga., except †16 ga. and *14 ga. ‡Punched for chassis mounting brackets.

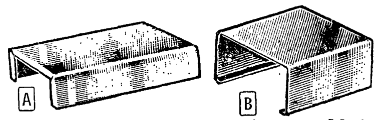
Stock No.	Mfr's Type	Size D.W.H.	Wt., Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7903	AC-431	4x6x2″	½	1.25	1.13	1.00	.94
42 D 7904	AC-430	4x6x3″	½	1.45	1.31	1.16	1.09
42 D 7341	AC-432†	4x17x3″	1¼	2.60	2.34	2.08	1.95
42 D 7846	AC-402	5x7x2″	½	1.30	1.17	1.04	.98
42 D 7905	AC-429	5x7x3″	¾	1.60	1.44	1.28	1.20
42 D 7847	AC-403	5x9½x2″	½	1.40	1.26	1.12	1.05
42 D 7848	AC-421	5x9½x3″	¾	1.80	1.62	1.44	1.35
42 D 7855	AC-404	5x10x3″	¾	1.80	1.62	1.44	1.35
42 D 7906	AC-422	5x13x3″	¾	2.10	1.89	1.68	1.58
42 D 7339	AC-433†	6x17x3″	1½	3.00	2.70	2.40	2.25
42 D 7849	AC-405	7x7x2″	½	1.50	1.35	1.20	1.13
42 D 7850	AC-406	7x9x2″	½	1.60	1.44	1.28	1.20
42 D 7851	AC-407	7x11x2″	¾	1.80	1.62	1.44	1.35
42 D 7852	AC-408	7x12x3″	1	2.20	1.98	1.76	1.65
42 D 7853	AC-409	7x13x2″	¾	1.90	1.71	1.52	1.43
42 D 7340	AC-411†	7x15x3″	1½	3.00	2.70	2.40	2.25
42 D 7242	AC-423†	7x17x3″	1¾	3.05	2.75	2.44	2.29
42 D 7907	AC-424†	8x12x3″	1½	2.70	2.43	2.16	2.03
42 D 7345	AC-425†	8x17x2″	1½	2.80	2.52	2.24	2.10
42 D 7257	AC-412†‡	8x17x3″	1¾	3.15	2.84	2.52	2.36
42 D 7854	AC-413†	10x12x3″	1¼	3.00	2.70	2.40	2.25
42 D 7908	AC-414†	10x14x3″	2	3.15	2.84	2.52	2.36
42 D 7346	AC-415†‡	10x17x2″	1¾	3.00	2.70	2.40	2.25
42 D 7347	AC-416†‡	10x17x3″	2	3.50	3.15	2.80	2.63
42 D 7258 X	AC-426*‡	11x17x2″	2¼	3.80	3.42	3.04	2.85
42 D 7259 X	AC-417*‡	11x17x3″	2½	4.40	3.96	3.52	3.30
42 D 7263 X	AC-418*‡	12x17x3″	2¾	4.50	4.05	3.60	3.38
42 D 7348 X	AC-419*‡	13x17x2″	2½	3.90	3.51	3.12	2.93
42 D 7260 X	AC-420*‡	13x17x3″	2¾	4.70	4.23	3.76	3.53
42 D 7261	AC-427*‡	10x17x4″	2¾	5.00	4.50	4.00	3.75
42 D 7262 X	AC-428*‡	13x17x4″	3¼	5.80	5.22	4.64	4.34

BOTTOM PLATES FOR CHASSIS BASES ABOVE

Effective shields against dust and dirt. Embossed feet in corners prevent marring tables. Drilled for No. 6 self-tapping screws.

Stock No.	Mfr's Type	Size W.D.	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
42 D 7694	BPA-1589	5x7″	⅛	.74	.67	.59	.56
42 D 7695	BPA-1590	5x9½″	¼	.75	.68	.60	.57
42 D 7696	BPA-1591	5x10″	¼	.75	.68	.60	.57
42 D 7697	BPA-1592	7x7″	⅓	.77	.69	.62	.58
42 D 7698	BPA-1593	7x9″	⅓	.80	.72	.64	.60
42 D 7699	BPA-1594	7x11″	⅓	.90	.81	.72	.68
42 D 7700	BPA-1595	7x12″	½	.97	.87	.78	.73
42 D 7701	BPA-1596	7x13″	½	1.14	1.03	.91	.86
42 D 7702	BPA-1597	10x17″	¾	1.52	1.37	1.22	1.14
42D7703X	BPA-1598	13x17″	¾	2.07	1.86	1.66	1.55

ALUMINUM OPEN-END CHASSIS



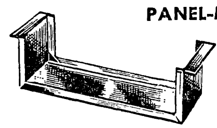
[A] **Heavy-Gauge.** U-shaped construction with ends folded over ⅜″ for added strength. Available in a wide variety of sizes for every requirement. Made of natural finish aluminum alloy 5005 H-14 (.040″). Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	H. W. D.	EACH 1-24	25-49	50-99	100-149
42 D 7801	CB-30	1½x7x5″	.97	.87	.78	.73
42 D 7802	CB-41	1½x7x7″	1.24	1.12	.99	.93
42 D 7804	CB-996	1½x9x5½″	1.20	1.08	.96	.90
42 D 7805	CB-976	1½x9x7½″	1.55	1.40	1.24	1.16
42 D 7807	CB-997	1½x11x7″	1.45	1.31	1.16	1.09
42 D 7808	CB-998	1½x13x7″	1.75	1.58	1.40	1.31
42 D 7800	CB-38	2x6x7″	1.00	.90	.80	.75
42 D 7803	CB-39	2x8x7″	1.17	1.05	.94	.88
42 D 7806	CB-40	2x10x7″	1.37	1.23	1.10	1.03

[B] **Miniature.** For miniature tubes and sub-assemblies. ¼″ mtg. flanges. 5005 H-14 (.040″) aluminum. Av. shpg. wt., ¾ lb.

Stock No.	Type	H.W.D.	EACH 1-24	25-49	50-99	100-149
42 D 7810	CB-1624	1x3⅛x1¾″	.45	.40	.35	.33
42 D 7816	CB-1617	1x3⅛x4″	.45	.40	.35	.33
42 D 7812	CB-1626	1x4⅛x2¾″	.50	.45	.40	.38
42 D 7817	CB-1618	1x4⅛x4″	.55	.50	.45	.41
42 D 7818	CB-1619	1x5⅛x4″	.60	.55	.50	.45
42 D 7819	CB-1620	1x6⅛x4″	.65	.60	.55	.50
42 D 7809	CB-1623	1¼x2¾x2⅝″	.40	.35	.32	.30
42 D 7814	CB-1628	1¼x6⅛x3″	.60	.55	.50	.45
42 D 7813	CB-1627	1½x4⅛x3¾″	.50	.45	.40	.38
42 D 7815	CB-1629	1½x4⅞x5¾″	.65	.60	.55	.50
42 D 7811	CB-1625	2x4½x3¼″	.55	.50	.45	.41

PANEL-MOUNTING CHASSIS

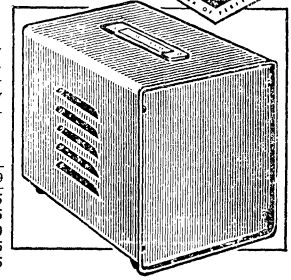


Rugged panel-mounting chassis designed for vertical installation in places where depth in space is limited or access from the front of chassis is desired. Ideally suited for professional type installations. Chassis are open-side type for standard 19″ mounting. All are sturdily constructed of .062″ aluminum sheet; have reinforced corners and natural finish. Front flanges are 1″ wide and have standard notching suitable for mounting to a rack. Other edges have ⅝″ flanges. All models are 17″ wide, excluding flange, and 5 9/32″ deep. In heights from 1¾″ to 14″ (see table below).

Stock No.	Mfr's Type	Ht.	Wt., Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7265	CB-1370	1¾″	1	2.55	2.30	2.04	1.91
42 D 7266	CB-1371	3½″	1½	2.85	2.57	2.28	2.14
42 D 7267	CB-1372	5¼″	1¾	3.10	2.79	2.48	2.33
42 D 7268	CB-1373	7″	2¼	3.60	3.24	2.88	2.70
42 D 7269	CB-1374	8¾″	2½	4.15	3.74	3.32	3.11
42 D 7270	CB-1375	10½″	2¾	4.85	4.37	3.88	3.64
42 D 7271 X	CB-1376	12¼″	3½	5.30	4.77	4.24	3.98
42 D 7272 X	CB-1377	14″	3¾	5.85	5.27	4.68	4.39

Allied Stocks a Complete Line of Bud Relay Racks and Accessories

Quality Cabinets and Meter Cases

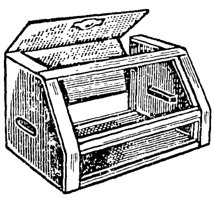


PORTACAB CABINETS

For equipment requiring maximum portability. Sturdy one-piece body is .050″ aluminum with contoured corners. Cabinet is louvered for adequate ventilation. Louvers point inward for side-to-side placement of cabinets without loss of space. Welded back has opening (table below) for access to interior. .062″ aluminum front panel recessed ½″ to protect controls. Front panel mtg. flanges ½″ wide. With 4 rubber feet. Gray hammertone finish. "Use With" column in table below indicates recommended Bud chassis (listed elsewhere in this section).

Stock No.	Mfr's Type	Depth	Width	Ht.	Opening	Louvers Per Side	Lbs.	Use With	EACH 1-24	25-49	50-99	100-149
42 D 8226	WA-1541	12″	8⅛″	9″	2x6½″	2 Sets	3	AC-407	12.60	11.35	10.10	9.45
42 D 8227	WA-1540	8″	6⅛″	8″	2x4½″	1 Set	2½	AC-402	9.65	8.70	7.70	7.25
42 D 8228	WA-1542	8″	10⅛″	8″	2x8½″	1 Set	3½	AC-406	11.20	10.10	8.95	8.40
42 D 8229 X	WA-1543	18″	11⅛″	11″	2x9½″	3 Sets	6½	AC-416	14.20	12.80	11.35	10.65
42 D 8233 X	WA-1544	18″	14⅛″	12″	2x12½″	3 Sets	7¾	AC-420	16.30	14.65	13.05	12.25

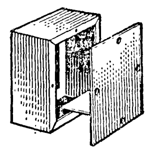
"PRESTIGE" SLOPING PANEL CABINETS



Expertly engineered to provide custom housings for quality apparatus. Features include: swept-back top panel; removable panel trim bar for chassis installation; recessed handle slots; ventilated top; rear opening for cables or controls. Uses 19″ rack panels. Gray hammertone. Rear opening, 2½x18″. Panel recess, 1¼″. Top depth, 9″. Overall width 22″. 3½″ vertical panel height; *inclined panel height. Shpg. wts.: C-1555, 26 lbs.; C-1556, 28 lbs.; C-1557, 31 lbs.

Stock No.	Mfr's Type	HxD	Panel Space	EACH 1-14	15-24	25-34	35-49
42 D 8573 U	C-1555	11⅞x14⅜″	* 7″	37.80	34.00	30.25	28.35
42 D 8574 U	C-1556	13¼x15⅛″	* 8¾″	40.60	36.35	32.50	30.45
42 D 8575 U	C-1557	14¾x16⅛″	*10½″	43.50	39.15	34.80	32.65

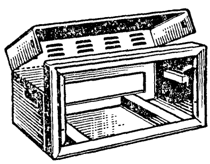
MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS



Sturdy steel cabinets with built-in chassis attached to front panel. For frequency meters, decade boxes, standing-wave bridges, etc. Removable front and rear panels fasten with self-tapping screws. Panels fit case flanges snugly; assure low RF leakage; protect components from dust. Black-wrinkle finish. Shpg. wts.: C-1793, ¾ lbs.; C-1794 and C-1795, 1 lb.; C-1796 and C-1797, 1¾ lbs.; C-1798, 2¾ lbs.

Stock No.	Mfr's Type	Cabinet HWD	Chassis HWD	EACH 1-49	50-99	100-149	150-199
42 D 7600	C-1793	4x4x2″	1x3⅛x1⅞″	1.45	1.30	1.15	1.10
42 D 7601	C-1794	4x5x3″	1x4⅛x2⅞″	1.65	1.50	1.30	1.25
42 D 7602	C-1795	5x4x3″	1¼x3⅛x2⅞″	1.80	1.60	1.45	1.35
42 D 7603	C-1796	6x5x4″	1¾x4⅛x3⅞″	1.85	1.70	1.50	1.40
42 D 7604	C-1797	5x6x4″	1¼x5⅛x3⅞″	2.10	1.90	1.70	1.60
42 D 7605	C-1798	6x6x6″	1¾x4⅞x5⅞″	2.40	2.15	1.90	1.80

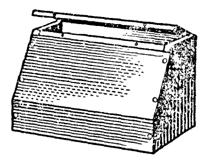
"PRESTIGE" STEEL CABINETS



Stock cabinets of advanced design. Removable hinged cover with grommeted finger holes swings back. Cover snaps closed by means of pressure fasteners. Two recessed handles. Two adjustable supporting channels for chassis of different widths. Height of channels permits flow of cooling air and easy removal of cabinet contents. For 19″ relay rack panels. 16-gauge steel. Has embossed feet. Width: 21⁹⁄₁₆″; depth, 14⅞″. Inside depth 13⅞″. Rear opening, 18x3″. Cover opening, 21⁹⁄₁₆x12¾″. Gray hammertone. Covers: *solid; †perforated.

Stock No.	Mfr's Type	Height	Panel Space	Wt., Lbs.	EACH 1-14	15-24	25-34	35-49
42 D 7288 U	C-1440*	9½″	7″	26	29.65	26.69	23.72	22.24
42 D 7289 U	C-1441*	14¼″	8¾″	27	31.55	28.40	25.24	23.66
42 D 7290 U	C-1442*	13″	10½″	29	34.45	31.01	27.56	25.84
42 D 7291 U	C-1550†	9½″	7″	26	32.10	28.90	25.70	24.10
42 D 7292 U	C-1551†	11¼″	8¾″	27	34.35	30.90	27.50	25.75
42 D 7293 U	C-1552†	13″	10½″	29	37.35	33.60	29.90	28.00

SLOPING-PANEL CABINETS

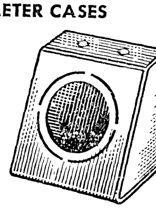


Sturdily built cabinets with hinged tops for easy access to tubes and other components. Front panel also removable for attachment of chassis. Fit following size chassis: C-1584, 7x6x2″; C-1585, 7x8x2″; C-1586, 7x10x2″; C-1587, 7x7x2″; C-1588, 7x9x2″; C-1892, 8x12x2½″; C-1893, 10x17x3″; C-1894, 7x13x2″; C-1896, 7x17x3″.

SPECIFY BLACK WRINKLE OR GRAY HAMMERTONE FINISH.

Stock No.	Mfr's Type	Size H x W x D	Wt. Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7466 C	C-1584	6½x7¹⁄₁₆x7⁵⁄₁₆″	2½	3.45	3.10	2.75	2.60
42 D 7467 C	C-1585	6½x9¹⁄₁₆x7⁵⁄₁₆″	3	3.95	3.55	3.15	2.95
42 D 7468 C	C-1586	6½x11¹⁄₁₆x7⁵⁄₁₆″	3½	4.55	4.10	3.65	3.40
42 D 7469 C	C-1892	8x13¹⁄₁₆x8½″	5¼	6.55	5.90	5.25	4.90
42 D 7470 CX	C-1893	10x18¹⁄₁₆x10½″	8½	8.65	7.80	6.90	6.50
42 D 7471 C	C-1587	8x8¹⁄₁₆x8″	2¾	4.75	4.30	3.80	3.55
42 D 7472 C	C-1588	8x10¹⁄₁₆x8″	3¼	5.25	4.75	4.20	3.95
42 D 7474 C	C-1894	8x14¹⁄₁₆x8″	4	5.85	5.25	4.70	4.40
42 D 7475 CX	C-1896	9x18¹⁄₁₆x8⅛″	7	8.45	7.60	6.75	6.35

UNIVERSAL METER CASES

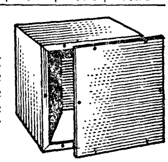


Modern, sloping-front meter housings. Supplied with front panel cut for 2″ meters; an easily removable knock-out ring enlarges hole to accommodate 3″ meters. Cases have one-piece back and sides attached by 4 self-tapping screws. Tops of cases have 2 convenient ⅜″ knock-outs for easy mounting of terminal posts or feed-through insulators. Type CMA 1930 permits installing small components as well as meter. Type CM 1935 is steel; Types CMA 1936 and 1930, aluminum. To minimize magnetic effect on meter, use aluminum case. In light gray hammertone. 4¼x4x4″; except CMA 1930, 4¼x6x4″. CM 1935, 1 lb.; CMA 1936, ¾ lb.; CMA 1930, 1 lb.

Stock No.	Mfr's Type	EACH 1-49	50-99	100-149	150-199
42 D 8541	CM1935	1.35	1.20	1.10	1.00
42 D 8542	CMA1936	1.60	1.45	1.30	1.20
42 D 7583	CMA1930	2.65	2.40	2.10	2.00

One Order to Allied Fills the Bill

METAL UTILITY CABINETS



Large selection of general-purpose cabinets, well adapted for shielding high gain preamps, RF sections, and other circuits. Two removable panels provide easy access to inside of cabinets. Steel cabinets are offered in black wrinkle or gray hammertone finish; shpg. wts. are given in table below. Aluminum cabinets have natural aluminum or gray hammertone finish; all have shpg. wts. of 1 lb.

STEEL

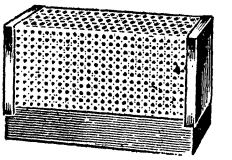
Size H.W.D.	Black Wrinkle	Gray Hammertone	Mfr's Type	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
4x4x2″	42 D 7856	42 D 7606	CU 883	¾	1.20	1.08	.96	.90
4x5x3″	42 D 7857	42 D 7607	CU 728	⅞	1.35	1.22	1.08	1.01
6x5x4″	42 D 7858	42 D 7608	CU 729	1¼	1.55	1.40	1.24	1.16
6x6x6″	42 D 7859	42 D 7609	CU 1098	2½	2.30	2.07	1.84	1.73
9x6x5″	42 D 7860	42 D 7610	CU 1099	3	2.60	2.34	2.08	1.95
10x8x7″	42 D 7861	42 D 7611	CU 879	5	3.70	3.33	2.96	2.78
10x10x8″	42 D 7863	42 D 7613	CU 880	5½	4.40	3.96	3.52	3.30
12x7x6″	42 D 7862	42 D 7612	CU 1124	4	3.60	3.24	2.88	2.70
12x11x8″	42 D 7864	42 D 7614	CU 881	6	4.80	4.32	3.84	3.60
15x9x7″	42 D 7865	42 D 7615	CU 882	7½	4.95	4.46	3.96	3.71

ALUMINUM

Size H.W.D.	Mfr's Type	Natural Finish	EACH 1-49	50-99	100-149	150-199	Gray Ham'rtone	EACH 1-49	50-99	100-149	150-199
4x4x2″	AU-1083	42 D 8543	1.40	1.26	1.12	1.05	42 D 8548	1.65	1.49	1.32	1.24
4x5x3″	AU-1028	42 D 8544	1.50	1.35	1.20	1.13	42 D 8549	1.85	1.67	1.48	1.39
6x5x4″	AU-1029	42 D 8545	1.65	1.49	1.32	1.24	42 D 8550	2.00	1.80	1.60	1.50
6x6x6″	AU-1039	42 D 8546	2.40	2.16	1.92	1.80	42 D 8551	2.65	2.39	2.12	1.99
9x6x5″	AU-1040	42 D 8547	2.75	2.48	2.20	2.06	42 D 8552	3.10	2.79	2.48	2.33

Foundations, Blowers, Cases, Casters

STANDARD AMPLIFIER FOUNDATIONS



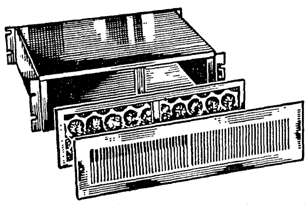
Meet most amplifier requirements. Each foundation consists of a sturdy 20-gauge steel chassis with a removable steel cover.

18-gauge steel angles are used on ends of each cover to provide firm bracing and allow a snug fit to chassis. Entire side and top area between ends is enclosed by 20-gauge metal screening; provides excellent ventilation and protection of tubes and components. Smooth, easy-grip metal handles are attached to the chassis for increased portability.

All types have a 2½" high chassis, except Type CA-1128 has a 3" high chassis. All have attractive black wrinkle finish that resists scratching. Shpg. wt.: CA-699, 4 lbs.; CA-1125, 4¾ lbs.; CA-1126, 6½ lbs. CA-1128, 6¾ lbs.

Stock No.	Type CA-	Size H. W. D.	EACH 1-24	25-49	50-99	100-149
42 D 7244	699	8 5/16x9 5/8x5 1/8"	6.20	5.58	4.96	4.65
42 D 7245	1125	8 5/16x13 5/8x5 1/8"	6.43	5.79	5.14	4.82
42 D 7246	1126	8 5/16x17 1/8x7 1/8"	7.26	6.53	5.81	5.45
42 D 7242	1128	8 13/16x12 1/8x10 1/8"	7.52	6.77	6.02	5.64

"TRANS-AIRE" BLOWERS



Used where excessive heat is generated by gear in enclosed racks or cabinets. Serve as intake or exhaust fans; operate in any position. Two-speed motors are rubber mounted—have oilite bearings. Thermal overload protection with automatic reset.

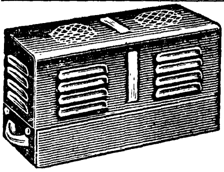
Fiberglas filter (1 included), may be changed without removing units. Type B-23 uses Type BF-24 filter; B-25 uses BF-26; B-27 uses BF-28. Horsepower: B-23, 1/20; B-25, 1/6; B-27, ¼. Panel width, all units, 19". May be mounted to rails of 19" racks or cabinets. *Air displacement (at high and low speeds) at 0° static pressure. 18" 3-wire cord. For 110-120 v., 60 cycle AC. Shpg. wts.: B-23, 16½ lbs.; B-25, 29 lbs.; B-27, 35¼ lbs.

Stock No.	Mfr's Type	HxD	CFM* High	CFM* Low	EACH 1-9	10-14	15-19	20-24
42 D 7287 X	B-23	3½x12"	200	100	52.50	47.25	42.00	39.38
42 D 7286 U	B-25	5¼x14½"	200	250	60.00	54.00	48.00	45.00
42 D 7285 U	B-27	7x14½"	700	350	67.50	60.75	54.00	50.63

FILTERS FOR ABOVE (Shpg. wt., 1 lb.)

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-149
42 D 7891	BF-24	1.35	1.22	1.08	1.01
42 D 7890	BF-26	1.50	1.35	1.20	1.13
42 D 7889	BF-28	1.65	1.49	1.32	1.24

STREAMLINED FOUNDATIONS

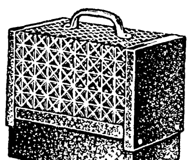


Deluxe foundation units for use where an especially neat, pleasing appearance is required. Ideal for all types of electronic equipment. Feature modern styling and rigid construction. Each unit consists of a removable top cover mounted on a chassis. Foundation covers are designed with louvered sides and perforated tops to provide proper ventilation and attractive styling. Strong aluminum handles are solidly fitted to each end of chassis. All chassis are 3" high.

SPECIFY BLACK WRINKLE OR GRAY WRINKLE ENAMEL FINISH

Stock No.	Mfr's Type	Size H. W. D.	Wt., Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7476 C	CA-1750	9x10 1/16x5"	4¾	7.45	6.70	5.95	5.60
42 D 7477 C	CA-1751	9x12 1/16x7"	6	8.80	7.90	7.05	6.60
42 D 7478 C	CA-1752	9x17 1/16x7"	7¾	9.35	8.40	7.50	7.00
42 D 7479 CX	CA-1753	9x17 1/16x10"	9¼	10.20	9.20	8.15	7.65

MINIATURE AMPLIFIER FOUNDATION

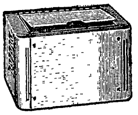


Type CA-1754. An extremely compact, sturdily built amplifier foundation. Designed to meet the requirements of builders employing miniature tubes, transistors, capacitors and other miniaturized components. Excellent for portable-type P.A. amplifiers, recording preamplifiers, etc. Chassis, an integral part of the unit, is 2" high, 7" wide and 5" deep. With foundation cover fastened in place, stands only 6" high. Heavy gauge steel.

Removable cover includes a carrying handle for comfortable hand grip and convenient carrying. Cover heavily perforated to allow circulation of air for cooling. Foundation cover securely fastened to the chassis sides with 4 self-tapping screws. Black wrinkle finish. Shpg. wt., 2 lbs.

42 D 7866. 1-24 . . . . Each 4.40
25-49 . . . . . Each 3.95 50-99 . . . . . Each 3.50
100-149 . . . . Each 3.30

STREAMLINED CABINETS

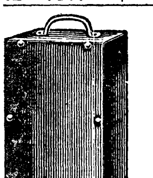


Ruggedly built units have recessed hinged cover with convenient finger lift for easy opening. Front panels fit flush with embossed, rounded front corners, are removable for chassis installation or cutouts. 3½" high opening in rear for cables or controls. Louvers on sides. 8" high and 8¼" deep except *12" high and 12" deep.

SPECIFY BLACK WRINKLE OR GRAY HAMMERTONE FINISH

Stock No.	Mfr's Type	Width	Panel Space	Wt. Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7592 C	CD-1480	10½"	8x8"	6¼	6.50	5.85	5.20	4.90
42 D 7593 C	CD-1481	12½"	8x10"	6	6.60	5.94	5.30	4.95
42 D 7594 CX	CD-1482	14½"	8x12"	7½	6.95	6.26	5.55	5.20
42 D 7595 CX	CD-1483	16½"	8x14"	8¾	7.45	6.70	5.96	5.60
42 D 7596 CX	CD-1484	18½"	8x16"	9¼	8.10	7.30	6.48	6.10
42 D 7597 CX	CD-1485*	20⅝"	12x18"	16¾	16.45	14.80	13.15	12.35

PORTABLE ALUMINUM AND STEEL CARRYING CASES



Offered in a wide selection of sizes. Ideal housings for portable transceivers, test instruments, power supplies, radio-control units, field strength meters, phono oscillators, etc. Top-mounted handle for portability. Front and back panels mount with self-tapping screws. Panels are removable to provide access to interior; can be used for mounting components such as meters, transformers, power resistors, etc. Available in either welded steel for maximum strength, or in aluminum for light weight. Ruggedly constructed to withstand hard usage; rigid design assures proper support for components. Aluminum units weigh less than 2 lbs.

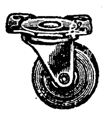
STEEL CASES

Black Wrinkle	Gray Wrinkle	Mfr's Type	H. W. D.	Wt., Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7838	42 D 7842	CC-1095	9x6x5"	3¼	3.30	2.97	2.64	2.48
42 D 7839	42 D 7843	CC-1091	6x9x5"	3¼	3.30	2.97	2.64	2.48
42 D 7840	42 D 7844	CC-1096	12x7x6"	4	4.60	4.14	3.68	3.45
42 D 7841	42 D 7845	CC-1092	7x12x6"	4	4.60	4.14	3.68	3.45
42 D 7247	42 D 7250	CC-1097	15x7¾x7"	7¾	5.15	4.64	4.12	3.86
42 D 7248	42 D 7251	CC-1100	10x10x8"	7¼	5.30	4.77	4.24	3.98
42 D 7249	42 D 7252	CC-1093	9x15x7"	8¼	6.45	5.81	5.16	4.84

ALUMINUM CASES

Size H.W.D.	Type ACC	Natural Finish	EACH 1-24	25-49	50-99	100-149	Gray Hammertone	EACH 1-24	25-49	50-99	100-149
9x6x5"	2095	42 D 8567	3.40	3.05	2.70	2.55	42 D 8571	3.85	3.45	3.10	2.90
6x9x5"	2091	45 D 8565	3.40	3.05	2.70	2.55	42 D 8569	3.85	3.45	3.10	2.90
12x7x6"	2096	42 D 8568	4.95	4.45	3.95	3.70	42 D 8572	5.60	5.05	4.50	4.20
7x12x6"	2092	42 D 8566	4.95	4.45	3.95	3.70	42 D 8570	5.60	5.05	4.50	4.20

SWIVEL TRUCK CASTERS



Type RC-7756. Heavy duty, ball-bearing casters for Bud deluxe relay racks. Support up to 400 lbs. distributed on four casters. Wheels are high grade, hard rubber. Overall height 2⅝". Shpg. wt., 10 oz.

42 D 8624. 1-49 . . . . Each .99
50-99 . . . . Each .90 100-149 . . . . . Each .80
150-199 . . . . Each .75

Type RC-7757. Light duty, ball-bearing casters for Bud relay racks. Wheels are precision constructed of durable, high grade hard rubber. Self-lubricating. Height, 2". Essentially same as above but designed for lighter load. Shpg. wt., 5 oz.

42 D 8079. 1-49 . . . . Each .44
50-99 . . . . . . Each .40 100-149 . . . . . Each .35
150-199 . . . . Each .33

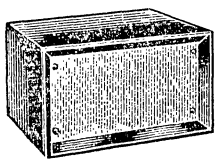
Type RC-7758. Heavy-duty casters designed for use with Bud Series 60 cabinets. Ball-bearing wheels are hard tread composition, self-lubricating. Wheel diameter, 2½". Height, 3¼". Shpg. wt., 1½ lbs.

42 D 8225. 1-49 . . . . Each 2.40
50-99 . . . . . Each 2.15 100-149 . . . Each 1.95
150-199 . . . . Each 1.80

Write, Wire or Phone for Prices on Larger Quantities

Quality-Built Cabinets

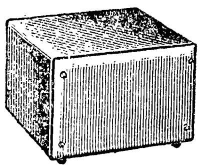
SHADOW CABINETS



All-steel equipment cabinets. These units have been expertly engineered to provide attractive, functionally-styled housing for all types of electronic devices. Ruggedly constructed, they feature recessed front panel design which not only improves appearance, but also protects equipment knobs, controls and switches from being moved accidentally. Sturdy, two-piece bodies are made of 18-gauge steel and front and rear panels are of 16-gauge steel. Finish is light gray hammertone. Bottom, front, and rear panels are each attached by four self-tapping screws. All are equipped with four rubber feet to prevent marring surfaces on which they may be placed. SB-2140 (11½ lbs.) accepts Bud chassis AC-424; SB-2141 (9½ lbs.) accepts chassis AC-408; SB-2142 (16 lbs.) accepts CB-660; SB-2143 (9¾ lbs.) accepts AC-409.

Stock No.	Mfr's Type	Size H. W. D.	EACH 1-24	25-49	50-99	100-149
42 D 7253	SB 2140	8x14¼x10"	6.85	6.15	5.50	5.15
42 D 7254	SB 2141	7½x13¼x9"	5.25	4.75	4.20	3.95
42 D 7255 X	SB 2142	9½x17x11"	9.30	8.35	7.45	7.00
42 D 7256	SB 2143	6x15½x9"	5.10	4.60	4.10	3.85

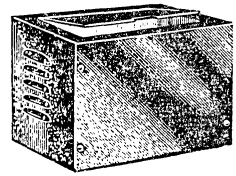
UTILITY CABINETS



Rugged utility cabinets for housing electronic equipment of all kinds. Sturdily constructed; made of 20-gauge steel throughout. Have rounded contoured corners; flanged panels also have rounded corners to preserve symmetry of design. Rear panel is louvered to assure complete ventilation of circuitry to be enclosed; unit has solid front panel. Both front and rear panels are attached with four 6-32 screws each, and are easily removed. Four rubber feet attached to base prevent scratching of surface on which unit is placed. Cabinets are attractively finished; bodies dark gray enamel, panels light gray enamel. Shpg. wts.: Type CU463, 1¾ lbs.; CU465, 2¼ lbs.; CU585, 3 lbs.; CU587, 3¾ lbs.; CU7125, 5 lbs.; CU7127, 6 lbs.

Stock No.	Mfr's Type	Size H.W.D.	EACH 1-24	25-49	50-99	100-149
42 D 8692	CU463	4 7/32x6 7/32x3¾"	5.50	4.95	4.40	4.13
42 D 8693	CU465	4 7/32x6 7/32x5¾"	6.35	5.72	5.08	4.76
42 D 8694	CU585	5 7/32x8 7/32x5¾"	8.35	7.52	6.68	6.26
42 D 8695	CU587	5 7/32x8 7/32x7¾"	9.10	8.19	7.28	6.83
42 D 8696	CU7125	7 7/32x12 7/32x5¾"	9.70	8.73	7.76	7.28
42 D 8697	CU7127	7 7/32x12 7/32x7¾"	10.35	9.32	8.28	7.76

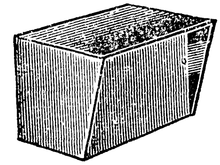
INSTRUMENT AND RECEIVER CABINETS



Ruggedly constructed, moderately priced steel cabinets. Particularly suitable for housing Amateur receivers, transmitters, signal generators, etc. Each unit has recessed hinged cover for easy access to all inside locations. Front panel is held securely in place with self-tapping screws. Panel extends full width of cabinet—provides maximum space for installation of controls. Louvers on each side of cabinet assure ample ventilation of circuitry inside. Body of cabinet is constructed of 20 gauge steel; panels are all 18 gauge steel, except those marked *, 16 gauge steel. Black wrinkle enamel finish.

Stock No.	Mfr's Type	Size H. W. D.	Wt., Lbs.	EACH 1-24	25-49	50-99	100-149
42 D 7652	C-973	7x8x8"	5	4.60	4.14	3.68	3.45
42 D 7653	C-993	7x10x8"	5½	5.30	4.77	4.24	3.98
42 D 7200	C-994	7x12x8"	6	5.50	4.95	4.40	4.13
42 D 7201	C-995	7x14x8"	7¼	5.80	5.22	4.64	4.35
42 D 7202	*C-1190	8x16x8"	9¼	8.35	7.52	6.68	6.26
42 D 7203 X	*C-975	9x15x11"	13	10.10	9.09	8.08	7.58
42 D 7205 X	*C-999	12x18x12"	17½	10.90	9.81	8.72	8.18

COWL-TYPE MINIBOXES

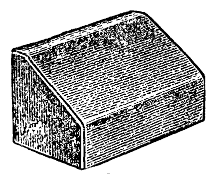


Sturdy 18-gauge aluminum. For housing VFO's, test equipment, etc. Easy to drill or punch. Projecting cover reduces glare from overhead lighting. Protects dials, switches and meter faces. Cover has two ½" box braces to which bottom is attached with 4 No. 6 self-tapping sheet metal screws provided with each "Minibox." Natural aluminum or gray hammertone finish.

Stock No.	Mfr's Type	Size H. W. D.	Wt., Lbs.	EACH 1-49	50-99	100-149	150-199
GRAY HAMMERTONE							
42 D 8684	SC-2130	6x10x7"	2	5.95	5.36	4.76	4.46
42 D 8685	SC-2131	7x12x8"	2¾	6.50	5.85	5.20	4.88
42 D 8686	SC-2132	3x8x5"	1	3.45	3.11	2.76	2.59
42 D 8687	SC-2133	5x5x5"	1	3.60	3.24	2.88	2.70
NATURAL							
42 D 8688	SC-3030	6x10x7"	1¾	4.30	3.87	3.44	3.23
42 D 8689	SC-3031	7x12x8"	2¾	4.70	4.23	3.76	3.53
42 D 8690	SC-3032	3x8x5"	1	2.45	2.21	1.96	1.84
42 D 8691	SC-3033	5x5x5"	1	2.60	2.34	2.08	1.95

UNIVERSAL SLOPING-PANEL CABINETS

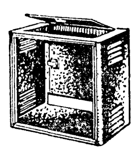
Ideal for control boxes, mike mixers, etc. Have one-piece detachable back and side attached with 4 screws. Accommodate most small chassis. All are 4¼" high, 4" deep. Have gray hammertone finish. Shpg. wts.: 4 and 5" wide cabinets, aluminum, ½ lb., steel, ¾ lb. 6 and 7" cabinets, aluminum, ¾ lbs., steel, 1⅛ lbs.



Rugged, Streamline Sloping-Panel Design

	ALUMINUM						STEEL					
Width	Stock No.	Mfr's Type	EACH 1-49	50-99	100-149	150-199	Stock No.	Mfr's Type	EACH 1-49	50-99	100-149	150-199
4"	42 D 8646	AC-1610	1.85	1.65	1.50	1.40	42 D 8642	C-1606	1.60	1.45	1.30	1.20
5"	42 D 8647	AC-1611	1.95	1.75	1.55	1.45	42 D 8643	C-1607	1.70	1.55	1.35	1.30
6"	42 D 8648	AC-1612	2.10	1.90	1.70	1.60	42 D 8644	C-1608	1.80	1.60	1.45	1.35
7"	42 D 8649	AC-1613	2.30	2.05	1.85	1.75	42 D 8645	C-1609	2.10	1.90	1.70	1.60

DELUXE CABINET RACKS

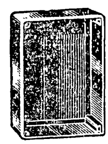


16-gauge steel cabinet racks with welded joints. Have rounded corners and are finished with red inlaid chrome trim on tops and front panel bottoms. All accommodate 19" panels; have recessed, hinged-top doors with flush-type snap locks. Types CR-1727, CR-1728, CR-1743, CR-1744 and CR-1745 have hinged rear doors with snap locks; others have fixed, welded back panels. Louvered sides and 2½" opening in bottom of rack provide ventilation. Types CR-1742 and CR-1739 have ten 9⅝" louvers per set; others, five 4⅝" louvers. All have 2 sets of louvers per side; except Types CR-1743 and CR-1728, 4 per side; Types CR-1744, CR-1727 and CR-1745, 6 per side. Drilled for EIA notched panels and tapped for 10-32 screws. With full size aluminum panel and mtg. screws. All 14¾" deep, 22" wide.

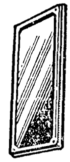
SPECIFY GRAY WRINKLE, BLACK WRINKLE OR LIGHT GRAY HAMMERTONE FINISH.

Stock No.	Mfr's Type	Ht.	Panel Space	Wt., Lbs.	EACH 1-14	15-24	25-34	35-49
42 D 7450C U	CR-1726	8 25/32"	7"	26¼	16.05	14.45	12.15	12.05
42 D 7451C U	CR-1741	10 9/16"	8¾"	28½	17.55	15.80	14.05	13.15
42 D 7452C U	CR-1740	12 5/16"	10½"	31	20.10	18.10	16.10	15.10
42 D 7456C U	CR-1742	14 1/16"	12¼"	32¼	21.15	19.05	16.90	15.85
42 D 7457C U	CR-1739	15 13/16"	14"	35¼	28.05	25.25	22.45	21.05
42 D 7458C U	CR-1743	19 5/16"	17½"	40	27.55	24.80	22.05	20.65
42 D 7459C U	CR-1728	33 5/16"	31½"	43	33.60	30.25	26.90	25.20
42 D 7460C Z	CR-1744	28 1/16"	26¼"	51	31.65	28.50	25.30	23.75
42 D 7461C Z	CR-1727	22 13/16"	21"	58	29.45	26.50	25.60	22.10
42 D 7462C Z	CR-1745	36 13/16"	35"	63	35.35	31.80	28.30	26.50

HARRY DAVIES PLASTIC CASES



A



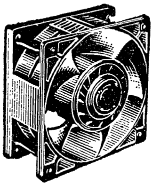
B

Molded black plastic cases (Fig. A) and panels (Fig. B) for test instrument mtg. Take meters with flange sizes up to 4⅝ x4 3/16". Cases have recessed corner bosses for flush mtg. of covers. Take ½" No. 6 self-tapping screws except #220 uses 4-36x½" screws. Walls and covers ⅛" thick. Cases, 1½ lbs.; panels, 1 lb. #Type 220; *240; †260; ▫221; ‡241; §261.

Stock No.	Fig.	Size	EACH 1-49	50-249	250-499	500-999
42D 7895	A#	4x2⅞x1 9/16"	.37	.32	.39	.26
42D 7885	A*	6 [illegible]x3¼x1⅞"	.66	.48	.44	.40
42D 7886	A†	6 13/16x5 9/64x2 5/64"	.84	.60	.56	.52
42D 7896	B	4x2⅞x 1/16	.30	.22	.20	.17
42D 7887	B‡	6x3½"	.48	.36	.32	.28
42D 7888	B§	6½x5"	.60	.44	.40	.36

Rotron Commercial Fans and Blowers

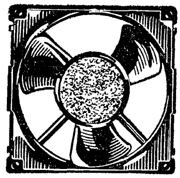
ROTRON



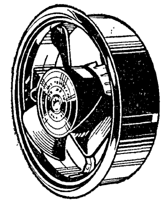
TARZAN

SPRITE

Compact Rotron Commercial Fans Deliver from 35 to 350 cfm.
Low Noise Level, Long-Life Operation, Easy Mounting



SENTINEL®



SKIPPER®

NEW TARZAN 350-CFM FAN

Unique new axial fan is specially designed for cooling tightly packed electronic cabinets and chassis. This radical departure in fan design provides a high pressure building characteristic approaching that of a centrifugal power. Circulates 350 cfm free delivery and up to 0.9″ of water at cut-off. For use at ambient temperature up to 160°F, with anticipated life of 3 to 4 years when operated at 120°F. Airflow is reversible by simply turning the fan around. Venturi is constructed of phenolic; spiders are of die-cast aluminum. The five-bladed propeller is made of high-impact, flame retarding polycarbonate. Motor is provided with double-shielded ball bearings for continuous duty operation without maintenance. Unit is easily mounted by through-holes at corners of the venturi. Size: 7″ square: 4$^{11}/_{32}$″ deep. Available in two models, for choice of electrical connections. Model TN3B2 has solder terminals; Model TN3D2 has 11″ leads. Accessories (listed below) include a Model 21196 Guard for either inlet or outlet, Model 17555 Plug and Cord set for the Model TN3B2 and Model 20990 Filter Box. For 115 volts AC, 50-60 cps. Shpg. wt., 5 lbs.

Stock No.	Mfr's Type	Connector Type	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8717	TN3B2	Terminals	38.60	36.10	33.50	31.00	28.40
60 D 8718	TN3D2	11″ leads	38.00	35.50	32.90	30.40	27.80
60 D 8719	21196	Guard	1.50	1.40	1.30	1.20	1.10
60 D 6874	20990	Filter Box	9.35	8.70	8.35	7.35	6.65

60 D 8800. Type 17555 Plug and Cord Set. For Model TN3B2 Tarzan Fan, with terminal connections.....................Each .60
60 D 6873. Type 18440 Filtercoat......................Each 1.00

NEW COMPACT SPRITE® 33-CFM FAN

Ideal for use in any commercial applications where space is at a premium. Size, only 3⅛″ square by 1.635″ deep. Delivers 33 cfm free delivery. Typical commercial uses include: office copying machines, power supplies, transmitters and receivers, counters, core memory equipment, paper tape equipment, printers, digital voltmeters, etc. Specially designed to fit 3½″ panel height in relay racks. Easily mounted with through-holes in corners of flanges at opposite ends of fan barrel. Quiet operation—35 db—at ambient temperatures from —20°F to +140°F. Venturi, spiders and motor mounting are single aluminum die casting. Nine-blade propeller is molded of high impact, flame retarding polycarbonate. Airflow is reversible by turning fan end-for-end. Life of up to 5 years, if relubricated regularly with oiler kit (below). Electrical connection to brass solder terminals; plug and cord available as accessory. For 115 volt AC, 50-60 cps operation. Designed to meet U.L. requirements. Shpg. wt., 14 oz.

60 D 6764. Model SP2A2 Sprite Fan. 1-9..............Each 11.65
10-24................Each 10.45 25-49.............Each 9.30
50-99................Each 8.15 100-499...........Each 7.55

ACCESSORIES FOR SPRITE FAN

60 D 6765. Type 20049 Finger Guard..................Each .60
60 D 6766. Type 20787 Plug and Cord Set..............Each .90
60 D 8618. Type 19263 Oiler Kit......................Each 2.50
60 D 8617. Type 19263-4 Lubricant....................Each 1.25

SENTINEL® LIGHTWEIGHT 100-CFM FAN

A featherweight fan with the stamina and power of a heavyweight. Weighing only 1 pound and measuring only 4$^{11}/_{16}$″ square and 1½″ deep, it delivers 100 cfm at ambient temperatures of up to 100°C. Provides real powerhouse performance over exceptionally long, trouble-free life. Engineered to incorporate every possible feature that contributes to cooler operation at high ambient temperatures. Venturi is made of high-impact, glass-filled phenolic for maximum durability and insulation. Stator is completely encapsulated. An aluminum heat sink draws heat from the winding and insures a cooler running motor. Ball bearings are made of stainless steel. Meets the requirements of MIL-E-4970A. For those ultra-rugged applications where heat is a major factor, or when it is desirable to avoid lubrication, you can choose the Sentinel with complete confidence. Has U.L. Yellow card. For operation at 115 volts, 50-60 cps AC. Skeleton fan is for use where only fan and motor are required. Also available with glass-filled phenolic venturi, with venturi and grille, and with venturi, grille and filter. Shpg. wt., 1 lb.

Stock No.	Description	EACH 1-9	10-24	25-49	50-99	100-249
60 D 8804	Skeleton Fan	20.80	19.65	17.85	15.55	15.00
60 D 8803	Venturi Fan	21.65	20.50	18.70	16.30	15.65
60 D 8802	Grille Fan	22.60	21.20	19.30	16.80	16.15
60 D 8801	Filter Fan	24.95	23.50	21.55	18.70	17.95

LOW-COST 100-CFM SKIPPER® FAN

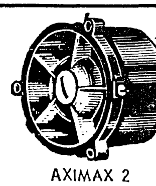
Designed for extremely low-cost cooling in computers, office equipment, receivers, sound systems, vending machines, office copying equipment; many other commercial applications. Delivers 100 cfm (free delivery) at ambient temperatures up to 140°F. Only 5$^{3}/_{16}$″ in diameter by 1$^{13}/_{16}$″ deep. Quiet operation—only 38 db. Heat sink at base of bearing keeps motor cool at all temperatures. Airflow can be easily reversed with special mounting accessories listed below. The fan mounts easily with a single retaining ring in a single hole; no nuts or bolts needed. Venturi is molded from rugged polypropylene; motor and mounting spiders are die-case, thermal conductive aluminum. Solder terminal connection. For 115 volts AC, 60 cps. Meets U.L. requirements. Up to 5 year life if relubricated regularly with oiler kit (below). Skeleton fan includes only fan and motor; Venturi fan includes venturi ring and frame. Wt., 15 oz.

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-49	50-99	100-499
60 D 9766	SKP4	Skeleton Fan	7.40	6.65	5.90	5.20	4.80
60 D 8715	SKR4	Venturi Fan	7.90	7.10	6.30	5.55	5.15

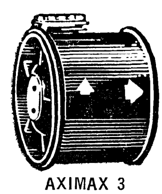
ACCESSORIES FOR SKIPPER FAN

60 D 9768. Type 19561-2 Mounting Plate................Each .45
60 D 8716. Type 19432 Ring............................Each .35
60 D 9767. Type 20575 Clamp...........................Each .40
60 D 9769. Type 20757 Grille..........................Each .40
60 D 9770. Type 18944 Plug and Cord Set...............Each .40
60 D 9771. Type 20576 Solder Boot.....................Each .15
60 D 8618. Type 19263 Oiler Kit.......................Each 2.50
60 D 8617. Type 19263-4 Lubricant.....................Each 1.25

MINIATURE AXIMAX® FANS FOR AIRBORNE COOLING



AXIMAX 2



AXIMAX 3

Vane-axial fans primarily for airborne cooling applications. Choice of 115 or 200 VAC, 60 or 400 cps, single or 3-phase. *Altivar® designs increase shaft speed inversely with density, for constant cooling at all altitudes. Lubricated for max. ambient of 125°C. Min. life expectancy: 1000 hours for high-speed designs; 2500 for slow-speed. Aximax 3 has clamping rim (use Synclamps, below). Terminal block. Aximax 2 has three mtg. lugs and solder terminals. Airflow can be reversed by turning fan end for end. Meet applicable MIL specs. †60 cps; all others are 400 cps. Av. shpg. wt., 1 lb.

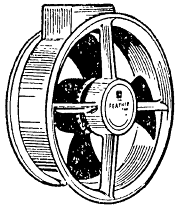
AXIMAX 2

Stock No.	Mfr's Type	Volts	Phase	RPM	CFM	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8554	367JS	200	3	20,500	59	47.25	41.90	39.05	34.75	32.75
60 D 8555	368YS	115	1	20,000	58	47.25	41.90	39.05	34.75	32.75
60 D 8558	464YS	115	1	11,000	30	47.25	41.90	39.05	34.75	32.75
60 D 8559	†606NS	115	1	3,150	8	50.40	45.05	42.20	37.90	35.90

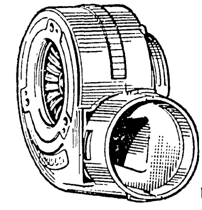
AXIMAX 3

Stock No.	Mfr's Type	Volts	Phase	RPM	CFM	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8560	341JS	200	3	22,000	162	62.50	55.65	52.00	46.20	43.80
60 D 8565	528YS	115	1	23,000	162	59.50	53.00	49.50	44.00	41.70
60 D 8563	*387JS	200	3	13,000	95	62.50	55.65	52.00	46.20	43.80
60 D 8562	*400YS	115	1	11,000	80	62.50	55.65	52.00	46.20	43.80
60 D 8564	422DS	115	1	11,300	82	62.50	55.65	52.00	46.20	43.80
60 D 8561	†599NS	115	1	3,450	23	65.65	58.80	55.15	49.35	46.95

Rotron Commercial Fans and Blowers

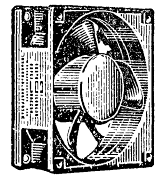


FEATHER®



NUGGET®

WHISPER®



MARK IV®

EXTRA-LIGHTWEIGHT FEATHER® FAN

TYPE 103. Moves a large volume of air in limited-space areas requiring a shallow fan. Excellent for cooling computer consoles, relay racks, power supplies. Has prelubricated miniature, stainless-steel ball bearings. Ambient temperature range, −55° C to +65° C. Only 7″ dia. by 2⅞″ deep; 1½ lbs. Provides 270 cfm free delivery. Clamping rim mounting provides reversible airflow. Tinned brass terminals. Constructed of high-impact, fungusproof Lexan plastic. Filters air with box, below. Two-tone gray finish. Power consumption, 22 watts. Aerodynamically and mechanically interchangeable with Rotron Saucer Fan. Cord and plug listed below. For 115 volts, 50-60 cycle AC. Shpg. wt., 2 lbs.

Stock No.	Mfr's Type	Description	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8593	103	Feather Fan	34.00	32.00	30.20	28.50	26.90
60 D 7246	124110	Filter Box	8.60	8.00	7.65	6.75	6.60
60 D 8591	14559	Rim-Mount Guard	3.65	3.40	3.25	2.90	2.70
60 D 8592	14651	Panel-Mount Guard	3.65	3.40	3.25	2.90	2.70
60 D 7247	16410	Mounting Clamps (Uses 3)	Each .05				
60 D 7070	14611	Panel-mount Clip (3 per Guard)	Each .15				
60 D 9393	16398	Plug and Cord	Each .80				
60 D 7071	18440	Filtercoat	Per Can 1.00				

SPOT-COOLING 15-CFM NUGGET BLOWER

Spot-cooling Nugget Blower provides direct blast of air on any specific component or hot spot in electronic equipment. Capacity, 15 cfm. Housing easily rotated to any of three positions, in order to direct air at desired component or location. Versatile mounting —may be mounted from inlet, end of motor, or from outlet, using an optional flange. Has provision for ducting to inlet or from outlet. Extremely quiet operation. Compact—measures only 3¹⁹⁄₃₂x4¹⁄₃₂x 2⅛″. Draws only 7 watts of power. Weighs only 0.6 pound. Also may be used as a miniature stirring device by removing the housing (Type NTP2). For 115 volts, 50-60 cycle AC. Shpg. wt., 14 oz.

NUGGET BLOWERS. *Housing not included.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-99	100-249
60 D 8793	NTH2	13.70	12.30	10.95	9.60	8.90
60 D 8794	NTP2*	12.70	11.45	10.10	8.90	8.25

60 D 8720. Type 17181 Housing....................... Each 1.00
60 D 8795. Type 17471 Outlet Flange.................... Each .50
60 D 8796. Type 17469 Inlet Rim........................ Each .50
60 D 8765. Type 17597 Inlet Clamp...................... Each .50
60 D 8798. Type 17597-1 Outlet Clamp................... Each .50
60 D 8799. Type 19803 Threaded Inserts for Inlet....... Set of 3 .15
60 D 8800. Type 17555 Plug and Cord.................. Each .60

SUPER-QUIET WHISPER® FAN

Exceptionally quiet operation makes the Whisper Fan the ultimate for all applications where noise level must be minimized. Perfect for offices, labs, hi-fi systems, Ham gear, sound systems, etc. Delivers 65 cfm at a noise level of only 18 db. Interchangeable with Muffin Fan, at right. Can be used in round or square opening or can be mounted with two clips (see listing below, at right). Air flow reversible. High-impact Phenolic frame. Operates at 1800-rpm nom.; draws only 8 watts. 4¹¹⁄₁₆ x only 1½″ deep. For 115 volts, 50-60 cycle AC. *Less venturi block. Av. shpg. wt., 1 lb.

Stock No.	Description	EACH 1-9	10-24	25-49	50-99	100-499
60 D 9400	Skeleton Fan*	13.90	13.20	11.65	10.25	9.50
60 D 8611	Venturi Fan	14.80	14.00	12.45	10.90	10.15
60 D 8610	Grille Fan	15.65	14.85	13.30	11.75	10.95
60 D 8612	Filter Fan	17.10	16.45	14.85	13.35	12.55

WHISPER FAN KIT. Venturi Fan, with cord, plug, and mtg. hardware.
16 D 2031.. Each 14.85

LONG-LIFE MARK 4 MUFFIN® FAN

Based on an original aerodynamic design, the Muffin Fan efficiently cools, directs heat, or ventilates. Excellent for cooling computers, office copy equipment, power supplies, TV cameras, and many other industrial components. Delivers 100 cfm (free delivery) with a low noise level of 40 db. Airflow is reversible by turning the fan end for end. Ambient temperature range is 0° to 160°F. Life expectancy: 10 years at 70°F. Aluminum heat sink at base of bearing. Encapsulated motor stator resists moisture and humidity. High-impact phenolic venturi. Solder terminals. Fan is impedance protected and designed to meet U.L. requirements. Size: 4¹¹⁄₁₆″ square by only 1½″ deep; wt., only 1 lb. For 115 v., 50-60 Hz AC. Av. shpg. wt., 1 lb.

Stock No.	Description	EACH 1-9	10-24	25-49	50-99	100-499
60 D 8599	Skeleton Fan	12.80	11.50	10.20	8.95	8.20
60 D 8597	Venturi Fan	13.70	12.30	10.95	9.60	8.90
60 D 8596	Grille Fan	14.50	13.05	11.60	10.15	9.45
60 D 8598	Filter Fan	15.85	14.40	12.95	11.50	10.80

60 D 8618. Type 19263 Oiler Kit..................... Each 2.50
60 D 8617. Type 19263-4. Lubricant.................. Each 1.25

ACCESSORIES FOR MUFFIN, WHISPER, SENTINEL FANS

#15449. Filter assembly. Includes filter, frame and clips.
60 D 8613. 1-499.................................. Each 2.30
60 D 8614. #16238 Standard Spiral Grille. 1-499........ Each .80
60 D 9401. #17826 Grille, Expanded Metal. 1-499....... Each .80
60 D 8615. #13996 Mounting Clips. 1-499 .... Per Pair .20
60 D 9268. #20132-2 Finger Guard. 1-499 .... Each .50
60 D 8616. #16415 Plug and Cord Assembly. 1-499....... Each .60
60 D 8619. #15448 Filter Cartridge for Muffin Fan. 1-499.. Each 1.50
60 D 7071. Type 18440 Filtercoat, 1-499............... Each 1.00

MINIATURE HIGH-AIR-PERFORMANCE PROPIMAX® FANS

Small tube-axial fans with high air performance for their size and weight. Excellent for cooling small airborne equipment in limited-space area. *Altivar® types provide constant cooling at all altitudes. Maximum ambient temperature: 125°C. Bearing life: 1000 hours for high-speed types, and 2000 hours for slow-speed types. Have clamping rims (use Synclamps, below). Terminal block connections. Meet applicable MIL specs. †60 cps. All others are 400 cps. Av. shpg. wt., 1 lb.

PROPIMAX 2 (1½x3¼″ diameter.)

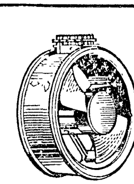
Stock No.	Mfr's Type	Volts	Phase	RPM	CFM	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8580	366ZS	115	1	21,500	120	60.00	54.00	50.70	45.00	42.70
60 D 6870	367JS	200	3	20,700	118	60.00	54.00	50.70	45.00	42.70
60 D 8581	*395JS	200	3	12,000	67	60 00	54.00	50.70	45.00	42.70
60 D 6871	*415ZS	115	1	12,500	68	60.00	54.00	50.70	45.00	42.70
60 D 8583	464ZS	115	1	11,000	62	60.00	54.00	50.70	45.00	42.70
60 D 8584	†606NS	115	1	3,250	18	63.00	57.00	53.70	48.00	45.70

PROPIMAX 3 AND 3B (2x3¾″ diameter.)

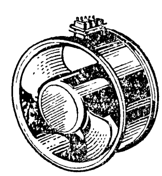
Propimax 3 has 2 blades, 3B has 4 blades. All are 3B except 341JS and 409ZS.

Stock No.	Mfr's Type	Volts	Phase	RPM	CFM	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8790	341JS	200	3	22,500	220	64.00	57.00	53.00	47.20	44.70
60 D 8787	409ZS	115	1	22,000	280	64.00	57.00	53.00	47.20	44.70
60 D 8791	472JS	200	3	11,000	187	64.00	57.00	53.00	47.20	44.70
60 D 8789	400ZS	115	1	6,280	117	64.00	57.00	53.00	47.20	44.70
60 D 8792	*387JS	200	3	8,300	142	64.00	57.00	53.00	47.20	44.70
60 D 8788	754DS	115	1	11,100	192	64.00	57.00	53.00	47.20	44.70
60 D 8786	†763ZS	115	1	3,500	58	67.00	60 00	56.00	50.20	47.70

60 D 8578. Type 109074-337 Synclamp. (3 required per fan) Each.......... .35
60 D 6872. Type 309074 Reverse Synclamps. (3 per fan) Each.............. .40



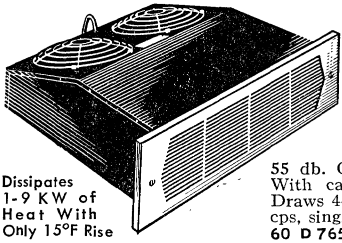
PROPIMAX 2



PROPIMAX 3

Rotron Industrial Fans and Blowers

TWINPAX® 2-CABINET 400-CFM RELAY RACK COOLING PANEL



For air-flushing standard 19″ EIA notched relay racks. Consists of twin Feather Fans, box, and permanent, washable aluminum filter. Prelubricated, stainless steel ball bearings. Ambient temp. range, —55 to +65°C. Quiet—only 55 db. Only 5¼″ panel height. With capacitor and line cord. Draws 44 watts at 115 v., 50-60 cps, single-phase. Wt., 17 lbs.

60 D 7655 X. 1-4.....Each 88.90
5-9.........Each 85.50 10-24.........Each 82.10
25-49.........Each 75.25 50-99.........Each 68.40
60 D 7071. Type 18440 Filtercoat. Shpg. wt., 4 oz.....Per Can 1.00
60 D 8585. Type 19699 Fan Guard Kit. 1-4.........Each 3.30
5-9.........Each 3.10 10-24.........Each 3.00
25-49.........Each 2.70 50-99.........Each 2.50

TYPE CFG FAN AND PROPELLERS (Not illus.)

CFG Fan. For instrument racks, transmitter cubicles and relay racks. Dissipates 5 kw of heat with allowable temperature rise of 40° F. Less propeller, below. 10″ diameter x 6½″. For 115 volts. 50-60 cycle AC. Shpg. wt., 7 lbs.

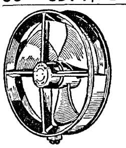
60 D 8568. 1 to 4....Each 26.60 5-9.........Each 25.00
10-24.........Each 24.00 25-49.........Each 21.30
60 D 9398. Type 18083 Screen Guard. 1-4.........Each 2.15
5-9.........Each 2.00 10-24.........Each 1.90
25-49.........Each 1.70 50-99.........Each 1.65

CFG PROPELLERS

L in Type Number for push airflow; R for pull airflow.

Stock No.	Mfr's Type	Cfm Max.	EACH	Stock No.	Mfr's Type	Cfm Max.	EACH
60 D 8569	1-L	280	2.50	60 D 8572	2-R	340	2.50
60 D 8570	1-R	260	2.50	60 D 8573	3-L	540	2.50
60 D 8571	2-L	340	2.50	60 D 8574	3-R	520	2.50

SAUCER® FAN 280-CFM



For flushing of tightly packaged cabinets where depth of fan is critical. Delivers 280 cfm from fan only 2½″ deep x 7″ dia. Lubricated for life in max. ambient of 65°C. Clamping rims for easy mounting. Airflow reversible by turning fan end for end. Terminal block. Meets MIL specs for ground, shipboard. For 115 v. AC, 50-60 cps, single-phase. 2 lbs.

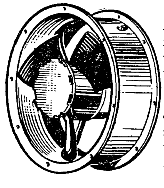
60 D 8587. Type 340 ZS 1-4.........Each 64.00
5-9.........Each 57.00 10-24.........Each 53.00
25-49.........Each 47.20 50-99.........Each 44.70

ACCESSORIES

Stock No.	Mfr's Type	Description	EACH 1-4	5-9	10-24	25-49	50-99
60 D 8591	14559	Rim mt. guard	3.65	3.40	3.25	2.90	2.70
60 D 8592	14651	Panel mt. guard	3.65	3.40	3.25	2.90	2.70
60 D 8590	121802	Filter box	15.20	14.39	13.80	12.60	12.10

60 D 578. 109074-337 Synclamps. (3 required per fan.) For Aximax 3, Propimax, Saucer Fan.........Each .40
60 D 6872. 309074 Reverse Synclamps. (3 required).........Each .40
60 D 7070. 14611 Panel Mounting Clip. (3 per guard).........Each .15
60 D 7071. 18440 Filtercoat, Can.........Each 1.00

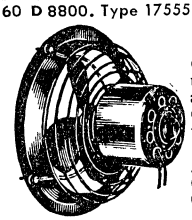
CARAVEL® 575-CFM FAN



High-capacity, shallow fan is fine for cooling large cabinets, racks or transmitter cubicles. Although it measures only 3½″ in depth, it delivers 575 cfm, continuously and quietly. May be mounted on bottom, side wall or top of cabinet, using holes around circumference of aluminum venturi. Airflow may be reversed by turning fan end-for-end. Motor is completely sealed for life. Fan rotates at only 1650 rpm, consequently the noise level is a low 49 db. Temperature range, —20° to +140°F. Requires no maintenance. Size, 10″ diameter, 3½″ deep. Choice of terminal block connection (Type CL2T) or 24″ leads (Type CL2L). Mating cord and plug are available (see listing below). Type 19694 screen guard is also optional (listed below). For use on 115 volts, 50-60 cps AC. Shpg. wt., 5¾ lbs.

60 D 9399. Type CL2T. Terminal block connection. 1-4.. Each 26.00
5-9.........Each 24.25 10-24.........Each 23.00
25-49.........Each 19.30 50-99.........Each 18.20
60 D 6875. Type CL2L. With 24″ leads. 1-4.........Each 25.50
5-9.........Each 23.75 10-24.........Each 22.50
25-49.........Each 18.80 50-99.........Each 17.70
60 D 9804. Type 19694 Screen Guard. 1-4.........Each 2.15
5-9.........Each 2.00 10-24.........Each 1.90
25-49.........Each 1.70 50-99.........Each 1.65
60 D 8800. Type 17555 Plug and Cord.........Each .60

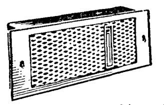
PF PROPELLER FAN



Compact units deliver 220 cfm. Continuous duty at 125° F. PF-L indicates push airflow; PF-R, pull airflow. 8⅛″ dia. x 4½″ deep. 110-115 v., 60 cycle AC. 3¼ lbs.

Stock No.	Mfr's Type	EACH 1-4	5-9	10-24	25-49
60 D 8566	PF-L	15.30	13.80	13.00	12.30
60 D 8567	PF-R	15.30	13.80	13.00	12.30

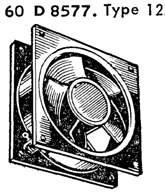
RF COOLING PANEL



Flushes standard 19″ relay racks (any height). Dissipates 1 kw of heat with 20°F rise or 2 kw with 40°F rise. Ambient temperature limit, 125°F. Noise level: 54 db. Replaceable fiberglas dust filter. 7x19x8¼″. For 115 v., 50-60 cps AC. Shpg. wt., 9½ lbs.

60 D 8576. 1 to 4.........Each 60.00
5-9.........Each 54.00 10-24.........Each 51.00
25-49.........Each 48.00 50-99.........Each 45.00
60 D 8577. Type 12783 Replacement Filters. Pkg. of 6 for.......8.75

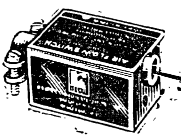
SPARTAN® 110-CFM FAN



Military version of Muffin Fan. Delivers 110 cfm; 5-blade propeller. Size: 4¹¹⁄₁₆″ sq. x 1½″ deep. Reversible induction motor; lubricated for life at max. ambient of 100°C. Double-shielded stainless steel ball bearings. Through-hole mtg. Meets MIL specs for ground and shipboard use. 115 v. AC, 50-60 cps, single-phase. Choice of terminal block (Type ST682YS) or 12″ leads (Type SL682YS). 1¼ lbs.

60 D 8784. SL682YS. 12″ leads. 1-4.........Each 39.90
5-9.........Each 35.70 10-24.........Each 33.50
25-49.........Each 29.80 50-99.........Each 28.15
60 D 6876. TYPE ST682YS. Terminal Block. 1-4.........Each 42.55
5-9.........Each 38.10 10-24.........Each 35.70
25-49.........Each 31.75 50-99.........Each 29.95

MODEL 2A AIRFLOW INTERLOCK SWITCH WITH VANE



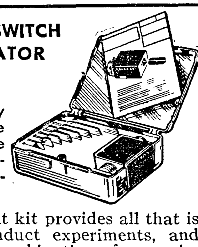
SPDT switch that interlocks operation of your equipment with velocity of air stream in the fan air-duct. When the velocity falls below required value, air vane opens switch, shutting off the equipment. As velocity reaches required value, air vane closes switch, turning equipment on. Single screw mounting. Available with 8 different stainless-steel vanes (one vane supplied per switch). Rating: 5 amps at 250 volts AC. *Vane Type Number indicates maximum feet per minute of air flow increase. Av. wt., 14 oz.

Stock No.	Vane Type*	Vane Lgth.	EACH 1-4	5-9	10-24	25-49	50-99
60 D 7915	1000	2²⁷⁄₃₂″	9.70	8.70	8.10	7.20	7.00
60 D 7916	1350	2⁷⁄₃₂″	9.70	8.70	8.10	7.20	7.00
60 D 7917	1600	1¹⁵⁄₁₆″	9.70	8.70	8.10	7.20	7.00
60 D 7918	1800	1²¹⁄₃₂″	9.70	8.70	8.10	7.20	7.00
60 D 7919	2000	1⁷⁄₁₆″	9.70	8.70	8.10	7.20	7.00
60 D 7920	2450	1⅛″	9.70	8.70	8.10	7.20	7.00
60 D 7924	3000	¹⁵⁄₁₆″	9.70	8.70	8.10	7.20	7.00
60 D 7981	4000	¾″	9.70	8.70	8.10	7.20	7.00

ADDITIONAL VANES

Stock No.	Vane Type*	Vane Length	EACH
60 D 8601	1000	2²⁷⁄₃₂″	1.25
60 D 8602	1350	2⁷⁄₃₂″	1.25
60 D 8603	1600	1¹⁵⁄₁₆″	1.25
60 D 8604	1800	1²¹⁄₃₂″	1.25
60 D 8605	2000	1⁷⁄₁₆″	1.25
60 D 8606	2450	1⅛″	1.25
60 D 8607	3000	¹⁵⁄₁₆″	1.25
60 D 8608	4000	¾″	1.25

INTERLOCK SWITCH DETERMINATOR KIT

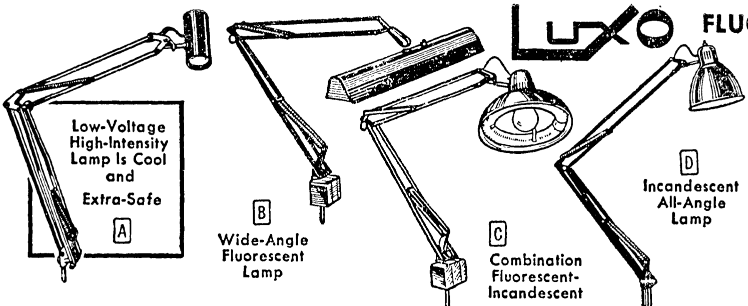


The Sure Way To Determine Correct Vane Size and Sensitivity for any Application.

This convenient kit provides all that is needed to conduct experiments, and find the best combination of vane size and sensitivity for a given application. Consists of a Model 2A Airflow Interlock Switch, plus a complete set of 8 actuating vanes (as listed in table at left). By interchanging vanes on the switch, you determine which is correct. Simple snap-on procedure. In plastic box.

60 D 8609. Wt., ½ lb. 1-4..Each 20.00
5-9....Each 19.00 10-24...Each 18.00
25-49..Each 17.00 50-99...Each 16.00

LUXO FLUORESCENT AND INCANDESCENT LAMPS



A MODEL LVT-1 12-VOLT HIGH-INTENSITY LAMP. Gives concentrated glare-free light with low heat. Built-in transformer steps down voltage to 12 volts—safe near conductive liquids, safe for machine operators limited to lamps below 24 volts. 45″ total reach. 5″ shade. U.L. Listed. With bulb. Less mounting bracket. For 110-120 v., 60 cycle AC. Shpg. wt., 7 lbs.
26 D 3165 X. 1-2 Ea. 27.95 3-Up Ea. 24.95

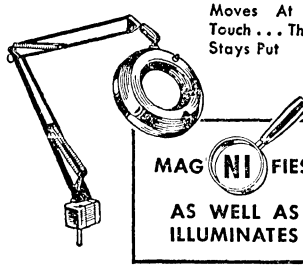
B MODEL FL-1 FLUORESCENT LAMP. Sturdy 2-tube lamp for office, drafting room or home. Adjusts with slight touch, spring-balanced arms stay-put. Full 45″ reach. Swivels 360°. Gray finish. 6-ft. cord. With two fluorescent tubes. Less mtg. bracket. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 8 lbs.
26 D 3166 X. 1-2 Ea. 25.95 3-Up Ea. 23.57

C MODEL LC-1 COMBINATION LAMP. Features circular fluorescent tube plus incandescent bulb. Fluorescent and incandescent lights can be used individually or together. 45″ reach; sweeps 360°. Gray finish. U.L. Listed. With fluorescent tube. Less bracket. See brackets below. For 110-120 volts, 60 cycle AC. Shpg. wt., 7 lbs.
26 D 3167 X. 1-2..........Each 25.95
3-Up..........Each 23.92

D MODEL L-1 INCANDESCENT LAMP. Adjusts with slight touch, then stays put. 45″ reach; swivels 360°. Vented shade. Dove gray. U.L. Listed. Uses standard incandescent bulbs. Less bulb and mounting bracket (below). For 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.
26 D 3168 X. 1-2..........Each 16.50
3-Up..........Each 14.74

LFM-1 MAGNIFIER LAMP

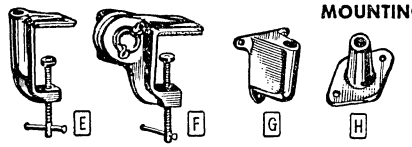
Moves At A Touch . . . Then Stays Put



MAG NI FIES AS WELL AS ILLUMINATES

Fluorescent lamp with distortion-free 5″ magnifier. Ideal for miniature component assembly, inspection, reading fine print. Spring-balanced 18″ arms have 45″ total reach, sweep 360°. 3-diopter, bi-convex precision ground lens. Gray finish. U.L. Listed. With 6-ft. cord and fluorescent tube. Less mtg. bracket. For 110-120 v., 60 cycle AC. Shpg. wt., 8 lbs.
26 D 3169 X. 1-2..........Each 33.95
3-Up..........Each 31.25

MOUNTING BRACKETS FOR ALL LAMPS ABOVE



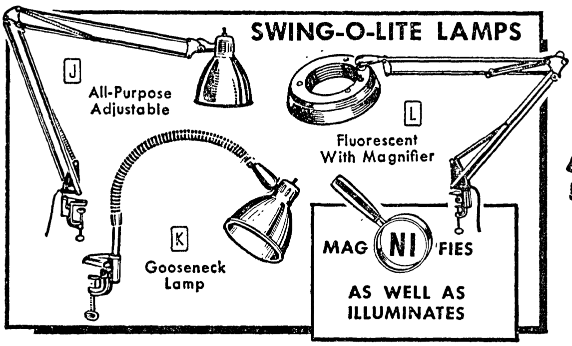
E Model A. Clamps to flat surface, as table or desk.
26 D 2992. Wt., 1½ lbs..........1.68

F Model F. Clamps to slanted surface, as edge of drafting board.
26 D 2995. Wt., 1½ lbs..........2.62

G Model B. Screws to vertical surface, wall, cabinet or partition.
26 D 2993. Wt., 1½ lbs..........1.68

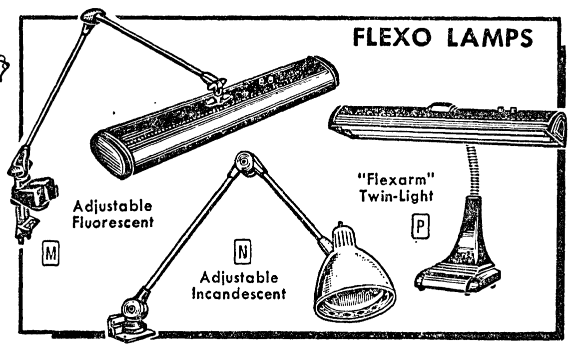
H Model C. Screws to top of level surface as table or desk.
26 D 2994. Wt., 1½ lbs..........1.68

SWING-O-LITE LAMPS



MAG NI FIES AS WELL AS ILLUMINATES

FLEXO LAMPS



J MODEL BB45C ALL-PURPOSE LAMP. Low-cost lamp, perfect for the service bench, desk, workshop, etc. Raises, lowers, and turns at the slightest pressure of your hand. Spring-controlled for proper flexibility and steady positioning. Arms extend to 45″ for full work coverage. Shade is vented to permit rapid heat dissipation. Has "C" mounting clamp. Gray finish. Less incandescent bulb. U.L. Listed components. For 110-120 volts, AC or DC. Shpg. wt., 5 lbs.
26 D 3173 X. 1-2..........Each 11.95
3-Up..........Each 10.50

K GOOSENECK LAMP. Extreme flexibility lets you put light where it does the most good. Lamp shade rotates on joint to direct light. Gooseneck extends over 30″ circle. Utilizes 60 to 100-watt bulb. All-metal construction. On-Off switch on top of shade. Shade is vented. Finished in dove-gray baked enamel. With "C"-clamp mounting bracket for easy installation. Less bulb; uses standard incandescent type. U.L. Listed components. For 110-120 volts, AC/DC. Shpg. wt., 5 lbs.
26 D 3174 X..........Each 6.95
3-Up..........Each 6.25

L MODEL BBM-9 FLUORESCENT MAGNIFIER LAMP. Provides distortion-free magnification and cool fluorescent light. Large 5″ lens with 13″ focus. Arms extend to 45″. Spring-controlled and counter-balanced for easy positioning. Durable, all-metal construction. Has "C" mounting clamp. Finished in gray. With fluorescent tube. U.L. Listed components. For 110-120 volts, 60 cycle AC. 10 lbs.
26 D 3175 U. 1-2..........Each 26.95
3-Up..........Each 24.25

M MODEL 4303 ALL-PURPOSE FLUORESCENT LAMP. Head tilts vertically 180° and turns 300° on axis. Upper elbow swings 160° vertically; lower swings 110° vertically. Extends to 36″. Spring-controlled swivel joints for raising or lowering with a slight touch of the finger. Once set, stays in position. 2-bolt clamp base for surfaces to 3″ thick. Can be screw-mounted. Handy pushbutton on and off switches. Attractive baked-on bronze finish. With fluorescent tubes. U.L. Listed components. For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.
26 D 3170 X. 1-2..........Each 17.25
3-Up..........Each 16.49

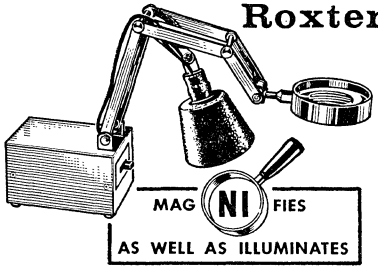
N MODEL 5600 "COOL-SHADE" LAMP. Vented shade for cool handling. Swivels at base, shade and each joint to any position. Spring-controlled. Extends 42″. On-off switch on shade. Shade dia., 5½″; 7″ deep. Universal base for clamping or screw-mounting, vertically or horizontally. Gray. Less bulb; uses std. incandescent. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 3½ lbs.
26 D 3171 X. 1-2..........Each 9.79
3-Up..........Each 9.19

P MODEL 4444 "FLEXARM" TWIN-LIGHT. Two-light adjustable fluorescent lamp. Adjusts in height from 8″ to 14″. Has heavy-gauge steel shade, 2⅛x4½x18″. Pushbutton on-off switch. Sturdy, metal base, 5¼x8″. Handsome bronze finish. Rubber feet prevent marring desk. With tubes. U.L. Listed. For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.
26 D 3172 X. 1-2..........Each 12.50
3-Up..........Each 11.50

Miniature High-Intensity Lamps

Roxter GLARE-FREE LIGHT RIGHT WHERE YOU WANT IT

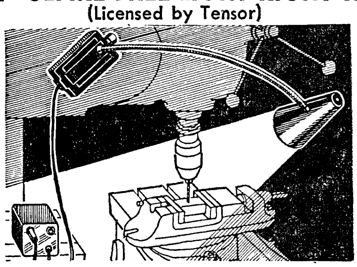
(Licensed by Tensor)



HIGH-INTENSITY LAMP WITH MAGNIFIER ATTACHED

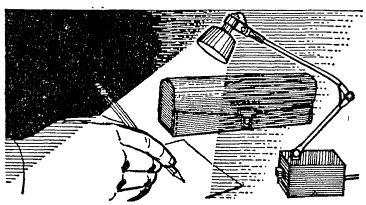
$17.95
- Hi-Lo Switch
- 2X Magnifier
- With 2 Extra Bulbs

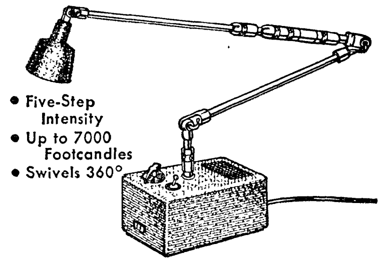
MODEL 7175. Concentrated glare-free light, almost the equivalent of daylight. Features 2X magnifier with 7″ focal length for use in close detail work. Magnifier arm swivels vertically and magnifier rotates on its axis. Versatile linkage permits independent freedom of movement for lamp head and magnifier. Hi-Lo switch for choice of 500 or 250 footcandles, 250 at normal working distances. Magnifier can be swung out of the way for using lamp alone. Reflector swivels vertically and arm extends to 12″. Friction joints on arm permit infinite number of positions. Size, 2½x2½x10″ folded. All metal construction, nylon feet. With three 12-volt #1133 bulbs. Built-in step-down transformer. For 110-120 v., 60 cycle AC.
26 D 1810 X. Wt., 3 lbs........... 17.95
26 D 3149. Extra Bulbs. 3 oz..... Pkg. 2/.49



NEW! MAGNET-BASE UTILITY LAMP

MODEL 6480. Magnetized base mounts directly on machines, etc. 12″ chromed gooseneck adjusts to any position. 45 footcandles at 12″. All-metal, neutral finish. Separate step-down transformer has on-off switch, pilot light; may be left at AC outlet. 5-ft. cord between lamp, transformer. With #93 bulb. For 105-130 v., 60 cycle AC.
26 D 3196. Shpg. wt., 3 lbs.......... 12.95
26 D 3147. Extra Bulbs. 2 oz..... Pkg. 2/.49





NEW! PROFESSIONAL WORK LAMP

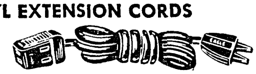
MODEL 5900. Offers the ultimate in intensity, color temperature and mechanical positioning. Five intensities—up to 7000 footcandles. Plug-in lamp arm swivels 360° vertically and horizontally. AC convenience outlet on base. All-metal with neutral wrinkle finish; nylon feet. With three #1133 12-volt bulbs. Built-in step-down transformer. For 110-120 v., 60 cycle AC.
26 D 3197. Shpg. wt., 3 lbs......... 29.95

NEW! SUBMINIATURE HIGH-INTENSITY LAMP

MODEL 5979. Our smallest lamp. For use where space is extremely limited. Gives 80 fc. intensity at 6″; up to 2000 fc. when used with microscopes. Arm and reflector each swivel 180°; arm extends 10″. Only 6½x2x3½″, folded. Weighted magnet-base, three #55 12-v. bulbs. Built in step-down transformer. For 105-130 v., 60 cycle AC.
26 D 3198. Shpg. wt., 2 lbs.......... 8.95

RUGGED ALL-VINYL EXTENSION CORDS

Durable all-vinyl extension cords resist abrasion and the effects of grease, oil and acid. Extensions consist of three-way outlet, plug and two-conductor, 18-gauge wire. U.L. Listed. Shpg. wt., 8 oz. for 9-ft. cords; 4 oz. for 6-ft. cords.

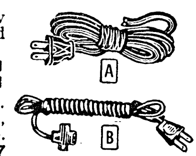


Stock No.	Ft.	Color	EACH
26 D 2232	9	Brown	.41
26 D 2233	9	Ivory	.43
26 D 2230	6	Brown	.33
26 D 2231	6	Ivory	.36

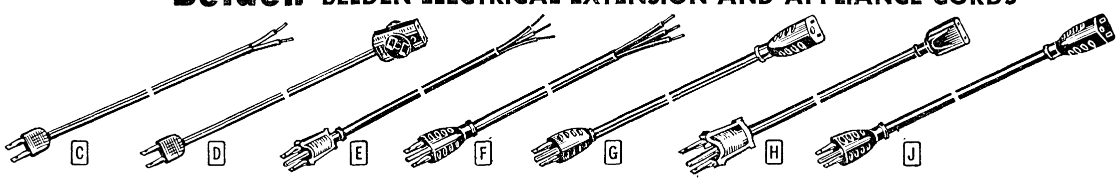
REPLACEMENT AND CHEATER CORDS

[A] 6-FT. REPLACEMENT CORD. Extremely tough; plastic insulated. Has molded plug on one end; other end stripped. 5 oz.
26 D 2550. Brown Cord.............. .21
26 D 2551. Ivory Cord.............. .21

[B] TYPE 8895 TV AC POWER CORD. 6-ft. "cheater" cord has plug, connector, two-cond., 18-gauge wire. Brown vinyl. 1 lb.
26 D 1944......................... .37



Belden BELDEN ELECTRICAL EXTENSION AND APPLIANCE CORDS



2-CONDUCTOR VINYL LINE CORDS

17106, 17109 for lamps, radios, and small appliances. Molded plug at one end; other end is stripped. Type 17156 is 3-way cube tap cord. All are brown color. Letters in Type No. indicate cordage. *Gauge. All are U.L. Listed. Av. shpg. wt., ¼ lb.

Stock No.	Mfr's Type	Fig.	Ft.	*	EACH 1-9	EACH 10-Up
26 D 2854	17106-SPT	C	6	18	.31	.29
26 D 2855	17109-SPT	C	9	18	.39	.36
26 D 2856	17156-SPT	D	6	18	.41	.37

2-CONDUCTOR EXTENSION CORDS

(Not illus.) Quality cords designed for heavy-duty applications. Strong, highly flexible 2-wire cords feature molded vinyl plugs and plastic connectors. Type 17270C is covered with gray rubber; Type 17361S with black rubber. Both types are U.L. Listed. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Ft.	Gauge	EACH
26 D 1931	17270C	20	SV 18	1.23
26 D 1932	17361S	10	SJ 16	.96

3-CONDUCTOR CORDS

Types 17236, 17238 and 17237 are for small tools, business machines, instruments. Others for sanders, grinders, saws, polishers requiring grounding. *Gauge. Black except, †gray. Letters in Type No. indicate type of cordage. U.L. Listed. Av. shpg. wt., ½ lb.

Stock No.	Mfr's Type	Fig.	Ft	*	EACH 1-9	EACH 10-Up
26 D 2872	17236-SV	E	6	18	.69	.63
26 D 2873	17238-SV	E	8	18	.78	.72
26 D 2874	†17237-SVT	E	6	18	.61	.56
26 D 1930	17408-SJ	F	8	18	.85	.77
26 D 2875	†17407-SJT	F	8	18	.76	.70
26 D 2876	17409-SJO	F	8	18	.76	.70
26 D 2877	17419-SJ	F	9	16	1.12	1.02

3-CONDUCTOR POWER CORDS

For electrical equipment having a built-in receptacle with blades and grounding pin. Can also be used as extension cord with devices requiring ground. Rubber cover, vinyl connectors. U.L. Listed. 2½ lbs.

26 D 2895	17460	G	10	18	1.17	1.06
26 D 2896	17461	G	10	16	1.32	1.20

[H] TYPE 17258 3-CONDUCTOR PROJECTOR AND BUSINESS MACHINE POWER CORD

For Revere and Eastman Kodak projectors and Friden, Victor, Hewlett-Packard business machines. Fits Switchcraft AC3 and AC3G connectors. 8-ft. length. Gray. Gauge, 18SVT. Vinyl. U.L. Listed. 1 lb.
26 D 2897. 1-9, Ea.... .94 10-Up, Ea.... .86

[J] HEAVY-DUTY EXTENSION CORDS

Have molded 3-prong plug at one end and molded 3-prong receptacle at other end. 3-cond. Yellow vinyl. U.L. Listed. *Gauge.

Stock No.	Mfr's Type	Ft.	*	Lbs.	EACH 1-9	EACH 10-Up
26 D 2181	17491	25	18	2½	2.09	1.90
26 D 2182 X	17492	50	18	3½	3.84	3.50
26 D 2183 X	17493	100	18	9	6.90	6.29
26 D 2184	17494	25	16	2	2.43	2.22
26 D 2185 X	17495	50	16	4½	4.78	4.36
26 D 2186 X	17497	100	16	7	8.55	7.80
26 D 2187	17694	25	14	5½	5.07	4.62
26 D 2188 X	17695	50	14	10	8.94	8.15
26 D 2189 X	17697	100	14	19½	16.54	15.09

Outlet Boxes, Lamps and Electrical Accessories

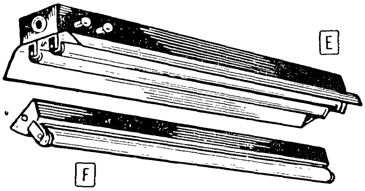
CBC MULTIPLE-OUTLET CONVENIENCE BOXES

- Unique Built-In Circuit Breakers
- All Boxes Have On-Off Switches

Outlet boxes for extending electrical power to bench, lab, etc. Have built-in circuit breakers, except *fused, 10-ft. line cords, and on-off switches. Types MO-GD-CB (Fig. A) and MO-GD (Fig. B) have pilot light and 3-wire, "U" grounded outlets with 3-wire plug. Types MO-CB and MO are same as above, except 2-wire outlets and plug. Types SS-CB and SS (Fig. C) have outlets that are individually switched. Type MO-3 (Fig. D) has one switch for outlets. All are 13x2¼x1½", except MO-3—5x2x1¼". Brown hammertone metal cases. Rated at 15 amps, 110 volts.

Stock No.	Mfr's Type	Outlets	Wt., Lbs.	EACH
26 D 2197	MO-GD-CB	6	2¾	10.29
26 D 2198	MO-CB	6	2¼	8.57
26 D 2199	SS-CB	4	2¼	8.57
26 D 1948	MO-GD*	6	2¾	7.95
26 D 1949	MO*	6	2¼	6.25
26 D 1950	SS*	4	2¼	6.25
26 D 1951	MO-3*	3	1½	3.75

FLUORESCENT FIXTURES

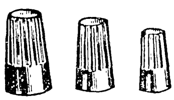


[E] MODEL 240 HRS. High-intensity rapid-start lighting. Uses two 48" T-12, 40-watt tubes. White enamel for maximum reflection. Power factor corrected to reduce inductive effects. Can be hung on chains, flush-mounted separately, or mounted end-to-end in rows. 48½x11½x5⁹⁄₁₆". With reflector, ballasts, tubes. U.L. Listed. For 110-120 v., 60 cycle AC. 17 lbs.
26 D 2546 X. . Ea. 12.95 3-Up . . Ea. 11.95

[F] STRIP-LIGHT FIXTURES. Can be mounted flush or suspended from walls or ceilings. Single-lamp type. Normal power factor. Each is supplied with starter and lamp. Baked enamel finish. U.L. Listed. For 110-120 volts, 60 cycle AC.

Stock No.	Mfr's Type	Watt	Lgth.	Wt., Lbs.	EACH 1-2	EACH 3-Up
26 D 2547 X	S-120	20	24"	4	3.69	3.59
26 D 2548 X	S-140	40	48"	6	5.49	5.25

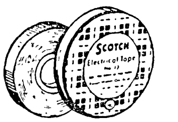
SOLDERLESS WIRE-CONNECTORS



Solderless phenolic wire connectors. Simply strip two wire ends; push into connector, and screw cap down—wires are firmly interconnected. U.L. Listed. Av. shpg. wt., 1¼ lbs. Per Pkg. of 12.

Stock No.	Wire Size	PKG. OF 12
26 D 3701	16-18	.15
26 D 3702	14-18	.19
26 D 3703	12-18	.28

SCOTCH BRAND TAPE



Scotch Plastic Tape Is Highly Resistant To Chemicals, Abrasion, Oil. Provides Dielectric Rated Up to 10,000 Volts.

TYPE 33 PLASTIC TAPE

Forms compact, highly resistant insulated wrappings. In 2 sizes; both are .007" thick, rated at 10,000 v. Av. shpg. wt., 6 oz.

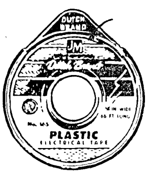
26 D 3613. ¾"x20'. 1-11 . . . . . . Per Roll .47
12-Up . . . . Per Roll .44

26 D 2512. ¾"x66'. 1-11 . . . . . . Per Roll 1.28
12-Up . . . . Per Roll 1.21

TYPE 88 PLASTIC TAPE

Highly resistant, all-weather, 8.5-mil tape for easy splice wrapping in any temperature. ¾"x66'. Shpg. wt., 6 oz.
26 D 3700. 1-11 . . . . Per Roll 1.49
12-Up . . . . Per Roll 1.41

DUTCH BRAND TAPE



NO. 120-D FRICTION TAPE. Popular standard-width tapes. With convenient plastic dispensers for fast, one-motion "tape and tear" action. Tape has tough fabric base; resists abrasion and weathering. Makes tight, insulated wrappings. Av. shpg. wt., 7 oz.

26 D 2486. ¾"x30'. 1-14 . . . . Each .27
15-49 . . . . Each .26 50-Up . . . . Each .25

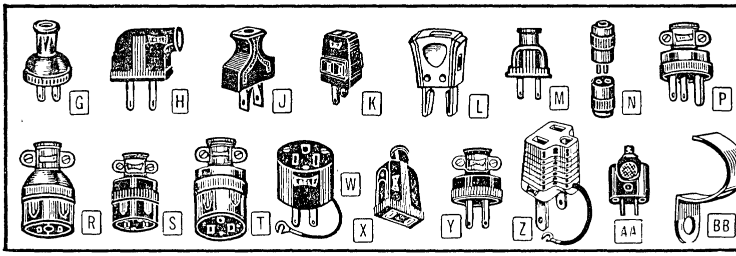
26 D 3612. ¾"x68' . . . . Each .52
15-49 . . . . Each .50 50-UP . . . . Each .48

26 D 3620. ⅜"x60'. 1-14 . . . . Each .25
15-49 . . . . Each .24 50-Up . . . . Each .23

NO. 130 PLASTIC ELECTRICAL TAPE. Black vinyl. Stretches to cling tightly to irregular surfaces. ¾" width is .007" thick, insulation rated 7000 volts, ½ width, .010"; 10,000 v. Supplied in plastic dispensers. Av. shpg. wt., 6 oz.

26 D 3614. ¾"x44'. 1-14 . . . . . Each .86
15-49 . . . . Each .81 50-Up . . . . Each .76

26 D 3623. ½"x108'. 1-14 . . . . . Each 1.75
15-49 . . . . Each 1.67 50-Up . . . . . . Each 1.56



HANDY ELECTRICAL ACCESSORIES, ALL U.L. LISTED

[G] RUBBER HANDLE PLUG. Approved for 2-wire 15 amp use. Use with Fig. R for extension cords. 2 per pkg. 8 oz.
26 D 3721. 1-9 Pkgs. . . . . Ea. .25
10-Up Pkgs. . . . . Ea. .23

[H] FLAT RUBBER SIDE-OUTLET PLUG. Prongs molded into vinyl; insulated binding screws. 15 amps @ 125 v. 2 per pkg. 4 oz.
26 D 3722. 1-9 Pkgs. . . . . Ea. .33
10-Up Pkgs. . . . . Ea. .29

[J] BAKELITE PLUG. With finger-grip. Cap size, 1⅛x1⁷⁄₁₆x1⁹⁄₁₆". Screw terminals. 15 amps. Brown. 2 per Pkg. 8 oz.
26 D 3723. 1-9 Pkgs. . . . . Ea. .23
10-Up Pkgs. Ea. .20

[K] VINYL CUBE TAP. Brass spring prongs. 3-way outlet. 15 amp @ 125 v. 8 oz.
26 D 3724. 1-9. . Ea. .22 10-Up. . . . Ea. .19

[L] JIFFY PUSH-PULL PLUG. No wire striping. Push POSJ cable through hole in cap. Pull for positive connection. 6 oz.
26 D 2542. 1-9. . Ea. .09 10-Up . . . . . Ea. .08

[M] FLAT RUBBER PLUG. Molded cap. Easily disassembled. Screw terminal wiring. Rated 15 amps at 125 v.; 10 amps at 250 v. 2 per pkg. Shpg. wt., 6 oz.
26 D 3725. 1-9 Pkgs. . . . . Ea. .29
10-Up Pkgs. Ea. .26

[N] MORSE MIDGET CORD CONNECTOR. 2-contact, pull-apart type for AC-DC line cords, relays, etc. Plug and receptacle. 1⅞x⁹⁄₁₆". Shpg. wt., 2 oz.
26 D 3626. 1-9. . Ea. .61 10-Up. . . Ea. .56

[P] PARALLEL GROUND PLUG. Rubber handle. "U" ground. 3-wire. Two fit standard duplex receptacle. 2 oz.
26 D 3717. 1-9. . Ea. .45 10-Up . . Ea. .40

[R] RUBBER LINE CORD CONNECTOR. Dia., 1¼" 15 amps @ 125 v. Cable clamp. 3 oz.
26 D 3603. 1-9. . Ea. .35 10-Up. . . . Ea. .31

[S] LARGE PARALLEL-SLOTS CONNECTOR Rubber handle cap. Bronze contacts. Cable clamp. 15 amps @ 125 v. 3 oz.
26 D 3726. 1-9. . Ea. .38 10-Up. . . . Ea. .33

[T] PARALLEL GROUND RUBBER CONNECTOR. 3 bronze contacts. 15 amps @ 125 v. Cord hole, 3/5". Cable clamp. 3 oz.
26 D 3718. 1-9. . Ea. .89 10-Up. . . . Ea. .80

[W] BAKELITE PARALLEL GROUND ADAPTER. Adapts 3-prong plugs for use in standard 2-prong AC outlets. Double-wipe contacts 15 amps @ 125 v. 3¼" lead with "C" lug. Shpg. wt., 3 oz.
26 D 3669. 1-9 . Ea. .28 10-Up . . . . Ea. .24

[X] FLAT RUBBER CORD CONNECTOR. Matches Figs. H, M. Double-wipe contacts molded in vinyl. Insulated screws. 3 oz.
26 D 3727. 1-9. . Ea. .38 10-Up . . Ea. .33

[Y] LARGE RUBBER HANDLE PLUG. Cord hole dia. .600". With cord clamps. 3 oz.
26 D 3728. 1-9. . Ea. .23 10-Up . . . Ea. .20

[Z] VINYL PARALLEL GROUND ADAPTER. Same function as Fig. W. Lead with "C" lug. 15 amps @ 125 v. Wt., 3 oz.
26 D 3729. 1-9. . Ea. .23 10-Up. . . Ea. .20

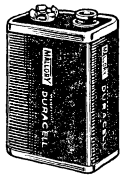
[AA] FUSED PLUG. Cylindrical receptacles hold two 10 amp glass fuses. Interchangeable with any standard AC plug. Less 3AG fuses (see Index). 3 oz.
26 D 3648. 1-9. . Ea. .37 10-Up. . . . Ea. .35

[BB] TYPE H500F G-C CABLE CLAMPS. Nickel plated; have #6 mtg. hole. *25 per pkg.; † 20; ‡15. Av. wt., per pkg. 4 oz.

Stock No.	Type	Fit Cable	PER PKG. 1-9	PER PKG. 10-Up
26 D 2215	H502F*	⅛" to ³⁄₁₆"	.36	.33
26 D 2216	H503F†	³⁄₁₆ to ¼"	.36	.33
26 D 2217	Z7243‡	¼" to ½"	.36	.33
26 D 2218	H506F‡	⁵⁄₁₆" to ½"	.36	.33

Long-Lasting General-Purpose Batteries

The electronic usage is varied, may be used for test equipment, walkie-talkie and various other applications. Assure peak performance of portable radios. Offer uniform discharge voltage, exceptionally long storage period. Ideal where high reliability and long dependable life are required. Av. shpg. wt. per pkg. 4 oz.

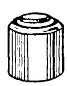


TR146X

TR133

ZM 9

RM42



RM640

RM625

RM 177

MN1300

Stock No.	Mallory Type	Price	Volts	Cap'y MAH	Use	Dia. x Ht., or HWD	Replaces Eveready	Replaces Burgess
18 D 5921	RMI	Pkg. of 2 for 1.04	1.4	1000	Electronic	5/8x2 1/32"	E1	HG1
18 D 5922	RM1R	Pkg. of 2 for 1.28	1.35	1000	Electronic	5/8x2 1/32"	E1N	HG1R
18 D 5923	RM1RT2	Pkg. of 2 for 1.48	1.35	1000	Electronic	5/8x2 1/32"	....	....
18 D 5924	RM3R	Pkg. of 2 for 2.10	1.35	2200	Electronic	1x2 1/32"	E3	HG3
18 D 5925	RM4R	Pkg. of 2 for 2.62	1.35	3400	Electronic	1 1/5x2 1/32"	E4	HG4R
18 D 5926	RM4RT	Pkg. of 2 for 2.72	1.35	3400	Electronic	1 1/5x2 1/32"	....	....
18 D 5927	RM4Z	Pkg. of 2 for 2.00	1.4	2400	Electronic	1 1/5x1/2"	....	....
18 D 5928	RM12	Pkg. of 2 for 1.74	1.4	3600	Electronic	5/8x1 61/64"	HG12	HG12
18 D 5929	RM12R	Pkg. of 2 for 2.10	1.35	3600	Electronic	5/8x2"	E12N	HG12R
18 D 5930	RM12RT	Pkg. of 2 for 2.20	1.35	3600	Electronic	5/8x2"	....	....
18 D 5931	RM12RT2	Pkg. of 2 for 2.30	1.35	3600	Electronic	5/8x2"	....	....
18 D 5964	RM24	Pkg. of 2 for 1.06	1.4	1000	Radio AAA	2/5x1 3/4"	....	....
18 D 5502	RM42	2.68 ea.	1.4	14000	Electronic	1 1/5x2 3/8"	E42	HG42
18 D 5687	RM42R	3.15 ea.	1.35	14000	Electronic	1 13/64x2 3/8"	E42N	HG42R
18 D 5375	RM42RT2	3.25 ea.	1.35	14000	Electronic	1 1/5x2 3/8"	....	....
18 D 5950	RM312	Pkg. of 2 for .48	1.4	36	Electronic	9/64x5/16"	E312	HG312
18 D 5965	RM400	Pkg. of 2 for .48	1.4	80	Electronic	29/64x9/64"	E400	HG400
18 D 5951	RM400R	Pkg. of 2 for .70	1.35	80	Electronic	29/64x9/64"	E400N	HG400R
18 D 5890	RM401	Pkg. of 2 for 1.00	1.4	800	Electronic	29/64x1 1/8"	E401	HG401
18 D 5967	RM401R	Pkg. of 2 for 1.20	1.35	800	Electronic	15/32x1 1/8"	E401N	HG401R
18 D 5952	RM411	Pkg. of 2 for 4.00	14.0	160	Electronic	1x1 9/32x1 27/64"	....	....
18 D 5953	RM412	Pkg. of 2 for 5.52	22.4	160	Electronic	1x1 9/32x1 31/32"	....	....
18 D 5954	RM413	Pkg. of 2 for 6.92	28.0	160	Electronic	1x1 9/32x2 1/2"	....	....
18 D 5955	RM415	Pkg. of 2 for 10.20	42.0	160	Electronic	1x1 9/32x3 1/2"	....	....
18 D 5956	RM450R	Pkg. of 2 for 1.06	1.35	350	Electronic	29/64x9/16"	E450	HG450R
18 D 5957	RM502R	Pkg. of 2 for 1.74	1.35	2400	Electronic	1/2x1 31/32"	E502	HG502R
18 D 5958	RM520	Pkg. of 2 for .34	1.4	130	Electronic	1/2x9/32"	E520	HG520
18 D 5042	RM575	Pkg. of 2 for .48	1.4	100	Radio	29/64x1/8"	....	HG575
18 D 5968	RM601R	Pkg. of 2 for 1.66	1.35	1800	Electronic	5/8x1 5/32"	E601R	HG601R
18 D 5969	RM625	Pkg. of 2 for .84	1.35	250	Electronic	5/8x1/4"	E625	HG625
18 D 5961	RM625R	Pkg. of 2 for 1.06	1.35	250	Electronic	5/8x1/4"	E625	HG625R
18 D 5962	RM625RT	Pkg. of 2 for 1.16	1.35	250	Electronic	39/64x15/64"	....	....
18 D 5959	RM625RT2	Pkg. of 2 for 1.26	1.35	250	Electronic	39/64x15/64"	....	....
18 D 5897	RM630	Pkg. of 2 for .84	1.4	350	Electronic	5/8x7/32"	E630	HG630
18 D 5892	RM640	Pkg. of 2 for .84	1.4	500	Electronic	5/8x7/16"	E640	HG640
18 D 5971	RM640R	Pkg. of 2 for 1.06	1.35	500	Electronic	5/8x7/16"	E640N	HG640R
18 D 5960	RM640RT2	Pkg. of 2 for 1.26	1.35	500	Electronic	7/16x5/8"	....	....
18 D 5899	RM675	Pkg. of 6 for 1.92	1.4	160	Electronic	29/64x13/64"	E675	HG675
18 D 5893	TR113R	Pkg. of 2 for 3.44	4.05	250	Electronic	21/32x53/64"	E113	H113R
18 D 5895	TR114RT2	Pkg. of 2 for 3.90	5.4	250	Electronic	1 1/16x3/16"	....	....
18 D 5972	TR115	Pkg. of 2 for 4.12	7	350	Dictating	21/32x53/64"	E115	....
18 D 5896	TR115R	Pkg. of 2 for 4.12	6.75	250	Electronic	21/32x1 9/32"	E115N	....
18 D 5891	TR126	Pkg. of 2 for 2.62	8.4	600	Radio	3/4x2"	E126	H126
18 D 5973	TR132	Pkg. of 2 for 2.10	2.8	1000	Paging	21/32x1 5/16"	E132	H132
18 D 5898	TR132R	Pkg. of 2 for 2.34	2.7	1000	Electronic	21/32x1 5/16"	E132N	H132R
18 D 5883	TR133	Pkg. of 2 for 2.34	4.2	1000	Radio, Pag.	21/32x2"	E133	H133
18 D 5932	TR133R	Pkg. of 2 for 2.70	4.05	1000	Radio, Pag.	2x21/32"	E133N	H133R
18 D 5933	TR134R	Pkg. of 2 for 3.44	5.4	1000	Electronic	21/32x2 9/64"	E134N	H134R
18 D 5934	TR135R	Pkg. of 2 for 4.00	6.75	1000	Electronic	21/32x3 1/4"	E135N	H135R
18 D 5978	TR136	Pkg. of 2 for 4.54	8.4	1000	Electronic	21/32x3 29/32"	E136	....
18 D 5935	TR136R	Pkg. of 2 for 4.80	8.1	1000	Electronic	21/32x3 29/32"	E136N	H136R
18 D 5977	TR137	Pkg. of 2 for 5.24	9.8	1000	Electronic	21/32x4 9/16"	E137	....
18 D 5985	TR137R	Pkg. of 2 for 5.52	9.45	1000	Electronic	21/32x4 9/16"	H137R	H137R
18 D 5884	TR146X	Pkg. of 2 for 2.62	8.4	585	Radio	1x2 1/32x1 23/32"	E146	H146
18 D 5986	TR152	Pkg. of 2 for 1.74	2.8	350	Electronic	15/32x1 1/8"	E152	....
18 D 5938	TR153R	Pkg. of 2 for 2.70	4.05	350	Electronic	15/32x1 11/16"	E153N	H153R
18 D 5939	TR162R	Pkg. of 2 for 2.10	2.7	500	Electronic	23/32x29/32"	E162	H162R
18 D 5940	TR163	Pkg. of 2 for 2.34	4.2	500	TV Tuner	21/32x1 5/16"	E163	H163
18 D 5885	TR164	Pkg. of 2 for 2.62	5.6	500	Radio	21/32x1 3/4"	E164	H164
18 D 5988	TR164R	Pkg. of 2 for 3.14	5.4	500	Electronic	21/32x1 3/4"	E164N	H164R
18 D 5941	TR165	Pkg. of 2 for 3.40	7.0	500	TV Tuner	21/32x2 3/16"	E165	H165
18 D 5942	TR169	Pkg. of 2 for 7.00	12.6	500	Electronic	21/32x3 7/8"	E169	....
18 D 5886	TR175	Pkg. of 2 for 2.10	7.0	350	Radio	31/64x1 1/32"	....	....
18 D 5887	TR177	Pkg. of 2 for 2.62	9.8	160	Radio	1/2x1 3/4"	E177	H177
18 D 5888	TR233	Pkg. of 2 for 4.54	4.2	2200	Radio	1 1/64x1 31/32"	E233	H233
18 D 5989	TR233R	Pkg. of 2 for 5.24	4.05	2200	Electronic	1 1/32x1 15/16"	E233N	....
18 D 5360	TR234R	3.15 ea.	5.6	2200	Electronic	1 1/64x2 19/32"	E234N	....
18 D 5943	TR235R	Pkg. of 2 for 7.34	6.75	2200	Electronic	1 1/64x3 1/4"	E235N	....
18 D 5991	TR236R	Pkg. of 2 for 8.30	8.1	2200	Electronic	1 1/64x3 7/32"	E236N	....
18 D 5889	†TR286	Pkg. of 2 for 2.70	8.4	750	Radio	1x1 15/16"	E286	....
18 D 5944	TR289	Pkg. of 2 for 4.54	12.6	750	CB Radio	1x2 25/64"	E289	....
18 D 5881	ZM9	Pkg. of 2 for 1.28	1.4	2400	Radio	1/2x1 31/32"	E9	HG9

MERCURY POWER-PAK BATTERIES (Av. shpg. wt., 6 oz.)

Stock No.	Mallory Type	Price	Volts	Cap'y MAH	Use	Dia. x Ht., or HWD	Replaces Eveready	Replaces Burgess
18 D 5323	302250	3.15 ea.	9.45	250	Rad'tn eqpt.	11/16x1 7/8"	E302250	....
18 D 5946	302351	6.30 ea.	5.4	2200	Fire alarm	1 1/32x2 19/32"	E302351	302351
18 D 5324	302358	4.10 ea.	10.8	250	Rad'tn eqpt.	11/16x2 1/4"	E302358	....
18 D 5325	302362	5.60 ea.	16.2	250	Rad'tn eqpt.	11/16x3 1/4"	E302362	....
18 D 5350	302497	8.75 ea.	6.75	2200	Test eqpt.	1 1/32x3 11/16"	E302497	....
18 D 5948	302642	5.20 ea.	7.0	2400	Fire alarm	1 1/4x2 21/32"	E302642	302642
18 D 5035	302651	4.80 ea.	1.35	14000	Electronic	1 1/4x2 3/8"	E302651	HG302651
18 D 5036	302904	6.75 ea.	5.4	3400	Meter	1 9/32x2 29/32"	E302904	HG302904
18 D 5037	302905	8.05 ea.	6.75	3400	Test eqpt.	1 9/32x3 17/32"	E302905	HG302905
18 D 5038	302907	10.50 ea.	9.45	3400	Electronic	1 9/32x4 27/32"	E302907	HG302907
18 D 5039	302908	11.50 ea.	10.8	3400	Rad'tn eqpt.	1 9/32x5 1/2"	E302908	HG302908

Allied's Constant Inventory Turnover Assures You of Fresh Batteries

Eveready Batteries and Lanterns

TRANSISTOR BATTERIES

- Designed to Provide Distortion Free Tone
- Meet Long-Life Power Needs of Transistor Radios
- Ideal for Use In All Transistor Applications

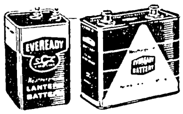
NEW IMPROVED TYPE 216

Engineered for today's modern equipment. Feature long life and steady full charge power. Batteries below fit most transistor radios, flashlights, etc. *indicates flat contacts (206 has recessed negative); †regular snap type contacts; ‡miniature snap type contacts. No. 222 is a premium long-life battery, similar to 216, but higher quality.

Stock No.	Mfr's Type	Volts	Size	Replaces Burgess	PRICE
18 D 5150	206BP*	9	2x¾″	L6	.63 ea.
18 D 5151	216BP‡	9	1 1/32x2 1/32x2 9/32″	2U6	.49 ea.
18 D 5152	222BP‡	9	1 1/32x2 1/32x2 9/32″	2MN6	.65 ea.
18 D 5153	226BP†	9	1x1 15/16″	P6	.63 ea.
18 D 5154	246‡	9	1 13/32x1 1/32x2¾″	2N6	1.30 ea.
18 D 5155	266†	9	1 13/16x1 13/16x2 7/16″	M6	1.36 ea.
18 D 5156	276†	9	2 9/16x2 1/32x3 5/32″	D6	1.36 ea.
18 D 5157	333BP*	4½	2 1/32x1 31/32″	....	.63 ea.
18 D 5158	1015*	1½	9/16x1 31/32″	930	4/.64
18 D 5159	1035BP*	1½	1 1/32x1 15/16″	130	2/.39
18 D 5160	1050BP*	1½	1 11/32x2 13/32″	230	2/.39

LANTERN BATTERIES

For use with railroad type lanterns. Type 509 has positive coilspring contacts—a favorite of railroad men. Type 510F has Fahnstock clip terminals; type 510S has screw terminals. Type 531 has insulated screw terminals. All are 6 volts, except type 732, 12 volts.



Stock No.	Mfr's Type	Size	Wt., Lbs.	Replaces		PRICE
				Burgess	Ray-O-Vac	
18 D 5084	509	2⅝x2⅝x4⅜″	1½	F4M	941	.92 ea.
18 D 5085	510S	2⅝x2⅝x4″	1½	F4BP	941SC	.92 ea.
18 D 5086	510F	2⅝x2⅝x4½″	1¼	F4SC	941C	.92 ea.
18 D 5087	731	5⅜x2⅞x4 15/16″	3¼	TW1	918	1.96 ea.
18 D 5088	732	5⅜x2⅞x4 15/16″	3¼	TW2	....	1.96 ea.

PHOTO-FLASH BATTERIES

High amperage—positive flash. *Cylindrical cell. †For electronic repeating flash. #For B-C units. §For slave units.

Stock No.	Mfr's Type	Volts	Size	Replaces Burgess	PRICE
18 D 5608	#411	15	1x39/64x1 7/16″	U10	.81 ea.
18 D 5610	#413	30	1x39/64x2 17/32″	U20	1.23 ea.
18 D 5604	†457	67½	2 11/16x1 5/16x2¼″	K45	2.70 ea.
18 D 5272	460K	45	1 57/64x1⅜x2 11/32″	47P	1.67 ea.
18 D 5614	§467	67½	2¾x1 11/32x3 43/64″	XX45	2.70 ea.
18 D 5605	†482	45	3 9/16x1¾x5½″	M30	2.97 ea.
18 D 5613	†489	225	4¼x2⅝x4¼″	XX150	6.96 ea.
18 D 5607	†490	90	3 23/32x1 9/32x3 11/16″	V60	3.15 ea.
18 D 5609	†491	240	2 9/16x1 5/16x4 13/32″	U160	5.56 ea.
18 D 5606	†492	2¼	3 9/16x2¾x4¾″	N150	7.65 ea.
18 D 5611	#493	300	2¾x2 9/32x3⅞″	U200	8.37 ea.
18 D 5612	†497	510	2 15/16x1 17/32x5 7/16″	U320	11.16 ea.
18 D 5615	#504	15	19/32x19/32x1 23/64″	Y10	.81 ea.
18 D 5616	#505	22½	19/32x19/32x1 31/32″	Y15	1.05 ea.
18 D 5603	†726	4½	3⅞x1 5/16x2 15/16″	D3	1.23 ea.
18 D 5161	812BP	1½	13/32x1¾″	....	Pkg. of 2/.27
18 D 5602	*815	1½	35/64x1 31/32″	920	Pkg. of 2/.33
18 D 5600	*835	1½	1 15/16x1″	120	Pkg. of 2/.39
18 D 5601	*850	1½	1 11/32x2 25/64″	220	.19 ea.

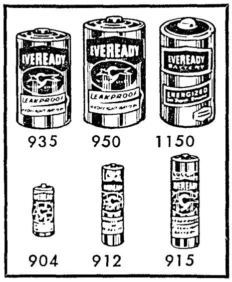
ALKALINE ENERGIZER BATTERIES

Ideal for use wherever dependable high drain, continuous service is needed; portable TV sets, flashlights, etc. Deliver higher amperage over a much longer period of time than do standard batteries. Completely sealed for safe, dependable operation in any position. Applications: E95BP—D; E93BP—C; E91BP—AA; E92—AAA. All have flat contacts, all 4 described are 1½ volts.

Stock No.	Mfr's Type	Volts	Size	Replaces		PRICE
				Mallory	Burgess	
18 D 5440	E90	1½	29/64x1⅛″	MN9100	AL-N	Pkg. of 2/.54
18 D 5425	E91BP	1½	17/32x1 31/32″	MN1500	AL-9	Pkg. of 2/.66
18 D 5438	E92	1½	13/32x1¾″	MN2400	AL-7	.33 ea.
18 D 5416	E93BP	1½	63/64x1 15/16″	MN1400	AL-1	Pkg. of 2/.79
18 D 5993	E94	1½	1 11/32x1 7/32″	....	....	.33 ea.
18 D 5415	E95BP	1½	1 21/64x2 13/32″	MN1300	AL-2	Pkg. of 2/.99
18 D 5994	E97S	1½	1 11/32x5 7/32″	....	....	.73 ea.
18 D 5995	520	6	5½x4⅝x2⅝″	....	....	3.31 ea.
18 D 5996	523	4½	.662x1.965	PX21	AL-133	.82 ea.
18 D 5997	531	4½	.622x2.29	PX19	....	.82 ea.

TOP QUALITY FLASHLIGHT BATTERIES

Carbon-zinc batteries in standard sizes for use in almost all types of flashlights. Feature strudy construction; give long, dependable service. Type 935 (size C)—for use in baby tubular flashlights; Types 950 and 1150 (size D)—for standard flashlights; Type 915 (size AA)—for standard penlights; Type 912 (size AAA) for slim penlights. Type 904, for miniature and novelty lights. All are 1½ volts. *Heavy-duty type. Av. wt. per pkg., 10 oz.



Stock No.	Mfr's Type	Size (L x Dia.)	Replaces		PRICE
			Burgess	Ray-O-Vac	
18 D 5082	904	1 11/64x7/16″	N	716	Pkg. of 6 for .48
18 D 5080	912	1¾x13/32″	7	400	Pkg. of 2 for .20
18 D 5083	915BP	1 31/32x35/64″	Z	7R	Pkg. of 2 for .27
18 D 5078	935	1 15/16x63/64″	1	1LP	Pkg. of 2 for .26
18 D 5079	950	2⅜x1 21/64″	2	2LP	Pkg. of 4 for .52
18 D 5081	1150*	2⅜x1 21/64″	210	3LP	Pkg. of 4 for .62

NICKEL-CADMIUM BATTERIES

High energy, compact, hermetically sealed nickel-cadmium batteries and cells. Long-lasting, economical power—may be recharged many times. Batteries respond equally well to a trickle charge or a quick charge. Unaffected by idle periods. All batteries below have pressure contacts, except *supplied with solder tab terminals. †10 hour discharge rate (ma.). Steel cases. All 1¼ volts except ‡6.1; §9.7; #12.2; **6¼ Application: N46—AA; N57—D.

BUTTON CELLS

Stock No.	Type No.		Size	Oz.	†	Replaces Burgess	EACH
	New	Old					
18 D 5617	B20	N22	29/64x7/32″	2	2	CD1	1.05
18 D 5618	B50	N24	39/64x15/64″	2	5	CD2	.70
18 D 5627	B100	N26	63/64x15/64″	2	10	CD8	.77
18 D 5628	B100T	N26T	63/64x¼″	2	10	CDL8*	.90
18 D 5619	B150	N28	63/64x9/32″	2	15	CD3	.80
18 D 5622	B150T	N28T	63/64x19/64″	2	15	CS3L*	.93
18 D 5623	B225	N32	63/64x11/32″	2	22.5	CD4	.83
18 D 5624	B225T	N32T	63/64x⅜″	2	22.5	CD4L*	.97
18 D 5625	B450	N36	1 5/64x19/64″	2	45	CD5	1.47
18 D 5626	B450T	N36T	1 7/10x21/64″	2	45	CD5L*	1.60

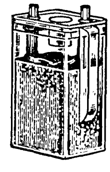
CYLINDRICAL CELLS

18 D 5630	C450T	N45	9/16x2 9/32″	2	45	CD6L*	2.10
18 D 5629	C450	N46	9/16x1 61/64″	2	45	CD6	1.93
18 D 5633	C900	N52	35/64x3 11/16″	3	90	CD9	3.17
18 D 5637	CH750T	N53T	⅞x1 33/64″	2	75	CD12	2.71
18 D 5631	C2	N56	1 19/64x2 27/64″	7	230	CD7	4.06
18 D 5632	C2T	N56T	1 19/64x2 25/32″	7	230	CD7L*	4.19
18 D 5634	CH4	N57	1 19/64x2 27/64″	2	400	CD10	5.69
18 D 5635	CH4T	N57T	1 19/64x2 9/64″	2	400	CD10L*	5.82
18 D 5162	CH1.5	N54	1 1/32x1 31/32″	2.3	150	....	4.06
18 D 5163	N63	......	2 51/64x1 23/64″	8	50	....	26.60

RECTANGULAR BATTERIES

18 D 5409	....	#Y5196	1 1/16x2 59/64″	12	15	CD27	11.00
18 D 5639	....	‡N66	1 1/16x1 31/32″	12	22	CD22	5.61
18 D 5412	....	#Y5383	1 1/16x3 19/32″	12	22	CD28	11.80
18 D 5408	....	§Y5407	1 51/64x2 37/64″	16	45	CD26	15.50
18 D 5640	....	§Y5488	1 1/16x2 21/32″	12	15	CD24	9.05
18 D 5413	....	#Y5511	1 51/64x3 7/64″	20	45	CD29	17.88
18 D 5638	....	‡Y5521	1 1/16x1 17/32″	12	15	CD21	6.03

WILLARD RECHARGEABLE BATTERIES



Type 25-2. For Portable Radios. Spillproof, rechargeable battery in lightweight polystyrene container. Supplies 2 volts for up to 21 ampere hours. Convenient plug-in terminals. Used as original equipment in G.E. Model 250 and 260 portable radios. Shipped dry. Size: 6x2½x2 5/16″. Shpg. wt., 3¼ lbs.

18 D 5851 .... Each 9.41

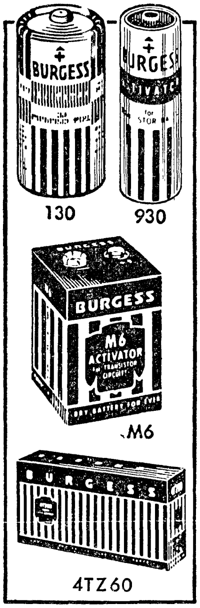
Type ER6-2B. For Photo Flash. As above, but for photo flash units. 2 v. for 6 amp-hours. Up to 350 flashes per charge. Shipped dry. 1 11/16x2⅜x4¼″. 1½ lbs.

18 D 5849 .... Each 6.39

Type ER-34-2. For Portable Radios. 2 volts for 34 ampere-hours. Has plain posts. Shipped dry. 4½x3 11/16x4½″. 5¼ lbs.

18 D 5852 .... Each 12.53

Burgess Radio and Special-Purpose Batteries



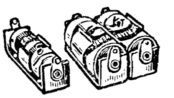
ZINC-CARBON BATTERIES FOR TRANSISTOR CIRCUITS, OTHER ELECTRONIC APPLICATIONS

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces Eveready	Replaces Ray-O-Vac	Replaces RCA	Replaces NEDA
18 D 5769	2MN6	.65 ea.	9	$1x\frac{39}{64}x1\frac{7}{8}''$ dia.	$\frac{1}{8}$	222	....	....	1604D
18 D 5661	2N6	1.30 ea.	9	$1\frac{3}{8}x1\frac{3}{8}x2\frac{3}{4}''$	$\frac{1}{4}$	246	1602	VS305	1602
18 D 5650	2U6	.48 ea.	9	$1x\frac{39}{64}x1\frac{7}{8}''$	$\frac{1}{4}$	216	1604	VS323	1604
18 D 5106	2Z3	1.36 ea.	$4\frac{1}{2}$	$1\frac{3}{8}x1\frac{3}{8}x2\frac{3}{4}''$	$\frac{3}{8}$	243	243	VS324	1610
18 D 5860	7	Pkg. of 2 for .20	$1\frac{1}{2}$	$1\frac{3}{4}x\frac{13}{32}''$ dia.	$\frac{1}{4}$	912	400	VS074	400
18 D 5861	130	Pkg. of 2 for .39	$1\frac{1}{2}$	$1\frac{15}{16}x\frac{63}{64}''$ dia.	$\frac{1}{2}$	1035	14	VS335	14
18 D 5862	230	Pkg. of 2 for .38	$1\frac{1}{2}$	$2\frac{25}{64}x1\frac{21}{64}''$ dia.	$\frac{1}{2}$	1050	13	VS336	13
18 D 5863	930	Pkg. of 4 for .64	$1\frac{1}{2}$	$1\frac{31}{32}x\frac{35}{64}''$ dia.	$\frac{1}{2}$	1015E	15	VS334	15
18 D 5020	1306	.62 ea.	4.5	$1\frac{31}{32}x\frac{43}{64}''$ dia.	$\frac{1}{8}$	333	....	VS332	1306
18 D 5666	A4	.78 ea.	6	$1\frac{9}{32}x1\frac{9}{32}x2\frac{11}{32}''$	$\frac{1}{4}$	....	....	....	....
18 D 5670	C6X	1.64 ea.	9	$2\frac{5}{16}x1\frac{1}{32}x6\frac{1}{16}''$	$\frac{3}{4}$	2356	....	....	1612
18 D 5098	D5	1.15 ea.	$7\frac{1}{2}$	$2\frac{9}{16}x2x2\frac{23}{32}''$	$\frac{7}{8}$	707	26	VS315	26
18 D 5652	D6	1.36 ea.	9	$2\frac{9}{16}x2x3\frac{5}{32}''$	1	276	1603	VS306	1603
18 D 5667	D6PI	1.92 ea.	3, 6, 9	$2\frac{19}{32}x1\frac{7}{16}x7\frac{27}{32}''$	$1\frac{1}{2}$	2506	1601	VS301	1601
18 D 5103	D6S	2.45 ea.	9	$2\frac{1}{4}x1\frac{1}{4}x7\frac{29}{32}''$	$1\frac{1}{2}$	2761	1608	....	1608
18 D 5174	L6	.62 ea.	9	$1\frac{31}{32}x\frac{47}{64}''$ dia.	$\frac{1}{8}$	206	....	VS327	1611
18 D 5102	M6	1.36 ea.	9	$1\frac{13}{16}x1\frac{13}{16}x2\frac{7}{16}''$	$\frac{1}{2}$	266	1605	VS322	1605
18 D 5864	NE	Pkg. of 6 for .48	$1\frac{1}{2}$	$1\frac{11}{64}x\frac{7}{16}''$ dia.	$\frac{1}{2}$	E340	....	VS073	910
18 D 5093	P6	.62 ea.	9	$1\frac{15}{16}x1''$ dia.	$\frac{1}{4}$	226	1600	VS300A	1600
18 D 5770	PM6	.80 ea.	9	$1\frac{15}{16}x1''$ dia.	$\frac{1}{4}$	....	....	....	1600D
18 D 5012	PM8	1.05 ea.	12	$2\frac{7}{16}x1''$ dia.	$\frac{1}{8}$	228	....	VS329	1810
18 D 5657	XX9	1.77 ea.	9, $13\frac{1}{2}$	$1\frac{9}{32}x2\frac{9}{32}x2\frac{17}{32}''$	$\frac{1}{4}$	239	1900	VS304	1900
18 D 5364	Y6	.83 ea.	9	$\frac{3}{5}x\frac{3}{5}x1\frac{9}{10}''$	$\frac{1}{8}$	....	1606	....	1606

PORTABLE RADIO "AB" PACKS

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces Eveready	Replaces Ray-O-Vac	Replaces RCA	Replaces NEDA
18 D 5654	4TZ60	5.33 ea.	$1\frac{1}{2}$, 90	$7\frac{5}{8}x2\frac{1}{8}x3\frac{3}{4}''$	4	729	425	VSO64	425
18 D 5578	6TA60	6.96 ea.	$1\frac{1}{2}$, 90	$9\frac{31}{32}x2\frac{1}{4}x4\frac{7}{16}''$	$4\frac{1}{2}$	W369	A410	....	410
18 D 5589	F6A60P	6.35 ea.	9, 90	$9\frac{7}{16}x2\frac{3}{4}x4\frac{11}{32}''$	$5\frac{1}{4}$	757	406	VSO58	406
18 D 5579	G6B60	6.35 ea.	9, 90	$13\frac{29}{32}x2\frac{13}{16}x4\frac{21}{32}''$	$6\frac{1}{4}$	752	A400	VSO47	400
18 D 5653	T5Z50P	6.22 ea.	$7\frac{1}{2}$, 75	$8\frac{1}{2}x3\frac{11}{32}x2\frac{3}{8}''$	$3\frac{1}{2}$	785	431	VSO60	431
18 D 5587	T6Z60	6.35 ea.	$7\frac{1}{2}$, 9, 90	$8\frac{15}{16}x2\frac{3}{16}x3\frac{13}{16}''$	$4\frac{1}{2}$	756	405	VSO57W	405

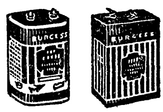
KEYSTONE BATTERY HOLDERS



Battery holders for transistor assemblies, radios, meters, model airplanes, etc. Feature snap-clips, moisture-proof fiber washers. *End to end. Av. shpg. wt., 3 oz. **2 per pkg.**

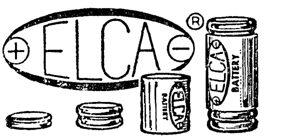
Stock No.	Mfr's Type	Holds	Burgess	Mallory	Eveready	Per Pkg. 1-19	Per Pkg. 20-299
18 D 5900	104	1	....	RM4	E4	.60	.52
18 D 5901	139	1	Z, 9R, Y15	RM12R,	E-9, E-12,	.46	.42
18 D 5902	140	2		TR133R,	E133, E502,	.76	.68
18 D 5903	171	3		RM502R,	915, 1015E,	.98	.88
18 D 5904	182	4		ZM-9	505	1.28	1.14
18 D 5905	189	2	*	....	1015E	.90	.72
18 D 5906	173	1	1	TR233R	E233, 635	.60	.48
18 D 5907	174	2				.76	.68
18 D 5908	185	2	*	....	935	.90	.72
18 D 5911	132	1	....	TR132R, TR115R	E132	.60	.48
18 D 5912	175	1	2, Z4	RM42R	D-99, A-100	.60	.48
18 D 5913	176	2			724	.76	.68
18 D 5914	186	2	*	....	950	.92	.74
18 D 5915	166	1	U10	....	411	.60	.48
18 D 5916	177	1	U15	RM412R	412	.60	.48
18 D 5918	183	1	U20	....	413	.60	.48
18 D 5919	225	1	Y10	....	504	.42	.40

IGNITION, TELEPHONE, ALARM, AND HOBBY BATTERIES



Dependable, used by police, fire depts., etc. 4F2H for general ignition, telephone, and lantern service. 4FM for hobby use. Types TW1 and TW2 sealed in steel for durability and weather-proof performance. Screw terminals: 4FM, 6-Ign., 6-Ind., TW1, TW2. Spring clip: 4F2H, 6-Tel. Binding post: 4F4H, 4F5H, 4F6H, S461.

Stock No.	Type	Price	Volts	Size	Lbs.
18 D 5015	4F2H	1.92 ea.	3	$3\frac{29}{32}x2\frac{11}{16}x5\frac{13}{32}''$	$2\frac{3}{4}$
18 D 5014	4F4H	3.70 ea.	6	$8\frac{5}{16}x2\frac{13}{16}x5\frac{13}{16}''$	$6\frac{1}{4}$
18 D 5584	4F5H	4.86 ea.	$7\frac{1}{2}$	$7\frac{3}{16}x3\frac{31}{32}x5\frac{13}{16}''$	$7\frac{1}{2}$
18 D 5021	4F6H	5.53 ea.	9	$8\frac{1}{2}x3\frac{31}{32}x5\frac{13}{16}''$	9
18 D 5871	4FM	.84 ea.	$1\frac{1}{2}$	$2\frac{5}{8}x2\frac{5}{8}x4''$	$1\frac{1}{2}$
18 D 5641	6-Ign.	.91 ea.	$1\frac{1}{2}$	$6\frac{5}{8}x2\frac{1}{2}''$ dia.	2
18 D 5647	6-Ind.	.90 ea.	$1\frac{1}{2}$	$6\frac{5}{8}x2\frac{1}{2}''$ dia.	2
18 D 5642	6-TEL.	.91 ea.	$1\frac{1}{2}$	$6\frac{5}{8}x2\frac{1}{2}''$ dia.	2
18 D 5009	F4BP	.85 ea.	6	$2\frac{5}{8}x2\frac{5}{8}x4''$	$1\frac{1}{2}$
18 D 5016	F4BW	.85 ea.	6	$2\frac{21}{32}x2\frac{21}{32}x4\frac{1}{8}''$	$1\frac{1}{4}$
18 D 5017	F4BWX	1.13 ea.	6	$2\frac{21}{32}x2\frac{21}{32}x4\frac{1}{8}''$	$1\frac{1}{4}$
18 D 5018	F4HW	.79 ea.	6	$2\frac{5}{8}x2\frac{5}{8}x4\frac{7}{16}''$	$1\frac{3}{8}$
18 D 5853	F4M	.85 ea.	6	$2\frac{5}{8}x2\frac{5}{8}x4\frac{3}{8}''$	$1\frac{1}{2}$
18 D 5113	F4SC	.85 ea.	6	$2\frac{5}{8}x2\frac{5}{8}x4\frac{1}{2}''$	$1\frac{1}{4}$
18 D 5643	S461	3.70 ea.	6	$10\frac{1}{2}x2\frac{3}{4}x7\frac{13}{32}''$	$9\frac{1}{2}$
18 D 5658	TW1	1.96 ea.	6	$5\frac{3}{8}x2\frac{7}{8}x4\frac{15}{16}''$	$3\frac{1}{4}$
18 D 5500	TW2	1.96 ea.	12	$5\frac{3}{8}x2\frac{7}{8}x4\frac{15}{16}''$	$3\frac{1}{4}$



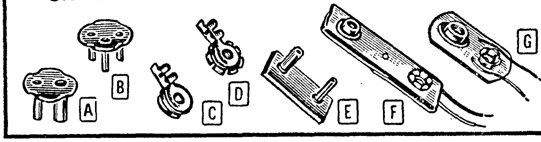
ELCA SILVER CADMIUM BATTERIES

- Lightweight, Compact
- Recharge Faster
- Long Shelf Life

New silver cadmium batteries let you put more power in a given space or reduce the size and weight of your portable equipment. Silver cadmium cells equal the output of nickel cadmium cells, but take only half the space. Hermetically sealed construction with "non-gassing" design prevents leaking. Silver cadmium batteries have up to 5 years wet, activated shelf life with excellent charge retention. Retain charge 5 to 8 times longer than comparable nickel cadmium cells and recharge almost $2\frac{1}{2}$ times faster. Ideal for any and all applications of a sealed, activated rechargeable battery system. *5-hour discharge rate.

Stock No.	Mfr's Type	Price	Volts	Size	MAH *	Oz.
18 D 5165	S-250	2.45 ea.	1.1	.98x.22	250	2
18 D 5166	S-500	3.60 ea.	1.1	1.34x.25	500	2
18 D 5167	S-1000	4.85 ea.	1.1	1.34x.38	1000	2

CINCH-JONES PLUGS FOR BATTERIES



Cinch-Jones plugs for "A," "B" and various other batteries. Av. shpg. wt., 2 oz. **2 per package.**

Stock No.	Type	Fig.	For Burgess Battery	For Eveready	PKG.
18 D 5178	5A1	A	2F, 4F, 6F, 8F, 2D, 8R	720, 960P	.08
18 D 5176	5B1A	B	XX15, XX22, XX30P1	425P, 433P	.10
18 D 5301	5M	C	P6, D5, P6M, M6, XX45, XX30, XX50,	226, 707, 467, 266	.12
18 D 5302	5F	D	K45, P45, P45M, P60, D6, 4D4, N60X, C6X	455, 477, 457, 437, 495	.12
18 D 5175	5A4	E	2F4, F4P1, XX15, XX22, XX30P1	....	.10
18 D 5184	5D	G	U30, 2U6, 2N6, UX45	415, 216, E146	.69
18 D 5307	5D1	F	XX50, P45, P45M, P60, N60X, C6X	477, 479	.67
18 D 5308	5D2	F	N60	....	.67
18 D 5309	5MFA	F	XX45, XX30, K45	457	.67

Allied Has Complete Stocks of All Your Battery Needs

Burgess "A", "B", and "C" Batteries

ZINC-CARBON "A" BATTERIES FOR ELECTRONIC USE

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces Eveready	Replaces Ray-O-Vac	Replaces RCA	Replaces NEDA
18 D 5590	2BBP	1.16 ea.	1 1/2	1 19/32x2 7/32x2 11/16"	1/4	....	....	....	....
18 D 5051	2D	1.15 ea.	1 1/2	2 9/16x1 9/32x2 31/32"	3/4	720	18	VS069	18
18 D 5001	2F	1.22 ea.	1 1/2	2 19/32x1 3/8x4 1/4"	3/4	W353	11	VS141	11
18 D 5033	2F2BP	5.35 ea.	3	5 3/16x1 5/16x4 5/32"	1 1/2	W354	....	262	....
18 D 5010	2F2H	1.75 ea.	1 1/2	2 5/8x2 5/8x4 1/16"	1 1/2	W356	703	VS136	703
18 D 5002	2F4	2.87 ea.	6	4x2 13/16x5 7/16"	2 1/2	718	A1	....	1
18 D 5030	2FBP	.79 ea.	1 1/2	2 21/32x1 3/8x4 1/32"	1/2	W354	711	VS101	700
18 D 5866	2R	Pkg. of 2 for .26	1 1/2	2 25/64x1 21/64" dia.	1/2	950	2LP	VS036	13
18 D 5585	2Z2P1	1.13 ea.	3	1 5/32x1 5/32x2 13/32"	1/4	W371	....	....	....
18 D 5003	4F	1.15 ea.	1 1/2	2 5/8x2 5/8x4 3/32"	1 1/2	742	A4	VS004	4
18 D 5045	5R	.48 ea.	1 1/2	2 15/64x9/64" dia.	1/4	....	....	....	....
18 D 5595	6F	2.69 ea.	1 1/2	4 3/32x2 3/4x4 1/16"	2 1/4	743	A5	....	5
18 D 5004	8F	2.76 ea.	1 1/2	3 29/32x2 23/32x5 1/2"	3	741	17	....	17
18 D 5046	8R	.87 ea.	1 1/2	3 15/16x1 3/32" dia.	1/4	960P	23	VS070	23
18 D 5644	21R	.42 ea.	1 1/2	4 1/8x1 21/64" dia.	1/2	964	20	VS236	20
18 D 5048	37	.97 ea.	1 1/2	6 1/8x1 5/16" dia.	1/2	....	....	....	....
18 D 5034	422	.79 ea.	3	2 5/16x2 3/32x1 11/32"	1/4	750	704	VS134	704
18 D 5026	432	.87 ea.	4 1/2	1 31/32x2 1/32x2 1/4"	1/4	751	705	VS142	705
18 D 5091	532	1.36 ea.	4 1/2	2 15/32x4 13/16x2 23/32"	1/4	703	706	VS133	706
18 D 5582	B2BP	2.42 ea.	3	1 5/8x1 3/16x2 11/16"	1/4	....	....	....	....
18 D 5041	B5	2.27 ea.	7 1/2	3 29/32x7/8x2 27/32"	1/2	713	8	VS129	8
18 D 5044	C5	1.23 ea.	7 1/2	2 7/32x1 15/16x3 1/32"	3/4	717	9	VS065	9
18 D 5052	D3	1.23 ea.	4 1/2	3 7/8x1 5/16x2 15/16"	3/4	726	19	VS072	19
18 D 5011	F2BP	1.33 ea.	3	2 21/32x1 3/8x4 1/32"	1	W352	701	VS100	701
18 D 5592	F3	1.23 ea.	4 1/2	4x1 7/16x4 1/8"	1 1/4	736	A3	VS067	3
18 D 5009	F4BP	.85 ea.	6	2 5/8x2 5/8x4"	1 1/2	510S	942	VS040S	915
18 D 5007	F4PI	1.15 ea.	6	2 21/32x2 21/32x4 1/8"	1 1/2	744	A6	VS009	6
18 D 5008	G3	1.57 ea.	4 1/2	4 1/16x1 7/8x4 11/16"	1 1/4	746	A7	VS067	7
18 D 5593	Z4	.87 ea.	6	1 3/16x1 3/16x2 7/32"	1/4	724	A2	VS068	2

ZINC-CARBON "B" BATTERIES FOR ELECTRONIC USE

Stock No.	Mfr's Type	Price	Volts	Size	Wt., Lbs.	Replaces Eveready	Replaces Ray-O-Vac	Replaces RCA	Replaces NEDA
18 D 5560	4156	1.61 ea.	22 1/2	3 17/32x2 1/8x2 29/32"	1	763	A710	VS102	710
18 D 5561	5156PI	4.16 ea.	22 1/2	4 7/64x2 3/8x2 55/64"	1 3/4	768	721	VS031	721
18 D 5559	5308	3.05 ea.	45	4 1/16x2 9/16x5 1/8"	3	762S	709	VS112	709
18 D 5570	A30	2.92 ea.	45	3 9/16x2 1/4x4 5/16"	1 3/4	W359	206	VS014	206
18 D 5571	B30	3.47 ea.	45	4 1/16x2 17/32x5 5/16"	2 1/4	484	207	VS012	207
18 D 5104	K10	1.28 ea.	15	1 1/4x7/8x1 17/32"	2	417	....	....	224
18 D 5105	K15	1.44 ea.	22 1/2	1 1/4x7/8x2 9/32"	2	420	....	....	225
18 D 5061	K20	1.72 ea.	30	1 1/4x15/16x2 23/32"	3	430	....	....	226
18 D 5596	K45	2.97 ea.	67 1/2	2 11/16x1 5/16x2 1/4"	1/2	457	203	VS082	203
18 D 5576	M30	2.97 ea.	45	3 9/16x1 3/4x5 1/2"	2	482	202	VS013	202
18 D 5669	N60X	3.47 ea.	90	1 7/8x1 11/32x7 1/8"	1 1/8	495	....	VS316	216
18 D 5645	P45	2.70 ea.	67 1/2	1 29/32x1x5 9/32"	3/4	477	211P	VS218	211
18 D 5651	P60	2.97 ea.	90	1 29/32x1x7 13/32"	1	479	214	VS219	214
18 D 5062	U10	.81 ea.	15	1x39/64x1 7/16"	1/16	411	208	VS083	208
18 D 5064	U15	1.05 ea.	22 1/2	1x39/64x1 31/32"	2	412	215	VS084	215
18 D 5066	U20	1.23 ea.	30	1x39/64x2 17/32"	2	413	A210	VS085	210
18 D 5649	U30	1.75 ea.	45	1 3/32x1 9/32x3 17/32"	1/4	415	213	VS086	213
18 D 5668	UX45	2.07 ea.	67 1/2	1 7/32x31/32x3 31/32"	1/2	416	217	VS318	217
18 D 5772	V45	2.77 ea.	67 1/2	2 3/4x1 11/32x3 43/64"	1	468	....	VS165	200C
18 D 5597	V60	3.15 ea.	90	3 23/32x1 9/32x3 11/16"	1	490	204	VS090	204
18 D 5567	W30BPX	6.05 ea.	45	3x1 1/4x3 25/32"	3/4	....	....	....	....
18 D 5573	W30PI	5.06 ea.	45	2 31/32x1 7/32x3 29/32"	3/4	733	N30P	....	N30P
18 D 5054	XX15	1.56 ea.	22 1/2	1 1/32x15/16x3 7/8"	4	425P	PN15	....	....
18 D 5055	XX22	2.27 ea.	33	2 17/32x31/32x3 1/8"	6	433P	PN22	....	....
18 D 5575	XX30	2.27 ea.	45	2 17/32x31/32x3 21/32"	1/2	455	201	VS055	201
18 D 5060	XX30PI	2.27 ea.	45	2 17/32x31/32x4 1/32"	8	455P	PN30F	....	....
18 D 5574	XX45	2.70 ea.	67 1/2	2 3/4x1 11/32x3 43/64"	3/4	467	200	VS016	200
18 D 5586	XX50	3.15 ea.	75	1 27/32x1 5/16x6 5/16"	1	437	212	VS217	212
18 D 5581	XX69	4.86 ea.	103 1/2	1 11/32x1 11/32x1 123/32"	1	W361	69N	....	227
18 D 5069	Y10	.81 ea.	15	19/32x19/32x1 23/64"	2	504	220	VS704	220
18 D 5075	Y15	1.05 ea.	22 1/2	19/32x19/32x1 31/32"	2	505	221	VS705	221
18 D 5068	Y20	1.30 ea.	30	1 3/16x19/32x1 13/32"	2	506	....	....	223
18 D 5077	Y20S	1.30 ea.	30	19/32x19/32 2x9/16"	2	507	....	....	222
18 D 5572	Z30	2.76 ea.	45	3x2 5/16x4 1/16"	1 1/2	738	205	VS015	205
18 D 5569	Z30NX	2.69 ea.	45	3 1/32x1 7/8x4 19/32"	1 1/2	W350	711	VS114	711
18 D 5109	Z30T	2.62 ea.	45	3x2 5/16x4 1/8"	1 1/2	....	....	....	....
18 D 5598	Z60BP	17.50 ea.	90	3 3/4x2 11/32x5 15/16"	2 3/4	....	....	....	....

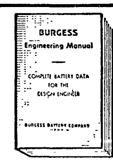
ZINC-CARBON "C" BATTERIES FOR ELECTRONIC USE

Stock No.	Type	Price	Volts	Size	Lbs.
18 D 5583	2370	2.10 ea.	4 1/2	3 15/16x1 3/8x2 7/8"	3/4
18 D 5563	2370PI	2.14 ea.	4 1/2	4 1/64x1 27/64x2 63/64"	3/4
18 D 5565	5360	1.23 ea.	4 1/2	2 13/32x27/32x2 21/32"	1/4
18 D 5564	5540	1.80 ea.	7 1/2	4x7/8x2 3/4"	1/2
18 D 5591	A9BP	8.75 ea.	13 1/2	2 3/32x2 3/32x2 13/32"	1/2
18 D 5568	W5BP	2.05 ea.	7 1/2	2 31/32x23/32x1 3/4"	1/4

SPECIAL-PURPOSE TAPE RECORDER BATTERIES

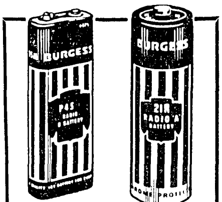
Stock No.	Type	Price	Volts	Size	Lbs.
18 D 5110	2X62X	3.20 ea.	1 1/2, 9	2 1/2x1 25/32x2 11/32"	1/2
18 D 5111	2X7	1.82 ea.	10 1/2	2 1/2x1 25/32x2 11/32"	1/2
18 D 5120	2VT8	2.00 ea.	12	1 5/16x1 5/16x3 19/32"	1/2

BATTERY ENGINEERING MANUAL



Information on performance of different battery types. Hundreds of graphs and illustrations. Spec sheets for new battery design. An invaluable aid to engineers and technicians. 148 pp. 6x9 1/2". Wt., 10 oz.

23 D 8874 E....1.00



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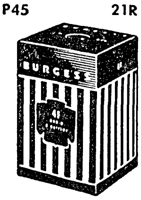

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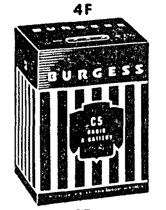

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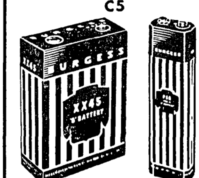
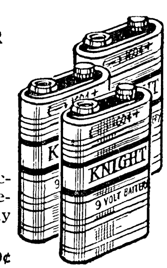


XX45 P60

KNIGHT® 9-VOLT TRANSISTOR RADIO BATTERY

79¢ per pkg. of 3

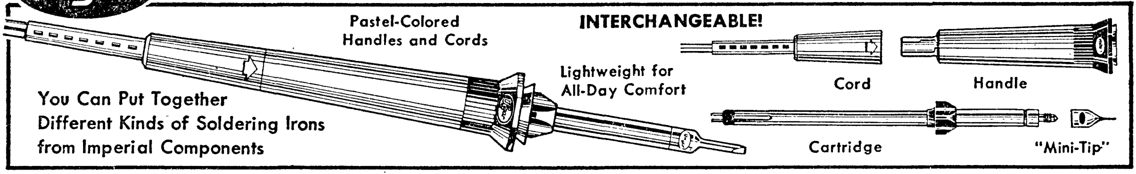
- American Made
- Fit Most Radios
- Fresh Stock



Made for us by a famous American manufacturer, yet sells at imported-battery prices. Replaces Burgess 2U6, RCA VS323, Eveready 216, others. 1 7/8x3 9/64x1". Wt., 6 oz.

18 D 5999................Pkg. of 3 for 79¢

Ungar IMPERIAL Soldering Components



INTERCHANGEABLE CORD SETS

6′ long; color-matched to handles, below. 115 v., AC-DC. 3 oz.

Stock No.	Mfr's Type	Description	Color	EACH 1-9	10-99	100-Up
26 D 1619	6102	2-wire	Turquoise	1.47	1.26	1.14
26 D 1683	6102	2-wire	Beige	1.47	1.26	1.14
26 D 1684	6102	2-wire	Ivory	1.47	1.26	1.14
26 D 1663	6102	2-wire	Black	1.47	1.26	1.14
26 D 1620	6103	3-wire	Turquoise	2.41	2.07	1.88
26 D 1685	6103	3-wire	Beige	2.41	2.07	1.88
26 D 1686	6103	3-wire	Ivory	2.41	2.07	1.88
26 D 1661	6103	3-wire	Black	2.41	2.07	1.88

"PERMA-COOL" HANDLES

TYPE 6100. Slim, functionally-designed handles. Double cushion of air and five heat-transition surfaces keep handle cool, comfortable. Polycarbonate resin, die-cast aluminum heat sink. 4.7″ long; 0.8″ dia. at grip. Weigh 1 oz. For 115 v., AC-DC. U.L. Listed. 2 oz.

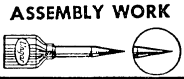
Stock No.	Color	EACH 1-9	10-99	100-Up
26 D 1616	Beige	1.25	1.07	.96
26 D 1617	Ivory	1.25	1.07	.96
26 D 1618	Turquoise	1.25	1.07	.96
26 D 1579	Black	1.25	1.07	.96

"LONG LIFE" HEAT CARTRIDGES

Stainless-steel cartridges for "Mini-Tips," at right. 7½″ long except *8″ long; †8½″ long. 6203, 950-1050°F; 6200, 750-950°F; 6201, 650-850°F; 6202, 600-800°F; 6207, 850-1000°F. U.L. Listed. 2 oz.

Stock No.	Type	Watts	1-9, EA.	10-99, EA.	100-Up, EA.
26 D 1049	†6207	100	5.85	4.79	4.49
26 D 2025	*6203	60	3.98	3.46	3.10
26 D 1622	6200	40	3.51	3.00	2.70
26 D 1623	6201	30	3.51	3.00	2.70
26 D 1624	6202	25	3.51	3.00	2.70

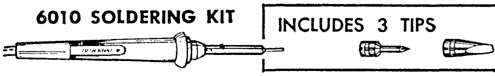
NEW! TIPS FOR MICROMINIATURE ASSEMBLY WORK



Ultra-fine points. For Heat Cartridges above. Shpg. wt., 1 oz.
26 D 3070. 6391 .005″ Copper Tip. 1-9 Ea. .63 10-49 Ea. .53 50-Up. Ea. .49
26 D 3071. 6392 .010″ Iron-Clad Gold-Plated Copper Tip. 1-9........Each 1.32 10-49..Each 1.09 50-Up.....Each .95

6010 SOLDERING KIT

INCLUDES 3 TIPS



Features the most popular Imperial components used in production development and service. Includes: #6100 Perma-Cool Handle; #6200 stainless-steel, double-insulated 40-watt heat cartridge; #5102 two-wire cord; three multi-purpose Mini-tip thread-on soldering tips. Delivers 750° to 950° F. tip temperature. 115 v., AC-DC. 4 11/16″. 8 oz.
26 D 1053. 1-9....Ea. 5.76 10-49.. .Ea. 5.69 50-Up.. .Ea. 5.39

24 INTERCHANGEABLE THREAD-ON "MINI-TIPS"

*In description column indicates 24-kt. gold-plated, iron-clad; †indicates tellurium copper. Micro-chisel and micro-spade "Mini-Tips may be bent to make offset tips. Use with 25, 30, 40, or 60-watt "Long-Life" cartridges, except 6520, for 100-w. cart. 3 oz.

Stock No.	Mfr's Type	Description	Size	EACH 1-9	10-99	100-Up
26 D 1625	6304	*Micro-chisel	3/64x1/2″	.87	.74	.65
26 D 1626	6305	*Micro-spade	3/64x1/2″	.87	.74	.65
26 D 1627	6312	†Pencil	1/8x3/4″	.35	.30	.27
26 D 1628	6313	*Pencil	1/8x3/4″	.87	.74	.65
26 D 1630	6316	*Pencil, offset	1/8x3/4″	.87	.74	.65
26 D 1631	6318	†Long taper chisel	1/8x3/4″	.35	.30	.27
26 D 1632	6319	*Long taper chisel	1/8x3/4″	.87	.74	.65
26 D 1633	6324	†Long taper pyramid	1/8x3/4″	.35	.30	.27
26 D 1634	6325	*Long taper pyramid	1/8x3/4″	.87	.74	.65
26 D 1636	6331	*Screwdriver	1/8x3/4″	.87	.74	.65
26 D 1637	6333	*Needle	1/8x3/4″	.87	.74	.65
26 D 1639	6336	*Spade	1/8x3/4″	.87	.74	.65
26 D 1641	6366	*Long taper chisel	3/16x3/4″	1.02	.87	.78
26 D 1645	6372	*Screwdriver	3/16x3/4″	1.02	.87	.78
26 D 1051	6373	†Slotted	3/16x3/4″	.87	.74	.65
26 D 1652	6390	*Screwdriver	3/16x1 1/2″	1.02	.87	.78
26 D 1658	6424	*Long taper chisel	1/4x3/4″	1.04	.90	.81
26 D 1662	6474	*Long taper chisel	3/8x3/4″	1.22	1.04	.94
26 D 1981	6481	*Tapered screwdriver	3/4x3/32″	.87	.74	.65
26 D 2026	6482	Micro-spade	3/64x1 1/16″	.87	.74	.65
26 D 1050	6520	†100-W. Cart. Chisel	1/2x1 1/2″	1.02	.87	.78
26 D 3072	6368	†Long taper pyramid	1/8x3/4″	.43	.37	.33
26 D 3073	6473	†Long taper chisel	1/4x3/4″	.44	.38	.33
26 D 3074	6500	*100-W. Cart. Chisel	1 1/2x1/2″	2.11	1.80	1.63

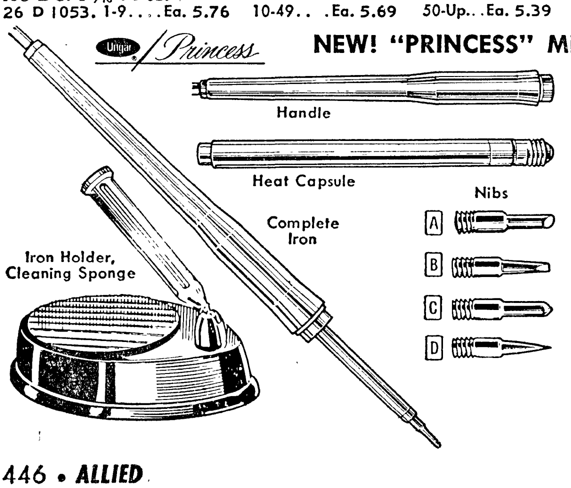
"MICRO-TIPS" AND 15-WATT CARTRIDGE FOR MICROMINIATURE ASSEMBLIES

6206 15-WATT CARTRIDGE. Short length and small diameter for tight, high-density circuitry requiring precise tip temperatures and extreme soldering care. Only 6 7/8x5/16″. Weighs only 0.89 oz. 614-743°F depending on tip. U.L. Listed. 2 oz.
26 D 2294. 1-9..Each 3.51
10-99..........Each 3.00 100-Up ....Each 2.70

"MICRO-TIPS." Use only with 6206 cartridge above. Tips are iron clad, 24 kt. gold plated. U.L. Listed. 2 oz.

Stock No.	Mfr's Type	Description	Size	EACH 1-9	10-99	100-Up
26 D 2295	6550	Taper screwdriver	1/8x3/8″	1.02	.87	.78
26 D 2296	6551	Stepped spade	.040x3/8″	1.02	.87	.78
26 D 2297	6553	Stepped chisel	.040x3/8″	1.02	.87	.78
26 D 2298	6554	Stepped pencil	.040x3/8″	1.02	.87	.78

Ungar Princess — NEW! "PRINCESS" MICROMINIATURE SOLDERING COMPONENTS



Select your own combination of components to get the exact "Princess" soldering iron you need. Lightweight, thin—ideal for microminiature work. Stainless steel heat capsules. Tip temp., 550-650°. Handles, 5x½″ dia.; with 6′ cords. Nibs (tips) listed below. Av. shpg. wt., 3 oz.

Stock No.	Type	Description	1-9, EA.	10-49, EA.	50-Up, EA.
26 D 3079	6902	2-wire-cord and handle	2.19	2.12	1.89
26 D 3080	6903	3-wire-cord and handle	2.94	2.69	2.40
26 D 3077	6904	15-watt Heat Capsule	2.81	2.57	2.29
26 D 3078	6905	10-watt Heat Capsule	2.81	2.57	2.29
26 D 3075	6990	Iron Holder, Sponge	2.45	2.25	2.00
26 D 3076	6991	Sponge Refill for above	.39	.36	.34

SOLDERING NIBS (*Iron-Clad Gold-Plated Copper, †Plain Copper)

Stock No.	Mfr's Type	Fig.	Description	Lx Dia.xTip	EACH 1-9	10-49	50-Up
26 D 3081	6952	A	†Spade Nib	.61x1/8x.08″	.32	.30	.27
26 D 3082	6962	A	*Spade Nib	.62x13x.09″	.58	.52	.47
26 D 3083	6951	B	†Screwdriver Nib	.60x1/8x.005″	.32	.30	.27
26 D 3084	6961	B	*Screwdriver Nib	.62x.13x.06″	.58	.52	.47
26 D 3085	6950	C	†Pencil Nib	.61x.125x.015″	.32	.30	.27
26 D 3086	6960	C	*Pencil Nib	.62x.130x.015″	.58	.52	.47
26 D 3087	6953	D	†Precision Point	.61x1/8x.005″	.49	.45	.40
26 D 3088	6963	D	*Precision Point	.61x1/8x.010″	.98	.89	.79

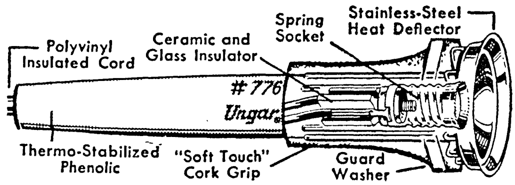
"Standard Line" Soldering Components

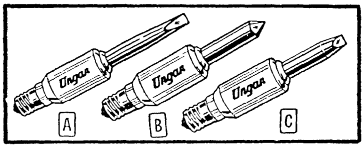
TYPE 776 HANDLE AND CORD

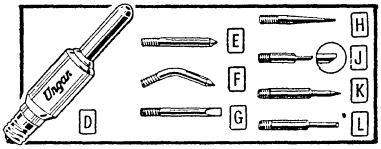
Seven ways better on the production line. (See illustration.) Ideal for printed circuits and subminiature systems. Durable, and lightweight to reduce fatigue. Spring socket—tip can't wobble or "give." Special ceramic and glass insulator resists tip heat. Stainless-steel heat deflector reflects heat away from operator's hand. Octagon guard washer prevents handle roll, acts as built-in stand. 6-foot cord. Handle length, 5". Less element and tip, below. U.L. Listed. Shpg. wt., 4 oz.
26 D 1304. 1-9... .Each 1.32 10-49.....Each 1.12 50-Up.....Each 1.01

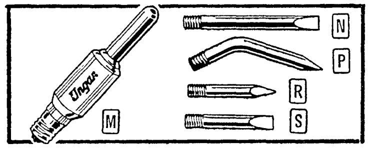
777 "CLEAN ROOM" HANDLE AND CORD. Attractive pastel color. Heat stabilized poly-propylene grip is convection cooled. Octagon shape.
26 D 1029. 1-9.....Each 1.50 10-49.....Each 1.28 50-Up.....Each 1.18

LIGHTWEIGHT, HEAVY-DUTY CONSTRUCTION









COMBINATION ELEMENT-TIPS

Element and tip for use with Types 776 and 777 handles, above. U.L. Listed. For 110-120 volts AC-DC. 2 oz.

47½ WATTS—850°-1000°F

[A] 26 D 1498. 4033 Chisel Tip, Long Taper. General-purpose, Iron-clad, silver-plated alloy. Tip, 1⅝x¼".

[B] 26 D 1499. 4036 Pyramid Tip. For extra-heavy-duty work. Tip, 1⅛x⅜".

[C] 26 D 1500. 4039 Chisel Tip, Short Taper. For production line. Tip, 1⅛x⅜".

1-9.......................Each 2.60
10-49......Each 2.18 50-Up. .Each 2.01

37½ WATTS—750°-800°F

[A] 26 D 1401. 1233 Chisel Tip, Long Taper. For general service/light production. Copper-alloy, unplated tip, 1⅝x¼".

[B] 26 D 1480. 1236 Pyramid Tip. For general service/light production. Solid Armco iron, silver plated tip, 1⅛x5/16".

[C] 26 D 1481. 1239 Chisel Tip, Short Taper. For general-purpose work. Solid Armco iron, silver-plated tip, 1⅛x⅜".

1-9.......................Each 1.50
10-49......Each 1.28 50-Up....Each 1.15

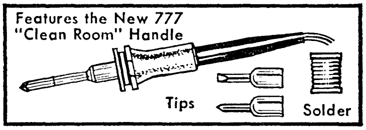
23½ WATTS—650°-700°F

[A] 26 D 1400. 533 Chisel Tip, Long Taper. Made of copper alloy. For general repair. Tip, 1⅝x3/16".

[B] 26 D 1478. 536 Pyramid Tip. For general maintenance. Tip, 1⅛x5/16".

[C] 26 D 1479. 539 Chisel Tip, Short Taper. For general repair on small-board surface joints. Tip, 1⅛x5/16".

1-9.......................Each 1.24
10-49......Each 1.04 50-Up....Each .95



7070 GENERAL-PURPOSE "TECHNICIANS" SOLDERING KIT

Complete outfit for production line or shop. Consists of Type 1237 high-heating unit (37½ watts—750° to 800°F) with pastel-colored Type 777 handle; three interchangeable, thread-on copper tips (pencil, chisel, and pyramid) for high-speed repeat soldering; tin of anti-seize; spool of 60/40 non-corrosive, rosin-core solder. Lightweight polypropylene handle will not crumble or "dust." Air-flow construction provides cooler grip. U.L. Listed. For 115 volts, AC-DC. Shpg. wt., 1 lb.
26 D 1036. 1-5..............Each 3.91
6-11 .....Each 3.60 12-Up ..Each 3.75

THREAD-IN ELEMENTS AND ⅛" TIPLETS FOR SUBMINIATURE WORK

[D] ELEMENTS. Fit Types 776 and 777 handles, above. Type 4035, for 800-850°F; Type 1235, for 700-750°F; Type 535, for 600-650°F. Steel body treated to resist corrosion. U.L. Listed. For 110-120 volts AC or DC. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Watts	EACH 1-9	EACH 10-49	EACH 50-Up
26 D 1490	4035	47½	2.60	2.18	2.01
26 D 1488	1235	37½	1.50	1.28	1.15
26 D 1482	535	23½	1.24	1.04	.95

⅛" TIPLETS. 1" long, except *1¼", †⅝". §1/16" point; ♯3/64" point. Av. shpg. wt. 2 oz.

IRON-CLAD SILVER-PLATED COPPER ALLOY

Stk. No.	Type	Fig.	Description
26 D 1469	PL331	E	Pencil
26 D 1470	*PL332	F	Pencil, Offset
26 D 1471	PL333	G	Chisel, Long Taper
26 D 2101	§PL338	H	Tapered Needle
26 D 1409	†♯PL340	J	Micro-Spade
26 D 1755	7154	K	Pencil, Stepped
26 D 2068	7155	L	Chisel, Stepped

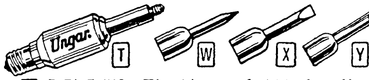
1-9.......................Each .49
10-49......Each .41 50-Up....Each .37

UNPLATED COPPER ALLOY

Stk. No.	Type	Fig.	Description
26 D 1483	331	E	Pencil
26 D 1484	332	F	Pencil, Offset
26 D 1485	333	G	Chisel, Long Taper

1-9.......................Each .18
10-49.... .Each .16 50-Up.....Each .14

THREAD-ON ELEMENTS AND MINI-TIPS FOR HI-SPEED WORK



[T] ELEMENTS. Fit 776 and 777 handles, above. Nickel-plated copper alloy. 4037, 750-900°F; 1237, 750-800°F; 537, 600-650°F. U.L. Listed. For 115 v., AC-DC. 2 oz.

Stock No.	Mfr's Type	Watts	EACH 1-9	EACH 10-49	EACH 50-Up
26 D 1403	4037	47½	2.60	2.18	2.01
26 D 1402	1237	37½	1.55	1.30	1.20
26 D 1593	537	23½	1.42	1.21	1.09

MINI-TIPS. *Iron-clad, silver-plated copper. †Unplated copper. ¾x⅛". 2 oz.
(W) 26 D 1404. PL-111* Pencil.
(X) 26 D 1405. PL-113* Chisel.
(J) 26 D 1040. PL-114* Micro-Spade.
(Y) 26 D 1041. PL-116* Pyramid.
1-9.......................Each .62
10-49 ......Each .52 50-Up ....Each .48
(W) 26 D 1406. 111† Pencil.
(X) 26 D 1407. 113† Chisel.
(Y) 26 D 1048. 116† Pyramid.
1-9.......................Each .28
10-49 ......Each .23 50-Up ....Each .21

THREAD-IN ELEMENT AND 3/16" TIPLETS FOR GREATER HEAT TRANSFER

4045 ELEMENT

[M] 800-850°F, 57½ WATTS. Fits 776 and 777 handles, above. High-temperature steel body treated to resist corrosion. Fits desoldering tips on page 451. For 110-120 v. AC or DC. 2 oz.
26 D 1105. 1-9...............Each 2.60
10-49......................Each 2.18
50-Up......................Each 2.01

¾" TIPLETS

For extra-high heat transfer. Lengths given are unthreaded lengths. Shpg. wt., 2 oz.

IRON-CLAD SILVER PLATED COPPER ALLOY

Both are chisel tip, long taper. Wt., 2 oz.

Stock No.	Type	Fig.	Description
26 D 1412	PL833	N	1⅝" long
26 D 1413	PL834	P	1⅝" long, offset

1-9 ....Each .81
10-49 ......Each .67 50-Up ....Each .62

Stock No.	Type	Fig.	Description
26 D 1410	PL823	R	Pyramid, 1" long
26 D 1411	PL824	S	Chisel, 1" long taper

1-9 ....Each .54
10-49 ......Each .44 50-Up ....Each .42

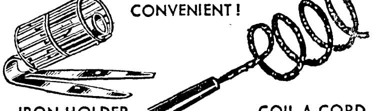
UNPLATED COPPER ALLOY

(R) 26 D 2023. 823 Pyramid. 1" long.
(S) 26 D 2024. 824 Chisel Long Taper. 1".
1-9.......................Each .18
10-49......Each .16 50-Up......Each .14

NEW! MICRO-MINIATURE TIPS FOR ⅛" ELEMENTS

26 D 3089. Type 7012 Copper .005" Tip. 1 oz
1-9. .Ea. .49 10-49. .Ea. .41 50-Up. .Ea. .37.
26 D 3090. Type 7062 Iron-Clad Silver-Plated Copper .010" Tip. 1 oz. 1-9. . Ea. .98
10-49 ......Each .81 50-Up . .Each .75

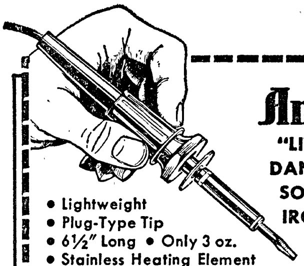
SOLDERING ACCESSORIES



COIL-A-CORD. Keeps cord out of way. For Ungar "Standard Line" and "Imperial" soldering units. Shpg. wt., 2 oz.
26 D 2069. 1-9 ....Each .97
10-49 ......Each .83 50-Up ....Each .78

8000 IRON HOLDER. For "Standard Line"
26 D 1606. 1-9...............Each 1.67
10-49 ....Each 1.37 50-Up ..Each 1.27

6800 IRON HOLDER. As above, but for "Imperial" irons. 8 oz.
26 D 1702. 1-9...........Each 1.57
10-49 ....Each 1.30 50-Up ..Each 1.20



"LITTLE DANDY" SOLDER IRONS

- Lightweight
- Plug-Type Tip
- 6½″ Long • Only 3 oz.
- Stainless Heating Element

25-watt iron endures continuous production-line conditions. Molded "Lexan" handle; "Tenite" finger grip. With 274 nickel-plated 3⁄16″ screwdriver tip, meltproof 6-ft. cord. For 110-120 v., 50-60 cycle AC. 5 oz.
26 D 1072. 3110 2-Wire Type.
1-5..Each 4.20 6-Up......Each 3.99

26 D 1084. 3110-S3 3-Wire Type.
1-5...Each 4.90 6-Up...Each 4.65

REPLACEMENT ELEMENTS

Stock No.	Type	Watts	EACH
26 D 1095	9010	25	3.00
26 D 1097	9010	30	3.00
26 D 1098	9010	35	3.00

NICKEL-PLATED TIPS

Stock No.	Type	Description	EACH
26 D 1068	274	3⁄16″ Scrwdrvr	.21
26 D 1069	275	1⁄8″ Scrwdrvr	.28
26 D 1070	277	3⁄16″ Diamond	.21
26 D 1071	278	1⁄8″ Diamond	.28

"PARAGON" IRON-CLAD TIPS

26 D 1054	602	3⁄16″ Chisel	1.25
26 D 1055	604	1⁄16″ Chisel	1.40
26 D 1064	605	1⁄8″ Chisel	1.40
26 D 1065	610	3⁄16″ Diamond	1.25
26 D 1066	613	3⁄32″ Scrwdrvr	1.40
26 D 1067	618	1⁄8″ Scrwdrvr	1.25

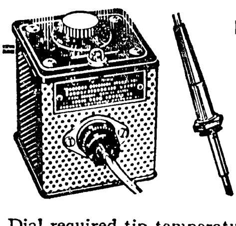
40-WATT "LITTLE DANDY"
As above, 7½″. With 289 tip. 6 oz.
26 D 2078. 3112 2-Wire Type.
1-5....Each 5.60 6-Up....Each 5.30
26 D 2079. 3112-S3 3-Wire Type.
1-5....Each 6.30 6-Up....Each 5.95

REPLACEMENT ELEMENTS

Stock No.	Type	Watts	EACH
26 D 2097	9012	40	3.85
26 D 2098	9012	50	3.85
26 D 2099	9012	60	3.85

REPLACEMENT TIPS
†Nickel-plated §Paragon iron-clad

Stock No.	Type	Description	EA.
26 D 2805	†286	1⁄4″ Diamond	.35
26 D 2806	†288	1⁄8″ Diamond	.35
26 D 2807	†289	1⁄4″ Screwdriver	.35
26 D 2808	†291	1⁄8″ Screwdriver	.35
26 D 2809	§704	1⁄4″ Chisel	1.45
26 D 2810	§710	1⁄8″ Diamond	1.45
26 D 2843	§709	1⁄4″ Diamond	1.45
26 D 2844	§714	3⁄32″ Screwdriver	1.45
26 D 2845	§720	5⁄32″ Screwdriver	1.45



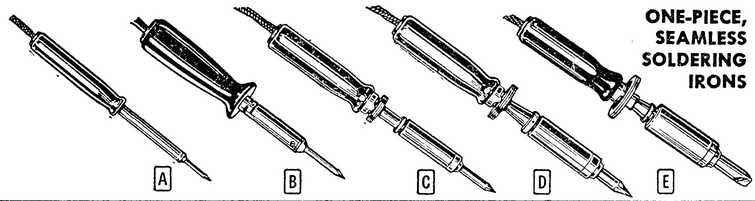
NEW V-3000 SOLDERING SYSTEM

40-Watt Temperature Controlled Iron

Dial required tip temperature from 350 to 750° F. Sensor in tip responds to changes in load demand. Includes power unit, soldering iron, 618 tip (uses 600 Series Paragon tips, above). For 110-120 v., 50-60 cycle AC. Power unit, 4x5x5″; iron, 6⅝″.
26 D 2846. Shpg. wt., 5 lbs.........49.00
26 D 2847. Replacement Element. 4 oz.8.75

American Beauty SOLDERING IRONS FOR INDUSTRY

ONE-PIECE, SEAMLESS SOLDERING IRONS



Designed to fit any soldering application. Special iron-plated tips, available for all models, greatly reduce pitting and redressing. Casing and body are of one-piece seamless steel. Rubberoid-coated handles remain cool after hours of use. With 6-ft. cords. U.L. Listed.

[A] MODEL 3128—60 WATTS
For light work. ¼″ copper tip. With stand. Length, 12¼″. For 110-120 volts, AC-DC. Shpg. wt., 1 lb.
26 D 1514. 1-5................Each 6.30
6-Up.........................Each 6.00

[B] MODEL 3114—60 WATTS
For light-medium work. ¼″ copper tip. With stand. Chrome-plated metal parts. 9″ long. For 110-120 v., AC-DC. 1 lb.
26 D 1886. 1-5................Each 7.00
6-Up.........................Each 6.65

[C] MODEL 3138—100 WATTS
General-purpose iron. ⅜″-dia. copper tip. Chrome plated metal parts. Has cooling baffle; stand. 12⅞″ long. For 110-120 v., AC-DC. 2¼ lbs.
26 D 1504. 1-5................Each 9.10
6-Up.........................Each 8.65

[D] MODEL 3158—200 WATTS
For medium-heavy work. ⅝″ copper tip. With stand. Overall length, 13⅝″. For 110-120 v., AC-DC. Wt., 3 lbs.
26 D 1501. 1-5................Each 11.20
6-Up.........................Each 10.65

[E] MODEL 3178—300 WATTS
For special production-line applications. ⅞″ copper tip. 14⅜″ long. With stand. For 110-120 v., AC-DC. 4 lbs.
26 D 1887. 1-5................Each 14.70
6-Up.........................Each 13.95

REPLACEMENT ELEMENTS

Stock No.	Mfr's Type	For Iron	EACH
26 D 1888	9270	3114	3.30
26 D 1890	9272	3128	3.50
26 D 1892	9273	3138	4.00
26 D 1893	9275	3158	5.60
26 D 1894	9277	3178	7.50

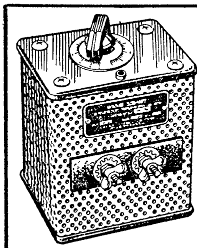
COPPER-NICKEL PLATED TIPS
*Diamond; †Chisel; §Screwdriver. 3 oz.

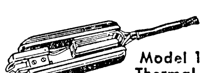
Stock No.	Mfr's Type	Shape	For Iron	EACH
26 D 1515	3728	*	3114, -25, -28	.39
26 D 1895	3728S	†	3114, -25, -28	.39
26 D 1505	3738	*	3138	.56
26 D 1896	3738S	§	3138	.56
26 D 1503	3758	*	3158	1.33
26 D 1897	3758C	†	3158	1.33
26 D 1898	3778D	*	3178	2.52
26 D 1899	3778	†	3178	2.52

"PARAGON" IRON-CLAD TIPS

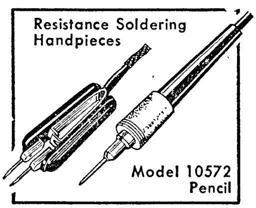
26 D 1900	67D	*	3114, -25, -28	1.40
26 D 1901	67S	†	3114, -25, -28	1.40
26 D 2123	43D	*	3138	1.75
26 D 1906	56	§	3138	1.75
26 D 2124	44D	*	3158	2.66
26 D 1907	44C	†	3158	2.66
26 D 1908	45D	*	3178	4.55
26 D 1909	45C	†	3178	4.55

Wassco® Division of American Beauty


Model 105-A3 Power Unit


Model 10544 Thermal Wire Stripper

Resistance Soldering Handpieces


Model 10541 Tweezers
Model 10572 Pencil

SOLDERING HANDPIECES AND POWER UNIT

MODEL 10541 TWEEZERS. For resistance soldering. Use with 105-A3 Power Unit, at right. 5″ long. 4-ft. lead. .078″ electrode dia. 0 to ⅜″ between electrodes.
26 D 1960. .... 15.00

MODEL 10572 PENCIL. For resistance soldering. Use with 105-A3 Power Unit, at right. Single carbon. 6″ long. 4-ft. lead. ⅛″ electrode dia. 1 lb.
26 D 1961 .... 9.75

MODEL 10544 THERMAL WIRE STRIPPER. Strips thermoplastics from wires up to 18-ga. Use with 105-A3 Power Unit, at right. Adjustable. 4½″ long. 1 lb.
26 D 1967.. .... 15.00

MODEL 105-A3 POWER UNIT. For all units at left. Adjustable 0-100 watt output. For 110-120 v., AC. 4x5x5″. 6½ lbs.
26 D 1971 .... 34.48

REPLACEMENT PARTS

26 D 1977. 10545 Element. For 10544 Stripper, at left. Pkg. of 2. Wt., 1 oz...... .60

26 D 1979. 10542 Electrode. For 10541 Tweezer, at left. 2 oz............... .48

26 D 1982. 10524 Electrode. For 10572 Pencil, at left. 2 oz................ .27

26 D 2460. 10519 Footswitch. For 105-A3 Power Unit, above. 12 oz..........7.75

FOR PERSONAL PURCHASES...

Shipping Information On Cash Orders

HOW TO ESTIMATE PARCEL POST CHARGES

PARCEL POST. We limit Parcel Post shipments to 40 lbs. and 100 inches—length plus girth (measurement around widest point). High-value and fragile shipments are sent by Truck or Express even when they fall within Parcel Post limits. Non-mailable items have "U" or "Z" at end of Stock No. Parcel Post rates in table below are current, but subject to change without prior notification.

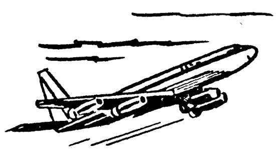
Up to 16 ounces, all zones, allow 4¢ for first 2 ounces, 2¢ for each additional ounce

The post office charges a fraction of a pound as a full pound. For example, if the total weight is 5 pounds and 1 ounce to Zone 4, postage would be for 6 pounds (80¢).

WEIGHT 1 Lb. and Not Exceeding	Chicago	1st & 2nd Zone up to 150 mi.	3rd Zone 150 to 300 mi.	4th Zone 300 to 600 mi.	5th Zone 600 to 1000 mi.	6th Zone 1000 to 1400 mi.	7th Zone 1400 to 1800 mi.	8th Zone Over 1800 mil.
2	$0.29	$0.40	$0.42	$0.46	$0.52	$0.59	$0.66	$0.72
3	.31	.46	.49	.55	.64	.73	.83	.93
4	.33	.51	.55	.64	.75	.88	1.01	1.13
5	.35	.57	.62	.72	.87	1.02	1.18	1.34
6	.37	.62	.68	.80	.97	1.15	1.34	1.53
7	.39	.68	.75	.88	1.07	1.28	1.50	1.73
8	.41	.73	.81	.95	1.18	1.41	1.66	1.92
9	.43	.78	.87	1.03	1.28	1.53	1.82	2.12
10	.45	.83	.93	1.10	1.38	1.66	1.98	2.31
11	.47	.88	1.00	1.18	1.48	1.78	2.14	2.48
12	.49	.93	1.06	1.26	1.58	1.90	2.29	2.66
13	.51	.98	1.12	1.33	1.69	2.02	2.44	2.83
14	.53	1.03	1.18	1.41	1.79	2.14	2.60	3.01
15	.55	1.08	1.24	1.48	1.89	2.25	2.75	3.18
16	.57	1.13	1.30	1.56	1.99	2.37	2.90	3.36
17	.59	1.18	1.36	1.64	2.09	2.49	3.06	3.53
18	.61	1.23	1.42	1.71	2.20	2.61	3.21	3.71
19	.63	1.28	1.48	1.79	2.30	2.73	3.36	3.88
20	.65	1.32	1.54	1.86	2.40	2.85	3.51	4.06
For Each Extra Lb.	Add 2¢	Add 4¢	Add 5¢	Add 7¢	Add 9¢	Add 12¢	Add 15¢	Add 18¢

Over 20 pounds shipped truck or express. See below.

HOW TO ESTIMATE AIR PARCEL POST CHARGES

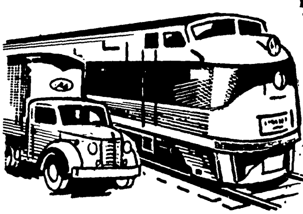


We will ship your order by Air Parcel Post, Air Express or air freight on your instructions. Air Parcel Post rates below. Consult your local Express office for Air Express charges, and commercial airport office for air freight rates. Air freight and Air Express charges collected on delivery. Air Parcel Post size and weight limitations are 70 lbs., and 100 inches (length plus girth).

AIR PARCEL POST RATES (8¢ per ounce, up to 8 ounces)

ZONES	1, 2 & 3	4	5	6	7	8	U.S. Territories, Possessions,
1st Lb.	68¢	73¢	78¢	83¢	83¢	88¢	APO & FPO San Francisco,
For Each Extra Lb.	Add 48¢	Add 50¢	Add 56¢	Add 64¢	Add 72¢	Add 80¢	80¢ per lb., plus 8¢; APO & FPO New York, 56¢ per lb., plus 22¢

ABOUT FREIGHT AND EXPRESS SHIPMENTS



"U" or "Z" at end of Stock No. designates an unmailable item, (examples: 11 D 2501 U; 11 D 2601 Z; 13 D 2532 CU, etc.)

TRUCK AND RAIL FREIGHT

Freight is the cheapest form of transportation for heavier shipments (the minimum charge is for 100 lbs.). Truck shipment is especially economical on shipments of about 70 lbs. or more. Freight charges are collected on delivery; please do not send money for charges with your order.

EXPRESS

Fastest way to ship unmailable items. Remit full amount for merchandise but do not send money to cover Express charges, which are collected on delivery.

INSURANCE

To protect you from loss, we insure all shipments (except freight and express, which are insured by the carriers) with a dependable private insurance company. Please be sure to allow for insurance charges at the following rates:

Up to $15.00.............20¢
$15.01 to $50.00..........30¢
$50.01 to $100.00.........40¢
$100.01 to $150.00........50¢
$150.01 to $200.00........60¢

For your personal convenience Allied offers a

CREDIT FUND PLAN
NO MONEY DOWN

• LOW MONTHLY PAYMENTS • UP TO 2 YEARS TO PAY

FOR FULL DETAILS SEE REVERSE SIDE

Be Sure to Include Your ZIP CODE in Your Return Address

CF-670

IMPORTANT NEWS FOR ALLIED CUSTOMERS!

NO MONEY DOWN . . . For Anything You Buy on an ALLIED Credit Fund Account

**FOR ONLY $5 MONTHLY YOU CAN BUY UP TO $100.00—
AND FOR $25.00 MONTHLY YOU CAN BUY UP TO $600.00**

Just Say "Charge It" and We Will Open an Allied Credit Fund Account For You

Get These 8 Outstanding Advantages . . .

1. **No money down**—Allied makes it easier to buy than ever! Nothing to pay for 30 days.
2. **You can take up to two years to pay.**
3. **Continuous buying power**—your Allied Credit Fund is like a lump sum deposit of money invested by Allied in your good faith, set aside in your name and ready for use by you alone at any time.
4. **Big buying power**—for only $5 monthly you can buy up to $100.00.
5. **Permanent and self-replenishing**—whenever you buy at Allied, you draw out of your Credit Fund, but every payment you make goes back into your Credit Fund ready for you to use over again.
6. **Make add-on purchases anytime -- just say, "Charge It".**
7. **You always know where your account stands**—you get a full statement each month. No complicated records to keep.
8. **Best credit terms in the electronics industry.**
   Plus Benefits: A single low monthly payment brings you anything Allied sells. All you pay is a small monthly service charge, which is automatically reduced every time you make a payment. No service charge at all if paid in 30 days.

Here's How Allied's Credit Fund Works . . .

When you first open an Allied CREDIT FUND account, we set up a Credit Fund in your name. It allows you a definite amount which we set aside in a lump sum credit deposit for your personal use. Buy anything you want.

You always know exactly how much more credit is available to you. Under the CREDIT FUND Plan, you can enjoy top buying power for low monthly payments. Example: A monthly payment of $20.00 buys up to $480.00.

• To Open Your Credit Fund Account...

To enjoy the advantages of an Allied CREDIT FUND account, fill in application on back of our order blank—send it in with your order.

• Low Monthly Payments...

You can use all or any portion of the amount in your Fund. Your monthly payments depend on the amount you use (see Table at right).

Each time you buy, you draw against your Fund, but each payment you make goes toward building up more and more credit because you are continually replenishing the Fund. This means you can "add-on" new orders at any time—up to the full amount of your Credit Fund.

• Only Your Signature on "Add-on" Orders...

You can "add-on" orders at any time for the unused amount in your Fund with no money down. Just sign your order in the space provided (minimum order $10.00). Determine your monthly payment in the following way:

1. Add amount of "add-on" order to your present unpaid balance.
2. See Table at right to find monthly payment for new unpaid balance.
3. If the monthly payment is the same or less than the amount you are currently paying, no change in your monthly payment is required.
4. If monthly payment for your "add-on" order, plus your present unpaid balance is more than you currently pay, we will show the new monthly payment on your next statement.

• Simplest, Easiest Plan...

Because you get a detailed personal statement each month, you don't have to bother with bookkeeping. You can check accuracy in seconds. Allied's CREDIT FUND Plan is the last word in low-cost convenience.

No application accepted from persons under 21 years of age.

Have Everything You Want or Need in Electronics—Open an Allied Credit Fund Today or Send an "Add-on" Order

CREDIT FUND PAYMENT TABLE

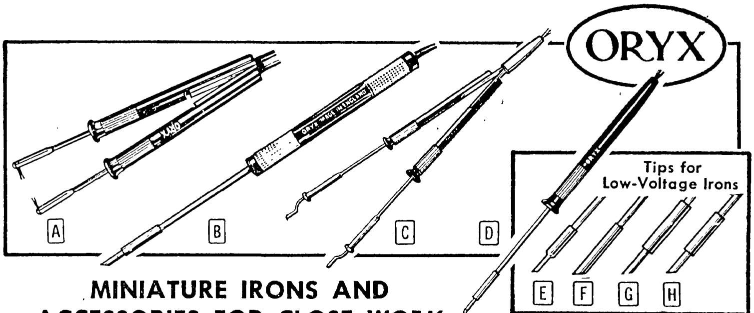
Monthly Payment Only	Unpaid Balance (Total amount less any payment) Buys Up To
$5	**$100**
$6	**$120**
$7	**$140**
$8	**$160**
$9	**$180**
$10	**$200**
$11	**$220**
$12	**$240**
$13	**$260**
$14	**$280**
$15	**$310**
$16	**$340**
$17	**$370**
$18	**$400**
$19	**$440**
$20	**$480**
$21	**$500**
$22	**$525**
$23	**$550**
$24	**$575**
$25	**$600**
$26	**$625**

Over $625—Monthly payments will be in proportion to amounts on chart.

Small Service Charge. Only a small service charge of 1½%, minimum 50c, is added to your monthly balance. There are no other charges. Your monthly statement shows exactly what you pay, what you owe and how much unused credit you have.

APPLICATION BLANK IS ON THE REVERSE SIDE OF ORDER BLANK

Oryx, Antex and Weller Soldering Equipment



MINIATURE IRONS AND ACCESSORIES FOR CLOSE WORK

[A] ST-18 THERMAL WIRE STRIPPER

For medium temp. insulation; up to 3/16". 25 watts; 550°F. For 12 v. AC-DC. 10 oz.
26 D 1114. 1-11 Ea. 14.65 12-Up Ea. 14.16

[B] MODEL 115-10W MINIATURE IRON

10 watts. Heats to 672° F. in 70 sec. With "J" copper 3/32" tip. Only 8¼" long. For 110-120 v., 50-60 cycle AC. From England. 6 oz.
26 D 1506. 1-11 Ea. 6.81 12-Up Ea. 6.32
26 D 1983. Type J Tip..........Each 1.52

MODEL 115-15W. As above, but 15 watts. "K" copper 3/16" tip reaches 717° F. in 50 sec.
26 D 1507. 1-11 Ea. 6.81 12-Up Ea. 6.32
26 D 1984. Type K Tip..........Each 1.67

[C] SOLDERING TWEEZERS

TW-12 HEAVY-DUTY TYPE. For radio, TV, telephone and switchboards. 25-watt. 1/8" replaceable tips. 8" long. 625° F. temp. For 12 v., AC-DC. Wt., 2 oz.
26 D 1990. 1-11 Ea. 14.65 12-Up Ea. 14.16

[D] LOW-VOLTAGE SOLDERING IRONS

For miniature work. 6" long. Tip size and temperature: Model 6A, 3/32", 690°F; 9-6, 5/32", 750°F; 12-6, 3/16", 700°F; 25-12, 3/16", 1000°F. All are 6-volt and have actual weight of ¼ oz., except: 12-6, ½ oz.; 25-12, 12-volt, 1 oz. Transformer below. *Tip Figure. From England. 2 oz.

Stock No.	Model	*	W	1-11 EA.	12-Up EA.
26 D 1535	6A	E	6	5.34	4.85
26 D 1536	9-6	G	8.3	5.34	4.85
26 D 1537	12-6	F	12	5.34	4.85
26 D 1573	25-12	H	25	7.84	7.40

REPLACEMENT TIPS

For irons, above. All are nickel-plated copper alloy. *Pure nickel end. Av. wt., 2 oz.

Stock No.	Fig.	For Model	Dia.	EACH
26 D 1540	E	6A, 9-6	3/32"	.49
26 D 1541	G	9-6	5/32"	.49
26 D 1548	F	12-6	3/16"	.49
26 D 1560	H*	25-12	3/16"	1.81
26 D 1575	F	25-12	¼"	2.30

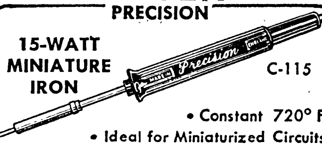
STEP-DOWN TRANSFORMER FOR LOW-VOLTAGE IRONS

- Combination 6 and 12-Volt Transformer
- Handles Up To 35-Watt Soldering Irons

Designed for use with any 6 or 12-volt Oryx or Antex iron. Handles irons of up to 35-watt capacity. With on-off indicator light; 6-ft., 2-conductor cord and plug. For 117 v., 60 cycle AC. 2 lbs.
26 D 2511......................6.29

ANTEX PRECISION

15-WATT MINIATURE IRON



- Constant 720° F
- Ideal for Miniaturized Circuits

MODEL C. A feather-light miniature 15-watt soldering iron. Weighs less than an ounce. Never any operator fatigue. Heats to operating temperature in 45 seconds. Has 50-megohm insulation between element and tip to help prevent damage in close quarters on semi-conductor work. Bright yellow handle remains cool . . will not burn or char on contact with other irons. Sealed element assures constant temperature. Only 6½" long. Plug has strain-relief. Choice of 2 or 3-prong Hubbell plug. For 110-120 v., 50-60 cycle AC. From England. Less tips, below. 3 oz.
26 D 2461. Iron with 2-Prong Plug.
1-5..Each 5.80 6-Up......Each 5.30
26 D 2462. Iron with 3-Prong Plug.
1-5....Each 6.10 6-Up....Each 5.60

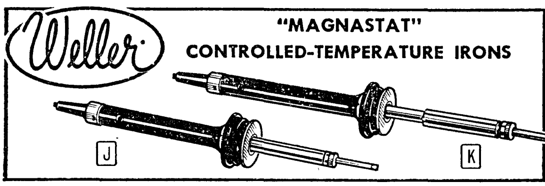
NICKEL-PLATED TIPS

Stock No.	Type	Size	EACH 1-49	EACH 50-Up
26 D 1474	Spade	3/64"	.54	.49
26 D 1283	Spade	3/32"	.54	.49
26 D 1287	Chisel	3/32"	.54	.49
26 D 2464	Pyramid	3/32"	.54	.49
26 D 1857	Spade	5/32"	.54	.49

IRON-PLATED TIPS

Stock No.	Type	Size	EACH 1-49	EACH 50-Up
26 D 1861	Spade	3/64"	1.18	1.08
26 D 1290	Spade	3/32"	1.18	1.08
26 D 1293	Chisel	3/32"	1.18	1.08
26 D 1294	Chisel	5/32"	1.18	1.08

Weller "MAGNASTAT" CONTROLLED-TEMPERATURE IRONS



Magnastat sensing device in tip automatically maintains correct soldering temperature. Never any "peaks" or "lows" to cause faulty soldering. Half the weight of uncontrolled irons. More reliable—less down-time. Never overheats—saves current when idling. Much less tip redressing; reaches full heat quickly; rapid heat-transfer; delicate balance for precision soldering. Tip retaining-nut minimizes tip freezing, seals tip-receptacle from flux fumes. Rubber shock absorber protects handle and prevents iron from sliding off bench. Cool, impact-resistant plastic handle designed for extra strength and cooler handling. Rugged, nonarcing switch. Both irons accept 600°F, 700°F, or 750°F tips, but only 700°F tips for regular work are listed at right. Lengths: Model TC552, 8 3/16"; Model TC602, 9 5/16". Metal iron-holder stand is included with Model TC602. Less tips and cords at right. For 110-120 volt, 60 cycle AC.

"MAGNASTAT" CONTROLLED-TEMPERATURE IRONS

Model TC552 is for light soldering; Model TC602 is for medium.

Stock No.	Mfr's Type	Fig.	Watts	Wt., Oz.	EACH 1-11	EACH 12-49	EACH 50-Up
26 D 1667	TC552	J	55	3	5.32	4.73	4.25
26 D 1668	TC602	K	75	3½	5.52	4.90	4.41

WELLERTIPS FOR "MAGNASTAT" SOLDERING IRONS

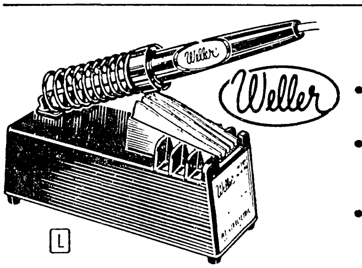
Premium iron-plated copper. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Description	For Model	EACH 1-11	EACH 12-49	EACH 50-Up
26 D 1671	5-D1N	3/16" Screwdriver	TC552	.56	.49	.44
26 D 1672	5-C1N	1/8" Screwdriver	TC552	.56	.49	.44
26 D 1673	6-E1N	¼" Screwdriver	TC602	1.12	.98	.88
26 D 1674	6-D1N	3/16" Screwdriver	TC602	1.12	.98	.88

CORDS FOR "MAGNASTAT" SOLDERING IRONS

*Standard type; †Industrial type. With plugs. Av. wt., 5 oz.

Stock No.	Type	Description	EACH
26 D 1511	CS40	*6-ft. 2-wire for TC552, TC602	.73
26 D 1512	CS50	†6-ft. 3-wire for TC552, TC602	1.47



CONTROLLED-TEMPERATURE LOW-VOLT PENCIL

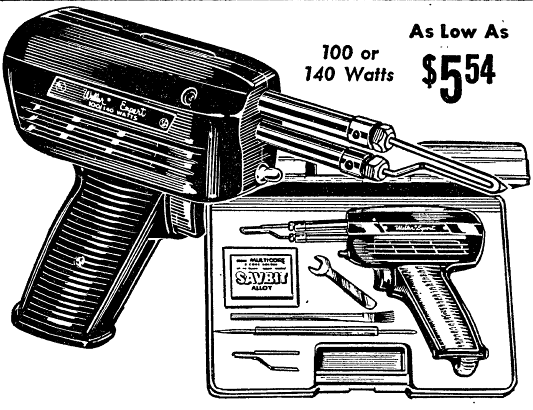
- Temperature Automatically Tip Controlled
- Power Unit Supplies 24 Volts for Operator Safety, Component Protection
- Convenient Iron Stand and Tip-Cleaning Sponge Attached to Power Unit

[L] MODEL W-TCP. 60-Watt unit with accurate temperature control plus low-voltage power unit for double protection of vital components. Pencil length, 7½". Power unit, 2x3x6". With 3/16" 700° iron-plated tip. For 110-120 v., 50-60 cycle AC. 4 lbs.
26 D 2051. 1-5..Ea. 19.11 6-23..Ea. 16.95 24-Up...Ea. 15.29

IRON-PLATED ACCESSORY TIPS

Stock No.	Mfr's Type	Description	EACH 1-5	EACH 6-23	EACH 24-Up
26 D 2052	PT-A6	1/16" Screwdriver, 600°F	.56	.49	.44
26 D 2053	PT-B6	3/32" Screwdriver, 600°F	.56	.49	.44
26 D 2054	PT-C6	1/8" Screwdriver, 600°F	.56	.49	.44
26 D 2056	PT-A7	1/16" Screwdriver, 700°F	.56	.49	.44
26 D 2070	PT-B7	3/32" Screwdriver, 700°F	.56	.49	.44
26 D 2071	PT-C7	1/8" Screwdriver, 700°F	.56	.49	.44

Dual-Heat Soldering Equipment



8200PK "EXPERT" SOLDERING GUN KIT

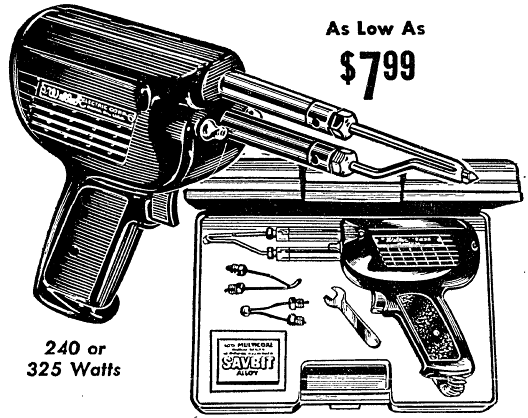
- Includes Everything Needed for Professional Soldering
- Compact and Lightweight to Minimize Fatigue

Complete, low-cost soldering gun kit provides everything necessary for doing fast, professional soldering work. Includes: Model 8200, U.L. Listed, 100/140-watt dual-heat soldering gun; three basic soldering gun tips; tip-changing wrench; cleaning brush; solder-aid tool; and coil of all-purpose solder —all housed in a break-proof plastic utility case. Versatile dual heat gun provides high and low temperatures for greater soldering convenience and longer tip life. Durable, solid copper tip assures superior heat transfer. Gun's compact design and perfect balance help lessen operator's fatigue. Also features pre-focused spotlight to illuminate work area. For 110-120 v., 60 cycle AC. Shpg. wt., 3½ lbs.

26 D 2059. 1-2.............................Each 5.88
3-Up...Each 5.54

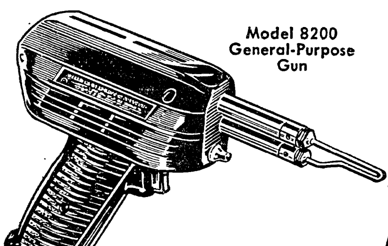
D-550PK HEAVY-DUTY PROFESSIONAL SOLDERING GUN KIT COVERS MOST JOBS IN PLANT OR SHOP

- Includes Weller Model D550 240/325-Watt Dual Heat Gun
- With 3 Tips, Wrench, Solder and Helpful Instruction Book



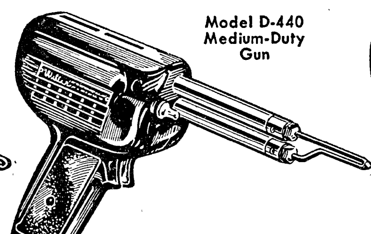
Versatile soldering kit for professional, heavy-duty applications in the shop or on the production line. Includes: Model D-550, U.L. Listed, heavy-duty 240/325-watt soldering gun; 3 tips for varied kinds of work (soldering, smoothing, cutting); tip-wrench; coil of all-purpose solder; and helpful instruction book on soldering—all in an unbreakable plastic utility case. Durable, solid copper tip provides greater heat transfer. Built-in, pre-focused spotlights illuminates work. Gun is compact, lightweight and perfectly balanced for maximum operator comfort. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

26 D 2057. 1-2.................................Each 9.55
3-Up...Each 7.99



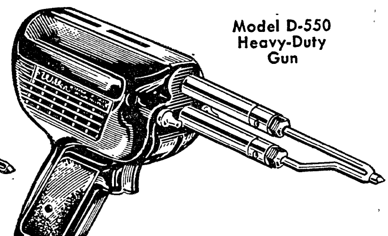
Model 8200
General-Purpose
Gun

Operates at 100
and 140 Watts



Model D-440
Medium-Duty
Gun

Operates at 145
and 210 Watts



Model D-550
Heavy-Duty
Gun

Operates at 240
and 325 Watts

WELLER DUAL-HEAT SOLDERING GUNS FOR ALL APPLICATIONS

MODEL 8200 GUN. "Triggermatic" control instantly selects 100 or 140-watt heat to best fit job; provides soldering convenience, longer tip life. High efficiency tip assures maximum heat transfer; exclusive action of tip nuts eliminates resistance and oxidation. Pre-focused spotlight. Lightweight—may be used for hours without fatigue. U.L. Listed. For 110-120 v., 60 cycle AC. Wt., 2¼ lbs.

26 D 2058. 1-2.................Each 4.56
3-11......Each 4.26 12-Up.......Each 4.07

CHISEL-POINT TIPS

2 per Pkg. Av. shpg. wt. per pkg., 3 oz.

Stock No.	Type	Use With Models	PKG.
26 D 1476	7135	WS-100, WD-135, S-400, D-440, 8200	.25
26 D 1475	7250	WS-200, WD-250, S-500, D-550, 8250A	.35
26 D 1477	7300	S-107, D-207, not interchangeable with above.	.25
26 D 1209	8125	8100B, 8200	.35

MODEL D-440 GUN. Medium-duty, dual-heat gun for professional and shop uses. "Triggermatic" control selects 145 or 210-watt heat. Has long-life, high efficiency copper tip with long reach for those hard-to-get-at places. Dual, pre-focused spotlights brilliantly illuminate work; eliminate shadows for more exact soldering. Use with smoothing and cutting tips, below, for furniture repair, cutting tile, and many other jobs. U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

26 D 1497. 1-2.................Each 7.30
3-11.......Each 6.52 12-Up.....Each 6.12

VERSATILE ACCESSORY TIPS

*Cutting; †smoothing. Av. shpg. wt., 3 oz.

Stock No.	Type	For Models	EACH
26 D 1516	6110*	WS-100, WD-135, S-400, D-440	.35
26 D 1517	6120†	8100(B), 8200	.35
26 D 1518	6130*	WS-200, S-500,	.35
26 D 1521	6140†	D-550, 8250A	.35

MODEL D-550 GUN. Heavy-duty soldering gun, perfect for service shops, production lines, and other demanding jobs. Trigger switch permits selection of either 240 or 325-watt heats depending on job needs; tip life is prolonged by using just the right amount of heat for the job. Has air-cooled transformer—gun stays amazingly cool after hours of use. Dual spotlights illuminate area, make precise work easier. With high efficiency copper tip. U.L. Listed. For 110-120 v., 60 cycle AC. 3½ lbs.

26 D 1496. 1-2.................Each 7.88
3-11.......Each 7.15 12-Up.....Each 6.76

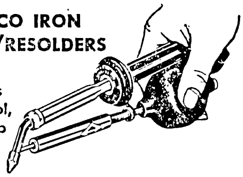
WELLER REPLACEMENT PARTS

*Tip nut; †switch. Av. shpg. wt., 3 oz.

Stock No.	Type	Use With Models	EACH
26 D 1491	7325*	D-440, S-440, 8100, 8200, 8100B	.15
26 D 1494	7417*	D-550, S-500, 8250A	.15
26 D 1492	7323†	All Single-heat type	1.22
26 D 1493	7324†	All Dual-heat type	1.37

Soldering Accessories and Welding Equipment

NEW! ENDECO IRON DESOLDERS/RESOLDERS



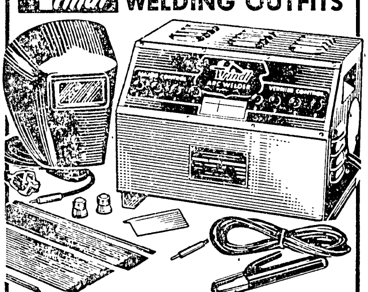
Do Both Jobs With One Tool, Use Same Tip

- Vacuum Pick-Up of Melted Solder
- Easy, Error-Free One-Hand Operation
- Weller Magnastat Heat-Sensing Device

MODEL 100A. Desolders, then resolders without changing tips. Heats-up in just 2 minutes—can't overheat with sensing-device tip. Compact for one-hand operation, clear view of work. Makes clean holes. Replaceable tip. 8". 2-wire cord. 75W. 110-120V. 60-cycle AC. 10 oz.
26 D 3050. 1-24 Ea. 18.75 25-Up Ea. 16.65
Model 100A3. As above, but 3-wire cord.
26 D 3051. 1-24 Ea. 20.95 25-Up Ea. 18.75

26 D 3052. Standard Tip........Pkg./3 1.95
26 D 3053. Heavy-Duty Tip.....Pkg./3 1.95
26 D 3054. Snorkel Fine Tip.....Pkg./3 2.25
26 D 3055. Extra-Fine Tip.......Pkg./3 3.00

Trindl **COMPLETE ARC-WELDING OUTFITS**



125-Amp Heavy-Duty Outfit

- Handles 5/32" Rods on 1/2" Thick Metal
- Offers Choice of 16 Heat Stages
- 35 Primary Amps, 75% Power Factor

MODEL 125A-11A5. Excellent heavy-duty welding outfit for factories, garages, farms. Offers 16 instant-heat stages ranging from 20 to 125 amps. Dual-coil construction. Primary amps, 35. Has continuous manual duty cycle. Power factor, 75%. Arc volts, 25-30. Welded metal cabinet in gray, heat-resistant baked enamel. 12¼x16x11½". With head shield, welding, ground and power cables, assorted electrodes, electrode holder, ground clamp, 3-prong plugs, instructions. For 115 v., 50/60 cycles AC. Shpg. wt., 82 lbs.
26 D 1115 Z....................96.53

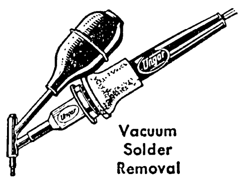
80-AMP PORTABLE OUTFIT

- Handles 3/32" Rods on 1/4" Thick Metal
- Offers Choice of 9 Heat Stages
- 29 Primary Amps, 80% Power Factor

MODEL 80A-11A4. Portable, industrial-type welding outfit offers 9 heat stages ranging from 20 to 80 amps. Dual-coil construction. Primary amps, 29. Power factor, 80%. Arc volts, 25. Welded metal cabinet in gray, baked-enamel. 9¼x12½x9¼". With head shield, ground, power and welding cables, electrode holder, assorted electrodes, ground clamp, 3-prong plugs, and easy instructions. For 115 v., 50/60 cycles AC. Shpg. wt., 39 lbs.
26 D 1116 U.................. 68.11
26 D 1576 X. D-17 Carbon Arc Torch. Maintains 9000°F arc. Increases skill of any arc welder. Wt., 4 lbs......17.95

Ungar

MODEL 7800 HOT-VAC DESOLDERING TOOL



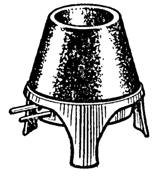
Vacuum Solder Removal

- Excellent for Printed Circuit Work
- Special Coating Keeps Tip Unclogged
- May Be Used On Heat-Shrinkable Tubing

MODEL 7800. Provides fast, safe three-fingered desoldering and cleaning that is best for working with intricate printed circuits. Has lightweight Model 777 Handle of heat-resistant, fatigue-free plastic. Both miniature and standard desoldering is made easier by vacuum bulb. Much longer trouble-free performance—special coating prevents solder from adhering to tip and clogging orifice. Usable with heat-shrinkable tubing. For 110-120 v. AC-DC.
26 D 1028. 10 oz. 1-5...........Each 9.75
6-11.....Each 7.95 12-Up.....Each 7.45

LECTROHM

SOLDER POTS



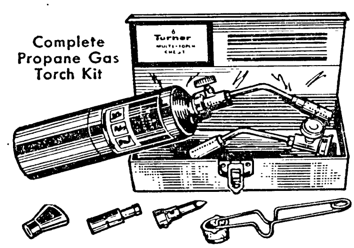
- For Dip-Solder Jobs
- Heating Elements are Replaceable
- Ideal for Production Line use

Rugged low-cost pots for small dip-solder-ing jobs. Ideal for use on production lines and in shops. Helpful aids in stepping up production—perfect for tinning wires and component leads. Sizes: SP-200, 2¾x2⅜x⅞" deep; SP-250, 3¾x2x1¾" deep. Supplied complete with power cord. Pot capacity: SP-200, 1¾ lbs.; SP-250, 2 lbs. For 110-120 v. AC or DC. Shpg. wt., 3½ lbs.

Stock No.	Mfr's Type	Watts	EACH
26 D 1553	SP-200	200	6.95
26 D 1554	SP-250	250	6.95

REPLACEMENT ELEMENTS. Composed of nickel-chrome wire.
26 D 1555. Type A. For SP-200.......2.35
26 D 1557. Type B. For SP-250........2.35

Turner



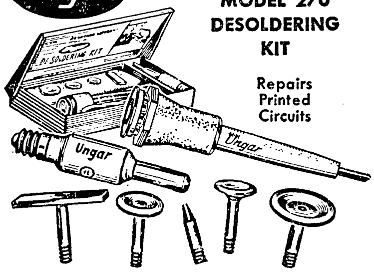
Complete Propane Gas Torch Kit

MODEL LP-99 GAS TORCH KIT

Sweat fittings, solder and bend metal. Attachments for light and heavy-duty work. Brass torch has valve with drag spring on knob. Kit consists of: pencil-point burner; heavy-duty burner that provides larger flame; brass flame spreader; copper chisel-point solder tip; tank of fuel; spark lighter; steel case, 3x10¼x6". U.L. Listed. 4½ lbs.
26 D 1081 X.......................7.49
REPLACEMENT FUEL TANKS. For LP-99, LP-1955. 4¼ lbs. Pkg. of 2.
26 D 1082 X...............Per Pkg. 2.98

Ungar

MODEL 270 DESOLDERING KIT



Repairs Printed Circuits

Includes 776 Handle, 4045 Element; tips—3 cups, slotted, bar; metal case, 1½x7¾x4⅞". For 110-120 v. AC-DC. Shpg. wt., 1¼ lbs.
26 D 1109. 1-5................Each 6.47
6-11.....Each 6.10 12-Up.....Each 5.65

TIPS. For above. Cups for sockets; slotted for tabs, leads. Bar, straight-line; triangle for electrolytics. Offset—close-to-board. Drilled cube for sockets, leads. Wt. 2 oz.

Stock No.	Model	Tip Style
26 D 1414	854	1" Cup
26 D 1415	855	¾" Cup
26 D 1416	856	⅝" Cup
26 D 1108	857	Slotted
26 D 1417	858	Bar
26 D 1418	861	Triangle
26 D 1419	862	Offset Slotted
26 D 1420	863	Drilled Cube

1-9..Ea. .67 10-49..Ea. .57 50-Up..Ea. .51

American Beauty

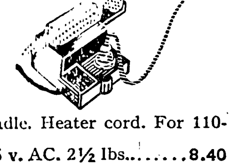
ADJUSTABLE-HEAT SOLDER POTS

- Thermostat Adjusts From 325-750°F
- Crucible Has 2½-lb. Solder Cap.
- 3½" I.D., 1½" Deep; 5½" High, 7" Base.

MODEL 600 SOLDER POT. Cast-iron crucible and base; wrap-around steel casing. Chemically stable crucible holds 2½ lbs. of solder; is center-tapped (5/16-18) and has flared lip. Two 300-watt cartridge elements heat solder to 400° F. in 15 minutes, and to 750° in 25 minutes. Black crackle finish. "Microlite" insulation. 5½x6x1½" deep. 6' cord. 110-120 v., 50-60 cycle AC.
26 D 1916. Shpg. wt., 9 lbs.........27.95
26 D 1918. 602 Dross Skimmer. 4 oz....2.80
26 D 1921. Extra Model 9300 Heating Element. (2 per pot). Shpg. wt., 2 oz......3.50

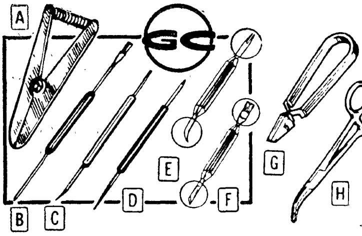
MODEL 300 SOLDER POT. Same as Model 600, but smaller (1 lb. capacity). Two 160-watt heating elements. ¼-20 center tapped. 5⅛x1½x4¾" dia. (2¼" inside). 6½ lbs.
26 D 1104............................26.41
26 D 1106. 302 Dross Skimmer. 4 oz....2.45
26 D 1107. Extra Model 9301 Heating Element. (2 per pot). Shpg. wt., 2 oz......3.50

MODEL 475 TEMPERATURE REGULATING STAND



Adjustable, thermostat controlled. Keeps temperature constant, ends tip burning. Copper cradle. Heater cord. For 110-600 watt irons.
26 D 1508. 125 v. AC. 2½ lbs.........8.40

Soldering Aids, Tools and Solder



G-C SOLDERING AIDS

A **9077 HEAT SINK.** Protects parts from heat. Made of aluminum—solder will not stick. Self-closing; frees hands. 3 oz.
26 D 1742........................**.35**

B **9088 BRUSH.** Wire brush and chrome-tipped holding end. 4 oz.
26 D 1000........................**.98**

C **9076 ANGLE END-TOOL.** 4 oz.
26 D 1729........................**.78**

D **9075 STRAIGHT END-TOOL.** Double ends ream, hold or pry. Chromed. 4 oz.
26 D 1728........................**.78**

E **9093 SOLDERING PROBE.** For printed-circuit work. 8″. 3 oz.
26 D 1586........................**.98**

F **9094 P.C. BOARD BRUSH AND SCRAPER.** Stainless steel brush on one end, steel scraper on other. 8″ overall length. 3 oz.
26 D 1587........................**.96**

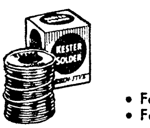
G **MILLER MODEL 80 HEAT SINK**

Spring type. Copper jaws for high heat absorption, cool plastic handles. .06 oz.
26 D 1743........................**.95**

H **XCELITE 6″ "SEIZERS"**

TYPE 42H. Straight nose design. 3 oz.
26 D 1255........................**4.27**

TYPE 43H. As above, but curved-nose design. Shpg. wt., 3 oz.
26 D 1256........................**4.42**



KESTER SOLDERS

Kester "44"

Resin Core Solder

- For High Speed Soldering
- Fast Melting 60/40 Alloy

High-speed solder with fast acting, instant wetting "44" Resin flux core. Despite its activity, flux is non-corrosive, non-conductive. .062″ dia.
26 D 2112. 1-Lb. Spool. 1¼ lbs......**2.31**
26 D 2113. 5-Lb. Spool. 5½ lbs......**11.30**

"RESIN FIVE" CORE SOLDER. With non-corrosive and non-conductive "Resin 5" flux. Coil, 1⁄16″ dia; spool, 3⁄32″ dia. 40% tin, 60% lead; *60% tin, 40% lead.

Stock No.	Size	Spool Wt.	Shpg. Lbs.	EACH
26 D 2826	3⁄32″	1 lb.	1¼	1.65
26 D 2828	3⁄32″*	5 lbs.	5¼	11.15
26 D 1311	1⁄16″*	5 lbs.	5¼	11.15

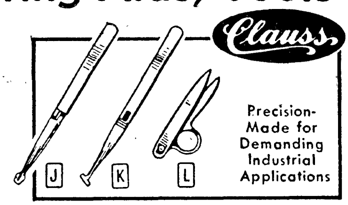
PRINTED-CIRCUIT SOLDER. 60% tin, 40% lead. 1⁄16″ dia. 1¾ lbs.
26 D 1589. 1-Lb. Spool..............**2.31**

ROSIN-CORE SOLDER. Plastic rosin. 3⁄32″ for general-purpose work; 1⁄16″ for delicate. 40% tin, 60% lead; *50-50.

Stock No.	Size	Spool Wt.	Shpg. Lbs.	EACH
26 D 1562	3⁄32″	1 lb.	1¼	1.65
26 D 1590	1⁄16″	1 lb.	1¼	1.69
26 D 1591	1⁄16″	5 lbs.	5¼	8.20
26 D 1581	1⁄16″*	1 lb.	1¼	2.03
26 D 1592	1⁄16″*	5 lbs.	5¼	9.90

ACID-CORE SOLDER. For non-electrical work. ⅛″ dia. 40% tin, 60% lead.
26 D 1572. 1-Lb. Spool..............**1.65**

SOLDERING PASTE. Distributes flux for easier soldering. 2 oz. cans. 5 oz.
26 D 1578. 1-9..................Each **.15**
10-Up..................Each **.13**



CLAUSS SOLDER AIDS, SNIPPER

J **MODEL HS5 HEAT SINK TOOL**

Copper beryllium alloy provides maximum thermal conductivity when soldering. High-luster satin chrome finish resists solder sticking. Length, 5″. Shpg. wt., 2 oz.
26 D 2074........................**2.49**

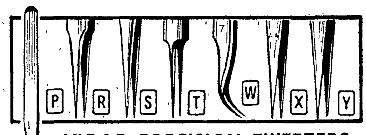
K **MODEL AW ANTI-WICKING TOOLS**

Length, 4½″. *American Wire Gauge. 2 oz.

Stock No.	Size*	EACH
26 D 2076	18	5.33
26 D 2077	20	5.33
26 D 2081	22	5.33
26 D 2083	24	5.33
26 D 2085	26	5.33
26 D 2086	28	5.33
26 D 2088	30	5.33

L **MODEL TC4½ SNIPPER**

Thread snips for light cutting such as insulation and harness. Double plated—chrome and nickel, with stainless steel screw and nut. Length, 4½″. Shpg. wt., 3 oz.
26 D 2104........................**2.50**

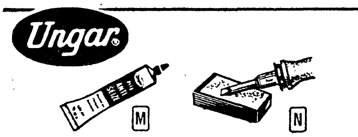


VIGOR PRECISION TWEEZERS

- Precision Designed for Miniature and Microminiature Assembly
- Precise Sharp and Shaped Points

Designed for miniature and micro fine work, assembly operations. Hand ground and finished to perfection. Points are ground flat on the inside. In table: Carbon Steel (C), Stainless Steel (SS) and Carbon Steel Nickel Plated (CNP). Tweezers are illustrated above. Precise sharp and shaped points for almost any application. *Beveled-sharp; **serrated tips; ‡beveled-medium. All others are round-sharp. ½ oz.

Stock No.	Fig.	Type Steel	Total Lgth.	EACH 1-11	EACH 12-Up
26 D 3030	P*	C	4¾″	1.78	1.57
26 D 3031	P*	SS	4¾″	1.99	1.76
26 D 3032	R‡	C	4¾″	1.91	1.68
26 D 3033	R‡	SS	4¾″	2.12	1.87
26 D 3034	S	C	4¾″	1.91	1.68
26 D 3035	S	SS	4¾″	2.12	1.87
26 D 3036	S	C	4¼″	1.91	1.68
26 D 3037	S	SS	4¼″	2.12	1.87
26 D 3038	T	C	4⅜″	2.72	2.40
26 D 3039	T	SS	4⅜″	2.93	2.58
26 D 3040	W	C	4⅜″	2.97	2.62
26 D 3041	W	SS	4⅜″	3.18	2.81
26 D 3042	W**	SS	4⅜″	3.18	2.81
26 D 3043	X*	CNP	4¾″	1.02	.90
26 D 3044	Y*	CNP	5″	1.10	.97



M **ANTI-SEIZE COMPOUND.** Lubricates soldering iron tip threads, reduces possibility of seizure and corrosion. In ½ oz. tube. Shpg. wt., 3 oz.
26 D 1356. 1-9..................Each **.54**
10-99..................Each **.45**
100-Up..................Each **.42**

N **NO. 400 "KLEEN-TIP" KIT.** Insures longer tip life. Removes oxides and excess solder. Consist of specially processed sponge, and phenolic tray and bracket for bench mounting. Shpg. wt., 2 oz.
26 D 1421. 1-9..................Each **.98**
10-99..................Each **.81**
100-Up..................Each **.75**

NO. 455 REFILL SPONGES. Specially processed "Kleen-Tip" sponges for the above No. 400 kit. Shpg. wt., 2 oz.
26 D 1422. 1-9..................Each **.39**
10-99..................Each **.33**
100-Up..................Each **.30**

ERSIN "MULTICORE" SOLDERS

"MULTICORE." Positive action solder. Incorporates highly efficient, non-corrosive Ersin flux in a 5-core pattern running throughout entire length of solder. This unique feature assures uninterrupted flux flow from even the smallest piece of solder—insures instant spreading and gripping. 40% tin and 60% lead. 1-pound spools. From Great Britain. 1½ lbs.

Stock No.	Gauge	PER SPOOL 1-27	PER SPOOL 28-Up
26 D 1594	16	2.67	2.24
26 D 1313	18	2.70	2.27

NEW EXTRA-FINE GAUGE 5 CORE SOLDERS. For micro-miniature applications. Multicore is 60% tin, 40% lead; Eutectic is 63% and 37%. Conforms to Federal spec. no. QQ-S-571. Each package contains four ½-lb. spools. Shpg. wt., per package, 3 lbs.

Stock No.	Type	Gauge	2 LB. PKG.
26 D 3015	Multicore	24 (.022″)	11.57
26 D 3016	Multicore	28 (.014″)	15.29
26 D 3017	Multicore	32 (.0108″)	19.96
26 D 3018	Multicore	34 (.009″)	24.26
26 D 3056	Eutectic	20 (.036″)	7.45
26 D 3057	Eutectic	24 (.022″)	12.12
26 D 3058	Eutectic	28 (.014″)	15.52
26 D 3059	Eutectic	32 (.0108″)	20.15

TIN/LEAD SOLDER. Non-corrosive Ersin flux. 60% tin and 40% lead.

Stock No.	Gauge	Spool Wt.	Shpg. Wt.	EACH
26 D 1730	16	1 lb.	1¾ lbs.	3.34
26 D 1731	16	7 lbs.	8½ lbs.	23.10
26 D 1733	18	1 lb.	1¾ lbs.	3.40
26 D 1735	18	7 lbs.	8½ lbs.	23.52
26 D 1736	20	1 lb.	1¾ lbs.	3.67

SPECIAL ALLOY INDUSTRIAL SOLDERS. Low-melting-point type (L.M.P. in table below), is 62% tin, 36% lead, 2% silver. Melts at 354°F. Recommended for ceramics, printed or etched circuits. H.M.P. high-melting-point type is 5% tin, 93.5% lead, 1.5% silver. Melts at 565°F; has no plastic range. Eutectic 63/37 alloy has no plastic range. Melts at 361°F. Shpg. wt., 1-lb. spool, 1¾ lbs.; 28-lb. carton, 32 lbs.

Stock No.	Type	Gauge	PER SPOOL 1-27	PER SPOOL 28-Up
26 D 2000	L.M.P.	16	5.06	4.26
26 D 2001	L.M.P.	18	5.86	4.92
26 D 2002	L.M.P.	22	7.25	6.09
26 D 2003	H.M.P.	16	4.27	3.58
26 D 2004	H.M.P.	18	4.33	3.63
26 D 2005	Eutectic	16	3.54	2.97
26 D 2006	Eutectic	18	3.60	3.02
26 D 2007	Eutectic	20	3.74	3.14

THOR

Industrially Rated Drills and Drill Bits

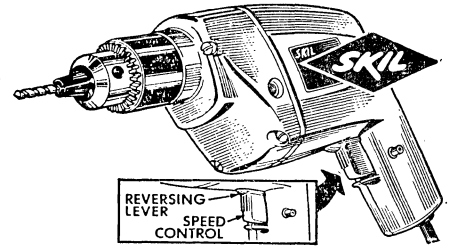
MIDGET-27-OUNCE 1/4" DRILL

MODEL E-110. Half the size of most 1/4" drills, yet has same capacity: 1/4" dia. in steel, 1/2" in wood. Built-in diode feeds *direct current* to 1.5-amp motor for amazing power. Burnoutproof armature. Permanent-magnet stator—no windings to fail. Double-reduction gears, ball-thrust bearings. No load, 1250 rpm; full load, 900. Geared chuck, key 6 7/16" long. 8-ft. 3-wire cord, 2-prong adapter. Less bit. U.L. Listed. For 110-125 v. 25-60 cycle AC.
26 D 1844. Shpg. wt., 3 lbs........**34.50**

NEW! DRIVE-R-DRILLS

OPERATE AT ANY SPEED, IN EITHER DIRECTION

- Speed Control Trigger
- Direction Control Switch
- Available in Three Sizes
- Does Work of Many Tools



Drive! Drill! Tap! Sand! Polish! Grind! Do all this with just one tool—Skil Drive-R-Drill. Drives screws, tightens bolts and removes them, too.. operates in both forward and reverse. Cuts through many materials, takes varied accessories. Match speed to the job or material. Speed control trigger adjusts rpm with just a squeeze—locking button holds speed constant. You easily control both speed and direction with one hand. Has precision helical gears, geared chuck and key, 3-wire cord, plug. Less bit. For 115 volts, AC.

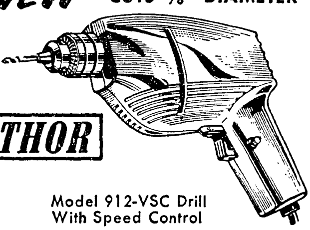
26 D 3161. Model 596. 1/4" capacity in steel, 1/2" in wood. 2.5-amp motor, 0-2000 rpm in either direction. 9". 4 lbs....**24.88**

26 D 3162. Model 597. 3/8" capacity in steel, 3/4" in wood. 3-amp motor, 0-1000 rpm in either direction. Removable side handle. 9 3/4" long. Wt., 4 1/2 lbs......**31.88**

26 D 3163. Model 598. Same as Model 597, except with 1/2" capacity in steel, 1" in wood. 3-amp motor, 0-750 rpm.....**33.88**

NEW **VARIABLE SPEED DRILL CUTS 3/8" DIAMETER**

THOR

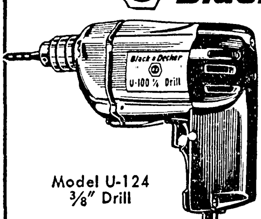


Model 912-VSC Drill
With Speed Control

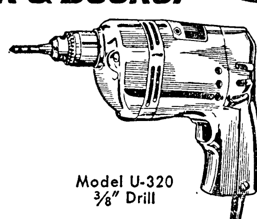
This versatile, easy-to-handle power drill features fingertip continuous speed control variable from 0 to 1900 rpm. Has 3/8" diameter cutting capacity in steel, cuts 3/4" diameter in wood. Functions smoothly with ball-bearing construction and double reduction gears. Powerful 3-amp Therm-O-Weld motor is burnoutproof.

Durable metallic beigetone epoxy finish. Overall, 8 1/2" long. With 6-ft. 3-wire cord and plug, 2-wire adapter. Less bit. U.L. Listed and C.S.A. Approved. For 115 volts, 25-60 cycles AC. Shpg. wt., 4 3/4 lbs.
26 D 3164.................**19.99**

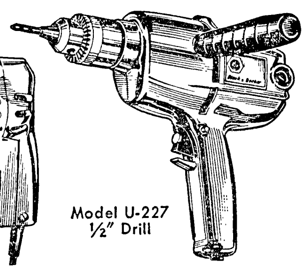
Black & Decker



Model U-124
3/8" Drill



Model U-320
3/8" Drill



Model U-227
1/2" Drill

LOW-COST ALL-PURPOSE DRILL

MODEL U-124. Full-capacity 3/8" drill with double reduction gear system. Designed for general use around house or shop. For metal, plastic or wood. Drilling capacity: 3/8" dia. in steel, 3/4" in wood. 2-amp motor gives 1/7-hp; 1000 rpm, no load. U.L. Listed. For 115 volts AC. Less bit.
26 D 2518. Wt., 3 3/4 lbs...........**13.99**

26 D 2517. Model U-100. As above, except cutting capacity: 1/4" dia. in steel, 1/2" dia. in wood; at 2250 rpm. Wt., 3 1/4 lbs...**9.99**

DRILLS FOR PROFESSIONAL USE

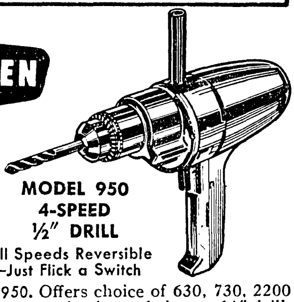
MODEL U-320. Professional-type 3/8" drill geared and powered to handle the hard jobs. Ideal for construction, shop and service trades work. Drilling capacity: 3/8" dia. in steel, 3/4" dia. in wood. 2.2-amp motor develops 1/4-hp; 1000 rpm, no load. U.L. Listed. For 115 volts, AC. Less bit.
26 D 3061. Wt., 3 3/4 lbs...........**34.99**

26 D 3062. Model U-300. As above, except cutting capacity: 1/4" dia. in steel, 1/2" dia. in wood; at 2250 rpm. Wt., 4 lbs....**29.99**

BIG 1/2" CAPACITY DELUXE REVERSIBLE POWER DRILL

MODEL U-227. Professional-quality drill for construction, shop and service trades work. Easy to handle and comfortable to hold; top handle gives extra control. Has a built-in reversing switch in the handle that allows the drill bit to be easily backed out of holes safely—provides protection for operator, drill bit, and hole being drilled. Also permits screw-driving or removing. Drilling capacity: 1/2" dia. in steel, 1" in wood. 4.2 amp motor gives 1/3-hp at 500 rpm. Polished aluminum housing. Less bit. U.L. Listed. 115 v. AC.
26 D 3063. Shpg. wt., 9 lbs........**46.99**

WEN



MODEL 950 4-SPEED 1/2" DRILL

All Speeds Reversible
—Just Flick a Switch

MODEL 950. Offers choice of 630, 730, 2200 or 2400 rpm no-load speeds in one 1/2" drill. All speeds are reversible—just flick a switch. Electronic and gear shift controls select desired speed. 6-amp, 1/2-hp motor drives double-reduction gears to deliver greater torque power for toughest jobs. Welded 24-bar commutator motor-armature is burnoutproof. Trigger switch has locking pin. Capacity: 3/4" dia. in steel, 1" in hardwood. Polished aluminum housing; removable top handle. 11 5/8" long. With 6-ft. 3-wire cord and plug. U.L. Industrially Rated; C.S.A. Approved. Less bit. For 117 volts 60 cycle AC. Shpg. wt., 9 lbs.
26 D 2822 X...................**32.97**

PRECISION HIGH-SPEED DRILL BITS

[A] **60-Drill Set.** Has complete set of drill bits between size 1 (.2280) and 60 (.0400). All precision high-speed drills packed into handy Huot Index case, 4 3/8x3 5/8x2 1/8" overall. Shpg. wt., 1 1/4 lbs.
26 D 2949...........**16.99**

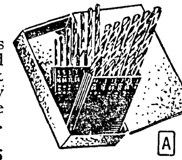
10-Pc. Drill Set. 1/16 to 1/2". 1/4" shanks on bits above 1/4". In metal case, 5 1/4x3 1/2x1 3/8".
26 D 2946. Wt., 9 oz.....**7.49**

13-Pc. Drill Set. 1/16 to 1/4" by 64ths. Metal as above.
26 D 2948. Wt., 9 oz.....**4.49**

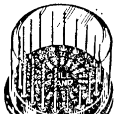
[B] **20-Drill Set.** Includes 20 drills between sizes 61 (.039) and 80 (.0135). Made of highest grade carbon steel. With 4-jaw chuck; 1/8" shank. Complete with Huot index case. Shpg. wt., 6 oz.
28 D 3065.............**7.95**

15-Pc. Drill Set. 1/16 to 1/2" in 32nds. 1/4" shanks on bits over 1/4". Metal index case.
26 D 2947. Wt., 3 lbs...**13.69**

4-Pc. Masonry Set. 1/4", 5/16", 3/8", 1/2" drills; all 1/4" shanks.
26 D 2841. Wt., 5 oz.....**2.95**



[A]

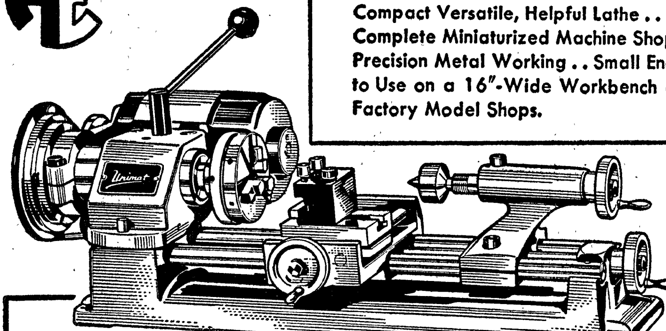


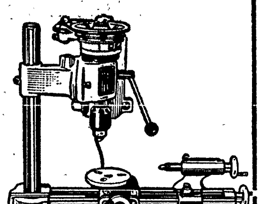
[B]

JOBBER'S-LENGTH HIGH-SPEED DRILL BITS

Stk. No.	Size	EA.	Stk. No.	Size	EA.	Stk. No.	Size	EA.	Stk. No.	Size	EA.
26 D 1756	1/16"	.18	26 D 1765	3/16"	.42	26 D 1761	1/8"	.29	26 D 1611	5/16"	.85
26 D 1758	5/64"	.19	26 D 1766	7/32"	.51	26 D 1762	9/64"	.30	26 D 1612	3/8"	1.22
26 D 1759	3/32"	.20	26 D 1767	15/64"	.52	26 D 1763	5/32"	.35	26 D 2998	7/16"	1.65
26 D 1760	7/64"	.22	26 D 1768	1/4"	.55	26 D 1764	11/64"	.37	26 D 1614	1/2"	1.94

Compact Versatile, Helpful Lathe .. It's a Complete Miniaturized Machine Shop for Precision Metal Working .. Small Enough to Use on a 16"-Wide Workbench or in Factory Model Shops.





Easily Converts, in Seconds, to a Vertical Drill Press

UNIMAT DELUXE MULTIPURPOSE LATHE

All purpose machine shop in one tool. Turns, faces, bores, reams and does other lathe work on pieces up to 3" dia., 6½" between centers. Converts in seconds to precision vertical drill press; does vertical milling and surface grinding. Headstock can be locked at any angle, or used as portable drill. Handles drill press work up to 5" high; drills to center of 6" circle. Also drills into large panels, plates and chassis, by rotating head over end of bed. Speed: 900-7000 rpm. 5x14½x4". With 3-jaw lathe chuck; drill chuck, key, bit; 3-wire cord and plug. Less accessories, below. For 117 v., AC-DC. From Austria.
26 D 1431 U. Shpg. wt., 30 lbs............**139.50**

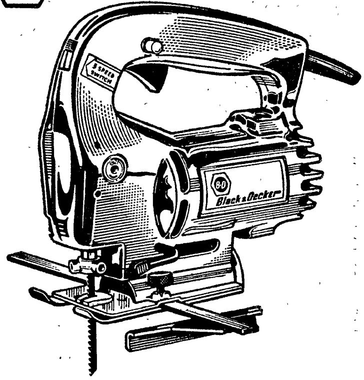
26 D 1679. 1010 Machine Vise. Mounts on cross slide or mill table. 1⅛" jaws. V-shaped. 13 oz..........**7.95**

26 D 1689. 1210 Milling Table. 3x5" T-slotted. 2 sets of clamps. Shpg. wt., 2 lbs.....................**10.50**

26 D 1692. 1100 Hi-Speed ¼" Tool Bits. Shpg. wt., 8 oz. Set of 6..............................Set **9.50**

26 D 1690. 1002 4-Jaw Independent Lathe Chuck. 2¼" capacity. Shpg. wt., 1 lb....................**22.50**

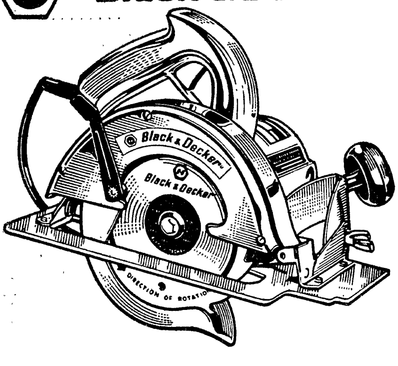
Black & Decker



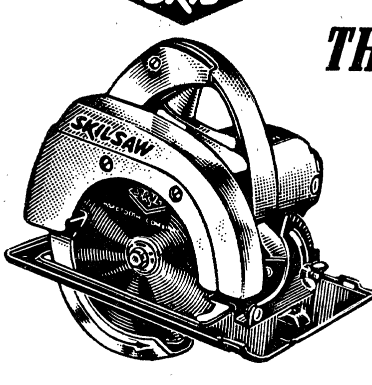
DELUXE 3-SPEED JIG SAW

MODEL U-256. Gives more efficient cutting of most building materials. Choose right speed for material being cut: high cuts wood, composition boards; medium cuts soft sheet metals, pipe; low cuts tile, hard metals. Easy lever control of tilting shoe for bevel cuts. Nylon shoe insert prevents splintering upper wood surfaces. Polished aluminum housing. Includes: combination rip fence and circle cutting attachment, 4 blades (for metal and rough, fine and medium wood cutting) and wrench holder. Capacity: 1" hardwood, 2" softwood; metal (½" bar, ¼" flat). ¼-hp, 2.5-amp motor. SPM: 3000 hi, 2500 med, 2250 low. ⅝" stroke length. For 110-120 volts, AC. Shpg. wt., 5¾ lbs.
26 D 3157 X..................**39.99**

Black & Decker



SKIL



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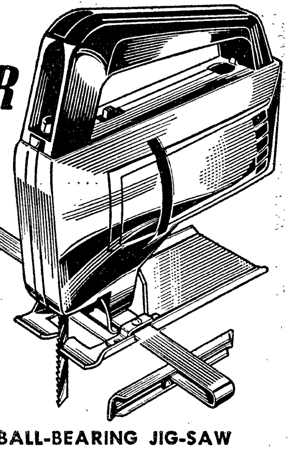


6½" HEAVY-DUTY SAW

MODEL U-336C. Professional-quality saw designed for rugged, day-in, day-out use. Saw boasts a 1-2/5 hp motor for extra power to handle construction, shop work and service trade jobs.

Has lubricant-sealed ball bearings for longer life without maintenance. Air flow clears blade teeth to keep cutting line clear for easy feeding into cut. Follows pattern line perfectly to cut into nearly any building material. Has every modern adjustment.

ML motor wire for burnout protection. Cuts 2³⁄₃₂" at 90°, 1¹³⁄₁₆" at 45°. 5000 rpm, no load. 10 amps. U.L. Listed. For 110-120 v., AC-DC. Shpg. wt., 25 lbs.
26 D 3160 X.................**39.99**

POWERFUL 6½" AND 7¼" SAWS

There's plenty of workpower to spare in these compact, easy-to-handle saws. Handy for shop or home, they cut straight and true through many kinds of materials. Have safety clutch, depth and bevel controls, sawdust ejector and bind-free blade guard. Also with combination blades, wrench, 3-wire cord, plug. UL Listed. 110-120 v., AC.

MODEL 534 1-HP 6½" Saw. Capacity: ¹⁄₁₆-2⅜" at 90°, 1⅞" at 45°. 9-amps; 6300 rpm, no load. Shpg. wt., 9 lbs.
26 D 1207 X..................**27.88**

MODEL 537 Heavy-Duty 1½-HP 7¼" Saw. Has roller and antifriction bearings. Cutting capacity: ¹⁄₁₆-2⅜" at 90°, 1⅞" at 45°. 10-amps; 5150-rpm, no load. 16¼ lbs.
26 D 1208 X.................**39.88**

BALL-BEARING JIG-SAW

MODEL 920. Versatile jig saw quickly and easily makes curves, scrolls, straight and rip cuts. Features rugged ball-bearing construction, adjustable plate for accurate angle cuttings up to 45° on each side.

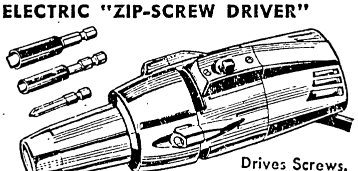
Powerful, burnoutproof 3-amp motor permits saw to cut through 2x4's at a 45° angle. Capacity: ⅛" in steel, 2" in wood. 3000 SPM, no load; ⅝" stroke length. Base tilts up to 45° for easy access to work area.

Durable metallic beigetone epoxy finish. Easy-grip-top handle, rip guide, 3 assorted wood and metal cutting blades. With 6-ft., 3-wire cord and plug. U.L. industrially rated. C.S.A. Approved. For 117 volts, 25-60 cycle AC. Shpg. wt., 5 lbs.
26 D 1201.......................**16.95**

Depend on Allied for Highest Quality Power Tools at Low Prices

Sanders, Sprayers, Grinders, other Shop Tools

SHOPMATE REVERSIBLE ELECTRIC "ZIP-SCREW DRIVER"

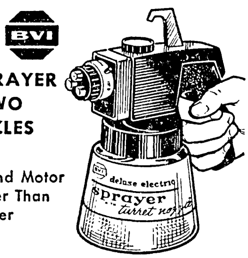


Drives Screws, Removes Them

Powerful, compact and lightweight. Reversible! Perfect for light assembly, building, repairing. 3-amp, welded, fan-cooled motor. Positive clutch for full control. 100-1 gear reduction for high torque, staying power. Drives #4 thru #12 slotted head and Phillips screws. Instant-release on-off switch. 6-ft., 3-wire cord, plug. 2 slotted head finders, Phillips head bit. U.L. Listed. For 117 v., 25-60 cycle AC.

26 D 1200. Shpg. wt., 3¼ lbs....29.95

BURGESS ELECTRIC SPRAYER FEATURES TWO SPRAY NOZZLES

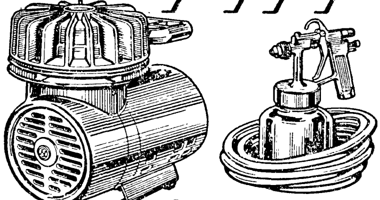


- Built-In Pump and Motor
- Faster, Smoother Than Brush or Roller

MODEL VS-855. A faster, smoother way to do hundreds of spray jobs. It's easy to use, just plug in power cord to spray paint, varnish, enamel, lacquer, insecticides, garden sprays, moth-proofers, etc. Features two genuine sapphire nozzles; one for paint, the other for insecticides and most other liquids. A complete hand-held unit in itself, sprayer boasts a built-in compressor pump and spark-free AC motor. Also has fast-action trigger switch and adjustable spray. Graduated glass jar holds 24 fluid oz. With 6-ft. AC cord, and plug. For 110-120 volts, 60-cycle AC. Shpg. wt., 4½ lbs.

26 D 1715......................11.95

Speedy Sprayer



Compressor

⅓-HP COMPRESSED-AIR SPRAYER

Ideal multi-purpose sprayer for shop or home. Small in size, but outstanding in performance. Extremely versatile, it can be used to spray paint or garden sprays, or to inflate tires. Its small size makes it readily portable—easy to take from one job to another.

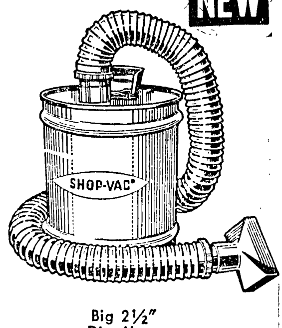
Accepts house and barn paint, porch and deck enamel, varnish, lacquer and shellac. Also handles insecticides, weed killers, moth-proofers—all types of sprays. Will power air-driven tools such as staplers, wrenches, etc.

Features 1725-rpm, ⅓-hp split-phase high efficiency motor; aluminum piston; nylon reinforced air seal; heavy-duty sealed ball bearings. With spray gun, fan-nozzle, carrying handle, insulated cord. 15′ air hose, tire chuck, fittings. For 110-120 v., 60 cycle AC. Shpg. wt., 30 lbs.

26 D 2129 U..................54.95

SHOP-VAC VACUUM CLEANERS FOR ALL ROUGH CLEAN-UP JOBS

NEW



Big 2½″ Dia. Hose

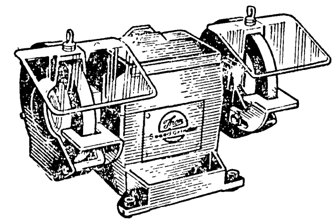
- 2½-in. Hose Picks Up Stones, Sticks
- Top-Mounted Motor Boosts Efficiency
- Vac Attaches to Most Power Tools

5-Gal. ¾-Hp Model. Does the rough clean-up jobs that would ruin an ordinary vacuum cleaner. 6-ft. hose has big 2½″ diameter compared to 1¼″ for most home vacuums. Effortlessly picks up sawdust, chips, sticks and stones. Motor and intake are both located at the top of the 5-gal. drum so that heavy objects drop out of the air-flow pattern. Keeps debris from restricting air flow and decreasing vacuum. Adapts to fit most power tools. Carrying handle. Gray enamel finish. 18″ high, 12″ dia. U.L. Listed. For 110-120 v., AC-DC.

26 D 2515 X. Shpg. wt., 17 lbs..........26.95

26 D 3101 X. 10-Gal. 1-Hp Model. Steel drum, 19″x 15″ dia. Shpg. wt., 20 lbs.................29.95

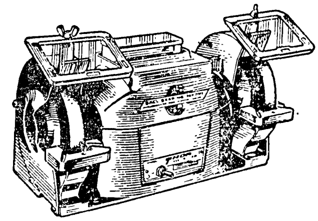
26 D 2516 X. 18-Gal. 1-Hp Model. Fibre drum, 24″x 16″ dia. Shpg. wt., 21 lbs.................36.50



THOR UTILITY BENCH GRINDER

MODEL 946. Durable, light-duty, 4½″ bench-type utility grinder with burnout-proof, shaded pole motor. 3450 rpm, no load. Easy-to-carry aluminum alloy housing, rubber feet. Includes cast-in water-cooling tray, adjustable tool rests, removable end-guards, dust shields and protective eye shields. Flat front design permits simultaneous grinding with both wheels (40 and 70-grit); measuring 4½x ½″, with ⅜″ center holes. Overall length, 9¼″. With 6-ft., 3-wire power cord. U.L. Industrially Rated; C.S.A. Approved. For 110-125 volts, 60 cycle AC.

26 D 3181 X. Wt., 11 lbs.......17.95

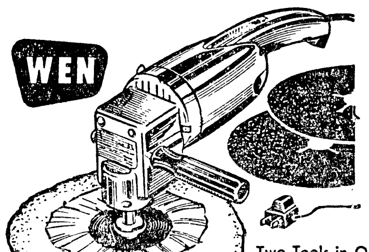


THOR HEAVY-DUTY GRINDER

MODEL 927. For difficult jobs. Powerful ⅓-hp, 6.5-amp ball-bearing motor won't burn out. Has 3450-rpm no load speed. With lightweight aluminum alloy housing, rubber footed base. Includes removable plastic quench tray, die-cast tool rests with angle guides; also has parts tray, reinforced eye shields, adjustable spark arrestors. Complete with two grinding wheels (46 and 75-grit), measuring 6x¾″ with ½″ center holes. Overall length, 16″. With 6-ft., 3-wire cord and plug. U.L. Industrially Rated; C.S.A. Approved. For 117 volts, 60 cycle AC.

26 D 3182 X. Wt., 27 lbs.......34.95

WEN



Two Tools in One—7″ Sander Becomes Buffer When You Change Disc

2-SPEED 7″ SANDER/POLISHER

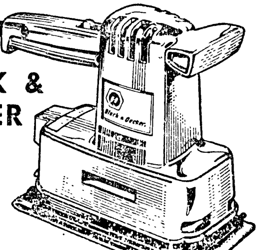
MODEL 940. One tool, two functions: a sander and a polisher. Saves time, space and money. ½-hp, 6-amp burnout-proof motor; plus needle-point bearings, all gear construction. Features electronically-controlled speed selection: 3400 rpm for smooth sanding, and 1800 rpm for fine, effortless polishing.

Has convenient tool rest, handle that fits into either side, back-up pad and back-grip handle. With 2 sanding discs, wool bonnet; 6-ft., 3-wire cord; adapter. 14″ long. Industrially rated by U.L. For 110-120 v., 60 cycle AC.

26 D 2406. Shpg. wt., 8½ lbs..32.97

26 D 2407. Extra 7″ Wool Polishing Bonnet. Shpg. wt., 10 oz..................2.49

BLACK & DECKER



NEW! DUAL-ACTION SANDER

MODEL U-240. This deluxe finishing sander combines the advantages of orbital-action and straight-line sanders. Just move lever to change from one action to the other. Use orbital-action for fast material removal; use straight-line action for smoother-finish sanding with wood grain. Use on wood, metal or plastics.

Flush sands on 3 sides. Polished die-cast aluminum housing. Easy "one-hand" control. Built-in front handle for extra control when needed.

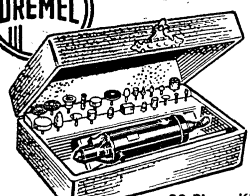
Includes dual-action lever wrench and holder. Paper size: 3⅝x9″. 1/6-hp, 4000 orbits-per-min. 2.2-amp motor. U.L. Listed. For 115 v., AC. 6¼ lbs.

26 D 3107 X...................31.99

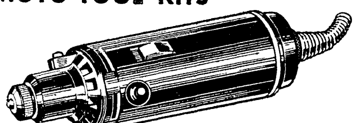
Engraving Tools, Heat Gun, Ultrasonic Cleaner

DREMEL

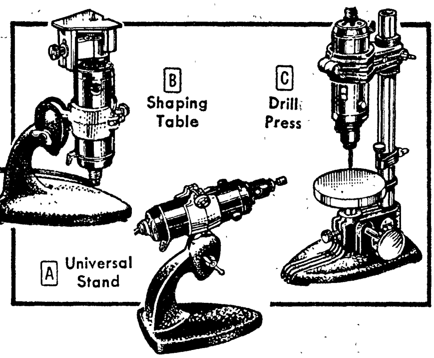
MOTO-TOOL KITS



29-Piece Kit With Metal Case



Heavy-Duty Moto-Tool



29-PIECE HEAVY-DUTY INDUSTRIAL MOTO-TOOL KIT

- Sustains High Torque Under Load
- Vibration-Free Dynamic Balance
- Protected Against Overheating
- Moto-Tool Weighs Only 18 Ounces

MODEL 3. Portable outfit powered for industry. Heavy-duty 0.9-amp Moto-Tool has extra torque for grinding of dies and molds, pattern making, production burring. Also polishes, engraves, saws, sands, drills. Maintains high torque under load. Dynamic balancing cuts vibration. Kit includes 27,000-rpm Moto-Tool plus: 3 collets (1/16", 3/32", 1/8"); finger grip; 4 emery wheel points; dressing stone; 8 steel cutters; steel saw; 5 bristle brushes; steel brush; shoulder mandrel with sanding disc; screw mandrel with felt wheel; drum sander; case. 3-wire cord & plug, 2-prong adapter. Moto-Tool weighs only 18 ounces, measures 7½x1 11/16" dia. U.L. Listed. For 110-120 v. AC-DC.

26 D 2213. Shpg. wt., 4 lbs. . 29.95
26 D 2265. Moto-Tool Alone. 22.95

MEDIUM-DUTY MOTO-TOOL KIT

- Complete 29-Piece Tool Kit
- Ideal Shape for Precision Work
- Handles Varied Jobs in Home or Shop
- Lightweight and Compact

MODEL 2. Portable outfit for shop or home. Has all accessories for high-quality engraving, routing, sanding, polishing, sawing and drilling. Light-weight Moto-Tool (13 ounces) has 0.5-amp motor developing 27,000 rpm. Has plenty of power for fine, fast work. Kit includes same accessories as heavy-duty outfit above. Moto-Tool has shock-proof bakelite case 7½" long, 1 11/16" dia. With 3-wire cord and plug, 2-prong adapter. U.L. Listed. For 110-120 v. AC-DC. Deluxe metal case stores accessories when not in use.

26 D 1436. Shpg. wt., 4. lbs. . 23.95
26 D 1598. Moto-Tool Alone. 16.95

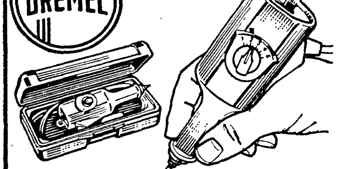
ACCESSORY STANDS FOR MOTO-TOOLS

[A] #223 Universal Stand. Leaves both hands free for holding the work. Ball and socket assembly can be quickly set at any angle. Has quick-action clamp for receiving Moto-Tool. Heavy cast iron base will not tip. Shpg. wt., 2½ lbs.
26 D 2480 . . . . 4.95

[B] #224 Shaping Table. Can be mounted vertically with either kit at left when used with Universal Stand above. When inverted, provides accurate control for routing and depth grinding. Table can be raised or lowered for desired depth. Wt., 8 oz.
26 D 2485 . . . . 1.95

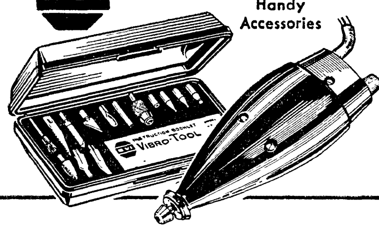
[C] #225 Drill Press. For precision drilling and routing —useful to model makers, wood carvers, etc. Table can be raised or lowered; locks in any position for accurate depth adjustment. 12" high, 6¾x4" base. Shpg. wt., 3 lbs.
26 D 2491 . . . . 9.95

DREMEL



BVI

Kit Includes 12 Handy Accessories



NEW! ELECTRIC ENGRAVER

- Permanently Marks Nearly Any Material
- Writes Like Pencil, No Special Skill Needed
- High-Speed Reciprocating Motor

MODEL 290. Heavy-duty engraver for fast, permanent means of marking all types of materials from hardened steel to glass. Makes engraving as easy as writing with a pencil, yet is built ruggedly enough for industry. Calibrated stroke adjustment regulates depth of engraving from delicate fine lines to deep marks. High-speed reciprocating motor delivers 7200 strokes a minute. High-impact nylon housing with handy hanger ring and easy-to-hold pencil grip. Solid carbide point is practically wearproof, stays sharp for fine-quality work. Includes molded plastic storage case.

26 D 2125. Shpg. wt., 1½ lbs. 11.95

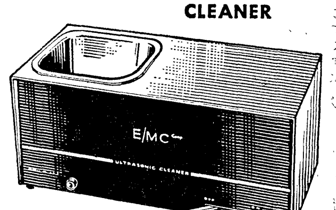
VIBRO-TOOL 13-PC. KIT

- Kit Has Dozens of Applications
- Two-Speed Motor, with Nylon Housing
- Variable Engraving Depth

MODEL V-88. Versatile kit ideal for both professional and amateur craftsmen. Includes: V-88 Vibro-Tool, carbide-tipped point for engraving; 1/16" ball point for marking soft materials; straight-edge knife blade; cross-cut saw blade; modeling tool and 1/8" slotter for leather work; 7/32" ball embosser; abrasive point; wire-end brush and a triangular file. Heavy-duty Vibro-Tool has 2-speed motor (3600 and 7200 strokes per minute), dial setting for stroke depth. Nylon housing; sturdy plastic storage case. For 110-120 v. 50-60 cycle AC.

26 D 1351. Shpg. wt., 3 lbs. 19.95

ARTRONICS ULTRASONIC CLEANER



- Automatic Industrial Time Switch
- Easy-to-Handle Size
- Stainless Steel Top and Sides
- Use Any Commercial Cleaning Agent

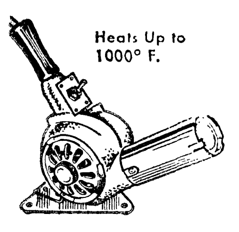
Now—an ultrasonic cleaner at low cost. Ideal for removing grease, tar, wax, sulphides, fluxes and fingerprints from components, miniature mechanisms, small instruments and infinite variety of other parts.

Features automatic 5-minute industrial time switch that turns unit off when the cleaning cycle is finished. Easy-to-handle size makes filling or emptying a simple operation. Stainless steel top and sides. Full one-pint capacity, 3½x3½x2½" stainless steel tank can't be marred or harmed by any normal cleaning agent or solvent, either warm or cold. Lead titanate crystal, 280 degrees F. Curie temperature.

Console dimensions 9½x5x4⅝" overall. Has no tubes nor transistors, no tuning is required. 90-kc nominal, 30 watts RF input. For 105-125 volts, 50/60 cps, 0.5 amp. Less solvent. U. L. Listed. Shpg. wt., 6 lbs.

26 D 2996. . . . . 54.95
26 D 2997. Stainless Steel Tank Lid. Shpg. wt., 6 oz. 98

MASTER FLAMELESS HEAT GUN



Heats Up to 1000° F.

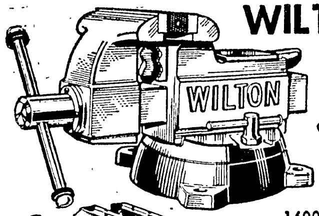
Quickly delivers up to 1000° F. without the danger of an open flame! Adjustable air intake controls air-blast temperature. Has double-jacketed heater shroud, sturdy die-cast aluminum housing and an 8-ft. neoprene jacketed 3-wire cord and plug. Quiet and efficient turbo-type fan delivers 35 CFM air volume at 3000 FPM velocity. 8" high, 11" long, 4" nozzle (HG 201—10" long, 3" nozzle). With 3-wire cord, plug, 2-prong adptr. For 110-120 v. 50-60 cycle, AC. Shpg. wt., 5 lbs.

26 D 3091 X. Model HG-201. 5-amps, 200/300° F. . 32.20
26 D 3092 X. Model HG-501. 14-amps, 500/750° F. . 45.35
26 D 3093 X. Model HG-751. 20-amps, 750/1000° F. 56.25

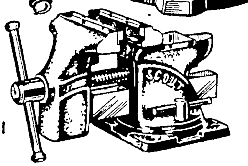
Depend on Allied for Highest Quality Tools at Lowest Prices

Vises, Circuit Board Holders and Wire Strippers

WILTON STURDY SHOP AND BENCH VISES



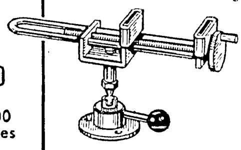
1600 Series



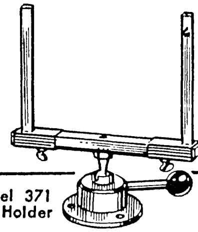
Model C55

Specially Designed For Industrial Operations

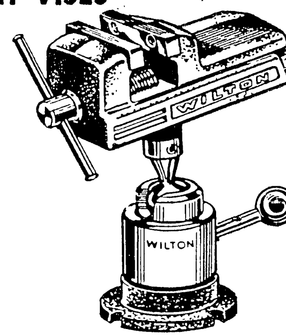
ELECTRONIC VISE AND P.C. BOARD HOLDER



Model 353 Electronic Vise



Model 371 P.C. Holder



1600 SERIES BENCH VISES

MODEL 1644. Powerful automotive shop vise, built to take loads up to 3 tons. 4″ hardened steel pipe jaws hold pipes of 1/4″ to 2″ in diameter. Heavy-duty, hardened steel jaw faces have deep-cut serrations for firm grip. Extra-large, reinforced anvil and forming horn; serrated 360° swivel base with double lock-downs. Maximum opening, 4″. Jaw depth, 3 3/8″. 30 lbs.
26 D 1239 U **19.67**

26 D 1284 U. Model 1645. Similar to above, but 5″ wide jaw. Maximum opening, 5 1/2″. Jaw depth, 3 5/8″. Handles 1/4″ to 2 1/2″ pipes. Shpg. wt., 44 lbs.................**26.88**

26 D 1285 Z. Model 1646. Above, but 6″ wide jaw. Max. opening, 6 1/2″. Jaw depth, 4 1/8″. Takes 1/4″ to 3 1/2″ pipes. 66 lbs.....**38.95**

LOW-COST BENCH VISE

MODEL C55. 4 1/2″ jaw vise ruggedly built to provide years of dependable service. Handles most types of light work around plant or shop. Features removable steel insert jaws with serrated faces for firm grip, built-in pipe jaws and a precision-machined screw drive. Swivel base swings instantly to any position desired; locks firmly in place. Large, sturdy anvil has handy forming horn. Maximum opening, 4 1/4″. Handles pipes of 1/2″ to 3″ diameter. Shpg. wt., 10 lbs.
26 D 1489 X.................. **7.95**

26 D 1487. Model C53 1/2. Similar to Model C55 above, but has 3 1/2″ wide jaw. Maximum opening, 3″. Takes pipes of 1/2″ to 2″ diameter. Shpg. wt., 10 lbs..........**5.30**

ELECTRONIC VISE ON "POWRARM"

MODEL 353. Mounts on Midget "PowRarm" No. 345 (supplied). For all small subassemblies and printed circuit boards. Holds work firmly but gently; jaws are rubber-wrapped to protect workpiece. Constructed of heavy gauge steel with double slide bars—opening adjusts to 6 1/2″ with crank handle. Shpg. wt., 3 lbs.
26 D 2210..................... **12.95**

PC HOLDER WITH "POWRARM"

MODEL 371. Mounts on Midget "PowRarm" No. 345 (supplied). For rapid, low-cost printed circuit production. Brackets adjust horizontally 3″ to 6″. V-grooved vertical posts (1/8″ wide, 3/16″ deep) permit speedy insertion and removal of workpiece without readjustments. Shpg. wt., 2 lbs.
26 D 2211..................... **9.95**

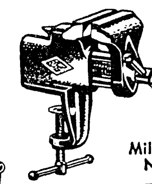
VISE AND POSITIONER

- **Excellent for Speeding Up Electronic, Aircraft and Other Light Assembly Work**
- ***Features "PowRarm" for Fast Repositioning***

MODEL 364. Utility vise mounted on famous "PowRarm" positioner. Ideal combination for fast, efficient electronic, aircraft or similar light assembly. Single-handed release of positioner level-bar permits convenient rotating or tilting of workpiece to any desired angle. Tightening of level-bar freezes workpiece solidly in place; allows full use of both hands when working on intricate and delicate electronic assemblies. Positioner is made of cadmium-plated steel. Recommended for work weighing up to 15 lbs. Model 354 vise (supplied) has smooth steel jaws that open to maximum of 2 1/4″. Jaw width, 2 1/4″. Shpg. wt., 5 lbs.
26 D 1149..................... **16.95**

BRINK AND COTTON MIDGET VISE

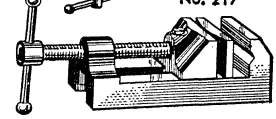
Sturdy clamp vise that securely holds small parts for soldering, filing and cutting. Features smooth, easy action. Clamps to any bench measuring up to 2″ thick. Jaws are 1 3/4″ wide; have maximum opening of up to 1 3/4″. Shpg. wt., 2 3/4 lbs.
26 D 1317.................................. **1.89**



Brink and Cotton No. 149

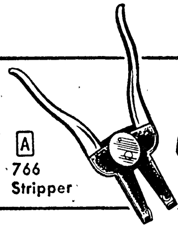
MILLERS FALLS DELUXE VISE

Ruggedly constructed vise, designed for holding work on drill press bed or work bench. Features sturdy steel jaws, 2 3/8″ wide, with parallel faces extending to 3 1/8″. Removable swivel jaw and fine thread give excellent leverage. Shpg. wt., 5 lbs.
26 D 1321............................. **8.99**

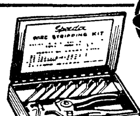


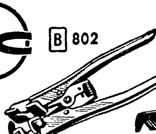
Millers Falls No. 217

HANDY WIRE STRIPPERS IN EVERY PRICE RANGE

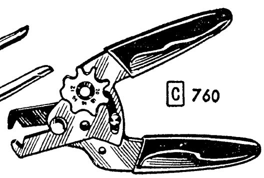


[A] 766 Stripper





[B] 802



[C] 760

[A] **G-C 766K WIRE STRIPPER KIT.** Versatile wire stripping kit includes: Model 766 deluxe wire stripper; 7 interchangeable blades for stripping wires from No. 8 through No. 30 gauge; helpful blade guide; and a sturdy plastic storage case. Model 766 stripper features fully automatic, delayed return action to prevent the pulling on or crushing of fine wires. Has narrow, easy-grip handles and hardened steel blades. Shpg. wt., 2 1/4 lbs.
26 D 1389..................... **13.16**

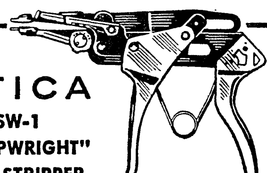
26 D 1387. Model 766 Wire Stripper Only. Strips No. 12 through No. 20 wires. Shpg. wt., 1 1/4 lbs................................**5.93**

26 D 1388. Model 766A. As above, but for No. 14 through No. 30 wires. 1 1/4 lbs...**5.93**

[B] **G-C 802 WIRE STRIPPER.** For No. 10 through No. 22 wires. Features automatic stop return; cutter. 8 oz.
26 D 1341..................... **5.93**

[C] **G-C 760 "STRIP-ER-CLIP."** Fine wire stripping tool with exclusive safeguard that prevents accidental nicking or cutting. 8-stop gauge adjusts instantly to correct wire size. Strips and clips all wires from 12 to 26 gauge. Shpg. wt., 8 oz.
26 D 2273..................... **1.38**

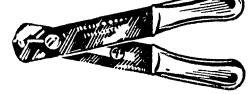
UTICA SW-1 "STRIPWRIGHT" WIRE STRIPPER



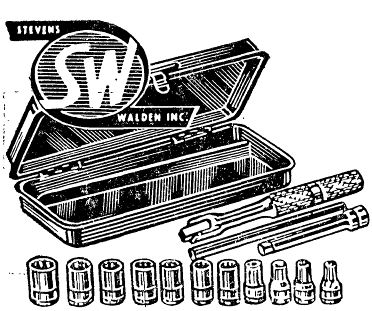
Designed especially for electronics industry use. Prevents wire nicking; strips teflon and most other solid and stranded wires. Cam-action calibrated dial adjusts to wire sizes from No. 12 through No. 26. Ideal for working in limited access areas; permits wire stripping at any point. With comfort-grip handles. Shpg. wt., 7 oz.
26 D 1680................... **15.71**

K. MILLER WIRE STRIPPERS AT LOWEST COST

101-S. Strips insulation or cuts wire up to No. 8, solid or stranded. Spring lock holds blades closed when stripper is not being used (prevents damage). 5″ long. 4 oz.
26 D 1392... **1.27**
26 D 1338. 100. Above, w/o spring action. 4 oz........**.97**



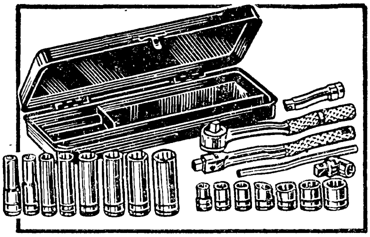
Useful Shop Tools



16-PIECE ¼" DRIVE SOCKET SET

Precision-made set of alloy-steel sockets for radio and electrical repair, industrial, mechanical and instrument work. All wrenches are chrome-plated for enduring finish. Set consists of 11 sockets: 4 regular 12-point sockets—5⁄16", 11⁄32", ⅜", 7⁄16"; 4—6-point hex sockets—3⁄16", 7⁄32", ¼", 9⁄32"; 3—8-point sockets—¼", 5⁄16", ⅜". Also has: one reversible ratchet; one hinge handle; one cross bar; one 3" extension; metal case, 6½x2¾x1¼". 1½ lbs.

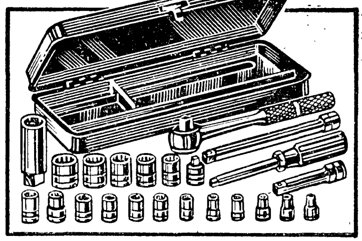
26 D 2209........................8.49



21-PIECE ⅜" DRIVE SOCKET SET

Complete set of chrome-plated, alloy-steel wrenches for the home owner or automotive mechanic. Consists of 15 sockets: 7 regular 12-point sockets—⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"; 8 deep-length 12-point sockets—⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾", 13⁄16". Also has: one hinge handle; one cross bar; one universal joint; one 3" extension; one round-head reversible ratchet; metal case, 11½x4¾x1¾". 4 lbs.

26 D 2243 X....................13.95



24-PIECE COMBINATION ¼" AND ⅜" SOCKET SET

Combines all the best features of the ⅜" and ¼" drive sets. Designed for the radioman, mechanic, or do-it-yourselfer. Set consists of 17 sockets: 7 regular 12-point sockets—⅜", 7⁄16", ½", 9⁄16", ⅝", 11⁄16", ¾"; 7 hex sockets, ¼" drive—3⁄16", 7⁄32", ¼", 9⁄32", 5⁄16", 11⁄32", ⅜"; and 3 regular 8-point sockets, ¼" drive—¼", 5⁄16", ⅜". Also has: one ⅜" to ¼" adapter; one round-head ⅜" adapter; one ¼" spinner handle; one 6" extension, ⅜" drive; one 3" extension, ⅜" drive; one 13⁄16" spark plug socket with protective neoprene insert; one sturdy metal carrying case. Wrenches are made of special alloy-steel, heat-treated and tempered in accordance with highest standards of professional quality. Meet U.S. Government specifications. Openings are precision-broached to close tolerances. All pieces are chrome-plated for a lasting finish. Metal case, 1½x4¾x1¾". 4½ lbs.

26 D 2245 X....................13.50

ADEL METAL "NIBBLING" TOOL

For Up to 1⁄16" Metal

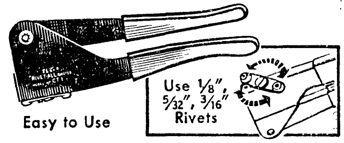
A real time-saver. "Nibbles" holes, slots or openings in up to 18-gauge steel, aluminum or other soft metals. Excellent for making square or rectangular mounting holes for connectors, etc. Leaves safe, smooth, flat edges on all openings. Minimum hole size is 7⁄16" diameter.

Durable construction; punch is replaceable (see below). Shpg. wt., 8 oz.

26 D 1153. 1-11....Each 3.95
12-Up..............Each 3.80

26 D 1130. Replacement Punch for Above. Easy to install. Shpg. wt., 2 oz................**1.97**

MARSON RIVET-ALL RIVETER



Easy to Use

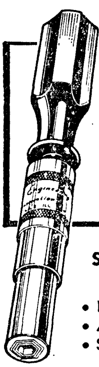
Use ⅛", 5⁄32", 3⁄16" Rivets

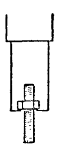
Rivets tube sockets to chassis, repairs metal furniture, TV antennas, heating ducts, cooking utensils, signs. Ideal for car rocker panels, mirrors, grilles, etc. Rivets blind, makes neat, vibration-proof joints. Swivel head lets you change sizes fast—takes ⅛", 5⁄32" and 3⁄16" rivets. With large assortment of rivets and washers (for repairs over existing holes and to reinforce soft materials). Shpg. wt., 2 lbs.

26 D 2400........................3.89

EXTRA RIVETS, WASHERS. *Dia. x lgth. †, S, steel; A, aluminum. 26 D 2416 has large washer head. Av. shpg. wt., 10 oz.

Stock No.	*Size	† Desc.	Pkg.	PER PKG.
26 D 2414	⅛x⅛"	S. Rivets	100	.98
26 D 2415	⅛x¼"	S. Rivets	80	.98
26 D 2416	⅛x¼"	S. Rivets	60	.98
26 D 2417	⅛x⅛"	A. Rivets	100	.98
26 D 2418	⅛x¼"	A. Rivets	80	.98
26 D 2419	5⁄32x¼"	A. Rivets	60	.98
26 D 2420	3⁄16x¼"	A. Rivets	60	.98
26 D 2421	3⁄16x⅜"	A. Rivets	60	.98
26 D 2422	⅛"	S. Wash.	50	.39
26 D 2423	5⁄32"	A. Wash.	35	.39
26 D 2424	3⁄16"	A. Wash.	35	.39





Hollow core construction permits use with bolt extensions up to 1-¾" in length

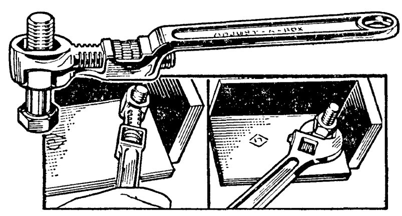
SIZE-WISE SELF-ADJUSTING SOCKET WRENCH

- No Manual Adjustment Needed
- Adjusts Automatically to 7 Sizes
- Shockproof Insulated Handle

In one compact tool, "Size-Wise" wrench gives you the utility and range in sizes of a 4-piece socket wrench set. Self-adjusting action instantly selects the right socket to fit any of seven different sizes of hex-head bolts or nuts, from ¼" to 7⁄16". Just press and turn. Tempered steel sockets of extra depth for high torque. Anchored springs for positive action. Internal mechanism corrosion-proofed. Chrome-plated steel housing. Shockproof insulated handle. 8" long. Shpg. wt., 8 oz.

26 D 2985........................4.98

"ADJUST-A-BOX" WRENCHES



Has Narrow Head (Left) to Reach Where Ordinary Wrench (Right) Won't

A welcome addition to any tool kit, the "Adjust-A-Box" combines the strength and compactness of a socket or box-end wrench with the handy versatility of a single adjustable wrench, covering a wide range of sizes that otherwise would require a multiple number of fixed-size wrenches. Non-slip four-sided jaw grip. Grips burred and damaged nuts. Fits metric, Whitworth, and U.S. sizes. Made of forged alloy steel, heat-treated and nickel-chrome plated.

Stock No.	Lgth.	Adjustment Range	Wt., Oz.	EACH
26 D 2982	8"	¼"-1"	8	3.98
26 D 2983	10"	⅜"-1⅛"	14	5.95
26 D 2984	12"	7⁄16"-17⁄16"	21	7.95

Provides Waterproof Glue Bond or Water and Dust-Tight Caulking

THERMOGRIP ELECTRIC GLUE AND CAULK GUN

Solid glue stick is inserted in gun, heated, and melted glue feeds from tip. In 60 seconds there's a permanent, waterproof bond. No clamping. Glues wood, plastic, leather, metal, etc. Caulks too—sealer-sticks give fast-set caulk. Includes gun, 4 glue and 3 sealer sticks. For 115 v., AC or DC. 1 lb.

26 D 2435..........................4.98

26 D 3188. Glue Sticks. 12 oz. Pkg. 60/**1.98**

26 D 3189. Caulk Sticks. 12 oz. Pkg. 60/**1.98**

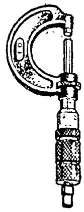
HP MODEL 500 NUT CRACKING TOOL

An exceptionally handy tool. Removes rusted, stripped or otherwise damaged nuts—cannot damage bolts. Cracks nuts from 5⁄16" to 13⁄16". Easy to use: simply set chisel at right angle to flat of nut —grip firmly—then swing ratchet on forcing screw. Provides up to 25,000 lbs. of pressure for effortless removal—a real work-saver! Shpg. wt., 1¼ lbs.

26 D 1583...............5.95

Popular Low-Cost Hand Tools

CENTRAL 0-1″ MICROMETER



TYPE 12RL. Easy-to-read. Features positive lock, friction stop, clamp ring locknut, simplified zero adjustment. Extremely accurate; meets Government Specification GGG-C-105. Enameled, forged steel frame. Polished spindle, anvil. Satin-chrome finish. Wt., 8 oz.
26 D 1060.......**12.95**

1-2″ MICROMETER

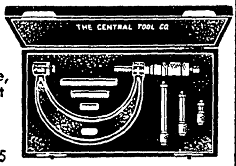
TYPE 22RL. Forged steel frame stamped with decimal equivalents to 1/64ths. Friction stop and positive clamp ring locknut. Polished spindle and anvil. Meets GGG-C-105 Gov. Spec. With 1″ standard for checking accuracy. Shpg. wt., 8 oz.
26 D 2287.................**15.95**

0-4″ RANGE MICROMETER KIT

Three extensions interchange

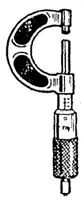
Wide Range, handles most any job

Meet GGG-C-105



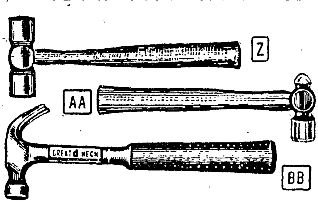
Extensions adjust to compensate for wear; knurled collars. Friction stop, clamp ring locknut. Crowned anvil face. Satin-chrome finish. Enameled forged steel frame. Graduations, .001″. With standards, case. Wt., 4 lbs.
26 D 1211.................**34.50**

HANSON
0-1″ MICROMETER



Low-cost micrometer offers an accuracy of .0005″. Quick, simplified zero adjustments are made with screw-type anvil. Has a spring friction stop. Frame, thimble and ratchet are chromed to inhibit rusting. Precisely adjusted at the factory. Shpg. wt., 7 oz.
26 D 1393.............**3.95**

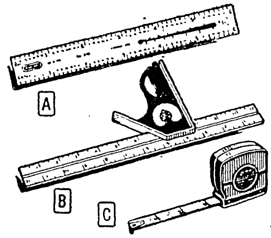
STRONG HAMMERS FOR GENERAL AND SPECIAL USES

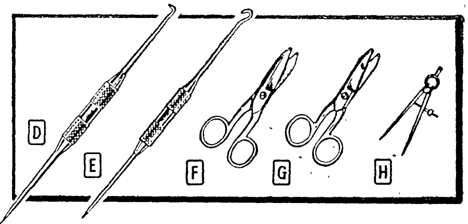


[Z] **SOFT-FACE HAMMER.** Has soft plastic faces to drive bushings and wrist pins, for body bumping, for straightening bent chassis, and many additional applications. Hammer's 1 3/8″ diameter plastic faces are made of red vinyl and amber tenite. Will not mar aluminum or other soft metals. Steel head, and strong, comfortable-grip hickory handle. Length, 12 3/4″. 1 lb.
26 D 1161.......................**2.73**

[AA] **BALL PEEN HAMMER.** Strong head is made of drop-forged steel. Finished in black, baked enamel. Sturdy hickory handle. Overall length 14″. Shpg. wt., 1 1/2 lbs.
26 D 1577.......................**1.46**

[BB] **CLAW HAMMER.** Well balanced, with one-piece steel construction, and rubber cushioned handle to absorb shock. Precision-tempered claws pull small nails easily. Length, 13″. Shpg. wt., 1 1/2 lbs.
26 D 1299.......................**3.53**





[A] **26 D 1320.** 6″ Rule and Wire Gauge. Graduated to 64ths. Has B&S wire gauge, decimal equivalents. 2 oz.......**.55**

26 D 1323. 12″ Stainless Steel Bench Rule. (Not illus.) Both sides graduated to 64ths. 7/8″ wide. Shpg. wt., 2 oz...........**1.19**

[B] **26 D 1308.** 12″ Combination Rule. Etched steel. Graduated to 32nds. Head locks on 1″ blade. Scriber in head. 1 3/4 lbs.............................**.84**

[C] **LUFKIN "LOKMATIC" TAPE RULES.** Lever-Lok, ball bearing rewind, end-hooks. Graduated to 1/16″. Strong, steel rule. Vinyl and metal case. Width, 1/2″ except *3/4″.

Stock No.	Type	Feet	Oz.	EACH
26 D 3045	W728	8	7	1.30
26 D 3046	W7210	10	8	1.53
26 D 3047	W7212	12	8	1.73
26 D 3048	W7312*	12	10	2.53
26 D 3049	W7316*	16	10	3.00

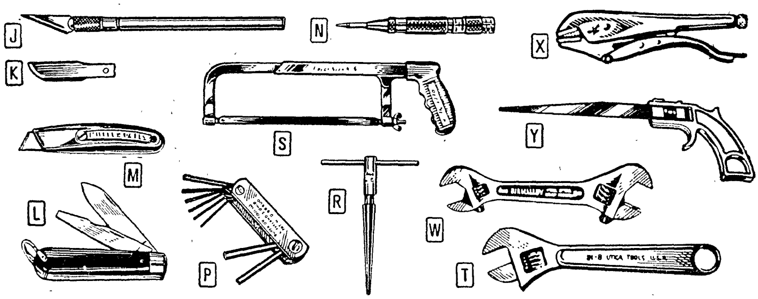
[D] **26 D 1309.** Machinist Scriber. Has tapered hook and straight points, heat-treated and hardened. Swaged into knurled aluminum fingertip handle. Meets Gov. Spec. GGG-S-131C. 8 1/2″ long. Wt., 6 oz.....**.49**

[E] **26 D 2288.** Hooked-Point Scriber. Has one fully-hooked, and one straight point. Tapered. Heat-treated and hardened. Swaged into knurled aluminum fingergrip handle. Shpg. wt., 6 oz...............**.49**

[F] **26 D 1301.** Clauss Industrial Scissors. Type 925 electrician's scissors. 5″ long. 1 3/4″ cut length. Wt., 3 oz...............**2.04**

[G] **26 D 1297.** Type 925C. As above, but with wire-stripping notches on back of blade. Shpg. wt., 3 oz...............**2.44**

[H] **26 D 1324.** 6″ Steel Dividers. Tempered bow-spring and tapered fulcrum to assure rigidity and accuracy. Adjusting nut. Replaceable points. 6 oz............**3.25**



[J] **X-ACTO NO. 1 KNIFE.** For light to medium work. 5″ aluminum handle; 5/16″ diameter. With razor-sharp No. 11 blade. Replacements below. Wt., 3 oz.
26 D 1608.......................**.53**

[K] **NO. 10 BLADES.** 5 per pkg. 2 oz.
26 D 1609.............Per Pkg. **.53**
NO. 11 BLADES. 5 per pkg. 2 oz.
26 D 1610................Per Pkg. **.53**

[L] **ULSTER K-29W ELECTRICIANS' KNIFE.** Rugged and versatile. Two tempered tool-steel 2 1/2″ blades: combination screwdriver-wire-scraper, and spear shape type. Overall length is 3 3/4″. Shpg. wt., 5 oz.
26 D 1298.......................**1.49**

[M] **MILLERS FALLS UTILITY KNIFE.** Cuts rubber, linoleum, veneer, etc. Both ends of blade may be used. Each blade has 3 notches for exposing longer or shorter cutting edge. 5″ long. 5 blades.
26 D 2655. 1/2 lb...................**.83**
26 D 1171. Pkg. of 5 Blades. 2 oz..... **.37**

[N] **G-H CENTER PUNCH.** Light or heavy adjustment. Hand pressure triggers powerful spring. 5x1/2″ diameter. Wt., 5 oz.
26 D 1382.......................**3.10**
26 D 1383. Extra Point...............**.44**

[P] **HEX-KEY WRENCH SET.** Nickel-chrome steel wrenches in steel frame. Sizes, .050″ to 5/16″. Wt., 4 oz.
26 D 1128.......................**.88**

[R] **HENRY HANSON 120 HAND REAMER.** May be used with drill—T-handle removes. 1/2″ shank. 1/8″ tip. 5 1/2″ long.
26 D 1390. 9 oz...................**1.29**

[S] **PISTOL-GRIP HACKSAW.** Cuts materials up to 2 3/4″ deep. Adjusts for 8-12″ blades, and 4 different cutting angles. Plastic handle. Complete with 10″ blade. Shpg. wt., 1 1/2 lbs.
26 D 2668.......................**.89**

[T] **UTICA 91 ADJUSTABLE WRENCHES.** Drop forged tough alloy steel, with chromed heads. Meet Fed. Spec. GGG-W-631. *Indicates thickness.

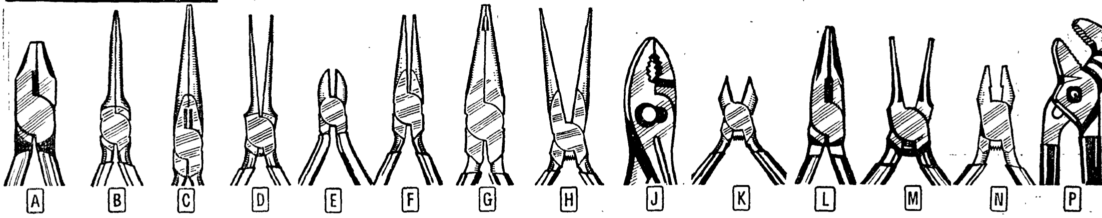
Stock No.	Tip (*)	Size	Jaw Open	Shpg. Wt.	EACH
26D1461	1/8″	4″	1/2″	2 oz.	2.24
26D1462	3/16″	6″	3/4″	4 1/2 oz.	2.29
26D1463	15/64″	8″	15/16″	8 oz.	2.55
26D1464	9/32″	10″	1 1/8″	1 lb.	3.24
26D1465	11/32″	12″	1 5/16″	1 1/2 lbs.	4.73

[W] **DIAMOND ADJUSTABLE WRENCH.** 6″ double-end—1/2″ and 3/4″ jaw capacities. Thickness: 1/8″ at small end; 7/32″ at large end. Made of drop forged alloy tool-steel, nickel-chrome plated with sides of heads buffed. Meets Fed. Spec. Shpg. wt., 6 oz.
26 D 1263.......................**2.74**

[X] **LOCK WRENCH.** Like a vise! Develops up to 1000 lbs. pressure. Has fingertip release. Holds any shape object. Opens to 1 1/2″. Nickel-plated hardened steel. 10″ long. 1 1/4 lbs.
26 D 2672.......................**2.19**

[Y] **4-WAY KEYHOLE HACKSAW.** With 7 1/2″ blade. Cuts metal, wood, plaster. Blade adjusts in 4 directions. 6 oz.
26 D 1430.......................**.34**

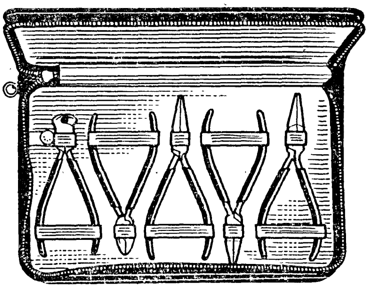
KNIGHT Cushion-Grip Pliers and Plier/Cutters

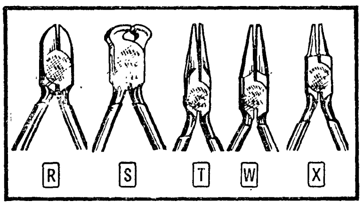


PRECISION CRAFTED FOR THE ELECTRONICS INDUSTRY

Have highly polished heads and shoulders. Accurately machined and ground for smooth action. Hammer forged from finest tool steel. Adjusted and tested for precision performance and durability. Heat-treated cutting edges provide optimum temper, fast, easy cutting action, and long wear. Vinyl cushion grips isolate worker from danger of electrical circuits. Offer nonslip grip, and comfortable, smooth feel. Extremely resilient grip is bonded to tool so it won't chip or peel. Resists chemicals, acid, grease, etc. All carry one full year guarantee. Pliers with * have cross-coil spring.

Stock No.	Fig.	Lgth.	Description	Wt., Oz.	Asstd 1-4	EACH 5-Up
26 D 2900	A	6½″	Electrician's Side Cutting Pliers	8	2.59	2.29
26 D 2901	A	8″	Electrician's Side Cutting Pliers	16	3.49	3.05
26 D 2908	B	6″	Long Needle or Snip-Nose Pliers	6	2.54	2.29
26 D 2912	C	7″	Extra-Long Chain-Nose Cutting Pliers	6	3.62	3.27
26 D 2915	D	6″	*Long-Nose Pliers	3	3.22	2.89
26 D 2902	E	4½″	Diagonal "Oblique" Cutting Pliers	2	2.29	2.07
26 D 2903	E	5″	Diagonal "Oblique" Cutting Pliers	3	2.46	2.18
26 D 2904	E	6″	Diagonal "Oblique" Cutting Pliers	3	2.69	2.44
26 D 2910	F	6″	Long Chain Needle-Nose Pliers	3	2.29	2.05
26 D 2909	F	6″	Long Chain Needle-Nose Pliers, Cutter	3	2.80	2.55
26 D 2913	G	5″	*Radio and Ignition Nose Cutting Pliers	3	2.98	2.68
26 D 2916	H	7″	*Extra-Fine Long-Nose Pliers	3	2.99	2.69
26 D 2924	J	6″	Satin-Finish Combination Pliers	5	.82	.73
26 D 2925	J	8″	Satin-Finish Combination Pliers	9	1.15	1.02
26 D 2926	J	6″	Satin-Finish Thin-Nose Combination Pliers	5	.95	.86
26 D 2905	K	4½″	*Diagonal Needle-Point Cutting Pliers	2	2.53	2.28
26 D 2906	K	5″	*Diagonal Needle-Point Cutting Pliers	3	2.69	2.39
26 D 2907	K	6″	*Diagonal Needle-Point Cutting Pliers	3	3.15	2.84
26 D 2911	L	5″	Short Chain Needle-Nose Cutting Pliers	3	2.62	2.35
26 D 2914	M	5″	*Slim Nose Pliers	3	3.35	2.98
26 D 2917	N	4½″	*Needle Point Diagonal Flush Cut Pliers	6	3.29	2.98
26 D 2927	P	10″	Tongue-N-Groove Utility Pliers	16	2.63	2.36





PRECISION PLIER SET

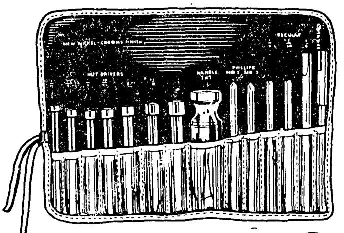
Set of five professional 4½″ precision pliers in zippered, leatherette carrying case. Comfortable, crack and peel-proof vinyl cushion grips. Smooth polished heads and handles of drop-forged fine-grain tool steel. Accurately machined and tempered cutting edges. Fig. R is for close cutting of small, soft wires. Fig. S for end cutting, as printed circuits. Fig. T has 1³⁄₃₂″ inside length tapering to ¹⁄₃₂″ point. Fig. W has 1³⁄₃₂″ inside length tapering ⁵⁄₃₂″ tip. Fig. X has ¾″ inside length tapering to ¹⁄₃₂″ point. Figures T, W and X have smooth jaws. Case, 5¾x 9¼″. Shpg. wt., 1¼ lbs.

26 D 2918. 1-4 Sets..........Each 13.95
5-Up Sets....................Each 12.95

INDIVIDUAL PLIERS

Average shpg. wt., 5 oz.

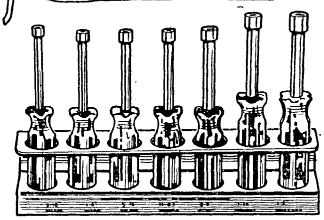
Stock No.	Fig.	Description	Asstd. EA. 1-4	5-Up
26D2919	R	Diag. Cutter	2.82	2.52
26D2920	S	End-Cut Nipper	3.25	2.92
26D2921	T	Chain Nose	2.38	2.14
26D2922	W	Flat Nose	2.59	2.32
26D2923	X	Round Nose	2.42	2.18



15-PIECE NUTDRIVER-SCREWDRIVER KIT

Set in 8x11″ vinyl plastic roll-up pouch. Individual holders marked for shaft size. Contains: molded "Amberyl" plastic handle; 6″ extension; 7 nutdrivers— ³⁄₁₆″, ¼″, ⁵⁄₁₆″, ¹¹⁄₃₂″, ⅜″, ⁷⁄₁₆″, and ½″; No. 1 and No. 2 Phillips, and ⅛″, ³⁄₁₆″, ¼″ slotted screwdrivers. Screwdrivers have precision ground blades; nutdrivers have hollow chrome-vanadium steel shafts. Made for Allied by leading domestic manufacturer. One-year unconditional guarantee by Allied. Shpg. wt., 1½ lbs.

26 D 1788. 1-4....Ea. 8.49 5-Up.....Ea. 7.39

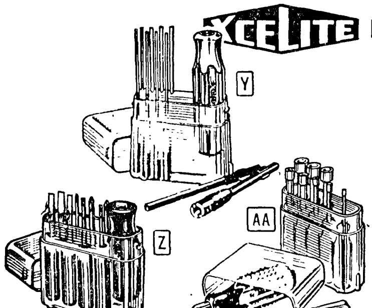


8-PIECE NUTDRIVER KIT

A high-quality line made for Allied by nationally known manufacturer, guaranteed for one year. Kit includes: 7 nutdrivers: ³⁄₁₆″, ¼″, ⁵⁄₁₆″, ¹¹⁄₃₂″, ⅜″, ⁷⁄₁₆″, and ½″ in self-supporting rack. Feature molded, color-coded "Amberyl" plastic handles. Nickel-chrome plated drivers. Shafts are 6¾″, except 6⅞″ on ⁷⁄₁₆″ and ½″ drivers. Drop-forged from tool steel and heat-treated for hardness. Accurately machined. Shpg. wt., 1¾ lbs.

26 D 1787. 1-4....Ea. 5.95 5-Up.....Ea. 5.62

XCELITE POCKET-SIZE DRIVER SETS WITH INTERCHANGEABLE BLADES



Y 99-PS-40 ALLEN SCREWDRIVER SET

Twelve-piece set includes plastic case, Servicemaster handle, nine 4″ blades and 4″ extension shaft. Simplifies work with recessed hex screws and cap screws. Get far greater torque than "L"-shaped keys without handle. Alloy steel blades are precision formed: .050″, ¹⁄₁₆″, ⁵⁄₆₄″, ³⁄₃₂″, ⁷⁄₆₄″, ⅛″, ⁹⁄₆₄″, ⁵⁄₃₂″, ³⁄₁₆″. Handle and extension feature exclusive locking device—blades fit snugly, are held firmly, yet are easily removed. Excellent for getting at deep-set screws. Extension shaft is of machine-finished, cold-drawn steel. Amber plastic U.L.-Listed handle is shockproof, break-proof. (1¹⁄₁₆x4⅛″). Shpg. wt., 11 oz.

26 D 1757..................Each 6.75

Z PS-88 SCREWDRIVER SET

Ten pieces: 5 slotted screwdrivers—³⁄₃₂″, ⅛″, ⁵⁄₃₂″, ³⁄₁₆″, ¼″; 3 Phillips—#0, 1, 2. All above 3½″ pocket size. Hollow-handle (1x3⅛″) "torque amplifier" slips over tool for grip, and power of standard drivers. Plastic case. Shpg. wt., 11 oz.

26 D 2579..................Each 3.93

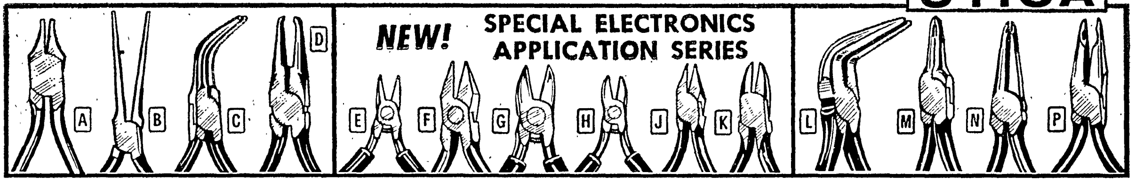
AA PS-120 NUTDRIVER SET

Twelve pieces: 10 color-coded nutdrivers—³⁄₃₂″, ⅛″, ⁵⁄₃₂″, ³⁄₁₆″, ⁷⁄₃₂″, ¼″, ⁹⁄₃₂″, ⁵⁄₁₆″, ¹¹⁄₃₂″, ⅜″. All 3½″ pocket size. Also "torque amplifier" handle, case described above. Shpg. wt., 11 oz.

26 D 2194..................Each 5.55

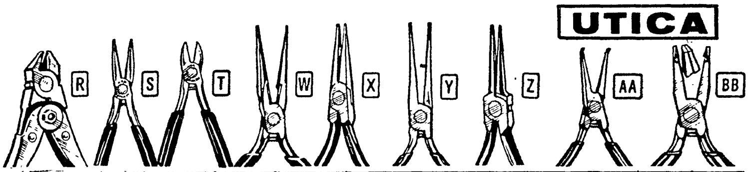
Tools for the Electronics Industry

UTICA



Stock No.	Fig.	Mfr's Type	Length O'all	Length T-Pt.	Description	Asstd. Ea. 1-5	Asstd. Ea. 6-Up
26 D 2961	A	141	5″	25/32″	Diagonal Cutting Pliers	3.64	3.17
26 D 2950	A	141	6″	13/16″	Diagonal Cutting Pliers	3.75	3.38
26 D 2971	B	779	6″	23/64″	Long Needle-Nose Pliers, Dowel Pin	3.34	3.00
26 D 2963	C	776	6″	1 1/16″	Curved Long Needle-Nose Pliers	3.34	3.00
26 D 2964	D	262	5 1/2″	1″	†Transverse End Cutting Nipper	3.30	2.97
26 D 3112	E	38	4″	7/16″	*Semi-Flush Edge Cutting Pliers	3.56	3.20
26 D 2968	F	42	4″	21/32″	*Flush Edge Cutting Pliers	4.20	3.78
26 D 3113	G	44	5″	3/4″	*Semi-Flush Edge Cutting Pliers	3.22	2.90
26 D 3114	H	46	4″	1/2″	*Semi-Flush Edge Cutting Pliers	2.81	2.53
26 D 2962	J	47	4″	1/2″	*Flush Edge Cutting Pliers	3.75	3.29
26 D 2969	K	49	6″	3/4″	*Semi-Flush Edge Cutting Pliers	4.13	3.72
26 D 2965	L	888	6″	1 1/8″	Curved Needle-Nose Pliers	3.25	2.85
26 D 2966	M	896	6″	15/16″	Electronic Cutting Pliers	3.72	3.35
26 D 2967	N	897	7″	1 19/32″	*Tip Cutting Pliers	4.79	4.25
26 D 2970	P	261	4 1/2″	1 1/16″	*Short Chain-Nose Cutting Pliers	3.30	2.97

UTICA



26 D 2951	R	470	5″	1/2″	Cut/Crimp Printed Circuit Pliers	3.99	3.49
26 D 2469	S	34-6CSF	6″	1/2″	Diagonal Cutting Pliers, 6″ Handle	4.61	4.15
26 D 2468	T	23-6CSF	6″	1/2″	Short Chain-Nose Pliers, 6″ Handle	3.90	3.50
26 D 3139	W	654	5 1/2″	1 25/32″	Long Chain Nose Side Cutting Pliers	3.08	2.77
26 D 3140	X	23	4″	29/32″	Short Chain Thin Nose Pliers	2.72	2.45
26 D 3141	X	23	5″	1 1/32″	Short Chain Thin Nose Pliers	2.77	2.49
26 D 3142	Y	774	5 1/2″	2 7/16″	Electronic Wiring Pliers	4.09	3.68
26 D 3143	Z	778	6 1/2″	1 7/8″	Needle Nose Pliers	3.11	2.80
26 D 3144	AA	25GR	5″	1 1/16″	Bent Chain Nose Pliers	4.50	4.05
26 D 3145	BB	U894-4	4″	1 1/16″	Dyke-Tip Cutting Pliers	4.94	4.44

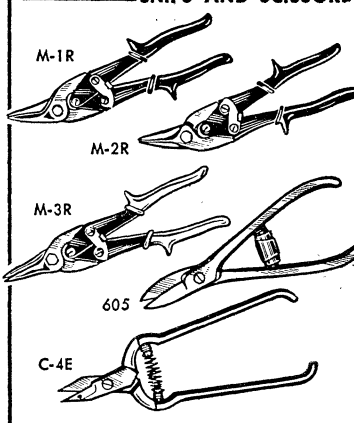
DROP-FORGED ALLOY-STEEL TOOLS

Utica electronics instruments packed with quality features. Jaws electronically induction-hardened; edges are hand-honed for delicate electronics work. Coil spring holds pliers in open position; reduces operator fatigue and increases production-line efficiency. Handles are primer coated and dipped into heavy plastisol to provide smooth, comfortable grip for positive control. Heads and handles made of top quality forged steel; polished for appearance and connected at precision joints.

Cutting pliers have angled edge best for snap cuts in hard-to-reach areas. Needle-nose pliers have long reach for picking up small parts; dowel pin holds jaws in perfect alignment. Type 470 crimps, cuts and keeps wire from sliding back through hole of PC board.

*Diagonal cutting. In table at left, T-Pt. means length from tip to pivot. Av. wt., 6 oz.

WISS METAL MASTER SNIPS AND SCISSORS



Metal-Master Snips. Designed to transmit extra cutting power from handles to blades through compound leverage. Only 9 3/4″ overall, cut through metal with surprising ease. Cut straight lines, acute angles, complicated patterns, even perfect circles in sheet metal up to 18-gauge (.049″). Hot drop-forged molydenum steel cutters; steel handles far stronger than any hand power exerted.

Model M-1R. Makes 1 3/8″ cut to left. With red plastic grips.
26 D 3176. Wt., 1 lb. **3.29**

Model M-2R. Makes 1 3/8″ cut to the right. With green plastic grips.
26 D 3177. Wt., 1 lb. **3.29**

Model M-3R. Makes 1 1/2″ straight cut. With yellow plastic grips.
26 D 3178. Wt., 1 lb. **3.29**

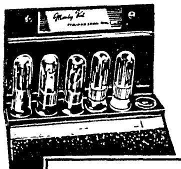
Electronic and Filament Scissors. Solid hot drop-forged steel blades.

Model 605. Straight blades, volute spring. 4 7/8″ long, cuts 1″.
26 D 3179 Wt., 1 1/8 lbs. **2.63**

Model C-4E. Triangular pointed blades, coil spring. 6 1/2″; cuts 7/8″.
26 D 3180. Wt., 1 7/8 lbs. **2.63**

Moody MINIATURE TOOL SETS

TOOL KIT



Consists of six individual Tiny Tool Sets—enclosed in separate plastic containers with chuck-type handle.

Includes all of the following:

SC-5 Screwdriver and Awl Set, Sizes: .055″ .070″, .080″, .100″; and 1″ Awl.

PA-5 Phillips Driver and Allen Wrench Set, Phillips Sizes: #0, #1; Allen Sizes: #4, #6, #8.

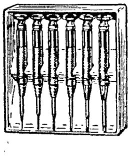
SW-5 Socket Wrench Set, Hex Socket Sizes: 5/64″, 3/32″, 7/64″, 1/8″, 5/32″.

OE-5 Open-End Wrench Set, 5 Sizes: 5/64″, 3/32″, 7/64″, 1/8″, 5/32″.

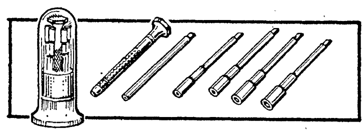
TS-5 Tap Set: 0-80, 1-72, 2-56, 3-48, 4-40 taps. #70 Tap Drill Set with 3/64″, #53, #50, #47, and #43 taps.

26 D 2022. Shpg. wt. 1 lb. **14.95**

JS-6 JEWELER'S SCREWDRIVER SET



6 jeweler's drivers with precision steel blades (.025″, .040″, .055″, .070″, .080″, and 1″), knurled handles, grooved chuck. Case, 3/4x4 1/2x3 3/4″. 1/2 lb.
26 D 1384.... Each 2.89
12 Sets or More.. Ea. 2.69



SETS FOR INTRICATE TASKS

BW-5 MAGNETIC SOCKET WRENCH SET. Includes 5 tiny, interchangeable steel hex wrenches and a magnetized, swivel-top handle with screw-type chuck. Ideal for inserting or removing tiny nuts from hard-to-get-at places. Wrench sizes are 5/64″, 3/32″, 7/64″, 1/8″ and 5/32″. Wt., 5 oz.
26 D 2021 .... **Each 2.59**
12 Sets or More .... **Each 2.39**

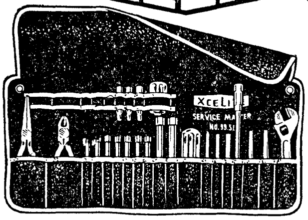
OE-5 OPEN-END WRENCH SET. 5 tiny offset steel wrenches, chuck-type handle—in plastic case. Wrench sizes are 5/64″, 3/32″, 7/64″, 1/8″ and 5/32″. 5 oz.
26 D 1126 .... **Each 1.64**
12 Sets or More .... **Each 1.47**

SC-5 SCREWDRIVER/AWL SET. 5 interchangeable, rust-resistant blades which fit universal, swivel-type handle with screw-type chuck. Blades include: 4 screwdriver types in sizes .055″, .070″, .080″, and .100″; plus a 1″ awl. In plastic container. Shpg. wt., 5 oz.
26 D 1152 .... **Each 1.29**
12 Sets or More .... **Each 1.16**

TS-5 TINY TAP SET. Heat-treated 6-pc. set in plastic case. Includes: 5 steel taps in sizes 0-80, 1-72, 2-56, 3-48, and 4-40; knurled chuck handle with torque hole for firm leverage; 5 oz.
26 D 1647 .... **Each 4.95**
12 Sets or More .... **Each 4.45**

Screwdrivers and Nutdrivers

XCELITE®



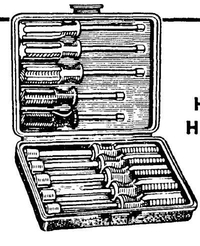
99SM SERVICE MASTER KIT

- Versatile 23-Piece Servicing Tool Set
- Plastic Roll-Up Pouch with Pockets

Complete 23-piece set of tools meets almost every servicing need for radio, TV, other equipment. Provides a variety of quick-change tools and tool combinations to speed up work.

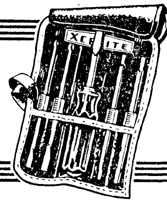
Includes: 6″ long-nose pliers; 5″ diagonal pliers; 6″ adjustable wrench; 9 regular nutdrivers from 3/16″ through 1/2″ in 1/16″ steps; 1/4″ stubby nutdriver; 5/16″ stubby nutdriver; 3/8″ stubby nutdriver; 3/16″ slotted screwdriver; 9/32″ slotted screwdriver; No. 1 Phillips screwdriver; 1/8″-3/8″ reamer; 1/4″-1/2″ reamer; 8″ extension blade; regular handle; stubby handle.

Amber plastic handles are breakproof and shockproof. In handy, durable, plastic-coated canvas roll-up pouch with individual pockets for each piece. Shpg. wt., 2¾ lbs.
26 D 1162........................24.87



SET OF TEN HOLLOW SHAFT HEX NUTDRIVERS

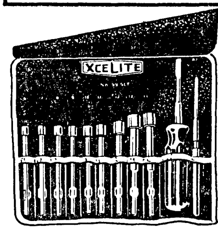
NO. HS6-18. Set of 10 nutdrivers with hollow shafts for tightening nuts on long screws. Case-hardened sockets, high-carbon steel shafts. Plastic handles have firm grip, are U.L. shockproof-approved. Sizes and colors: 3/16″ black; 7/32″ brown; 1/4″ red; 9/32″ orange; 5/16″ amber; 11/32″ green; 3/8″ blue; 7/16″ brown; 1/2″ red; 9/16″ orange. Plastic carrying case. 2 lbs.
26 D 1199........................11.10



COMBINATION REVERSIBLE SCREWDRIVER KIT

- Five Reversible Blades plus Handle
- Slotted, Phillips, and Clutch Blades

Shockproof, breakproof 4¼″ handle. Chrome vanadium steel blades snap in and out of handle easily. Spring lock holds them firmly. Metal hex socket in handle doubles as 7/16″ nutdriver. Blades: 3/16″ slotted and #1 Phillips; 1/4″ slotted and #2 Phillips; 5/16″ slotted and #3 Phillips; 3/16″ G and 5/32″ G clutch; 5/16″ G and 1/4″ G clutch. Plastic pocket roll. Shpg. wt., 1 lb.
26 D 2247.......... ....5.67



99PR NUT AND SCREWDRIVER SET

13 chrome-plated pieces in plastic roll-up pouch. Contains: 9 nutdrivers from 3/16″ to 1/2″ in 1/32″ steps; 2 combination screwdrivers with 3/16″ and 9/32″ regular screw blades on one of the ends plus standard Nos. 1 and 2 Phillips blades on the other ends; plastic handle. Wt., 2 lbs.
26 D 1259 ....9.42

26 D 1272. Model 99X10 8″ Extension. For use with 99PR nut and screwdriver set above. Extends shaft lengths of nutdrivers and screwdrivers to reach hard-to-get-into places. Shpg. wt., 5 oz... .... .90

PERFECTLY SIZED HEX NUTDRIVERS FOR FASTER SERVICING

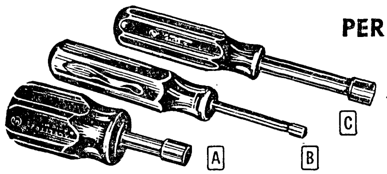
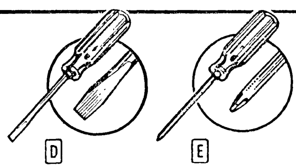


Figure C has hollow shaft for tightening nuts on long screws. Figure A is stubby type for limited space. Figure B is pocket-style nutdriver. Type HS-18 fits 9/16″ volume control nuts. "L"-Length. Shpg. wt., 6 oz., except Type HS-8, 5 oz.

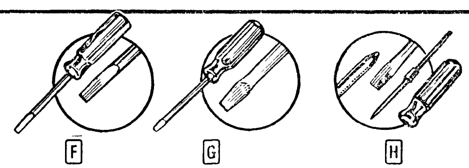
Stock No.	Mfr's Type	Fig.	Size	Handle	L	EA.
26 D 1220	P-3	B	3/32″	Blue	3½″	.51
26 D 1221	P-4	B	1/8″	Red	3½″	.51
26 D 1222	P-5	B	5/32″	Amber	3½″	.51
26 D 2263	P-6	B	3/16″	Black	3½″	.51
26 D 2264	P-7	B	7/32″	Brown	3½″	.51
26 D 1141	P-8	B	1/4″	Red	3½″	.51
26 D 2266	P-9	B	9/32″	Orange	3½″	.51
26 D 2267	P-10	B	5/16″	Amber	3½″	.51
26 D 2269	P-11	B	11/32″	Green	3½″	.51
26 D 2272	P-12	B	3/8″	Blue	3½″	.51
26 D 1300	S-8	A	1/4″	Red	3⅛″	.69

Stock No.	Type HS-	Fig.	Size	Handle	L	EA.
26 D 1648	6	C	3/16″	Black	6⅛″	.93
26 D 1649	7	C	7/32″	Brown	6⅛″	.93
26 D 1264	8	C	1/4″	Red	7″	.93
26 D 1646	9	C	9/32″	Orange	7″	.93
26 D 1265	10	C	5/16″	Amber	7″	.93
26 D 1266	11	C	11/32″	Green	7″	.93
26 D 1267	12	C	3/8″	Blue	7″	.93
26 D 1268	14	C	7/16″	Brown	7¼″	1.05
26 D 1269	16	C	1/2″	Red	7¼″	1.08
26 D 1270	18	C	9/16″	Orange	7¼″	1.14
26 D 1271	20	C	5/8″	Amber	7¼″	1.26



HIGH-QUALITY SCREWDRIVERS

- Chrome Vanadium Steel Shafts
- Plastic Handles



D ROUND-SHAFT SCREWDRIVERS. Winged design prevents turning of blade in handle. In lengths from 4¼″ to 12″.

Stock No.	Mfr's Type	Shaft Size Dia.	Shaft Size Length	Overall Length	Shpg. Wt.	EACH
26 D 1142	R-182	1/8″	2″	4½″	3 oz.	.33
26 D 1147	R-184	1/8″	4″	6½″	3 oz.	.42
26 D 1148	R-186	1/8″	6″	8½″	4 oz.	.48
26 D 1150	R-188	1/8″	8″	10½″	4 oz.	.57
26 D 1279	R-144	1/4″	4″	8″	6 oz.	.87
26 D 1280	R-146	1/4″	6″	10″	6 oz	.96
26 D 1281	R-148	1/4″	8″	12″	7 oz.	1.02

E PHILLIPS SCREWDRIVERS. All have chrome-vanadium steel blades; precision points. *Stubby type. †With pocket clip.

Stock No.	Mfr's Type	Shaft Tip	Shaft Length	Overall Length	Shpg. Wt.	EACH
26 D 1223	P-12S†	No. 0	2″	4¼″	3 oz.	.39
26 D 1154	X-101	No. 1	3″	6⅝″	5 oz.	.75
26 D 1155	X-108	No. 1	6″	9⅝″	5 oz.	.84
26 D 1156	X-102	No. 2	4″	7⅞″	6 oz.	.93
26 D 1157	X-1020	No. 2	10″	13¾″	8 oz.	1.29
26 D 1158	X-103	No. 3	6″	10¼″	10 oz.	1.26
26 D 1159	SX-101*	No. 1	1 7/16″	2¾″	3 oz.	.69
26 D 1160	SX-102*	No. 2	1 5/16″	3¼″	5 oz.	.78

F SET-SCREW TYPE SCREWDRIVERS. Narrow-blade screwdrivers fit standard set-screws. Have pocket clips.

Stock No.	Mfr's Type	Shaft Size Dia.	Shaft Size Length	Overall Length	Shpg. Wt.	EACH
26 D 1129	R-3323SS	3/32″	3″	5¼″	2 oz.	.33
26 D 1136	R-184SS	1/8″	4″	6¼″	2 oz.	.42

G SQUARE-SHAFT SCREWDRIVERS. Lengths from 7⅝″ to 18″.

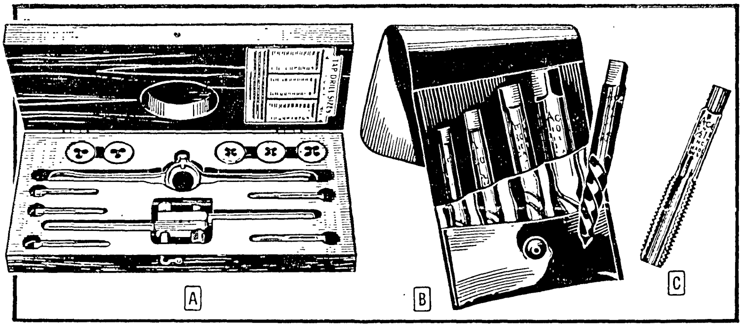
Stock No.	Mfr's Type	Shaft Size W. & D.	Shaft Size Length	Overall Length	Shpg. Wt.	EACH
26 D 1127	S-3164	3/16″	4″	7⅝″	4 oz.	.72
26 D 1137	S-144	1/4″	4″	8″	6 oz.	.90
26 D 1138	S-146	1/4″	6″	10″	6 oz.	.99
26 D 1139	S-148	1/4″	8″	12″	7 oz.	1.11
26 D 1140	S-388	3/8″	8″	12½″	1 lb.	1.50

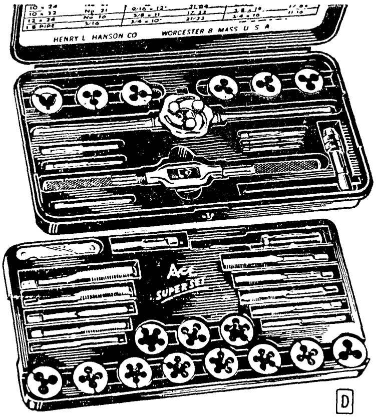
H COMBINATION-BLADE SCREWDRIVERS. With handle.

Stock No.	Mfr's Type	Blade Combination	Length	Shpg. Wt.	EACH
26 D 1260	CR1	3/16″ Slotted; #1 Phillips	7″	4 oz.	1.47
26 D 1261	CR2	1/4″ Slotted; #2 Phillips	7″	5 oz.	1.47
26 D 1262	CR3	5/16″ Slotted; #3 Phillips	7″	10 oz.	1.47

Taps / Dies, Punches, Magnifiers

HENRY HANSON "ACE" TAPS AND DIES AND SCREW-EXTRACTOR SET





[A] **S-21 RADIO TAP AND DIE SET.** One each tap & die: 6-32, 8-32, 10-24, 12-24, ¼-20. Tap and die wrenches. Mahogany box.
26 D 1318. Shpg. wt., 3 lbs. 7.95

S-613 TAP AND DIE SET. (Not illus.). One each tap and die: 4-36, 6-32, 8-32, 10-24, 10-32, 12-24. 2 tap wrenches, die wrench.
26 D 1288 ....12.95

[B] **MODEL S-35P SCREW-EXTRACTOR SET.** 5 extractors remove broken screws ⅜" to ⅝", bolts, studs, ⅛" and ¼" pipe. Alloy steel. In plastic case. 1 lb.
26 D 2652 ....1.98

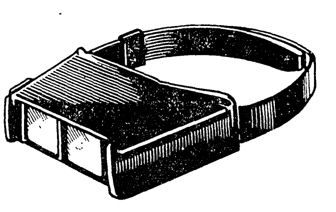
[C] **INDIVIDUAL TAPS AND DIES.** Made of tough carbon steel. Right-hand thread. Shpg. wt., 2 oz.

Size	Tap	EACH	Die	EACH
4-36	26 D 2214	.34	26 D 2225	.52
6-32	26 D 1525	.34	26 D 2226	.52
8-32	26 D 1526	.34	26 D 2227	.52
10-32	26 D 2219	.38	26 D 2228	.52
10-24	26 D 2223	.38	26 D 2229	.52
¼-20	26 D 2224	.41	26 D 2242	.52

26 D 2246. Tap Wrench. "T" handle unit for above taps. 2 oz. 53

[D] **MODEL 614V TAP AND DIE SET.** A complete set of taps and dies, plus all essential accessories. Precision-made set consists of one each, tap and die: 4-36, 6-32, 8-32, 10-24, 10-32, and 12-24 (Machine Screw Standard); ¼-20, 5⁄16-18, ⅜-16, 7⁄16-14, and ½-13 NC (U.S. Standard); ¼-28, 5⁄16-24, ⅜-24, 7⁄16-20, and ½-20 NF (S.A.E. Standard); ⅛" pipe. Also includes die stock, tap and reamer wrench, "T" tap wrench, screwdriver, and pitch gauge. All parts of this precisely crafted set are made of high-tempered, carbon steel. Wt., 4 lbs.
26 D 1391 ....26.50

"MAGNA-SIGHTER" 3-DIMENSIONAL MAGNIFIERS PREVENT EYESTRAIN

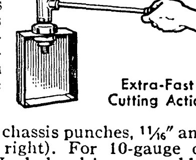


- 3-D Magnification Up to 3½ Times
- Ideal for Electronic Assembly

A wonderful help for anyone who must do close work. These lightweight binocular magnifiers permit you to do your close work without suffering eyestrain. "Magna-Sighters" offer three-dimensional magnification up to 3½ times. Feature precision-ground and polished prismatic lens. Headband is adjustable to ensure comfortable fit for anyone. You can choose from four different magnification powers. Av. shpg. wt., 1 lb.

Stock No.	Distance	Magnifies	EACH
26 D 2174	14"	1¾X	6.95
26 D 2175	10"	2¼X	6.95
26 D 2176	8"	2¾X	6.95
26 D 2177	4"	3½X	8.25

GREENLEE TYPE 1804 RATCHET KNOCKOUT PUNCH-DRIVER

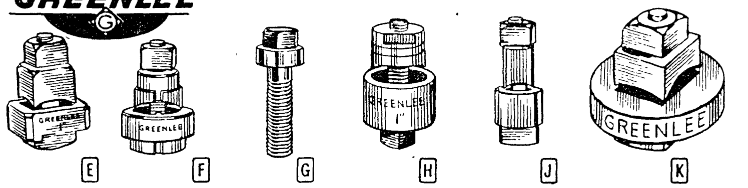


Extra-Fast Cutting Action

Anti-friction lead-thread of this punch driver gives you 6 to 8 times faster cutting action than the ordinary wrench method. For use with standard punches ½" to 3", and Greenlee 730 chassis punches, 1 1⁄16" and larger (listed at right). For 10-gauge or lighter material. Includes driver assembly, leverage and ratchet handles, 3 adapter screws. Works in any position. In metal case with compartment for smaller punches. Less punches. Wt.: Actual, 6½ lbs.; shpg., 13 lbs.
26 D 1603 ....55.86

GREENLEE — TOOLS FOR CRAFTSMEN

STRONG, SMOOTH-CUTTING CHASSIS PUNCHES



[E] **TYPE 731 SQUARE PUNCHES.** Cut square hole in up to 16-gauge metal with wrench. Drive screw requires ½" hole. Hardened tool steel. Wt., 2 lbs.
26 D 1397. For ½" hole 5.88
26 D 1399. For ¾" hole 5.78
26 D 1408 ....7.84

[F] **TYPE 732 "KEYED" PUNCHES.** Insert punch in drilled hole, turn with wrench. Require ½" hole except *¼" hole. 1½ lbs.

Stock No.	Size	EA.	Stock No.	Size	EA.
26 D 1386	*1 5⁄32"	5.29	26 D 1380	1 11⁄64"	5.88
26 D 1379	1 5⁄16"	5.24	26 D 1381	1 17⁄64"	6.57

[G] **BALL-BEARING DRIVE SCREWS.**
26 D 1605. AV112-BB. For 1" and 1½" punches. Wt., 1 lb. 1.13
26 D 1168. AV249-BB. For 1 7⁄16", 1⅝" and 1¾" punches. Wt., 1 lb. 2.55

[J] **Type 733 "D" PUNCHES.** For cutting "D" shape hole with ordinary wrench in chassis up to 16-gauge. Wt., 2 lbs.
26 D 1973. For ½" hole 4.56
26 D 1974. For ⅝" hole 4.85

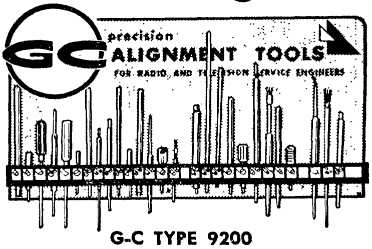
[K] **731R MINIATURE RELAY-SOCKET PUNCH.** Cuts clean, smooth holes for mounting miniature relay sockets. Needs only an ordinary wrench to do the job. Simply insert punch into a 9⁄16" drilled hole, and turn it with wrench. Cuts holes in metals with up to 16-gauge thickness. Hole dimensions: .861"x1.018". Shpg. wt., 10 oz.
26 D 2276 ....13.47

[H] **TYPE 730 ROUND PUNCHES.** Permit easy, rapid cutting of round holes in metal chassis for sockets, switches, controls, plugs, meters, transformers, panel lights, and other components. Punches cut smooth openings in sheet metal, bakelite, hard rubber and composition. Cut through metals up to 16-gauge thick. Extremely easy to use, just turn cap screw to cut hole—can be operated with only an ordinary wrench. No reaming or filing necessary. *Indicates meter cutout. Av. shpg. wt., 1½ lbs.

Stock No.	Hole Size	Lead Size	EACH
26 D 1337	½"	¼"	2.55
26 D 1349	⅝"	¼"	2.55
26 D 1600	9⁄16"	¼"	2.55
26 D 1306	11⁄16"	⅜"	2.55
26 D 1340	¾"	⅜"	2.55
26 D 1307	13⁄16"	⅜"	2.55
26 D 1342	⅞"	⅜"	2.55
26 D 1601	15⁄16"	⅜"	2.84
26 D 1343	1"	⅜"*	2.84
26 D 1360	1 1⁄16"	⅜"	2.94
26 D 1344	1⅛"	⅜"	2.94
26 D 1373	1 5⁄32"	⅜"	2.94
26 D 1345	1 3⁄16"	⅜"	2.94
26 D 1347	1¼"	⅜"	2.94
26 D 1348	1⅜"	⅜"	3.53
26 D 1374	1½"	⅜"	4.02
26 D 1312	1⅝"	¾"	4.80
26 D 1326	1¾"	¾"	5.49
26 D 1327	2"	¾"	7.35
26 D 1375	2¼"	¾"	7.94
26 D 1602	2½"	¾"	12.94
26 D 1385	2 23⁄32"*	¾"	12.35

You can always depend upon Allied for everything in electronics. We maintain the world's largest stock of electronic parts. And you always pay the lowest prices.

TV Alignment Tools, Kits and Service Aids



G-C TYPE 9200 ALIGNMENT TOOL KIT

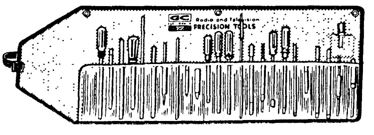
- 27 Most-Needed Radio-TV Alignment Tools
- Tools are Precision-Made of Finest Materials
- With Convenient Wall-Mounting Steel Panel
- Each Tool in Individually Marked Slot

Wall mounting kit includes 27 most needed radio-TV alignment tools. Tools are housed in sturdy, 3-color steel panel with 2-hole mounting. Each tool has an individually marked slot in the panel—desired tool can be located in seconds. All tools are precision made of the finest materials including low-loss plastics and extra-hard bone fiber; tips are hardened spring steel.

Kit includes: various length alignment screwdrivers; special short tools; alignment wrenches; channel tuners; core aligners; oscillator adjustment tools; trimmer and IF aligners; solder probe; nylon replacement tip for long reach aligner; hex tools; and a host of other useful tools.

Holding panel mounts conveniently on workshop wall. Size of panel is 9¾" high and 18¾" wide. Shpg. wt., 3 lbs.

26 D 1831 X. 16.95

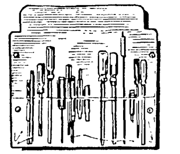


G-C TYPE 8283 TV TOOL KIT

- 25 TV Alignment Tools Most Often Required
- For Faster, Easier TV Servicing
- Case Rolls Up, Easily Fits in Caddy

Complete 25-piece master deluxe alignment tool kit for television use. In handy roll-up case; each tool has a slot of its own. Ideal for TV service engineers; can easily be taken on service calls. Consists of high-quality, precision-made tools, none over 9" in length. Kit includes: K-Tran tool; core aligner; long-reach aligner; flexible wand; short tool; and other helpful TV alignment tools. Shpg. wt., 1 lb.

26 D 1001. . . . . 15.49



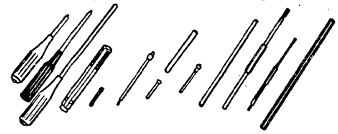
G-C TYPE 8280 TV TOOL KIT

- For Fast Alignment
- 16 Most-Needed Tools
- Handy Roll-Up Case

Roll-case of 16 most popular TV alignment tools. Kit includes: "Shorty" duplex aligner; tuning wand; core aligner; oscillator tool; long-reach aligner; ⅛" sq. socket wrench; K-Tran tool; 0.100 hex wrench; recessed screwdriver; and others. Tips of Delrin, extra-hard bone fiber, or hardened spring steel. Wt., 8 oz.

26 D 1002. . . . . 9.98

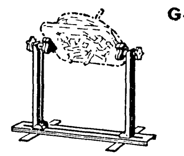
NEW! OSCILLOSCOPE ALIGNMENT TOOL KIT



Kit contains 14 tools that cover most any oscilloscope alignment needs. Indispensable in aligning Tektronix and other scopes. Includes: 4¾", 6½" and 10¼" nylon ceramic capacitor alignment tools; two slug and piston capacitor tools with recessed tips; 4½" alignment tool with recessed tip; trimmer adjustment tool; 2¼" alignment tool tip and 3" and 7" extension handles; long-reach 0.075 hex wrench; double-ended 0.100 hex wrench; duplex aligner with one end for thin, other end for standard diameter studs; ¼" hex socket neutralizing wrench. Sturdy plastic carrying pouch. 1 lb.

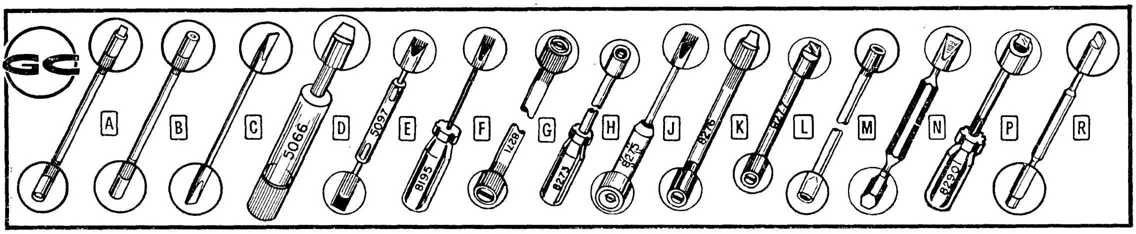
26 D 3060. . . . . 11.50

G-C CHASSIS CRADLE



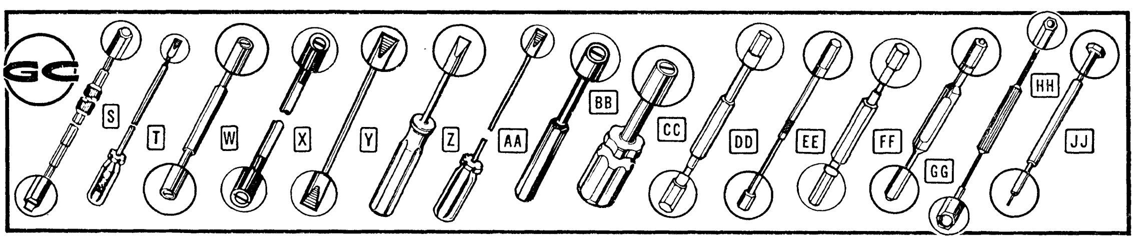
An important servicing aid for radio and TV repair shops. Adjustable cradle holds radio or TV chassis securely; permits 360° rotation for easy accessibility from any angle. Size, 24" long, 14" high, and 12½" wide. Shpg. wt., 7 lbs.

26 D 3710 X. 7.35



Stock No.	Type	Fig.	Description	Oz.	EA.
26 D 1021	5000	A	Alignment screwdriver	3	.41
26 D 3122	5003	B	RCA coil, pushbutton screwdriver	3	.53
26 D 3123	5004	C	Delrin all-wave set aligner	3	.48
26 D 1122	5066	D	2⅝"-long TV-FM aligner	2	.37
26 D 1015	5097	E	K-Tran and IF aligner	3	.76
26 D 1020	8195	F	Channel tuning tool	3	.71
26 D 2496	8271	G	Stackpole stud-type core aligner	3	.56
26 D 2494	8273	H	All-purpose TV aligner	3	.90

Stock No.	Type	Fig.	Description	Oz.	EA.
26 D 1014	8275	J	Zenith universal aligner	3	.50
26 D 1011	8276	K	Short duplex aligner	3	.50
26 D 2497	8277	L	2⅝" duplex aligner	3	.51
26 D 1585	8278	M	Extra-thin TV tuning wand	3	.52
26 D 1013	8282	N	Zenith .100 hex wrench and aligner	3	.36
26 D 2661	8290	P	Universal screwdriver aligner	3	.62
26 D 3124	8605	R	Capacitor/tuner hex and screwdriver	3	.63



Stock No.	Type	Fig.	Description	Oz.	EA.
26 D 1010	8606	S	Zenith-Admiral Delrin hex wrench	3	.47
26 D 2498	8607	T	12" nylon tip aligner	4	1.47
26 D 3125	8721	W	9" standard/thin stud aligner	9	.78
26 D 1019	8722	X	7" duplex #4 and #6 stud aligner	3	.65
26 D 1017	8728	Y	12" fiberglass screwdriver	3	.52
26 D 1016	8728A	Y	7" Delrin plastic screwdriver	3	.42
26 D 3126	8987	Z	7" blade plastic screwdriver	3	.63
26 D 2499	8988	AA	12" blade plastic screwdriver	3	.91
26 D 2492	8989	AA	16" blade plastic screwdriver	3	1.20

Stock No.	Type	Fig.	Description	Oz.	EA.
26 D 1009	9050L	BB	Zenith nylon alignment tool	3	.52
26 D 3127	9051	CC	Zenith-RCA alignment tool	3	.58
26 D 1012	9091	DD	.125" hex nylon wrench	3	.47
26 D 3128	9295	EE	11" long Delrin .100 hex	3	.63
26 D 1008	9296	FF	11" long nylon .075 hex	4	.62
26 D 3129	9300	GG	.075 hex coil slug and slignment	3	.48
26 D 1164	9302	HH	5⅜" Magnavox hex core aligner	4	.48
26 D 3130	9380	JJ	Hex driver for CTS type controls	3	.75

Chemicals and Servicing Aids

CLEANERS, LUBRICANTS AND SERVICING AIDS

G-C "JIF" CONTACT-CONTROL CLEANER

8670. Cleans, lubricates contacts, controls, switches, eliminating noise. Contains silicone. No harsh solvents, won't harm plastics. Non-flammable. Simply apply, work controls a few times. 6-oz. spray can. Shpg. wt., 10 oz.
26 D 3133................1.79

G/C "SPRA-LUBE" COLOR-TV TUNER CLEANER

8888. No-drift cleaner and lubricator formulated especially for servicing color TV tuners. Cleans away oxidation, dust and dirt, leaving only a light coating of lubrication. Won't harm plastics. Each 8-oz. aerosol can is complete with pin-point extension spray. Shpg. wt., 12 oz.
26 D 3135................1.95

INSL-X TOOL DIP

Red liquid-plastic hardens into insulating coating when applied to handles of pliers, wrenches, etc. Corrosive resistant. Dries in 24 hours. Just dip handles into can. In 32-oz. can. Wt., 2¼ lbs.
26 D 1754. 1-23...... . ..... .Each 3.40
24-Up........................Each 3.06

G-C "SPRA-KLEEN" CONTACT CLEANER

Eliminates noise due to dust, dirt and corrosion on contacts, switches. Contains no harsh solvents, won't harm plastic. Gives long lasting protection. Just spray and work mechanism. 6-oz. can. Shpg. wt., 10 oz.
26 D 1075 ... .97

G-C DE-OX-ID "SPRA-KOAT" CONTACT CLEANER. Stops noise in controls, switches. 2-oz. can. Wt., 6 oz.
26 D 1091.. 94

JET-PAK SPRAYON OUTFIT

Sprays any liquid. Uses no cords, no hoses. Powerful gas cartridge acts as power unit. Works at the touch of a button. Sprays up to 32 oz. of paints, etc. Includes head assembly, 4-oz. glass jar, 15-oz. power unit. Shpg. wt., 1½ lbs.
26 D 1638 .. .. 1.98
26 D 1640. 15-Oz. Refill. 1 lb.. ......1.20
26 D 1642. Extra 4-Oz. Jar...... ... .13

G-C "FREEZE-MIST" CIRCUIT COOLER

8668. Pinpoint bad capacitors and transistors, oxidized joints, by cooling components. Leaves no residue. With pin-point spray extension for hard-to-reach places. 6-oz. can. Shpg. wt., 10 oz.
26 D 3134................1.26

G-C "RELAY KLEEN" CONTACT CLEANER

8682. For cleaning relays and contacts. Leaves no residual deposits. Also an excellent solvent for all electrical and mechanical equipment. Non-flammable. Pin-point spray extension for hard-to-reach places. 6-oz. spray can. Shpg. wt., 10 oz.
26 D 3131.................1.89

QUIETROLE CONTACT-CLEANER SPRAY

Eliminates dirt, dust and corrosion from switches and controls without need for removal from chassis. Saves valuable time. Non-flammable. In 6-oz. spray can. Shpg. wt., 10 oz.
26 D 1719................ ....2.73

QUIETROLE CONTACT CLEANER. Identical to cleaner above, but in 2-oz. bottle with dropper. Shpg. wt., 4 oz.
26 D 1090.... ....1.69

G-C CARBON TETRACHLORIDE

Non-explosive, non-flammable carbon tetrachloride is safe for cleaning electrical controls and contacts, as well as many other electrical and mechanical components. Also excellent as an all-around household cleaner. 4-oz. bottle. Shpg. wt., ½ lb.
26 D 1621.. 82

CHEMTRONICS "FROST-AID"

Enables the serviceman to track down intermittents by cooling components. The fast way to find oxidized joints and bad components. 8-oz. spray can. Wt., 12 oz.
26 D 2554.. .... .1.69

G-C "ZERO MIST" CIRCUIT COOLER

8667. Cools components instantly, helping to pinpoint bad capacitors, transistors, oxidized connections. Spray extension. 16-oz. can. Shpg. wt., 1¼ lbs.
26 D 1099.... .. . .2.39

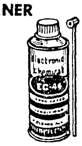
G-C "DRI-SPRAY" MOISTURE PREVENTIVE SPRAYER

8678. New sprayer cleans, lubricates, and displaces moisture, a prime source of corrosion that causes so many electrical equipment failures. Perfect for use on contacts, switches, motors, etc. Drives moisture out and keeps it out. Prevent troublesome corrosion before it starts with this handy sprayer. 6-oz. spray can. Shpg. wt., 10 oz.
26 D 3132........ ....1.79

"NO-NOISE" TUNER TONIC

Cleans and lubricates controls and switches. In 6-oz. spray can. Shpg. wt., 10 oz.
26 D 2397.......................2.20

"NO-NOISE" CONTACT CLEANER



EC-44. Effectively lubricates and cleans electrical contacts, controls, switches, relays, etc. Supplied in handy 6-oz. sprayer with 5″ plastic pushbutton assembly. Shpg. wt., 10 oz.
26 D 2552................3.42

CHEMTRONICS "CONTACT-KLEEN"

Cleans contacts, controls, relays, thermostats, switches, prongs, etc. Handy 8-oz. spray can. Shpg. wt., 12 oz.
26 D 2290...................... ....1.29

G-C TRANSISTOR Z5 SILICONE COMPOUND

8101. Special compound for better heat-transfer away from transistors and diodes. Apply compound when mounting, or re-mounting, semiconductors for a heat-sink-type action for maximum component life. 1-oz. injector. 2 oz.
26 D 1074.. .. ..2.06

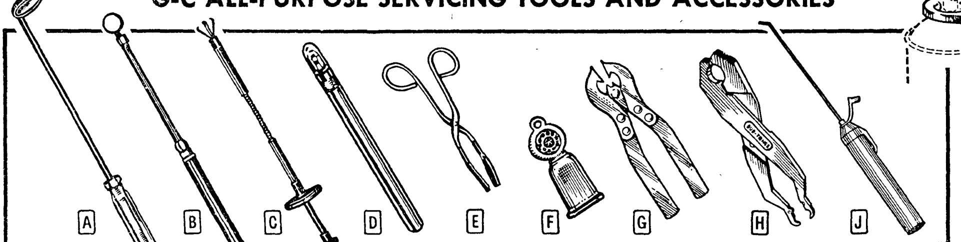
KRYLON CONTACT CLEANER/LUBRICANT

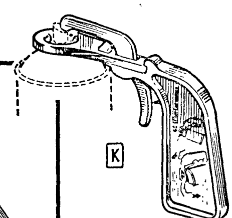
1333. Greaseless, nonflammable, nontoxic. Cleans controls, switches, tuners. Lubricates contacts. Does not harm plastics. With 5″ hose for hard-to-reach areas. 15-oz. spray can. Wt., 1½ lbs.
26 D 1372... . ...1.99

G-C SILVER PRINTED-CIRCUIT PRINT

21-2. Conductive circuit lacquer. Coating contains pure silver powder as pigment. For printed circuit repair or design. Brush in cap. 1 Troy oz. Wt., 4 oz.
26 D 1093........................5.64

G-C ALL-PURPOSE SERVICING TOOLS AND ACCESSORIES





Converts any spray can into spray gun. Keeps hands clean; eliminates hand fatigue. Attaches fast!

[A] 5090 INSPECTION MIRROR. 7⅞″ long overall. Clear, reflecting mirror is 1″ in diameter. Shpg. wt., 5 oz.
26 D 1006................ 41

[B] 8725 ILLUMINATED INSPECTION MIRROR. Anod. aluminum; 6″ lucite rod 1″ hinged mirror. Lamp illuminates hard to see areas. Less cells. 12¼″. 6 oz.
26 D 1007.........................1.97
18 D 5870. "Z" Cell. 1½-volt cell for above. Uses two. 3 oz... ....Pkg. of 2 for .20

[C] 5089 PICKUP TOOL. Press to open claws —release, close. Flexible 24″ shaft.
26 D 1741. 4 oz................. .96

[D] 705 TROUBLE-LIGHT. Illuminates dark corners. Supplied complete with bulb, 5½-ft. cord and plug. For 115 v. AC-DC. Shpg. wt., ½ lb.
26 D 1004.........................1.75

[E] TYPE 5092 TUBE PULLER. Scissors-type handle provides comfortable hold. Rubber tips curve to fit tube diameter and assure firm grip. 12 oz.
26 D 1325.............. .... .96

[F] 9130 TUBE GADGET. 3 tools in one. Straightens 7 or 9-pin min. tube pins; pulls tubes. 3 oz.
26 D 1003...... .... .90

[G] 8872 C-RING TOOL. Removes, inserts "C" washers, retainers. 2 oz.
26 D 1253.........................1.84

[H] 9356 FUSE PULLER. Shockproof nylon. Fits fuses 3⁄16-1″ dia. 2 oz.
26 D 1177.......................... .87

[J] 984-W REACH-ALL PEN OILER. Extends to 9½″, retracts. Stainless-steel .035″ tube. With oil (Mil-L-6085-A). Translucent container. Pocket clip, tube guard. 3 oz.
26 D 1165...... .... .97

[K] G-C 5900 SPRAY-CAN HANDLE. Snaps in place. Holds up to 35-oz. cans. 2 oz.
26 D 1178... . ... .48

Hardware for the Electronics Industry

SHEET METAL SCREWS. Hex head. Nickel-plated. Slotted, self-tapping. In packages of 100. Av. wt., 3 oz.

Stock No.	Mfr's Type	Description	PER PKG. of 100 1-9	10-49	50-Up
26 D 2593	6090-C	4x1/2"	.94	.75	.68
26 D 1032	6091-C	6x1/4"	.94	.75	.68
26 D 1033	6093-C	6x1/2"	.99	.79	.71
26 D 3200	6094-C	6x3/4"	1.08	.87	.78
26 D 1034	6096-C	8x1/2"	1.17	.99	.89

ROUND HEAD MACHINE SCREWS. Nickel-plated steel. In packages of 100. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Description	PER PKG. of 100 1-9	10-49	50-Up
26 D 1024	6005-C	4-36x1/4"	.52	.42	.38
26 D 2596	6005-AC	4-40x1/4"	.52	.42	.38
26 D 2597	6005-BC	4-40x1/2"	.57	.46	.41
26 D 1026	6006-C	4-36x1/2"	.56	.45	.40
26 D 1027	6008-C	6-32x1/4"	.57	.46	.41
26 D 1030	6009-C	6-32x1/2"	.67	.54	.49
26 D 2600	6011-C	6-32x1"	.89	.71	.64
26 D 2601	6014-C	8-32x3/8"	.84	.67	.60
26 D 2603	6017-C	8-32x1"	1.16	.93	.84
26 D 2605	6022-C	10-32x1"	1.36	1.09	.98
26 D 2607	7131-C	2-56x1/2"	.52	.42	.38

BINDING HEAD MACHINE SCREWS. Nickel-plated steel. In packages of 100. 4 oz.

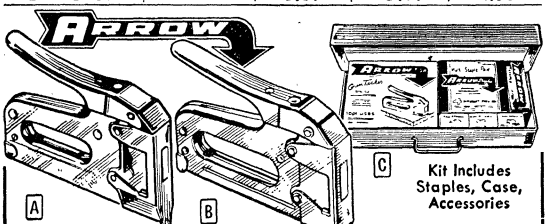
Stock No.	Mfr's Type	Description	PER PKG. of 100 1-9	10-49	50-Up
26 D 2618	7170-C	4-40x1/4"	.68	.55	.50
26 D 3201	7163-C	4-36x1/4"	.68	.55	.50
26 D 3202	7164-C	4-36x1/2"	.68	.55	.50
26 D 3203	7165-C	4-36x3/4"	1.59	1.27	1.14
26 D 2620	7151-C	6-32x3/16"	.57	.46	.41
26 D 1035	7152-C	6-32x1/4"	.57	.46	.41
26 D 1371	7153-C	6-32x3/8"	.62	.50	.45
26 D 1037	7118-C	6-32x1/2"	.71	.57	.51
26 D 1038	7119-C	8-32x3/8"	.97	.78	.70
26 D 2623	7120-C	8-32x1/2"	.94	.75	.68

RUBBER GROMMETS. Live black rubber. Long life. Supplied in packages of 100. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mtg. Hole	O. D.	I. D.	PER PKG. of 100 1-9	10-49	50-Up
26 D 1056	1041-2C	1/4"	11/32"	1/8"	1.21	.97	.87
26 D 1057	1041-C	5/16"	7/16"	3/16"	1.37	1.09	.98
26 D 3204	7566-C	3/8"	1/2"	1/4"	2.65	2.13	1.92
26 D 1058	1042-C	3/8"	9/16"	1/4"	1.81	1.45	1.31
26 D 1061	1043-1C	5/8"	13/16"	1/2"	3.13	2.50	2.25
26 D 1059	1043-C	1/2"	5/8"	3/8"	2.05	1.64	1.47
26 D 3205	5716-C	7/8"	1 1/8"	5/8"	6.18	4.96	4.47

CORD STRAIN RELIEFS. Will fit P.O.S.J. cord. Supplied in packages of 100. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	PER PKG. of 100 1-9	10-49	50-Up
26 D 3206	6675-C	5.67	5.11	4.60



ARROW FASTENER STAPLERS AND STAPLER KIT

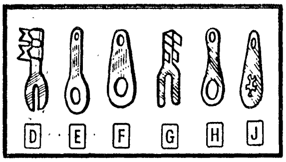
(A) **T-25 CABLE STAPLER.** Staples cable or round objects to 1/4" dia. Jam-proof mechanism. Loads 85 staples. 5 1/2x7 3/4".
26 D 1467. Wt., 2 1/4 lbs. 12.49

(B) **T-50 STAPLER.** Loads 85 staples. (.050") Non-jamming, double leverage action. Steel, with chrome finish. 5 1/2x8 1/8x3/4".
26 D 2653. Wt., 2 lbs. 10.41

(C) **T-50MP STAPLER KIT.** T-50 Stapler; 5000 staples (1/4"-9/16"); attachments for screen, wire, etc. Plus staple lifter, Case.
26 D 1466. COMPLETE KIT. Shpg. wt., 5 1/2 lbs. 14.57

STAPLES FOR ABOVE. 5000 per box. *For use with ceiling tiles. Shpg. wt., 1 lb.

Stock No.	For	WxL	EA.	Stock No.	For	WxL	EA.
26 D 1277	T-50	3/8x1/4"	2.08	26 D 2654	*T-50CT	3/8x9/16"	3.20
26 D 1273	T-50	3/8x5/16"	2.20	26 D 1274	T-25	1/4x3/8"	3.33
26 D 1276	T-50	3/8x3/8"	2.29	26 D 1468	T-25	1/4x7/16"	3.33



TINNED SOLDERING LUGS. Quality tinned soldering lugs designed for use with screws listed in tables at left. Types having No. 8 holes also take No. 6 screws. Figures D and G may be crimped and used as solderless lugs. In packages of 100. Av. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Hole Size	Lgth.	PER PKG. of 100 1-9	10-49	50-Up
26 D 2624	1021-BC	D	No. 6	21/32"	1.14	.91	.82
26 D 2626	5703-C	E	No. 6	9/16"	.97	.78	.70
26 D 2342	5704-C	E	No. 8	9/16"	1.81	1.45	1.31
26 D 3207	7445-C	D	No. 8	5/8"	1.30	1.04	.94
26 D 2628	1021-CC	E	No. 6	11/16"	1.00	.80	.72
26 D 2629	1021-FC	F	No. 6	9/16"	.99	.79	.71
26 D 3208	5706-C	F	No. 4	9/16"	1.81	1.45	1.31
26 D 3209	8466-C	G	No. 6	19/32"	1.71	1.37	1.24
26 D 3210	7454-C	H	No. 6	13/16"	.73	.58	.52
26 D 3211	7462-C	J	No. 6	5/8"	1.16	.93	.84
26 D 3212	7463-C	J	No. 8	5/8"	1.16	.93	.84

STEEL HEXAGON NUTS. Nickel-plated steel. Accurately threaded. In packages of 100. Av. wt., 4 oz.

Stock No.	Mfr's Type	Thread	Width	Thickness	PER PKG. of 100 1-9	10-49	50-Up
26 D 2335	7225-C	2-56	3/16"	1/16"	.74	.59	.53
26 D 1039	6041-C	4-36	1/4"	3/32"	.73	.58	.52
26 D 2635	6041-AC	4-40	1/4"	3/32"	.73	.58	.52
26 D 3213	6045-BC	5-40	5/16"	7/64"	.78	.63	.57
26 D 1043	6042-C	6-32	1/4"	3/32"	.74	.59	.53
26 D 3214	7230-C	6-32	5/16"	7/64"	.78	.63	.57
26 D 1044	6043-C	8-32	1/4"	3/32"	.78	.63	.57
26 D 3215	7233-C	8-32	11/32"	1/8"	.78	.63	.57
26 D 1042	6044-C	10-32	3/8"	5/64"	1.05	.84	.76
26 D 3216	6049-C	10-32	3/8"	1/8"	.94	.75	.68
26 D 3217	6050-AC	3/8-32	3/32"	5/64"	1.59	1.27	1.15

SNAP-ACTION HOLE PLUGS. Nickel-plated. *Screen vent type. In packages of 100. Av. wt., 2 oz.

Stock No.	Mfr's Type	Hole Size	PER PKG. of 100 1-9	10-49	50-Up
26 D 2642	1711-AC	1/4"	2.44	1.95	1.76
26 D 2643	1711-BC	5/16"	2.60	2.08	1.88
26 D 2644	1711-C	3/8"	3.33	2.67	2.40
26 D 2646	1713-C	5/8"	3.55	2.85	2.57
26 D 2649	*1708-C	1"	23.05	18.44	16.60

INTERNAL LOCK WASHERS. Cadmium-plated internal lock washers. Star-type. Supplied in packages of 100. O.D. indicates outside diameter. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Screw Size	O. D.	PER PKG. of 100 1-9	10-49	50-Up
26 D 1073	7324-C	No. 4	1/4"	.49	.39	.35
26 D 1045	7326-C	No. 6	9/32"	.49	.39	.35
26 D 1046	7328-C	No. 8	21/64"	.54	.43	.39
26 D 1047	7330-C	No. 10	3/8"	.54	.43	.39

METAL WASHERS. Nickel-plated metal washers. Designed for use with screw sizes indicated. Supplied in packages of 100 washers. Av. shpg. wt., 2 oz.

26 D 2631	6154-C	No. 4	9/32"	.54	.43	.39
26 D 2632	6155-C	No. 6	3/8"	.54	.43	.39
26 D 2633	6156-C	No. 8	7/16"	.54	.43	.39
26 D 3218	7306-C	No. 10	3/8"	.51	.41	.37
26 D 2634	6157-C	No. 10	1/2"	.54	.43	.39

SPLIT LOCK WASHERS. Cadmium plated. Supplied in packages of 100. Av. shpg. wt., 2 oz.

26 D 3219	6504-C	No. 6	15/64"	.52	.42	.38
26 D 3220	6505-C	No. 8	11/32"	.51	.41	.37

EXTERNAL LOCK WASHERS. Cadmium plated for long life. Supplied in packages of 100. Av. shpg. wt., 2 oz.

26 D 3221	7354-C	No. 4	....	.49	.39	.35
26 D 3222	7356-C	No. 6	....	.49	.39	.35
26 D 3223	7358-C	No. 8	....	.54	.43	.39
26 D 3224	7360-C	No. 10	....	.52	.42	.38

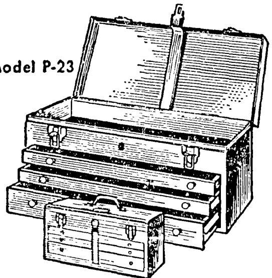
EXTRUDED FIBRE WASHERS. Overall thickness, .062". Supplied in boxes of 100 Av. shpg. wt., 2 oz.

26 D 3225	6525-C	No. 6	5/16"	.94	.75	.68
26 D 3226	6526-C	No 8	3/8"	.94	.75	.68
26 D 3227	6527-C	No. 10	7/16"	1.02	.82	.74
26 D 3228	6528-C	1/4"	1/2"	1.02	.82	.74
26 D 3229	6529-C	3/8"	5/8"	1.06	.85	.77

Versatile Tool Chests and Parts Boxes PARK

3-DRAWER MECHANIC'S CHEST

Model P-23

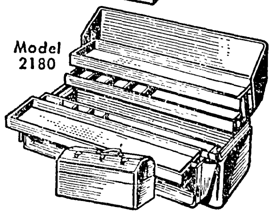


MODEL P-23N. Durable heavy-gauge steel chest with electrically welded seams, makes tools instantly available. All 3 drawers have full suspension slides. Drawers are securly locked when cover is closed and lock hasp and strap are in place. Overall size, 8½x20x 10¼". Till in top, 1½x18¼x8½". Has three drawers 1½x18¼x8¾"; Hardware plated against rust. Full-grip steel handle. Silicon-treated baked green enamel finish fights rust. Shpg. wt., 18 lbs.
26 D 2506 X.................... 10.95

26 D 2149 X Model P-22. As above but two drawers. 2⅜x18¼x7½". Wt., 16 lbs... 9.75

21-INCH 4-TRAY TOOL BOX

Model 2180

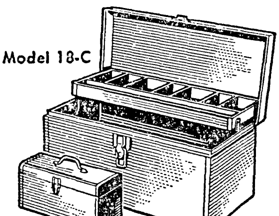


MODEL 2180. Four-tray tool box with huge storage capacity. 21" wide for long items. Has 2 full, and 2 partially partitioned cantilever trays. Storage space below trays. Heavy-gauge steel with electrically welded seams. Integral full-length hinge. Two drawbolts plus padlock eye. Heavily plated hardware. Silicone-treated baked green enamel finish. Size, 10x21x8½". Shpg. wt., 13½ lbs.
26 D 2144 X.................... 8.94

26 D 1774 X. As above, but smaller. Size, 10x17x8½". Shpg. wt., 11 lbs......... 7.88

CANTILEVER TRAY TOOL BOX

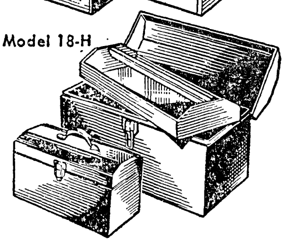
Model 18-C



MODEL 18-C. All-purpose box with extra large partitioned cantilever tray. Electronically welded heavy-gauge steel with cap end construction for extra strength and durability. Lid has integral full-length hinge. Heavy-duty one-piece construction drawbolt with eye for padlocking. Steel carrying handle. Silicon treated baked enamel finish. 8x18x9". Shpg. wt., 10 lbs.
26 D 3150 X.................... 5.95

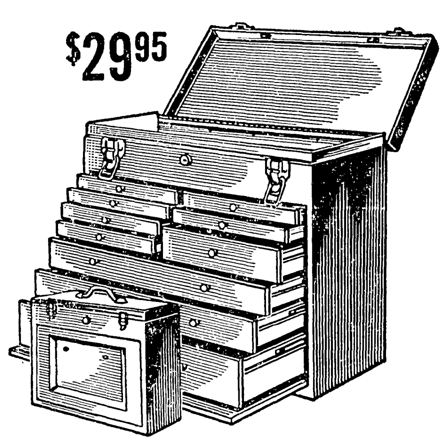
ROOMY HIP ROOF TOOL BOX

Model 18-H



MODEL 18-H. Large, industrial-quality hip roof tool box with lift-out tray. Electronically welded heavy-gauge steel with cap end construction for durability and strength. Lift-out tray has socket partition. Large storage area below tray. Lid has extra-strong integral full-length hinge. Heavy-duty open-piece-construction drawbolt with eye for padlock. Steel carrying handle. Silicon treated baked enamel finish with plated hardware. 9x18x8". Shpg. wt., 10 lbs.
26 D 3151 X.................... 5.95

$29^{95}

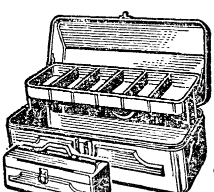


STURDY MACHINIST'S CHESTS

- Full-Suspension Drawer Slides
- Pin Tumbler Chest Lock With Keys
- Removable Felt Lined Drawers

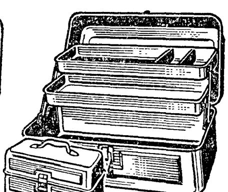
MODEL 1000 TEN-DRAWER CHEST. Loaded with storage space. Front panel slides into bottom compartment when open. Removable felt lined drawers are on full suspension slides to give you a complete view of contents. Full-length extra-strength hinge on lid, and tough one-piece drawbolts. Case is electrically welded heavy-gauge steel with brown baked enamel finish. Till in top measures 4x20x8½". All drawers are 7½" deep. Six drawers are 1x8⅝"; one, 2x8⅝"; and three are 18" wide by 1½", 2⅜", and 3" high respectively. Overall, 17½x20x8⅝". With lock and keys. Shpg. wt., 40 lbs.
26 D 2507 Z......................... 29.95

MODEL 700 SEVEN-DRAWER CHEST. Sturdy chest similar to Model 1000 above. Overall size, 13¼x 20x8½". Till in top, 4x20x8½". All drawers 7½" deep. Four drawers are 1x8⅝"; one, 2x8⅝"; one, 1½x18¼"; and one, 2⅜x18¼". Shpg. wt., 30 lbs.
26 D 2508 Z......................... 24.95



Model 151

Model 132



Model 13C1

15-INCH STEEL UTILITY BOX

MODEL 151. A general-purpose steel box with compartmented six-section tray. Box is constructed of deep-drawn seamless steel, with rugged nickel-plated hardware. All edges are turned and stiffened. Has full cantilever action on tray. Extra-strong electronically welded hinges. Durable baked enamel finish fights rust. Size, 15x4⅞x6½". Wt., 4½ lbs.
26 D 3155 X............... 3.49

LOCKABLE STEEL CASH BOX

MODEL 13C1. Steel cash box with a single, three-compartment tray. Features a built-in keyed lock for maximum security. Constructed of deep-drawn seamless steel with turned and stiffened edges. All hardware is nickel plated. Extra-strong electronically welded hinges. Full cantilevered tray action. Lustrous baked enamel finish. 13½x4½x6½". Wt., 3 lbs.
26 D 3154 X............... 2.29

GENERAL-PURPOSE TWO-TRAY TOOL BOX WITH CANTILEVER ACTION

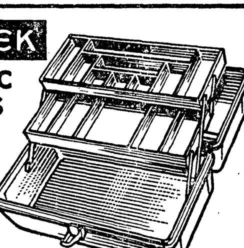
MODEL 132. General-purpose utility box. One tray has three compartments, one large, and two small. Deep drawn seamless steel with turned and stiffened edges. Electrically welded hinges and rugged nickel plated hardware. Full cantilever action on both trays. Comfortable carrying handle. Finished with durable baked enamel. 13½x5¾x6½". Shpg. wt., 4 lbs.
26 D 3152 X.. 2.95

MODEL 131 SINGLE-TRAY TOOL BOX. Similar to Model 132 above, but one tray. Size, 13½x4½x6½". Shpg. wt., 3 lbs.
26 D 3153 X.. 1.95

VLCHEK PLASTIC BOXES

Low As $2^{98}

Virtually Indestructible



Model 1212

TWO-TRAY BOX FOR SMALL PARTS

Lightweight small-parts caddy for the repairman, electrician, home handyman and hobbyist. Boxes and trays are practically indestructible, won't dent, shatter, warp, crack or peel. Impervious to gasoline, oil, salt water, etc. Box opens flat, can't tip. Full-length trays raise automatically with lid. Top tray has 9 compartments, bottom has 5. Features comfort contoured retractable handle. Heavy-duty "snap case" latch. Green case. 12⅜x7x6". Shgp. wt., 2½ lbs.
26 D 1772 X......................... 3.98

LOW-COST SINGLE-TRAY PARTS BOX

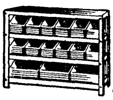
MODEL 1211. Similar to above, but single 9-compartment tray. "Snap case" latch, retractable handle. 12⅜x7x4⅝". 2¼ lbs.
26 D 3156 X......................... 2.98

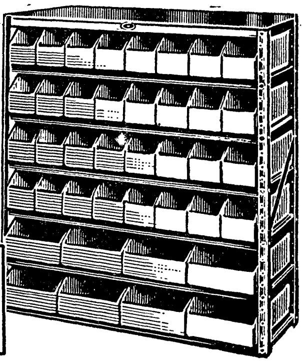
EDSAL

Shelving, Cabinets, Workbench and Carts

SPACE-SAVING CABINETS FOR SMALL PARTS

- Provides the Most Storage Space at Least Cost
- 40 Drawers in All
- 32 Big 4x11″ Drawers and 8 Jumbo 8x11″ Drawers
- Heavy-Duty All-Steel Frame
- Drawer-Stops—No Spilling


15-Drawer Low-Cost Cabinet



JUMBO-SIZE 40-DRAWER CABINET

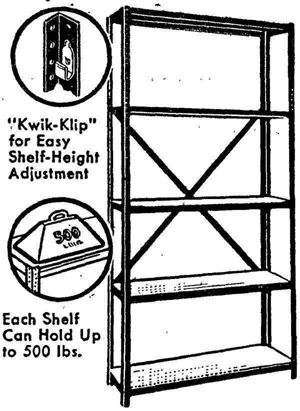
One of the handiest and best-built parts storage cabinets available. Perfect for industrial applications. Holds everything from small tools or hardware, to electronic components. Features a total of 40 drawers—32 big, 4x11″ and 8 jumbo-size, 8x11″ drawers in a single, portable frame. Several of these compact cabinets, used side by side, provide storage space for thousands of items. One-piece drawers of sturdy corrugated-board construction. A special stop-tab built into the rear of the cabinet keeps drawers from being pushed in too far, or pulled out too far—prevents accidental spilling. Rugged, heavy-duty, all-steel frame is 37x36x12″. Cabinet is shipped knocked down. Very easy to assemble—parts lock right into place. Shpg. wt., 37 lbs.

26 D 2145 K.................................. **14.95**

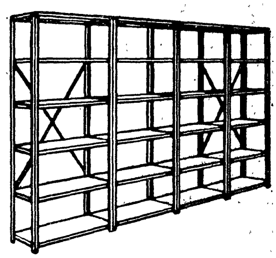
MEDIUM-SIZE 15-DRAWER CABINET. Same general features and construction as cabinet above. Includes 12 big, 4x11″ drawers and 3 jumbo-size, 8x11″ drawers. Each drawer is 4½″ high. Space-saving size—overall cabinet dimensions are only 26x21x 12″ deep. Shpg. wt., 16 lbs.

26 D 2470 K.................................. **5.98**

STEEL STORAGE RACKS


"Kwik-Klip" for Easy Shelf-Height Adjustment

Each Shelf Can Hold Up to 500 lbs.


Use these Compact Racks Singly or in Space-Saving Rows

- Very Easy to Assemble
- Rust-Resistant Finish
- Extra Shelves Available

DELUXE HEAVY-DUTY STEEL STORAGE RACKS

Provide compact storage facilities. Units are complete and independent. Easy to assemble—bolt the tops and bottoms; shelves are held by unique "Kwik-Klip" fasteners. With 5 shelves; extra shelves, listed below. Posts punched at intervals for easy shelf adjustment. 75″ high, 36″ wide. Gray enamel finish. Deluxe shelves hold up to 500 lbs. each.

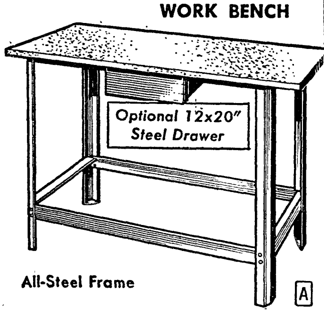
26 D 1783 U. With 12″-Deep Shelves. 47 lbs................ **9.49**
26 D 1784 Z. With 18″-Deep Shelves. 60 lbs................ **11.95**
26 D 1781 U. 12″ Extra Shelf. 6 lbs........................ **1.49**
26 D 1782 U. 18″ Extra Shelf. 8 lbs........................ **1.99**

LOW-COST STEEL STORAGE RACKS

These shelf and rack units offer similar compact storage and construction features of the deluxe racks above, but hold less weight. Each rack has 5 shelves; 4-bolt construction. Shelves hold up to 275 lbs. each. "Kwik-Klip" fasteners permit fast, easy shelf adjustments.

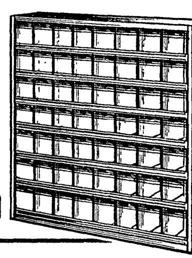
26 D 1801 U. Type 7230. 73x30x12″. 23 lbs................ **6.95**
26 D 1802 U. Type 7218. 73x36x18″. 29 lbs................ **9.89**
26 D 1803 X. Extra 12x30″ Shelf for 7230 Unit. 3 lbs......... **1.19**
26 D 1804 U. Extra 18x36″ Shelf for 7218 Unit. 5 lbs......... **1.89**

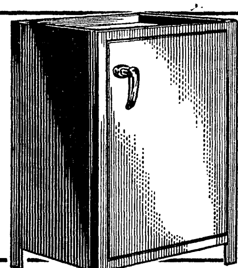
ECONOMY LINE WORK BENCH

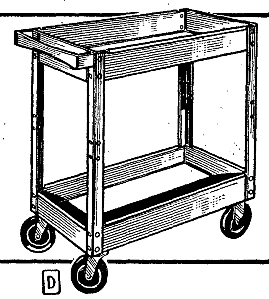


All-Steel Frame

A


B


C


D

[A] 5′ WIDE WORKBENCH. 1″ thick mar-resistant table-top. Cross-braced and self-supporting. 1-piece heavy-gauge steel legs. Gray, baked-enamel finish is rust-resistant. 34½″ high, 60″ wide, 24″ deep. Less drawers, below. Shipped knocked down, goes together quickly. Wt., 90 lbs.

26 D 2563 Z.................... **19.95**

WORKBENCH WITH PEGBOARD RACK. Like above, but has convenient 15″-high, reinforced pegboard tool rack, and is 48″ wide. Less drawers, below. Wt., 82 lbs.

26 D 1523 Z.................... **15.95**

STEEL STORAGE DRAWER. For benches listed above. Each bench will accommodate two drawers. Gray enamel finish. 3x12x20″. Shpg. wt., 12 lbs.

26 D 1524 X................ Each **3.19**

Allied is the best single source for electronic hardware. Get prompt shipment from complete stocks . . . buy at factory prices.

[B] B49 SORTING CABINET

Handy cabinet solves the sorting problems of offices, mail rooms and shops. Features 56 separate compartments that are adjustable on 1″ centers with snap fasteners. Dividers can be moved to left or right in 1″ increments to handle changes in work flow, or can even be removed entirely for wider spacing. Cabinet mounts on stand or wall; can be stacked or aligned side by side for greater sorting facilities. Front of each shelf has 1″ lip to prevent overflow. Convenient, full-width label holders for compartment identification. Gray, baked-enamel finish. Each compartment is 5¼x 4x8¾″ deep. Overall size, 37½x34¾x9″ deep. Shpg. wt., 60 lbs.

26 D 2274 Z.................... **26.26**

[C] COMBINATION STORAGE CABINET AND HANDY WORK TABLE

Sturdy steel cabinet doubles in function. Makes a handy metal storage cabinet ensuring safe, secure, locked-in storage of valuables. Smooth, sturdy top permits it to double as a handy, all-around work table. Vises, grinders, office machines and small power tools can be easily mounted on top. Heavy-gauge steel construction. Swinging door has cylinder-lock built into chrome-plated handle. Contains three adjustable shelves. Top has 2″ elevation of sides to prevent tools and parts from sliding off. Top size: 15½x21″. 32″ high. Supplied with detachable feet. Shpg. wt., 90 lbs.

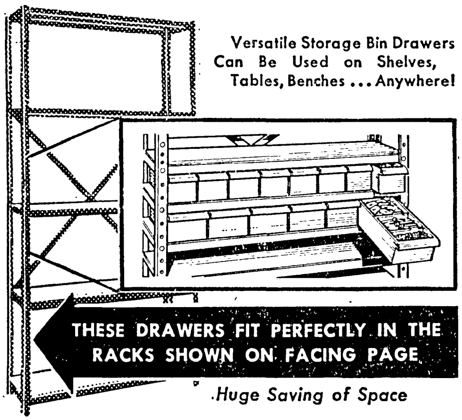
26 D 1707 Z.................... **19.95**

[D] TYPE SC-2024 HEAVY-DUTY SERVICE CART

Rugged, material-handling cart saves steps, time and money in stock rooms, offices. Has 5″ heavy-duty, hard-rubber casters—two stationary and two that swivel. Two reversible pan-type trays have rolled edges. Comfortable, formed-steel tubular handle. Finished in gray, phosphatized, baked-on enamel. 32″ high. Trays are each 3½″ high, 24″ wide, and 36″ long. 55 lbs.

26 D 1710 Z.................... **24.95**
26 D 1711 Z. Type SC 2016. As above, but trays are each 3½x16x30″. 57 lbs.... **19.95**

Storage Drawers and Cabinets for Every Need



Huge Saving of Space

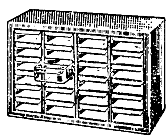
AKRO-MILS HEAVY-DUTY SHELF DRAWERS

Molded of virtually indestructible polystyrene, drawers can't dent, and are impervious to acids and chemical solutions. Safe, too ... no sharp edges. Drawer dividers permit rearrangement of internal compartments. Each kit includes one crosswise divider per drawer; one lengthwise, and two half-wide, dividers per kit. Drawers fit standard 36x12" shelving. Shelving not included.

XT-3 10-DRAWER KIT. Each, 3 1/32x11x3 1/8" wide, with 104 cu. in. capacity, 6 1/2 lbs.
26 D 1717 X 6.99

XT-5 6-DRAWER KIT. Each, 3 1/32x11x5 1/4" wide, with 175 cu. in. capacity. 5 1/2 lbs.
26 D 1718 X 6.99

HBA UTILITY CABINETS

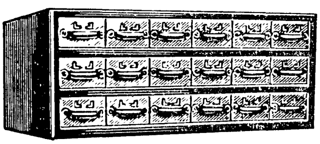


Can Be Stacked or Wall-Mounted

Welded steel-frame cabinets are rugged. Have clear styrene plastic drawers, 2 3/4x5 3/4x1 1/4" each. Have adjustable divider that locks tightly in place. Safety tab prevents accidental spilling. Stack neatly and securely; can be wall-mounted. Baked-on silver-gray hammertone finish. With labels and one divider per drawer. All drawers are 6" deep.

Stock No.	Mfr's Type	No. of Drawers	Size, HxW	Lbs.	EACH
26 D 1738 X	12HBA	12	6 1/2x10"	4	2.99
26 D 1739 X	18HBA	18	9x10"	5 1/2	4.31
26 D 1780 X	24HBA	24	9x13"	7	5.23

EQUIPTO HEAVY-DUTY CABINETS



MODEL 11 18-DRAWER STORAGE CABINET

Ideal for storing small parts in easily accessible arrangements. Each drawer has two removable cross-dividers that are adjustable to any 1" interval of drawer length. Jamproof drawers have large, easy-to-hold handles. Label-holders on drawers and dividers ensure quick identification. Heavy-duty, all-steel frame. Olive-green finish. Each drawer is 3 1/8" deep, 5 3/8" wide, and 11" long. Cabinet can be stacked. Overall cabinet size is 13 3/4x34x12". Shpg. wt., 62 lbs.
26 D 3705 Z 29.95

MODEL 22 18-DRAWER CABINET. Similar to above, but has 18 drawers, each 3 1/8" deep, 5 3/8" wide, 17" deep. Overall cabinet size, 13 3/4x34x18". Shpg. wt., 95 lbs.
26 D 3720 Z 39.95

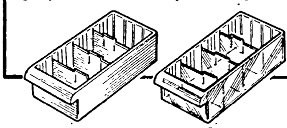
MODEL 8 8-DRAWER CABINET. Similar to Model 11, above, but has 8 drawers, each 3 1/8" deep, 5 3/8" wide, 11" deep. Overall cabinet size, 9 1/2x23 1/4x12". Shpg. wt., 40 lbs.
26 D 3706 U 17.50

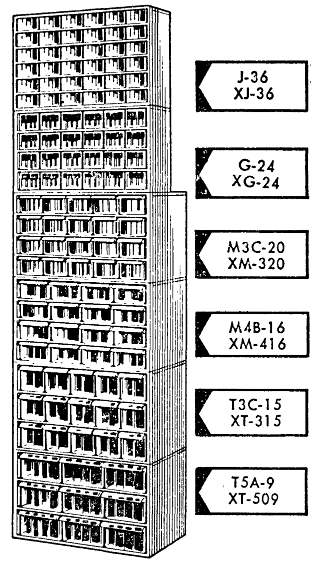
A-M AKRO-MILS

SPACE-SAVING MODULAR CABINETS FOR UNLIMITED STORING

MODULAR *Design*

Modular cabinets are available with choice of transparent, standard-strength drawers, or non-transparent gray drawers of "super-strength."





RUGGED STYRENE DRAWERS

Safe ... No sharp edges. **Adjustable Compartments** ... Dividers are slotted so drawers can be divided lengthwise, crosswise, or crisscross—permit any desired aggangement of compartments. **Firm Sides** ... Tight divider edges and drawer grooves prevent bulging. **Can't Be Overloaded** ... No matter what you fill them with, drawers do not sag, bend, or crack. **Spill-Proof** ... Safety catch at rear of each drawer anchors open drawers, holding them fast; remove by lifting slightly.

MODULAR CABINETS—THE FLEXIBLE WAY TO STORE SMALL PARTS

Akro-Mils introduces a new meaning to storage flexibility. Space-saving cabinets, with built-in look, reduce storage costs and promote greater labor, inventory and production efficiency. Can be used individually on any flat surface, in rows, or stacked vertically thanks to matching recesses stamped into tops. Keyhole slot permits wall-mounting. Welded steel frame ensures a lifetime of hard usage. Gray hammertone finish does not peel or chip. All cabinets are 17 7/8" wide* to permit easy combination. Av. wt., 15 lbs.

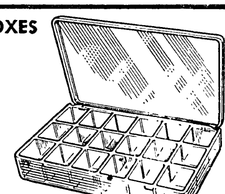
Cabinet H&D*	Drawers		With "See-Thru" Drawers			With Opaque Drawers		
	No.	HxWxD In.	Stock No.	Type	EACH	Stock No.	Type	EACH
11 1/8x6"	36	1 7/16x2 3/4x5 7/8	26D2501X	J-36	12.48	26D1722X	XJ-36	12.48
9 7/8x6"	24	2x2 3/4x5 3/4	26D1700X	G-24	12.48	26D1723X	XG-24	12.48
10 1/4x11"	20	2x2x11	26D1705X	M3C-20	19.98	26D1724X	XM-320	19.98
10 1/4x11"	16	2x4x11	26D3749X	M4B-16	17.98	26D1732X	XM-416	17.98
10 5/8x11"	15	3 1/32x3 1/8x11	26D1720X	T3C-15	17.98	26D2504X	XT-315	17.98
10 5/8x11"	9	3 1/32x5 1/4x11	26D1721X	T5A-9	17.98	26D2503X	XT-509	17.98

CROSS DIVIDERS FOR AKRO-MILS MODULAR CABINETS

Dividers are slotted so drawers can be divided lengthwise, crosswise, crisscross. Practically any required shape, size within dimensions of drawer can be obtained. Dovetailed divider edges and drawer grooves lock to prevent spreading. **Package 25, except *50.**

Stock No.	For Model No.	Per Pkg.
26 D 3094	J-36; XJ-36*	1.25
26 D 3095	G-24; XG-24	1.00
26 D 3096	MC320; XM-320	1.00
26 D 3097	M4B16; XM-416	1.00
26 D 3098	T3C15; XT-315	1.35
26 D 3099	T5A-9; XT-509	1.50

VLCHEK PLASTIC STORAGE BOXES



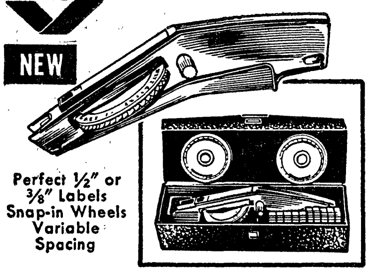
- Sturdy Hinge Design Stands Up to Frequent Usage
- Boxes and Compartments Available in Varying Sizes

Rugged, all-plastic storage boxes with hinged tops. One to thirty-six compartments. Hundreds of useful applications. Ideal for storing resistors, capacitors, fuses, hardware, etc. Molded of clear polystyrene plastic—"see-thru" quality lets you find what you're looking for. Strong hinge design. Type P250 has removable cover. *Total number of compartments in each box.

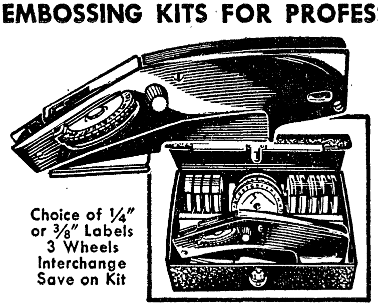
Stock No.	Type	*No.	Compartment Sizes	Overall Size	Lbs.	EACH
26 D 2375	P250	1	5 7/8x3 5/8"	6 1/4x4x1 11/16"	2/3	.38
26 D 2378	P203	6	1 1/4x3 15/16"	8 1/4x4 1/2x1 1/8"	1 1/2	.51
26 D 2379	P210	9	8—1 3/8x1 5/8"; 1—1 1/8x3 1/4"	7x3 3/4x1 1/4"	1	.37
26 D 2094	P812	12	2x4 3/16x2 1/16"	13 1/8x9x2 5/16"	...	1.95
26 D 2380	P201	12	6—1 1/4x1 1/4"; 4—1 1/4x2"; 2—1 1/4x3 15/16"	8 1/4x4 1/2x1 3/8"	1 1/2	.51
26 D 2381	P612	12	6—1 5/8x1 15/16"; 6—1 5/8x4"	11x6 3/4x1 3/4"	2	1.22
26 D 2382	P200	18	1 1/4x1 1/4"	8 1/4x4 1/2x1 3/8"	3/4	.51
26 D 2383	P618	18	1 5/8x1 15/16"	11x6 3/4x1 3/4"	2 1/2	1.28
26 D 2384	P818	18	12—2x2"; 6—2x4 3/16"	13 1/8x9x2 5/16"	3	1.95
26 D 2385	P824	24	2x2"	13 1/8x9x2 5/16"	3 1/2	2.03
26 D 2095	P166	36	1 1/2x1 1/16x1 9/16"	10x7x1 13/16"	...	1.35

Tapewriters, Electronic Templates, Slide Rules

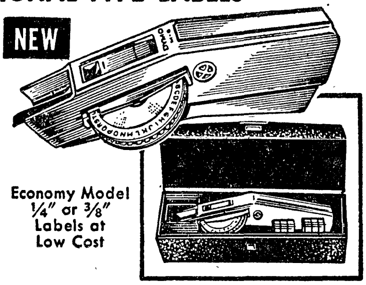
TOOL 'N' TAPE EMBOSSING KITS FOR PROFESSIONAL-TYPE LABELS



Perfect ½" or ⅜" Labels Snap-in Wheels Variable Spacing



Choice of ¼" or ⅜" Labels 3 Wheels Interchange Save on Kit



Economy Model ¼" or ⅜" Labels at Low Cost

Easy to use—just dial the letter, number or symbo you want, squeeze the handle and your message comes out crisp white against a brilliantly colored background. A squeeze of the trigger cuts off the label. A pull tab is automatically cut on the end of each label. Just hold this tab, pull off protective backing, and your raised-letter label is ready to apply. Permanent and self-sticking.

PROFESSIONAL ⅜" AND ½" KIT

M-20 LABELMAKER KIT. Deluxe embossing tool features dual tape track for quick change of tape width—½" or ⅜". Simple letter spacing knob varies spacing from regular to wide, for greater readability. "Snap-in" embossing wheels can be changed in seconds with no removable parts. Chrome finish body with plastic embossing wheels. Kit includes M-20 Tapewriter, 5 rolls of ½" vinyl tape in assorted colors, 5 rolls of ⅜" tape, standard and giant letter wheel, plus vertical letter wheel. Carrying case.
26 D 3185. Wt., 1 lb. **34.95**
26 D 3186. M-20 Tool Only **24.95**

DELUXE ¼" AND ⅜" KIT

M-10 LABELMAKER KIT. Now save off separate prices. Embosses ¼" *or* ⅜" tape. See-thru dial. Wide/regular letter spacing. Chromed die-cast zinc body, 9" long. Three character wheels: **Basic** (5/32" characters), A-Z, 0-9, $ ¢ % & . ' - /. **Vertical** (5/32") prints perpendicular to width of tape, 44 characters similar to above. **Giant** (3/16") A-Z, 0-9, ./. Ten 12-foot rolls assorted solid-color tape (6—⅜"; 4—¼"). Handy carrying case. Shpg. wt., 2 lbs.
26 D 1355 .... **19.95**
26 D 1353. M-10 Labelmaker Only. Basic and giant wheels. 12' tape. 13 oz. ... **14.95**

ECONOMY ¼" AND ⅜" KIT

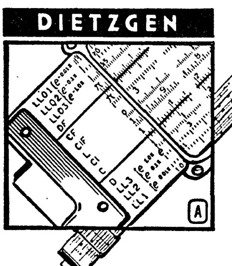
M-6 TOOL 'N' TAPE LABELMAKER KIT. Low-cost Tapewriter kit provides precision labels on both ¼" and ⅜" tape. Specifications similar to Model M-10 (at left) but the M-6 has a plastic body. Embosses the following on ¼" or ⅜" tape: A-Z, 0-9, $¢%&.,'-/. The complete kit includes the M-6 Tapewriter, three ⅜" vinyl tapes and two ¼" vinyl tapes. Small and large character wheels, with double spacing just like the more expensive models. In handy carrying case. Shpg. wt., 2 lbs.
26 D 3183 .... **9.95**
26 D 3184. M-6 Tool Only **6.88**

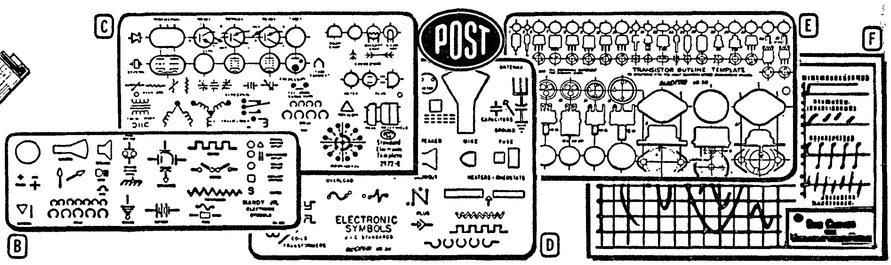
TAPE FOR DYMO LABELMAKERS—SAVE WHEN YOU BUY 6 OR MORE ROLLS

Tape (except ½") comes in convenient "throw-away" magazine. Has pressure sensitive adhesive back. Thermoplastic vinyl tapes have high-gloss finish that resists dirt, moisture, most acids, oil and grease. Will stick to most clean, smooth surfaces and withstand temperatures to 150°F. Perfect for indoor or outdoor use. "Clear" tape picks up the background to which it is applied (ideal where match is important). Striped tapes have gold-color outer edges. Colors (but not sizes) may be assorted for "6-roll" savings. 2 oz.

Stock No.	Label Size	Use With Labelmaker	Feet Per Roll	Type	Colors—Be Sure to Specify Choice	EACH ROLL 1-2	3-Up
26D2473C	¼"	M-6, M-10	12	Solid	Clear, Red, Orange, Blue, Grn., Yel., Brn., Blk., Gray, Gld., Wlnt.	.89	.75
26D1884C	⅜"	M-6, M-10, M-20	12	Solid	Red, Orange, Blue, Green, Yellow, Brown, Black, Gold, Walnut	1.10	.95
26D2017C	⅜"	M-6, M-10, M-20	10	Striped	Red, Blue, Green, Brown, Black	1.35	1.19
26D1903C	½"	M-20	12	Solid	Clear, Red, Orange, Blue, Green, Brown, Black, Walnut	1.49	1.25
26D2009C	½"	M-20	12	Striped	Red, Blue, Green, Brown, Black	1.79	1.59

SLIDE RULES AND ELECTRONIC DRAWING TEMPLATES





[A] MODEL 1734L DECIMAL TRIG-TYPE LOG LOG. Precision made 10" slide rule featuring special "Teflon" grooves that minimize friction. Settings can be made effortlessly, with surprising smoothness. All scale markings easily read. Front scales: LL02, LL03, DF, CF, CIF, L, CI, C, D, LL3, LL2. Back side: LL01, K, A, B, T>45, T<45, ST, S, D, DI, LL1. The S, ST and T scales are divided to read degrees and decimals of degrees. With handsome, genuine-leather carrying case, expertly-prepared instruction booklets. 1¼ lbs.
26 D 2283 S .... 1-5 Each **24.95**
6-Up .... Each **23.45**

MODEL N1725L VECTOR-TYPE LOG LOG. Same as 1734L (above), plus Hyperbolic Sine and Tangent scales (Sh1, Sh2, TH). Same Teflon grooves for easy settings. With carrying case and instructions. 1¼ lbs.
26 D 2279 S .... 1-5 Each **26.95**
6-Up .... Each **25.35**

MODEL 1738 DECIMAL TRIG-TYPE LOG LOG. Metal 10" rule. Scales: LL02, LL03, DF-CF, CIF, L, CI, C-D, LL3, LL2, LL01, K, A-B, X T. .45, T. .45, ST, S-D, DI, LL1. S, ST, T scales in degrees, decimals of degrees. Conversion slip, case. 1¼ lbs.
26 D 2275 S **17.95**

MODEL 1765P BASIC RULE. Plastic, break-resistant 10". Scales: K, A-B, CI, C-D, L. Degrees, minutes—S, ST, T. 10 oz.
26 D 2278 S **16.95**

MODEL 1776L POCKET RULE. Handy 5" size. Front scales: DF, CF, CIF, CI, C, D, I. Back: K, A, B, T, ST, S, D, DI. Leather case, pocket clip, instructions. 5 oz.
26 D 2280 S . . 1-5. Ea. **5.95**, 6-Up. Ea. **5.55**

[B] MODEL 2972½R ELECTRONIC SYMBOL TEMPLATE. Cathode, speaker, pushbutton, heater, ohm, ground, antenna, mike, switches, capacitors, resistors, fuse, battery, coils, outlets, pos./neg. 3x8⅜". 1 oz.
26 D 1958 .... **1.69**

[C] MODEL 2972R ELECTRONIC SYMBOL TEMPLATE. Tubes, rectifier, crystal, lamps, resistors, capacitors, meter, filament, connectors, plug, receptacle, transformers (std., delta, Y), relay, coils, revisions, ground, battery, switch, pushbutton, wafer switch, antenna, fuse. 5⅛x9¼". 1 oz.
26 D 1957 .... **3.60**

[D] MODEL 2972½D ELECTRONIC SYMBOLS. Sockets, meters, tubes, transistors, antennas, capacitors, chassis/ground, fuse, mike, speaker, battery, rectifiers, thermal overload, solenoids, heaters, rheostats, coils, transformers, plug. 5x7". 1 oz.
26 D 1956 .... **2.69**

[E] MODEL 2973D TRANSISTOR OUTLINES. Based on JEDEC standards. 27 cutouts top and side views. 5½x9½". 1 oz.
26 D 1959 .... **2.69**

[F] MODEL 2974R WAVE FORMS. Sine/var., DC, modulated carrier. 5½x8¼". 1 oz.
26 D 1972 .... **2.69**

Let Allied Help You Select the Finest Public Address Systems and Components

CHECK THESE BUYING ADVANTAGES:

- ✓ Wide Selections
- ✓ Finest Quality Equipment
- ✓ Expert Advice
- ✓ Special System Discounts

How to Select Public Address Equipment

FIRST CHOOSE THE SPEAKERS

FOR QUIET INDOOR AREAS use speakers in wall or ceiling baffles. 8" speakers are most popular. 12" speakers in large baffles provide better bass response. Wattage ratings given indicate the power speakers handle. Most offices need only ½ watt per speaker; warehouses and auditoriums may need as much as 5 watts of sound. Add up sound wattage required at each speaker location and total to determine amount of amplifier power needed.

FOR NOISY INDOOR AREAS AND OUTDOORS use horn-type speakers (projectors or trumpet/drivers). Larger horn-type speakers offer increased bass response. If matching transformers are needed (see below), some trumpet/drivers that have them built-in are available.

HOW MANY SPEAKERS? Most offices require ceiling speakers spaced about 25 ft. apart. Indoor horns (about 5 watts each) should be 25-50 ft. apart. In noisy areas, use small trumpets (about 5 watts) at specific points to be covered. Outdoors, for spectator groups, place speakers near the audience. For distant coverage (¼ to ½ mile) use projectors in a cluster. Sound columns (multiple speakers in a special housing) are recommended for schools, auditoriums and roller rinks. Use line transformers when different power levels are required at various speaker locations.

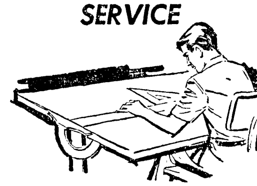
IN CORROSIVE VAPOR AREAS use a fiberglas horn. Contact our Audio Division for free data on submergence-proof, explosion-proof or other special-applications speakers you may require.

SYSTEM DISCOUNTS

SELECT YOUR OWN CUSTOM SYSTEM AT A SAVINGS

Use the data at left to help select the components for your particular application. Send your list to our Audio Division where experts will review it for proper matching—then we'll rush you a money-saving special system quotation.

EXPERT CONSULTING SERVICE



If your particular needs are not covered by the information at left, write to our Audio Division for free advice. Tell us if surrounding noise will be low, average or high, and approximate audience size. Send rough sketch of area and dimensions. (If indoors, include ceiling height.)

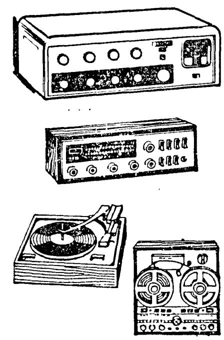
NEXT PICK THE AMPLIFIER AND SOUND SOURCES

POWER RATINGS. After you know the needed sound wattage for each speaker (see above), total the wattage required. If you need 6 horn-type speakers with 5 watts of sound per unit, and 5 cone speakers with 2 watts of sound per unit, multiply 6 times 5, and 5 times 2, then add together. Total power required is 40 watts. The Knight 50-watt amplifier would be a wise choice, allowing for future expansion.

ABOUT SOUND SOURCES. P.A. amplifiers have provision for one or more microphones, plus one or more other sources. Some are: tuner (FM and AM radio); TV sound; tape recorder; record changer or turntable. Level (fader) controls may be provided to adjust volume of different sources simultaneously. Most inputs are high-impedance to match microphones and auxiliary sources. Transformers are available to match low-impedance input sources.

OUTPUTS. P.A. amplifiers usually have speaker outputs for the constant voltage systems (25 and 70.7 v.) plus 4, 8, and 16-ohm taps. Constant-voltage systems simplify wiring multi-speaker installations where different power levels are desired at various locations. 25-volt constant-voltage system permits easier installation of speaker wires without conduit. Line matching transformers are required. For simple installations using speakers of equal power levels, use the proper impedance tap (4, 8, 16 ohms) provided. A free Allied bulletin "Multiple Speaker Installations" is available on request.

OTHER MUSIC EQUIPMENT. Accessory phono tops are available for most P.A. amplifiers. These permit playing records through the system. Tuners (for FM-AM radio), record changers and tape recorders may also be used. See index for listings in this catalog.



THEN SELECT THE MICROPHONE

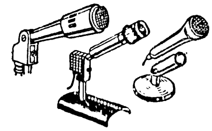
Microphone choice is primarily determined by intended use. No one mike will do every job equally well. When selecting a mike, consider the pickup element, pickup pattern and usage.

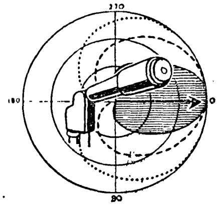
MICROPHONE ELEMENTS convert sound waves into electrical energy. Element types are crystal, ceramic, dynamic (including ribbon and controlled magnetic types), and carbon. Crystal mikes are inexpensive, have high output, wide response, but can be easily damaged by shock and extreme temperatures. Ceramic mikes are inexpensive, have relatively high output and wide response, resist climatic changes. Dynamic mikes resist shock and weather, have wider range and low distortion—suitable for orchestras, vocalists. Carbon mikes are inexpensive and rugged, have narrow response and high sensitivity.

PICKUP PATTERN of a microphone is determined by the design of its housing. Pickup or polar patterns are omnidirectional, bi-directional, cardioid, and differential. Omnidirectional mikes pick up sound from all directions. Bi-directional mikes from front and back. Cardioid mikes from front only. Differential or noise cancelling mikes eliminate all sounds originating more than a few inches from the mike.

HIGH IMPEDANCE mike inputs (most common) usually handle up to 2/25-ft. cables. Over 45 ft., use low-impedance mike with matching transformer. Db ratings indicate relative sensitivity; since numbers are negative, —48 db gives more output than —55 db mike. MIKE STANDS have ⅝"-27 thread, fit most mikes or adapters. CONNECTORS not supplied with most mikes since amplifier input connectors vary.

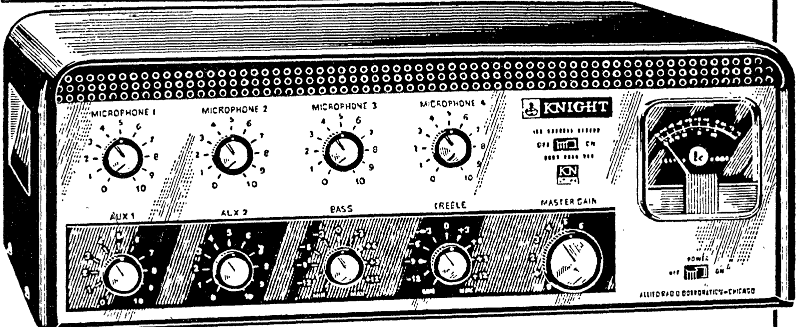
MICROPHONE APPLICATIONS. Crystal mikes are for speaking or a single musical instrument. Ceramic and dynamic types are recommended for voice and music reproduction, general-purpose Public Address installations and home tape recording. Many dynamic types are broadcast quality, well suited for professional tape and disc recording, as well as full-range music and voice reproduction. Use them for theaters, stage groups, auditoriums and schools. Carbon types are for narrow voice range only; some are noise-canceling types, intended mainly for Amateur, Citizens Band and other communication services.





KNIGHT PUBLIC ADDRESS

Heavy-Duty 50-Watt Amplifier



KN-3050HD 50-WATT P.A. AMPLIFIER

KN 3050HD

- Uses Components with Extra-High Margin of Safety Ratings
- Provides Dependable, Year-After-Year Continuous Service
- Controls and Inputs for Mixing Up to Four Microphones

Rugged, industrially-rated amplifier that's been designed to give years of dependable service. Advanced engineering is evident in the KN-3050HD's circuitry which incorporates components with extra-high margin of safety ratings to permit long periods of continuous operation. Extra-large power transformer and overrated filter capacitor permit amplifier to operate almost indefinitely with little or no attention. Mullard tubes in preamp section assure clear, hum-free, easy-to-listen-to sound output.

Extra-large master gain control provides quick, fingertip control of the overall volume level. Other highlights include: controls and inputs for mixing up to 4 microphones; separate boost and cut-type bass and treble controls. Special "anti-feedback" control reduces annoying howling and prevents trumpet burnout. Accurately calibrated sound level (VU) meter permits adjusting sound volume from a position remote from speakers. Also included are: output jack for tape recording; sockets for plug-in, low-impedance mike transformers (optional, see below); output tube balance and hum-bucking controls. Grounded 3-wire line cord and adapter. Size, 6⅞x17¼x11". Gray finish with green overlay. For 110-130 v., 50-60 cycle AC. Shpg. wt. 38 lbs.

14 D 5121 K **154.95**

14 D 5130. Plug-In Low-Impedance Transformer. For running very long cables from 50-600 ohm microphones to the KN-3050HD without any limiting or loss of frequency response. Allows runs of 200 feet in most instances, as far as 500 ft. in certain applications. Plugs right into amplifier; no wiring changes. Shpg. wt., 1 lb. **13.75**

KN-3050A 50-WATT P.A. AMPLIFIER

Has all the outstanding features of the KN-3050HD, with the exception of the heavy-duty power supply and Mullard preamp tubes. Uses regular, industrially-rated components which are excellent for normal commercial use. Has same large master gain control, anti-feedback control, and VU meter. Provides crisp, clear, hum-free sound ouput that does an excellent job at meetings, outings, in factories, in dining halls. Shpg. wt., 35 lbs.

14 D 5105 K **134.95**

CHECK ALL THESE IMPORTANT FEATURES

Calibrated Sound Level (VU) Meter

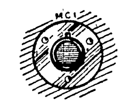
Accurately calibrated Sound Level (VU) Meter permits proper adjustment of volume level far away from speakers. Simply adjust amplifier output so needle points to previously determined setting. Also useful for balancing inputs.

The P.A. Amplifier with High-Fidelity Specifications

True Hi-Fi Response (±1 db, 30-20,000 cps), rarely found in P.A. gear, plus hi-Z inputs for every music source.

Anti-Feedback Circuit Prevents "Howling"

Anti-Feedback Circuit attenuates bass frequencies to help prevent feedback. Prevents "howling" and protects trumpets from burn-out.



"Lock-On" Microphone Connectors

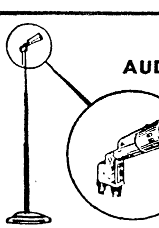
Locking-Action Mike Connectors prevent audio failure due to accidental pulling out of plug.

KN-3050HD AND KN-3050A SPECIFICATIONS

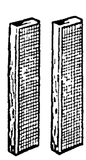
Power Output: 50 watts RMS (100 watts peak)
Response: ±1 db, 30-20,000 cps (at 50 watts)
Inputs: 4—Mic; 2—Aux (high-level phono, tuner, tape recorder, and 1—magnetic phono cartridge)
Controls: 4—Mic; 2—Aux; Bass; Treble; Master Gain; Anti-Feedback; Local/Remote Mike Control; Output Tube Balance; Hum Balance; Meter Calibrate; On-Off
Hum and Noise: 75 db below rated output
Input Required for Rated Output: Mic, .006 v.; Aux., .25 v.; Magnetic Phono, .012 v.
Outputs: 4, 8 and 16 ohms; 25 and 70.7 v.; Tape Recorder
Mic Connector: Amphenol 91-853 or Cannon XLR-3-12 (uses 4; 1 supplied). **Aux Connector:** Pin Plug (uses 2; 1 supplied)
Tubes: 8 tubes plus selenium rectifier

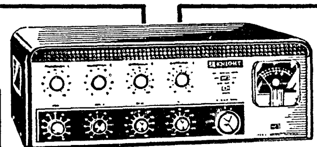
TOP-PERFORMING KN-3050HD P.A. SYSTEMS

DELUXE 50-WATT AUDITORIUM P.A. SYSTEM



$249.95

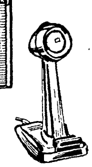




System price saves you $44.50. Excellent for auditoriums, churches. Covers up to 3000 persons. Includes: Knight KN-3050HD Amplifier; two Argos SD-1060 Sound Columns with 6 speakers each; E-V 664 Dynamic Mike; Atlas MS-10C Mike Floor Stand. Sound Columns, 30¼x7x3⅛", give even coverage front-to-back. Less speaker cable. 70 lbs.

14 D 0046 D5Z **249.95**

50-WATT INDOOR–OUTDOOR PAGING SYSTEM



$199.95

Save $27.82 off the cost of individual components. For stadiums, factories, offices, cafeterias. Covers areas up to 100,000 sq. ft. Includes: Knight KN-3050HD Amplifier; three E-V PA-30 30-Watt Weatherproof Speakers; Knight KN-4515 Crystal Mike with Desk Stand. Less speaker cable (use weatherproof type for outdoor installations. 53 lbs.

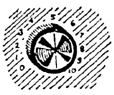
14 D 0047 D5Z **199.95**

Knight Public Address Equipment Is Available Only At Allied

35-Watt Amplifier, Systems

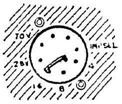
KNIGHT
PUBLIC ADDRESS

CHECK ALL THESE SPECIAL FEATURES



Extra-Large Master Gain Control

Extra-large and easy to grip for positive fingertip control

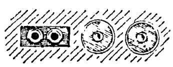


Speaker Impedance Selector

For instant selection of 4, 8, 16 ohms or 25 or 70.7 volts

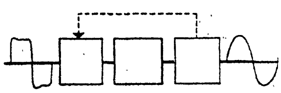
Anti-Feedback Control

Anti-Feedback Switch for attenuating bass to prevent "howling" and trumpet burn-out



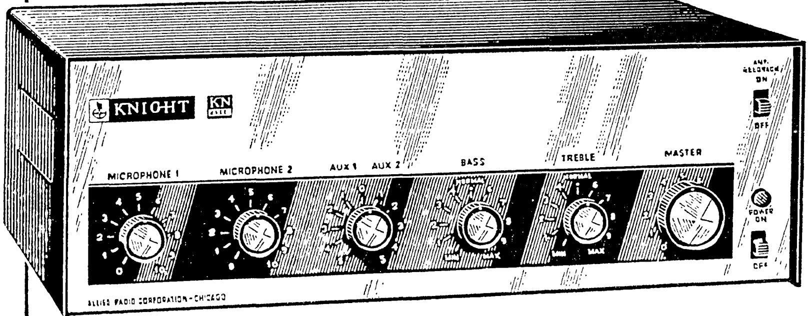
Multiple Inputs

Inputs include two Amphenol-type screw-on mike jacks and two pin jacks for phono or tuner



Wave-Shaping Circuit

Inverse Feedback reduces distortion and permits greater undistorted power output



KN-3235C 35-WATT P.A. AMPLIFIER

KN 3235C

- Unusually Versatile Design for Nearly Any P.A. Application
- Inputs for Phono, Tuner or Tape—for Use as Music System
- Outputs for Standard or Constant-Voltage Systems • Tone Controls

Built to give you the greatest value for your P.A. dollar. Combines power with versatility to provide outstanding performance in any application. Low in cost, it solves your budget problems. Its wide-range frequency response and high-gain auxiliary inputs for phono, tuner or tape recorder make it the perfect choice for moderate-size music systems in cafeterias, dining or dance halls, skating rinks, work areas and waiting rooms. Also provides excellent inter-plant paging service, as well as general coverage of meetings, assemblies and outings.

Separate mixer controls and inputs for two mikes; and common mixer control for two auxiliary inputs. Switchable anti-feedback control attenuates the lower frequencies enough to allow operation at high levels without feedback. Inverse feedback for superior audio quality. Separate, calibrated bass and treble tone controls can be adjusted to provide boost or cut to suit room acoustics and program material. Instant choice of output impedance—4, 8 or 16 ohms and 70.7-v. outputs, plus 25-v. output that permits installation of a constant-voltage sound system without conduit for speaker wires.

Size, 5x15¼x10¼". Styled in functional gray with handsome green overlay. For 105-130 v., 50-60 cycle AC. Shpg. wt., 23 lbs.
14 D 5103 K **56.95**

KN-3201A PHONO-TOP FOR KN-3275C, 3235C AND 3220A

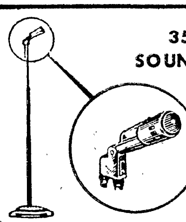
Manual record player mounts atop KN-3275C, 3235C and 3220A. Allows you to play up to 12" records at 16⅔, 33⅓, 45 and 78-rpm speeds. Has flip-over ceramic cartridge with dual synthetic-sapphire needles. Receives power from amplifier. 4½" high. Install it with just a screwdriver. With all cables and connectors. Shpg. wt., 6 lbs.
14 D 5106 X **17.95**

KN-3235C SPECIFICATIONS

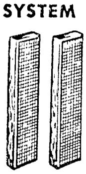
Power Output: 35 watts RMS (70 watts peak)
Frequency Response: ±2 db, 30-20,000 cps
Inputs: 2—Microphone; 2—Auxiliary (high-gain phono, tuner or tape recorder)
Controls: 2 Microphone; Auxiliary Fader; Bass; Treble; Master Gain; Anti-Feedback; On-Off
Outputs: 4, 8, 16 ohms; 25 and 70.7 volts
Microphone Connector: Amphenol 75MC1F (uses 2, 1 supplied)
Auxiliary Connector: pin plug (uses 2, 1 supplied)
Power Requirements: 105-130 volts AC; Amplifier, 50-60 cycles; optional Phono Top, 60 cycle only
Tubes: 6 tubes plus selenium rectifier

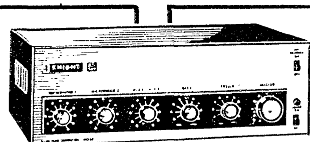
KN-3235C P.A. SYSTEMS OFFER OUTSTANDING VALUE

35-WATT INDOOR SOUND-COLUMN SYSTEM



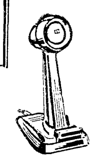
$159.95



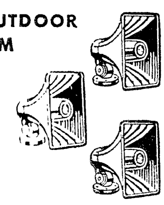


System price saves you $36.80. For average-size auditoriums, churches, restaurants, gyms. Covers up to 2000 persons. Includes: Knight KN-3235C Amplifier; two Argos SD-1060 Sound Columns with 6 speakers each; E-V 664 Dynamic Mike; Atlas MS-10C Mike Floor Stand. Sound Columns, 30¼x7x3⅛", cover wide area. 55 lbs.
14 D 0036 D6Z **159.95**

35-WATT INDOOR/OUTDOOR PAGING SYSTEM

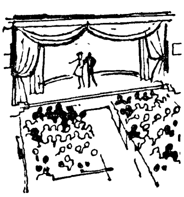


$114.95



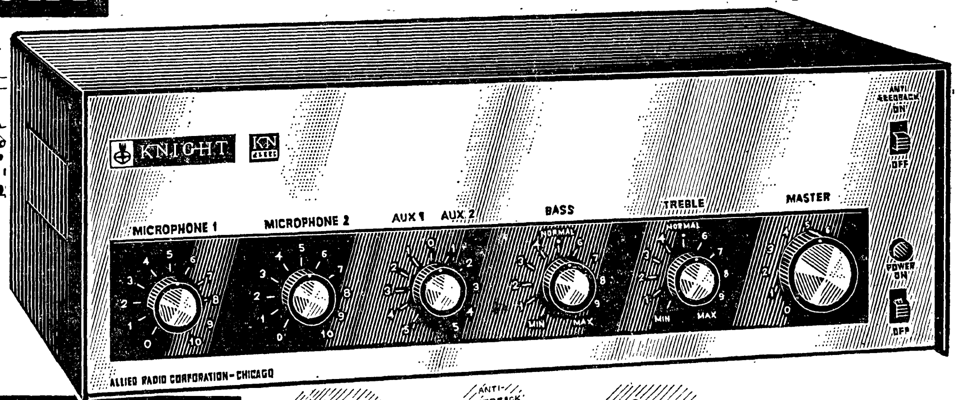
You save $19.04 off the cost of individual components. For small stadiums, parks, picnics, and indoor uses. Includes: Knight KN-3235C Amplifier; three E-V PA-30 30-Watt Weatherproof Speakers; E-V 719 Desk Mike. Less speaker cable (listed on a following page); use weatherproof type for outdoor installations. Shpg. wt., 41 lbs.
14 D 0037 D5U **114.95**

KNIGHT 75-Watt P.A. Amplifier and Systems



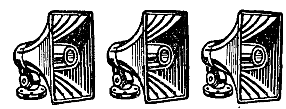
COVERS UP TO
200,000 SQ. FT.

KN
3275C



COMPLETE 75-WATT SYSTEMS FOR INDOORS OR OUTDOORS

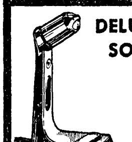
LOW-COST OUTDOOR SOUND SYSTEM $139.95

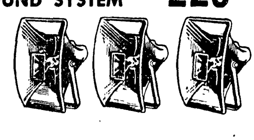


SAVE $19.69. For clear public address and background music over a wide area. Includes: Knight KN-3275C Amplifier; Turner 254C Desk Mike; 3 Electro-Voice PA-30 Projectors. Amplifier is described at right. Ceramic mike has on-off switch, 7-ft. cord. Weatherproof projectors made of fiberglass. Less speaker cable. 43 lbs.

14 D 0040 D5U................139.95

DELUXE OUTDOOR SOUND SYSTEM $229.50

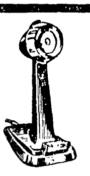


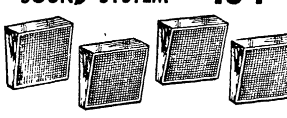


SAVE $26.11. For intelligible public address and background music. Includes: Knight KN-3275C Amplifier; Electro-Voice 719 Desk Mike; 3 Electro-Voice 848 CDP Projectors. Ceramic mike has push-to-talk switch, 16′ cord. Projectors have large horn for lows, small horn for highs, excellent dispersion, intelligibility. Less spkr. cable.

14 D 0048 D5Z. 78 lbs.........229.50

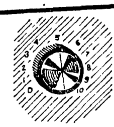
COMPLETE INDOOR SOUND SYSTEM $154.50





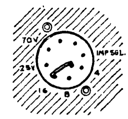
SAVE $6.20. Voice and music reproduction in auditoriums, restaurants, factories—even under noisy conditions. Includes: Knight KN-3275C Amplifier; Knight KN-4515 Desk Mike; 4 Utah Wall Baffles with 8″ Speakers, 70.7-V. Line Transformers and L-Pad Controls Installed. Crystal mike has on-off switch, 7-ft. cord. Baffles available in blonde or walnut finish—specify choice. 37 lbs.

14 D 0049 CD6U..............154.50

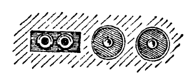


Extra-Large Master Gain Control

Anti-Feedback Control Prevents Howling



Instant Speaker-Impedance Selector



Inputs for 2 Mikes and 2 Auxiliary

KN-3275C . . KNIGHT'S MOST POWERFUL P. A. AMPLIFIER BLANKETS LARGE AREAS WITH 75 WATTS OF AUDIO POWER

- Has the Power Necessary for Stadiums, Factories, Large Auditoriums
- Anti-Feedback Control Attenuates Low Frequencies to Prevent Feedback
- "Quick Set" Selector Plug for Instant Choice of Desired Impedance
- Outputs for Standard Speakers or Constant-Voltage Speaker Systems

Everything about Knight's KN-3275C spells *value* . . . its looks, its design, its sound, its high-power applications. Dollar for dollar, you just can't get any more in a 75-watt P.A. amplifier. Expertly engineered to give you maximum versatility without compromising its dependable performance and extremely simplified operation. Its ability to maintain an exceptionally wide frequency response even with a large amount of power makes the KN-3275C the perfect choice for stadiums, factories, large auditoriums—anywhere maximum coverage is essential. Provides a full 75-watt audio output and up to 150 watts on peaks.

Features ample controls and inputs for most P.A. installations. Has separate bass and treble controls, plus a large master gain control. Separate mixer controls and inputs for two mikes; and common mixer control for both auxiliary inputs that take phono, tuner or recorder. Anti-feedback circuit, with front panel switch, attenuates the lower frequencies enough to allow operation at higher volume levels without feedback and to protect trumpets from burning out. "Quick Set" octal selector plug lets you instantly choose the proper output impedance—8 or 16 ohms and 70.7-volt outputs, plus 25-volt output that permits installation of a constant-voltage sound system without conduit for speaker wires.

Case is in charcoal gray and green. Size, 5x15¼x10¼″. With noise-free Amphenol 75MC1F microphone connector. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.

14 D 5104 U...84.95

KN-3275C SPECIFICATIONS

Power Output: 75 watts rms; 150 watts peak. **Frequency Response:** ±2 db, 30-20,000 cps. **Inputs:** 2 Microphone; 2 Auxiliary (ceramic or crystal Phono, and Tuner or preamplified Tape). **Controls:** 2 Mic; Aux Fader; Master Gain; Bass; Treble; Anti-Feedback switch; On-Off. **Gain:** Mic, 139 db; Aux, 97 db. **Hum and Noise:** 70 db below rated output power. **Input Voltage Required for Rated Output Power:** Mic, .0028 volt; Aux, 0.20 volt. **Outputs:** 4, 8, 16 ohms; 25 volts and 70.7 volts. **Tubes:** two 12AX7A, 6AV6, two 6CA7, 5AS4; plus 5Y3GT rectifier. **Mic Connector:** Amphenol 75MC1F (uses two, one supplied). **Aux Connector:** Pin Plug (Uses two, one supplied). **Speaker Connectors:** two screw-terminals. **Speaker Cable:** Use 2-conductor cord (not included). **Line-Cord:** 7-ft. long, 2-wire. **Space Required Behind Cabinet:** 3″. **Space Required Above Cabinet for Ventilation:** 5″. **Power Requirements:** 105-130 volts, 50-60 cycle AC; optional Phono-Top for 60-cycle operation only. **Power Consumption:** 180 watts at 120 volts AC.

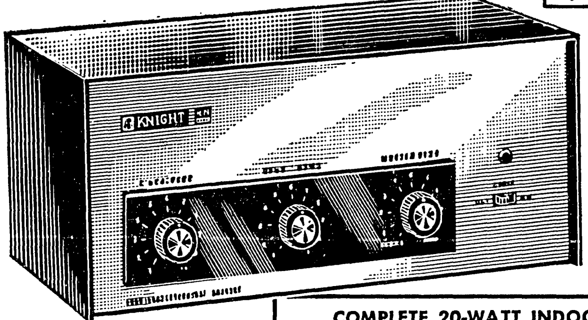
PHONO-TOP FOR KN-3275C, 3235C AND 3220A

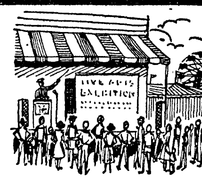
MODEL KN-3201A. (Not illus.) Manual player for up to 12″ records at 16⅔, 33⅓, 45 and 78 rpm. Pickup arm has flip-over ceramic cartridge with dual synthetic-sapphire needles. Receives power from KN-3275C. 4½″ high. With all connectors. Mounts atop amplifier with just a screwdriver. Shpg. wt., 6 lbs.

14 D 5106 X...17.95

P.A. Amplifiers and Systems

KNIGHT





AMPLE POWER FOR MEDIUM-SIZE OFFICES, RESTAURANTS, HALLS, AND CLASSROOMS

KN 3220A

KN-3220A 20-WATT P.A. AMPLIFIER WITH FULL-RANGE 30-20,000 CPS RESPONSE

- Clear Voice and Music Coverage in Medium-Size Areas
- Standard Impedance Outputs and Constant-Voltage Outputs
- Quick-Set Selector for Fast Impedance Match

Compare—this popular P.A. amplifier gives you more power, more features, more quality than any other in its price range. Four tubes (plus a rectifier) in push-pull circuit deliver ±2 db, 30-20,000 cps response in any indoor or outdoor medium-size area. Provides clear voice and music reproduction in lecture halls, auditoriums, office, restaurants and many other applications.

Inverse feedback circuit ensures low hum and distortion. "Quick-Set" octal selector plug makes it easy to choose 4, 8 or 16 ohms impedance, or 25 or 70.7 volts constant-voltage output for multi-speaker installations where different power levels are desired at various locations. Master tone control for mike and auxiliary inputs.

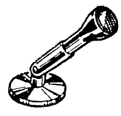
Inputs: 1 mike and 2 auxiliary (phono, tuner or recorder). Volume control for each input. Charcoal gray and green case, 5x12½x10¼". For 110-120 volts, 50-60 cycle AC. See optional Phono Top, on previous page. Shpg. wt., 16 lbs.

14 D 5102 U..44.50

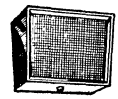
KN-3220A SPECIFICATIONS

Power Output: 20 watts rms (40 watts peak). **Response:** ±2 db, 30-20,000 cps. **Inputs:** 1 microphone; 2 auxiliary. **Controls:** Microphone and Auxiliary Faders; Master Tone Control; On-Off Power Switch. **Gain:** Microphone, 126 db; Auxiliary, 83 db. **Outputs:** 4, 8 and 16 ohms; 25 and 70.7 volts. **Connectors:** Microphone, Amphenol 75MC1F or Switchcraft 2501F. Uses 2, 1 supplied; Auxiliary, pin plug. Uses 2, 1 supplied. **Space Required Behind Cabinet:** 3" **Space Required Above Cabinet:** 5". **Power Requirements:** Amplifier, 105-130 v., 50-60 cycle AC (90 watts); Optional Phono-Top, 60 cycle AC only.

COMPLETE 20-WATT INDOOR SOUND SYSTEM



$59.95
System Price

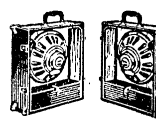


Specially selected system that gives exceptionally high quality voice and music reproduction in medium-size offices, restaurants, classrooms, and lecture halls. Covers up to 6000 sq. ft. System includes: **Knight KN-3220A Amplifier; Knight KN-4520A Mike with Stand; Utah "Stellar" Wall Baffle with 8" Speaker,** Less speaker cable. Dynamic mike has 4½-ft. cord. Baffle available in blonde or walnut finish. *Specify choice.* Shpg. wt., 24 lbs.

14 D 0045 CD3U.............................59.95

COMPACT 20-WATT PORTABLE SOUND SYSTEM

$82.50
System Price



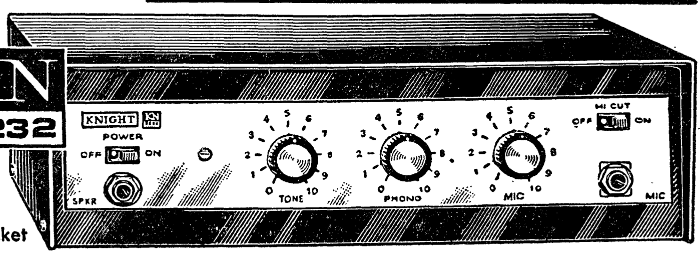
Portable system designed to provide clear public address and background music anywhere. You can take it to luncheon meetings, recitals, classrooms, sales conferences, club meetings, church socials, outings. System includes: **Knight KN-3220A Amplifier; Knight KN-4515 Desk Mike; Two Baffles with 12" Speakers that Combine into Carrying Case,** Less speaker cable. Desk mike has 7' cord. Entire system fits in carrying case. Shpg. wt., 45 lbs.

14 D 0044 D3U..............................82.50

KN-3232 MOBILE/FIXED SOLID-STATE 32-WATT P.A. AMPLIFIER

New Low Price—Save $4.55

KN 3232



- Operates from 110 VAC or 12 v. Car Battery
- For Advertising, Picnics, Sports Events
- Features Cool Operation and Instant Warmup
- With AC and DC Power Cords, Mounting Bracket

Powerful voice and music amplifier for sound truck, entertainment, public service and marine hailing as well as any indoor use. Easily mounts under auto dash. Inputs and controls for mike and phono. Master tone control. Switchable anti-feedback circuit attenuates bass to cut howling and protect speakers. Front-panel phone jack for fast speaker hookup. "Quick Set" plug for 4, 8 or 16 ohms impedance or 25-volt output for multi-speaker installation where different power levels are desired at various locations. Protected by circuit breaker on DC, fuse on AC. Green and gray case is a compact 11⅞x9⅝x4". With power cable for connection to car cigarette lighter receptacle or battery, AC cable, mobile mounting brackets. Shpg. wt., 15 lbs.

14 D 5108 X...99.95

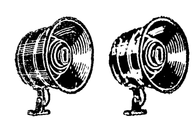
KN-3232 SPECIFICATIONS

Power Output 32 watts rms (64 watts peak). **Response:** ±2 db, 80-12,000 cps. **Inputs:** Mic (Lo-Z); Phono. **Controls:** Mic and Phono Faders; Tone; Anti-Feedback; On-Off. **Outputs** 4, 8, 16 ohms; 25 v. **Semiconductors:** 10. **Microphone Connector:** Phone plug. **Phono Connector:** Pin plug. **Speaker Connector:** Phone plug. **Speaker Cable:** 2-conductor (not supplied). **Line Cords:** AC and DC cords supplied. **Ventilation and Plug Space Required Behind Cabinet:** 3" Above Cabinet: ½". **Power Requirements:** 110-127 VAC or 12 VDC. **Power Consumption:** Full Power; 60 watts AC, 50 DC. Idling (zero) Power; 6 watts AC, 0.5 DC.

COMPLETE 32-WATT MOBILE SYSTEM

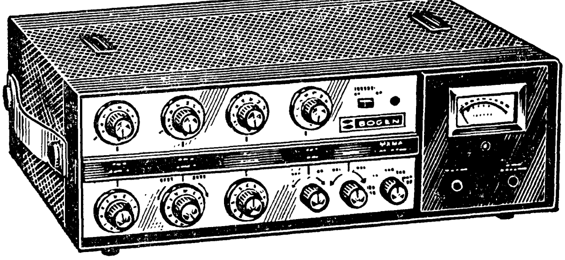
$129.95

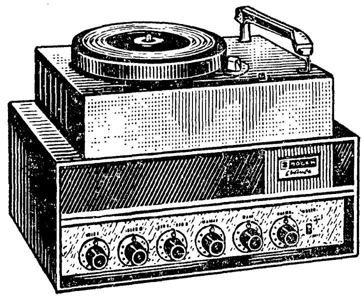
Save $12.53



For car, truck or boat. Speakers, and amplifier, may be mounted off-the-truck, if desired. Includes: **Knight KN-3232 Amplifier; Electro-Voice 600-E Mike; 2 University OLC Projectors.** Mike has push-to-talk switch, coiled cord. Speakers have Cycolac horns. Less speaker cable. Wt., 27 lbs.

14 D 0039 D4U...............129.95





- Mixes 2 Mikes and Phono or Tuner
- Magnetic Phono Input
- Memory Markers
- Built-In Remote-Control Circuit

CHB-35A Shown With LPC-4 Phono Top

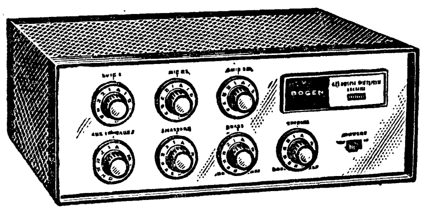
MXM-A DELUXE MIXER-PREAMPLIFIER

Professional-quality, for recording and broadcast applications. Five high imp. microphone inputs (one for magnetic phono cartridge or tape head) plus two auxiliary inputs. Accepts signal from remote pre-amp or O-level line. May be paralleled (up to 3 units) for 21 inputs. Built-in level meter. Permits calibrated monitoring of 25 and 70-volt outputs of boosters. Adjustable speech filters for each mike input; adjustable low-freq. filter screens out hum or tunrtable rumble. DC voltage on filaments, silicon rectifiers, high imp. cathode follower output. Accepts plug-in low imp. TL600 transformer (below) to match 500/600 ohm line. Feedback-type bass and treble controls. **Freq. Resp.:** ±1 db, 18-38,000 cps. **Output:** 20 volts at 1% distortion, high imp.; 4 volts, 600 ohms. 4¾x16½x12". 105-125 v., 50-60 cyc. AC. 25 lbs.
12 D 7310 U **164.95**

12 D 7367. TL600 Transformer. Plug-in output transformer converts MXM-A output to 500/600 ohms. Shpg. wt., 2 lbs **12.00**

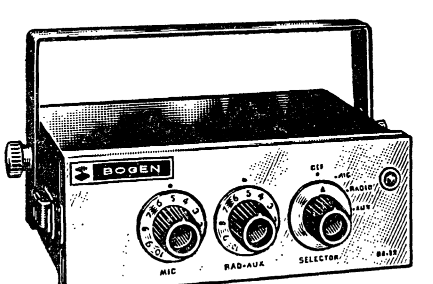
CHB-35A 35-WATT P. A. AMPLIFIER

2 mike inputs, gain controls; 2 high impedance auxiliary inputs (tuner, tape, etc.) and 1 magnetic phono input with fader, bass and treble controls; master volume control. **Resp:** ±2 db, 20-20,000 cps. **Outputs:** 4, 8, 16 ohms, 25, 70 volts. **Gain:** mike, 125 db; phono, 100 db; mag. phono; 115 db. **Hum and Noise:** −80 db. 5 tubes plus rectifier. 2 speaker plug-in sockets, screw terminals. 6¾x15¾x10". Less phono top, below. 105-125v, 50-60 cyc. AC.
12 D 7346 X Shpg. wt., 21 lbs **74.90**
MODEL CHB-14A. As above, but 14 watts, 1 mike input. 16 lbs.
12 D 7074 X **47.90**
MODEL CHB-50. Similar to CHB-35A, but 50-watt output. 21 lbs.
12 D 7347 X **88.40**
MODEL CHB-100. Similar to CHB-35A, but 100 watts. 25 lbs.
12 D 7348 U **119.90**
LPC-4 PHONO TOP. Fits amplifiers above. 4-speed. With cartridge, turntable mat, mounting brackets. 5x13x9¼". Wt., 7 lbs.
12 D 7373 X **24.90**



NEW MTM TRANSISTORIZED PREAMP

Completely transistorized P. A. preamplifier has 4 microphone and two auxiliary inputs with provision for accepting magnetic tape input. Rugged construction features 7 plug-in printed circuit boards. Treble and bass controls, remote volume control. Uses 11 transistors and 5 diodes. **Sens.:** Mike, .00011V; Aux, .04V. **Freq. Response:** 20-20,000 cps at 1 db. **Power output:** 1.8 volts into 500 ohms at 0 db (peak power, 7 volts). **Output Imp.:** split 125/150-125/150; balanced, 500/600 ohms. **Hum and Noise:** Microphone, −65 db; Aux. −70 db. **Power Requirements:** AC, 105-125 v., 50-60-cycle; DC, external battery 12-15VDC. 16¼x6⅝x3⅜". 9 lbs
12 D 7077 X **134.95**



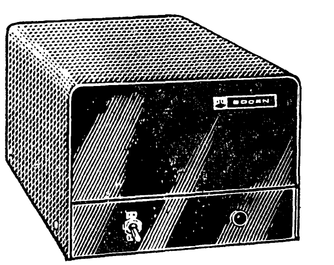
Features Switch Selection of Mike, Auxiliary and Radio Inputs

BT35A 35-WATT MOBILE P. A. AMPLIFIER

Compact, fully transistorized amplifier ideal for use in car, truck, or boat; for police, fire, and CD applications. Radio receiver connects to auxiliary input. Delivers 35-watt continuous output. Features switch-selected inputs, built-in RF and line filters, polarity protection. **Inputs:** 1 microphone (low impedance), 1 auxiliary high level for tuner/tape/phono, 1 auxiliary high level (tone signal) accessory. **Frequency Response:** ±3 db, 150-15,000 cps. **Gain:** Mic., 110 db.; aux., 90 db. **Hum and Noise:** Mic., −90 db; aux., −95 db. **Controls:** 1 mic., 1 aux., volume, selector switch. **Output Imp.,** 4, 8, 16 ohms. **Temperature Range:** −20° to +65° C (149° F). Adjustable fixed lock bracket, provision for accessory siren. Uses 5 transistors, 1 silicon diode. **Size;** 3x8x6¼". For 12VDC. Wt., 8 lbs.
12 D 7393 X **80.90**

BT20A 25-WATT MOBILE P. A. AMPLIFIER. (Not illus.) Low-cost solid-state amplifier for general P. A., fire, police, and CD useage. Delivers 25 watts continuous output. **Inputs:** 1 mic., 1 aux. for tuner/tape/phono. **Freq. Resp:** ±3 db, 250-12000 cps. **Gain:** Mic., 110 db, aux., 90 db. **Hum and Noise:** Mic., −90 db, aux., −95 db. **Imp.:** 4, 8, 16 ohms. 6½x4½x4". For 12VDC. Shpg. wt., 5 lbs.
12 D 7394 X **59.95**

MO-100-A 100-WATT BOOSTER AMPLIFIER

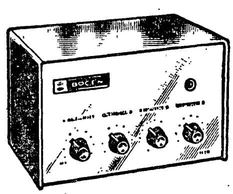


- Delivers Full 100-Watt Output
- High and Low Impedance Inputs
- Can Be Used As Audio Generator

High-power booster-amplifier delivers 100 watts for sound systems in industrial plants, airports, stadiums, schools, etc. Operates from 110VAC. Four outputs, including 115 volt for industrial uses. Units may be paralleled to multiply power output. May be used as inexpensive variable frequency audio generator for servos, motors, shake tables, ultra-sonic equipment, etc. **Response:** 8-50,000 cps at ±1 db. **Inputs:** High imp., 0.5 megohms; low, 500/600 ohms. **Power Output:** 100 watts at less than 2% distortion; **Full Power:** 21-50,000 cps, ±1 db at 5%. 8x13x6¾". 33 lbs.
12 D 7316 U **142.40**

MO-200-A. 200 watts at less than 2% distortion. ±1 db, 18-50,000 cps. 10 tubes. Outputs: 8 ohms; 25, 70, 115 v. 6x16x11½". For 105-125 v. 50-60 cycle AC. Shpg. wt., 48 lbs.
12 D 7069 U **247.50**

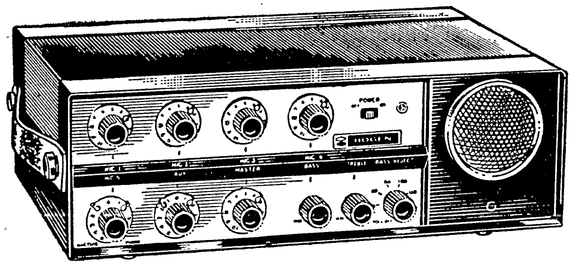
MX6-A LOW-COST MIXER-PREAMP

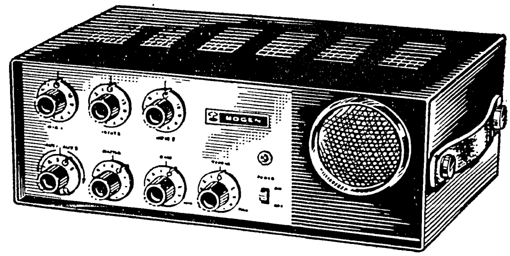


- 4 Mike and 2 Aux. Inputs
- For P.A. and Recording
- Mixes Phono With Voice

Mixes and preamplifies any combination of 4 of its 6 inputs, which include 4 high-impedance mikes and 2 auxiliary high level. Calibrated gain control for each input. Power on-off indicator. Cathode-follower output. **Gain:** 59 db for mike; 30 db for phono. 5½x8x4¾". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 3 lbs.
12 D 7337 X **42.00**

BOGEN





DELUXE 30-WATT AND 60-WATT P. A. AMPLIFIERS

30-WATT MX30A. Has 5 high imp. mike channels, each with gain control (one converts for phono/tape); 2 aux. inputs with fader, master gain control. Built-in remote gain control circuit, individual speech filters, calibrated low-freq. filter, power stage screen regulation. Variable level markers, boost-and-cut type bass and treble controls. Identification strips for each channel. **Freq. Resp.:** ±2 db, 10-40,000 cps. **Gain:** mike, 125 db; aux., 85 db; magnetic phono, 125 db. **Hum and Noise:** −70 db. **Impedance:** 4, 8, 16, 163; 25, 70 v. line. 8 tubes, 5 silicon rectifiers. 4¾x16½x12". Leather carrying handles. For 105-125 volt, 50-60-cycle AC. Wt., 34 lbs.
12 D 7380 U..**157.45**

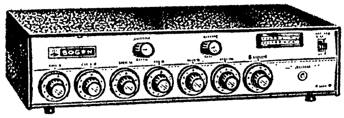
60-WATT MX60A. As MX30A, but 83 ohm (replaces 163) output.
12 D 7379 U. Shpg. wt., 40 lbs........................**194.65**

T-200 PLUG-IN MIKE TRANSFORMER. Fits all Bogen Models. Low imp. (200 ohms) input and output. Shpg. wt., 1 lbs.
12 D 7381..Each **12.00**

MODEL M60A 60-WATT P. A. AMPLIFIER

Has 3 separate microphone channels (2 convert for magnetic phono cartridge); 2 auxiliary inputs; separate master gain, bass and treble controls; remote gain control circuit. Memory markers permit resetting of controls to previously determined levels. **Distortion:** 3% at 60-watts output. **Frequency Response:** ±2 db, 20 to 20,000 cycles per second. **Gain:** mike, 122 db; auxiliary, 95 db; magnetic phono, 105 db. **Hum and Noise:** (below 60 watts) mike, −65 db; auxiliary, −80 db. **Impedance:** 4, 8, 16 ohms; 25-volt balanced (16 ohms); 70-volt balanced (82 ohms). Uses 5 tubes, plus 2 silicon rectifiers, and a silicon diode. **Overall Dimensions:** 5¾x14⅞x9⅞. For operation from 105-125 volt, 50-60-cycle AC. Wt., 28 lbs.
12 D 7369 U..**138.75**

30-WATT M330A. Same features as the 60-Watt M60A described above, but with 30 watts power. 70-volt output is at 163 ohms instead of 82 ohms. Shpg. wt., 20 lbs.
12 D 7382 U..**113.25**



- Uses Plug-In Circuit Boards.
- Protected From Shorts, Opens
- Accepts Phono/Tape Inputs

NEW MTA SERIES TRANSISTORIZED AMPLIFIERS

60-WATT MTA60. Has 3 mike, 2 aux. inputs. Accepts magnetic cartridge, tape head inputs (with equalized plug-in circuit boards). Features chimney type heat sinks; tantalum capacitors; plug-in circuit boards. Remote volume control, tape and booster outputs. No transformer needed for low imp. mikes. R.F. capacitor-type filters. Protected against open or shorted speaker lines. **Freq. Resp.:** ±1 db, 70-20,000 cps. **Gain:** mike, 125 db; aux., 110 db. **Hum and Noise:** mike, −58 db; aux., −70 db. **Power Requirements:** AC, 105-125 v., 50-60 cycles; DC, 24-30V (emergency power). **Output Imp.:** 4, 8, 16 ohms; 25 v., 75v. (at 163 ohms). Uses 13 transistors, 6 diodes. 9¾x12⅓x4½. Shpg. wt., 18¾ lbs.
12 D 7078 X..**149.95**
12 D 7075 X. 30-Watt MTA30. As above, 30 watts........**119.90**
12 D 7076 X. 10-Watt MTA10. As above, 10 watts, 1 mike input.**74.95**

Ideal for Schools, Dances, Background Music, etc.

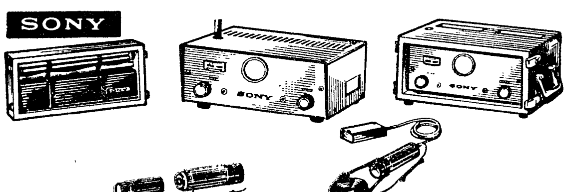
Fully Transistorized No Warmup Required

PORTABLE TRANSCRIPTION PLAYERS

40-WATT VP50-DS. Professional unit has B51 turntable and 40-watt amplifier with two 12" speakers in separate break-apart case. **Inputs:** 2 mike, radio/tape, phono (internal). **Outputs:** speaker, monitor, tape. **Output Impedance:** 4, 8, 16 ohms; 25 and 70 volts. Provision for battery operation. Amp/player, 7x15¾x16½"; speaker case, 16½x15¾x11½. For 110-120 volt, 60-cycle AC. Shpg. wt., 54 lbs.
12 D 7374 L2U..**249.25**

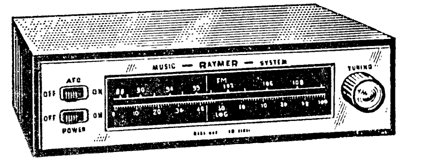
20-WATT VP25. Same as VP50-DS, but with single speaker in removable cover. Two 8 ohm outputs only. Size: 10¾x15¾x16½". Shpg. wt., 34 lbs.
12 D 7300 U..**177.25**

SONY



CR-5 WIRELESS MICROPHONE SYSTEM

Completely cordless. Ideal for use in TV and radio, entertainment, education, trade shows, etc. Includes lightweight solid-state FM transmitter, 2 battery power packs, 8-tube FM receiver, and 2-piece portable carrying case. Standard battery pack attaches directly to mike; accessory pack cord-connects and fits conveniently in pocket when mike is worn as a lavalier. Direct frequency modulation by the condenser microphone permits wideband response and low distortion. Receiver includes built-in speaker, 2 output jacks, for P.A. systems, recorders, amplifiers, etc.; tuning meter, squelch, telescoping antenna. For 117 volt, 50-60 cycle AC. Shpg. wt., 16 lbs.
12 D 7057 S..**328.50**

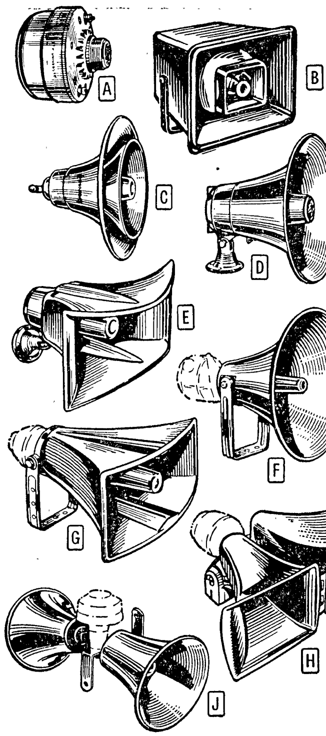


EICO HFT90A MONAURAL FM TUNER

Popular FM tuner can be connected to any P.A. amplifier to provide background music for offices, stores, working areas, etc. Features large, slide-rule dial for effortless flywheel tuning, travelling tuning eye indicator. Wideband ratio detector. Stabilized, low limiting threshold allows good reception of weak signals. Temperature compensated circuit prevents drift. Sensitivity: 1.5 μv for 20 db quieting. 3⅝x12x8¼". Less metal case, below. 110-120v, 50-60 AC. 13 lbs.
13 D 2621 U..**64.95**
13 D 2337 X. Metal Case. 4 lbs........................**3.95**

UNIVERSITY SOUND P.A. Speakers, Trumpets and Drivers

RUGGEDLY BUILT FOR PROFESSIONAL SOUND SYSTEMS



WEATHERPROOF PAGING/TALK-BACK SPEAKERS

These versatile speakers may be used as sensitive microphones for talk-back use. Type IB-A8 for medium-level sound systems. CIB-A8 for wide coverage in low-noise areas. DLC is compact speaker ideal for low-level use. MIL-T (includes 25/70.7 volt transformer) and MIL-A8 for low-power systems. CMIL-A8 for wide-coverage with low power. IBR-A8 for wide coverage with minimum of speakers. MLC (not talk-back) for low-level systems requiring wide response. All 8 ohms. *Swivel mtg. bracket; fits ½" pipe without extra fixture.

Stock No.	Mfr's Type	Fig.	Cps	Watts	Dispersion	Dia.	Length Inch	Wt. Lbs.	EACH
12 D 7504 X	IB-A8	D	350-13,000	25	90°	10¼"	*9	4¼	21.90
12 D 7515 X	CIB-A8	E	250-13,000	25	120x60°	.....	*7⅜x14x12	6	27.60
12 D 7398	DLC 8	...	400-10,000	6	120°	4"	5⅞	5	9.80
12 D 7569	MIL-A8	D	350-13,000	7½	120°	6⅞"	*6⅞	3¼	17.85
12 D 7058 X	MIL-T	D	350-13,000	17½	120°	6⅜"	7	4	23.85
12 D 7572	CMIL-A8	E	250-13,000	7½	120x60°	.....	*6 7/32x9½x8 7/16	4	20.25
12 D 7516 X	IBR-A8	C	300-10,000	25	360°	13"	10¼	5½	29.85
20 D 8416 X	MLC	B	150-15,000	15	120°	12¾"	10⅝	11	37.50

DIRECTIONAL REFLEX TRUMPETS

Large horn diameters for deep sound-penetration with narrow angle where "long throw" is necessary, or ambient noise level is high. Provides more sound intensity along speaker axis. (Model SMH, for voice reproduction only.) With mtg. brackets. Order drivers, below.

Stock No.	Mfr's Type	Fig.	Low Cutoff	Dispersion	Length	Dia.	Wt., Lbs.	EACH
12 D 7563 U	PH	F	150 cps	85°	15¾"	20⅜"	11¾	23.70
12 D 7564 X	SMH	F	200 cps	95°	12"	16¼"	8	20.70
12 D 7559 U	CLH	G	120 cps	120x60°	20"	21½x11½"	12½	29.10
12 D 7543	2WP	J	350 cps	240°	20½"	8½"	4¼	20.70
12 D 7566 X	Cobreflex II	H	200 cps	120x60°	10¼"	18½x9¼"	10¼	26.70

HEAVY-DUTY DRIVERS FOR TRUMPETS ABOVE

All 16 ohms except ID-40T which has multi-impedance transformer (45/122 250/500/1000/2000 ohms) with taps for 70.7-v. *Used as siren, 190-3600 cps. †Weatherproof.

Stock No.	Mfr's Type	Fig.	Frequency Range	Wattage of Taps	Max. Watts	Wt., Lbs.	EACH
12 D 7573	ID-20	.....	120-6500	....	20	2½	15.60
12 D 7574	ID-30†	.....	85-7500	....	30	3¾	18.90
12 D 7575	ID-40†	.....	80-12,000	....	40	4½	23.70
12 D 7576	ID-40T†	.....	80-12,000	40, 20, 10, 5, 2.5	40	5¼	32.40
12 D 7943	ID-75*	A	150-7000	....	75	4½	44.70

SOUND-COLUMN SPEAKERS FOR UNIFORM LOUDNESS OVER WIDER AREA

K ELECTRO-VOICE LR4A CURVED LINE-RADIATOR

Wide-range speaker with special curved design to restrict high-frequency dispersion—greatly simplifies feedback control. Gives natural sound reinforcement in difficult P.A. installations. Has 12 speakers. Capacity, 25 watts. Response, 200-15,000 cps. 8 ohms. Dispersion: 160° horizontal, 60° vertical. Tan finish. 49x7½x13".
12 D 7036 U. Shpg. wt., 30¼ lbs........................**117.60**

MODEL LR4SA. As above, but straightline and weatherproofed all-metal tan enclosure. Vertical dispersion, 30°. 48⅜x6⅝x4⅞".
12 D 7033U. Shpg. wt., 30½ lbs......................**88.20**

L ARGOS SD-1060 SOUND-DIRECTOR COLUMN

Offers low-cost uniform sound distribution for rooms to up 200 ft. long. Contains "focusing" adjustment for adapting to room length. Covered in walnut-grain vinyl; plastic cane grille cloth. With 6 speakers. Capacity, 30 watts. Dispersion: 120° horizontal, 30° vertical. 200-10,000 cps. 16 ohms. 30¼x7x3⅛". With mtg. clips.
12 D 7877 X. Shpg. wt., 10 lbs........................**41.65**

MODEL SD-1100. Similar to above, but with 10 speakers. Capacity, 50 watts. Dispersion: 120° horizontal, 15° vertical. 49¼x7x6".
12 D 7890 U. Shpg. wt., 26½ lbs......................**65.65**

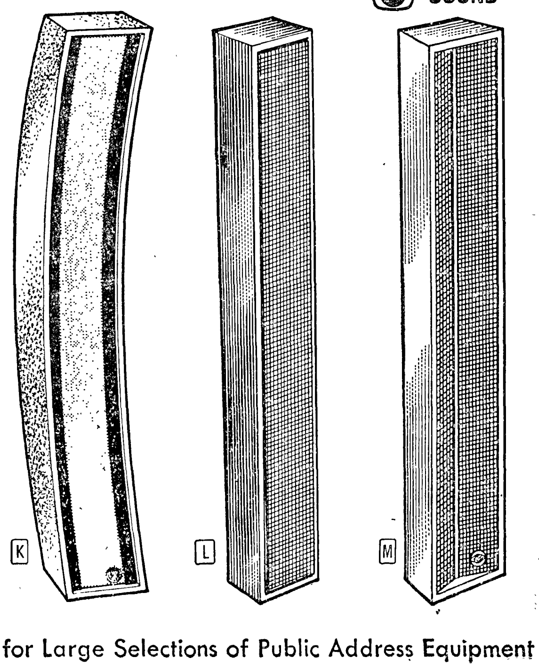
MODEL MSD-1060. Deluxe version of SD-1060. Has 6 speakers, 60-watt capacity, 70-15,000 cps response, 16 ohms. 50½x10¾x8¼".
12 D 7093 U. Shpg. wt., 43 lbs........................**77.90**

M UNIVERSITY CS-3 UNILINE SOUND COLUMN

Ideal for high-reverberation areas where speech clarity is vital. Features "Acoustic Tapering" for uniform dispersion and response. 8-speaker unit contains six 4x6" speakers and two 3½" tweeters... housed in 48x7½x8¾" column with walnut vinyl covering. Provides 120° horizontal and 20° vertical dispersion. Capacity, 25 watts. Response, 150-10,000 cps. Impedance, 16 ohms. Neutral finish.
12 D 7007 U. Shpg. wt., 33 lbs........................**89.70**

MODEL CSO-4. Completely weatherproof, specially treated steel enclosure with 4 fungus-proof extended-range 8" speakers. Capacity, 75 watts. Provides 120° horizontal and 20° vertical dispersion. Response, 70-17,000 cps. Impedance, 8 ohms. Size, 41½x12x8".
12 D 7944 U. Shpg. wt., 38½ lbs......................**147.90**

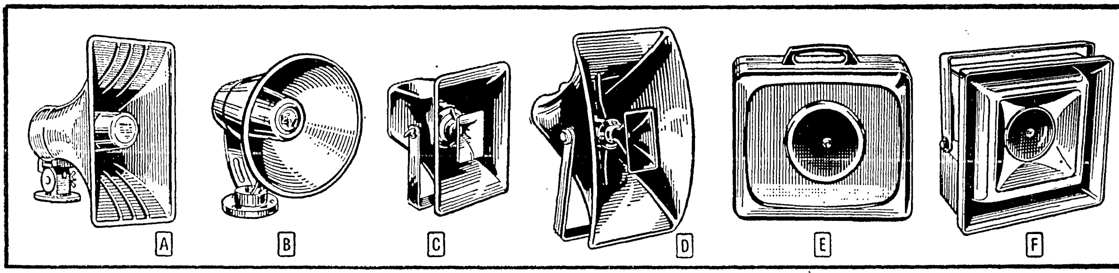
Electro-Voice Argos UNIVERSITY SOUND



Projectors and Paging Speakers

Electro-Voice

TOUGH WEATHERPROOF FIBER-POLYESTER HORNS



SPEAKERS DESIGNED FOR WIDE DISPERSION AND FINE SOUND REPRODUCTION

Virtually indestructible. Fiber-polyester horns won't dent, and finish can't wear off—colors are molded-in all the way through. Never need painting, and if knicked or scratched all you do is sand the surface smooth. Rugged units are weatherproof, and heavy-duty construction assures trouble-free operation.

Types PA-30 and PA-7 are recommended for paging operations; have high-impact, solid-color Mesa Tan finish. **Type PA-30** has rectangular fiberglas horn for wide sound dispersion. May be mounted horizontally or vertically for maximum flexibility. **Type PA-7** has exclusive ring diaphragms to eliminate loading problems—gives crisp, clean response. Universal mounting for fixed or mobile applications. 120° dispersion angle. Impedance: Type PA-30, 8 ohms; PA-7, 16 ohms.

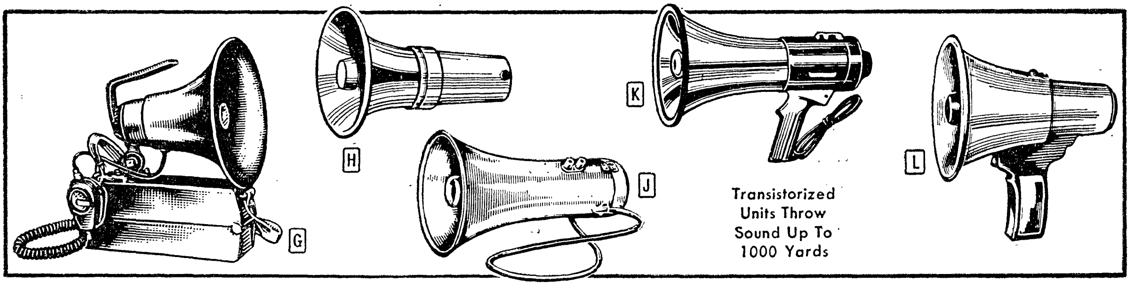
Types 847 CDP and 848 CDP utilize the Compound Diffraction Principle for higher articulation without resorting to "peaked" frequency response. Excellent for theaters and other P.A. uses, where music must be reproduced with maximum fidelity. Utilize same coaxial principle as finest hi-fi speakers. Single diaphragm activates large horn for lows and small horn for highs. Results in better dispersion, increased intelligibility and highs without feed-back. Greater possible area coverage with fewer units; design and construction makes speakers blastproof, splashproof and water-proof. Speakers finished in functional battleship gray. Impedance, 16 ohms. With "U" mounting bracket. *Watts (table, right).

Stock No.	Mfr's Type	Fig.	Response cps	*W	Size In.	Wt. Lbs.	EACH
12D7600X	PA30	A	250-14,000	30	11x6½x8½	4½	21.46
12D7819X	PA7	B	400-13,000	7½	6¾x6	3¼	17.50
12D7542X	847CDP	C	250-10,000	25	11¾x7¾x10⅞⁄₃₂	10	32.34
12D7540U	848CDP	D	150-10,000	30	11¾x7¾x10⅞⁄₃₂	16¾	49.98

[E] **SONOCASTER I.** Auxiliary high-fidelity loudspeaker system, rugged lightweight and weatherproof for extension or portable use anywhere. Radax coaxial 8″ reproducer provides wide-range response. Molded steel gray housing similar to fine luggage; can't chip, fade or peel. Molded-in carrying handle; accessory hang-up bracket, included. Capacity, 30 watts peak. Response, 70-13,000 cps. Impedance, 8 ohms. Size, 16¾x17x5⅞″.
20 D 7237 X. Shpg. wt., 8 lbs. **22.50**

[F] **MUSICASTER.** Weatherproof speaker system allows you to take high-fidelity outdoors. Rugged one-piece aluminum die casting protects 8″ Radax speaker. Provides dual horn loading for smooth response. Can be mounted anywhere or used as a portable speaker. Wide-angle coverage makes placement easy for stereo. Capacity, 60 watts peak. Response, 60-13,000 cps. 8 ohms. 21½x21½x8½″.
20 D 8432 U. Shpg. wt., 37 lbs. **64.80**
20 D 8431 U. Above, with Tweeter. Better "highs." 39 lbs. . . **81.00**

BATTERY-POWERED PORTABLE MEGAPHONE SOUND SYSTEMS



UNIVERSITY 25-WATT PORTABLE P.A. SYSTEM

[G] **MODEL PP-1T.** Transistorized portable P.A. system delivers 25 watts for voice throw of up to 1000 yards. Offers 3-way versatility: use it as a megaphone; with a phonograph for music reproduction; or as a long-range *listener.* Talk/listen switch permits horn to act as directional listening device—hear sounds from far beyond normal hearing range. Press-to-talk mike reduces music level 6 db for talking "over music". CD-Approved for fund matching. 9″ dia. horn. With microphone, strap. Order batteries below.
12 D 7301 X. Shpg. wt., 13 lbs. **179.70**
18 D 5853. Batteries. Uses 4. Shpg. wt., 2 lbs. . . . . **Each .85**

[H] **UNIVERSITY PP-2T POWER-PAGE.** Transistorized circuit features an acoustic feedback suppression system with gain control. Ideal for communicating from within a crowd. Capacity, 14 watts peak. 12½″ long; 8¼″ bell dia. Order batteries (uses 6 penlight cells) below.
12 D 7376 X. Shpg. wt., 5 lbs. **107.70**
18 D 5870. Batteries. Uses 6. Wt., 4 oz. . . . . **Pkg. of 2 for .20**

FANNON LOW-COST 14-WATT MEGAPHONE

[J] **MODEL MV-1.** Projects voice to 300 yards. High and low volume level switches for most efficient battery use. Made of durable aluminum with enamel finish. Average continuous battery life, 6 hours. With strap. 6½″ dia. horn. Order batteries (uses 4) below.
12 D 7320 X. Shpg. wt., 3¼ lbs. **26.95**
18 D 5868. Batteries. Uses 4. Wt. 1 lb. . . . . **Pkg. of 4 for .64**

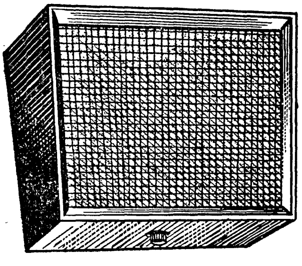
FANNON DELUXE 8-WATT MEGAPHONE

[K] **MODEL MV-8B.** Professional 5-transistor megaphone, with 8-watt power output (10-watts peak). Provides a voice range of over 600 yards. An indispensable communications aid to police, fire, CD operations. Unit boasts volume control, handy carrying strap and dynamic microphone with press-to-talk pistol-grip trigger switch. Lightweight aluminum construction with baked enamel finish with-stands any weather . . . just right for an outdoor portable sound system. No connecting cables or power supply required. Order batteries (uses 6 standard 1½ v. "C" flashlight cells) below. 7x14″ long, 9″ diameter bell.
12 D 7321 X. Shpg. wt., 5 lbs. **59.95**
18 D 5865. Batteries. Shpg. wt., 4 oz. . . . . **Pkg. of 2 for .26**

HOLMIN A-12 MEGAPHONE P.A. SYSTEM

[L] **MODEL A-12.** Transistorized Voice Gun® has increased power to carry sound 500 yards, or more. Horn, handle and mouthpiece made of lightweight molded Cycolac that's virtually unbreakable. Designed to function perfectly in all weather conditions. Self-contained public address system consists of controlled magnetic microphone, 3-transistor amplifier, industrial "paging-type" speaker and amplifier in one unit. Instant operating press-to-talk switch on pistol grip handle; ½″ fine grade leather adjustable carrying strap. 9½″ long, 10½″ high; with 7¼″ diameter horn. Order batteries (uses 8 penlight) below.
12 D 7319 X. Shpg. wt., 5¼ lbs. **89.96**
18 D 5867. Batteries. Shpg. wt., 3 oz. . . . . **Pkg. of 4 for .52**

Speaker-Baffles and P.A. Accessories



TAPERED 8″ SPEAKER-BAFFLE

- L-Pad Volume Control
- 10-Watt Power Capacity
- Choice of Finish

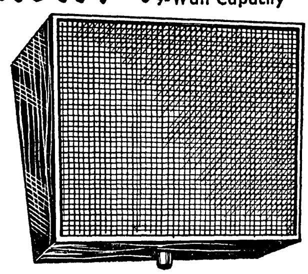
Ruggedly constructed and tastefully styled baffle, completely wired with 8-inch speaker. Has highly efficient barium-ferrite magnet with 10-watt power handling capacity. L-pad volume control allows level to be adjusted at speaker as well as at amplifier. Impedance, 8 ohms. Size, 9½x12x6″. Wood baffle available in your choice of walnut or blonde finish—specify choice when ordering.
12 D 7552 CX. Wt., 5½ lbs... **13.95**

70.7-VOLT SPEAKER-BAFFLE. As above, with 70.7 v. constant-voltage transformer installed. Tapped at 10, 5, 2.5, 1.25 and .62 watts. Available in your choice of walnut or blonde finish—specify choice when ordering.
12 D 7553 CX. Wt., 6¼ lbs... **15.95**

"STELLAR" 8″ SPEAKER-BAFFLE. (Not illus.). Tapered baffle with recessed front; has 8″ speaker. Capacity 8 watts; impedance, 8 ohms. With screw terminals, hardware. 9x12x4″. Walnut or blonde-grained fabric—specify choice when ordering.
12 D 7562 CX. Wt., 3½ lbs.... **9.11**

"STELLAR" 70.7-VOLT SPEAKER-BAFFLE. As above, with volume control and 70.7 volt transformer. 5, 2.5, 1.25, .62 and .31-watt taps. Specify finish.
12 D 7581 CX. Wt., 4 lbs..... **13.91**

NEW!
- Best Dispersion Angle
- 9-Watt Capacity



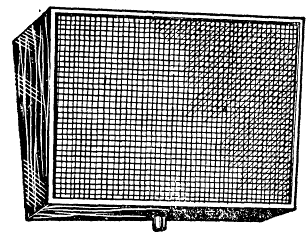
SLOPING 8″ SPEAKER-BAFFLE

Sloping baffle contains 8-inch speaker, is acoustically designed to give best possible sound dispersion angle. You can place unit high on a wall out of the way; sound is directed downward. Speaker has 9-watt power handling capacity and 1.47 oz. Alnico V barium-ferrite magnet for effective damping. Screw terminals. 8-ohm impedance.

Baffles feature carefully "restrained" styling and meticulous workmanship to produce a finished appearance which will blend well into any decor. Constructed of plywood, with ⅜″ front panels of particle board chosen for acoustically correct density. Made with locked corners for maximum strength; front is recessed for neater appearance.

Beautiful wood-grained cover fabric; choice of walnut or blonde finish—specify. Size, 9x11x6″, overall; depth slopes to 4⅜″.
12 D 7091 CX. Wt., 4 lbs........... **6.95**

- Thin Lines, Deeper Sound
- Gives More Sound Per Watt



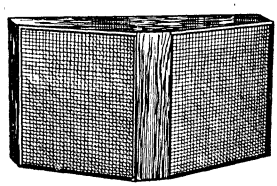
THIN TP-8B 8″ SPEAKER-BAFFLE

Streamlined, thin-silhouette, tapered wood baffle is only 4″ deep. Perfect for installation in classrooms, offices, hospitals and reception rooms where attractive appearance is desired and space is at a premium.

Baffle contains ultra-shallow 8″ speaker, featuring barium-ferrite magnet developed by Utah. Enables speakers to deliver more sound per watt than conventional-type speakers. Built-in L-pad volume control allows level to be adjusted at speaker without changing volume at the amplifier.

Power handling capacity is 6 watts, making the TP8B an ideal choice for background music systems. Impedance, 8 ohms. Includes hardware and screw-type terminals, for quick connection to the speaker line. Size, 9x12x4″ overall. Choice of walnut or blonde finish—specify when ordering.
12 D 7842 CX. Wt., 4¼ lbs........ **10.95**

TP-88 WIDE-ANGLE 8″ SPEAKER-BAFFLE

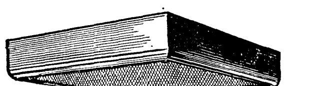


180° Sound Dispersion

Two 8-Inch Speakers at Oblique Angles

Unique design employs twin 8″ shallow-cone speakers mounted at oblique angles to effectively distribute music to all corners of room. Gives 180° sound dispersion. Unit measures only 4″ deep at the center, tapers to 2″ at outside edges. Speakers feature volume-boosting barium-ferrite magnet, which effectively gives more power per watt. ⅜″ plywood construction; 10x20x4″ overall. Capacity, 15 watts; impedance, 8 ohms. Screw terminals, hardware, included. Choice of walnut or blonde finish—specify choice when ordering.
12 D 7841 CX. Shpg. wt., 6½ lbs.......... **19.90**

8″ SPEAKER-BAFFLE FOR CEILINGS



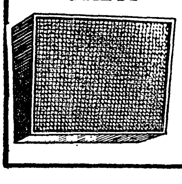
- No Ceiling Cutout Needed
- Surface Mounting Type
- Fixture Only 2½″ Deep
- Requires Minimum Power

Eliminates need for ceiling cutouts. Mounts easily right onto ceiling surfaces ⅜″ to ¾″ thick with hardware supplied. Shallow-frame 8″ speaker allows baffle to be thinner than most lighting fixtures. High-efficiency speaker has 6-watt capacity, good response and barium-ferrite magnet, which produces maximum power per watt—requires minimum amplifier power. Impedance, 8 ohms. Baffle basket finished in neutral light beige. Overall size, 12½x12½x2½″ deep.
12 D 7844 X. Shpg. wt., 3¾ lbs......................... **9.95**

STANDARD BAFFLE FOR 8″ SPEAKER

NEW

- Economy-Priced Fixture
- Birch Veneer with Finish



Low-cost baffle is standard for use with 8-inch speaker. Used together, they're perfect fixture for economical public address and music system installations in stores, homes and offices. Has birch veneer with choice of walnut or blonde finish— specify. Size, 9x11x5⅝″. Hardware included.
12 D 7092 CX. Shpg. wt., 3 lbs...... **4.95**

P.A. SPEAKERS AND LINE TRANSFORMERS

SPACE-SAVING SUPER-THIN SPEAKERS

Thin-design, round P.A. speakers. Number in Mfr's Type indicates speaker diameter. "C" indicates extra-high-efficiency ceramic magnet, others have Alnico V magnets. "W" indicates dual cones for wider response. All are 8 ohms impedance.

Stock No.	Mfr's Type	Watts	Mag. Oz.	Depth In.	Wt., Lbs.	EACH 1-2	3-5	6-Up
12 D 7907	PA8ECS	8	3.0	1⅞	½	4.92	4.65	4.40
12 D 7908	PA8FC	10	4.8	2¾	¾	4.98	4.73	4.48
12 D 7909	PA8FC-W	10	4.8	2¾	¾	5.28	5.02	4.75
12 D 7913	PA8JC-W	15	10.0	3	2¾	7.35	6.98	6.61
12 D 7914 X	PA12JC	18	10.0	4 7/16	4½	8.70	8.26	7.83
12 D 7916	PA8J	15	6.8	4 1/16	3	6.76	6.38	6.06
12 D 7917 X	PA12J	18	6.8	5 7/16	4½	8.53	8.10	7.70

LOW-COST LINE-TO-VOICE-COIL TRANSFORMERS

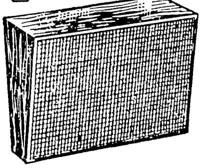
These transformers permit driving speakers at various power levels from same 70.7 or 25-volt line. Select desired power tap on transformer—doesn't affect other speakers in same system. All are equipped with solder terminals. Have 1¾″ mounting centers, except *with 2″ centers. Shpg. wt., 1 lb.

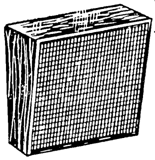
Stock No.	Watt Taps	Line Volts	Imp. Ohms	EACH 1-11	12-Up
12 D 7821	10, 5, 2.5, 1.25, .62	70.7	16, 8, 4	1.69	1.57
12 D 7822	5, 2.5, 1.25, .62, .31	25	16, 8, 4	1.59	1.47
12 D 7823	10, 5, 2.5, 1.25, .62*	25	16, 8, 4	2.24	2.05

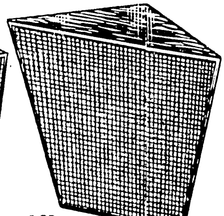
Speaker Baffles and Enclosures

Argos

A B C


PWB-8C


DWB and WB


SCB

A "PROFESSIONAL" PWB-8C WALL-MOUNT BAFFLE

With rectangular shape and trim sculptured look. Ideal for use in locations where extra air-volume and larger appearance are needed. Includes "Speedy Mounting" clips for easy hanging. Wood-grained vinyl finished with plastic grille. For 8″ speaker. Available in your choice of walnut or blonde finish—specify choice when ordering. 14x 16½x6¼″. Wt., 6 lbs.
12 D 7882 CX. 1-5...Each **6.07** 6-Up...............Each **5.67**

B DELUXE DWB WOOD WALL BAFFLES

Beautifully finished baffles designed for the finest surroundings. Furniture-finished birch with durable cane grille. All hardware and mounting clips you need are included. Available in choice of walnut or blonde finish—specify choice when ordering.

Stock No.	Model	Size	For	Lbs.	EACH 1-5	EACH 6-Up
12 D 7523 CX	DWB-8A	10½x9¾x6½″	8″	3¼	5.88	5.60
12 D 7524 CX	DWB-12A	14x13⅝x9⅛″	12″	5	8.23	7.80

B LOW-COST WB WALL-MOUNTING BAFFLES

Sturdy, durable wood baffles, vinyl finished with handsome cane grilles. Feature attractive new sculptured look. All required mounting hardware included. Available in your choice of blonde or walnut finish—specify when ordering.

Stock No.	Model	Size	For	Lbs.	EACH 1-5	EACH 6-Up
12D7590C	WB-4/5D	6⅜x6½x4″	4-5″	1½	3.04	2.89
12D7592C	WB-6D	8¼x8⅛x5″	6″	2	3.67	3.49
12D7591C	WB-8D	10¾x10x6½″	8″	3	4.37	4.15
12D7526CX	WB-12D	14¼x13⅞x9⅛″	12″	5	6.03	5.73

C SLANTING-FRONT SCB CORNER BAFFLES

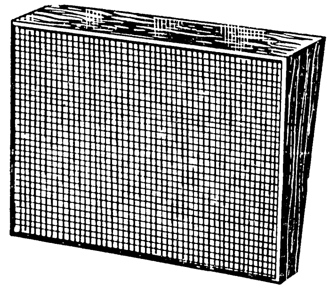
"Clip-In" front goes on or off in seconds without front screws—entire cabinet mounts easily on wall with "Speedy Mounting" clips. Bass-reflex type for wide-range response. Screw terminals; acoustic padding. Wood-grained vinyl covered. Available in your choice of walnut or blonde finish—specify choice when ordering.

12 D 7510 CX	SCB-8D	15x17¾x9″	8″	6	8.58	8.15
12 D 7511 CK	SCB-12D	20x20¾x10½″	12″	8	12.05	11.44

"THINLINE" SPEAKER/BAFFLE COMBINATIONS

Available with Volume Control and/or Transformer

8 and 12-inch Speakers Give Clear Tone and Wide Response



- Tapered and Extra-Thin, No Sacrifice in Performance
- All Components Installed and Wired for Convenience

Modern-looking, space-saving baffles with powerful 8″ or 12″ speakers. Boast wide-range response, clear tone—perfect for paging and background music systems. All baffles are expertly styled—thin and wide—with clean, sculptured appearance.

Series 108 has 8″ speaker with 1-oz. magnet and 6-watt capacity.
Series 408 has 8″ speaker with 4.8-oz. magnet and 10 watt capacity.
Series 508 has 8″ speaker with 6-oz. magnet and 15-watt capacity.
Series 212 has 12″ speaker, 10-oz. magnet, 20-watt capacity.

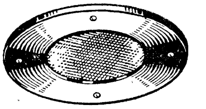
Speakers have screw terminals for quickest hookup. All baffles have wood-grained vinyl covering and matching cane grille cloth, except Series 508 with genuine wood-veneer finish In choice of walnut or blonde—specify when ordering.

In table below "L" indicates L-pad volume control; "V" indicates standard volume control; "T", 70.7-volt transformer.

Stock No.	Model	Baffle Size	EACH 1-5	EACH 6-Up
12 D 7883 CX	WB-108CS	9½x12x4¼″	7.59	7.21
12 D 7342 CX	WB-108CSV		9.51	9.03
12 D 7425 CX	WB-108CST		10.04	9.55
12 D 7343 CX	WB-108CSVT		11.66	11.08
12 D 7344 CX	WB-408CS	9½x12x4¼″	9.31	8.85
12 D 7350 CX	WB-408CSL		11.42	10.85
12 D 7426 CX	WB-408CST		11.76	11.18
12 D 7351 CX	WB-408CSLT		13.67	12.98
12 D 7352 CX	PB-508CS	9¾x11x5⅜″	11.27	10.70
12 D 7353 CX	PB-508CSL		13.47	12.79
12 D 7429 CX	PB-508CST		13.72	13.03
12 D 7354 CX	PB-508CSLT		15.63	14.85
12 D 7887 CX	WB-212CS	13¾x16x6¼″	15.09	14.32
12 D 7888 CX	WB-212CSL		17.25	16.39
12 D 7430 CX	WB-212CSLT		19.25	18.29

BAFFLES AND ENCLOSURES FOR 8″ SPEAKERS

soundolier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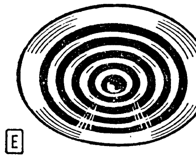
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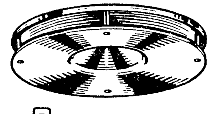
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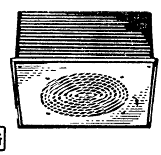
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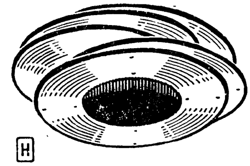

H

D **MODEL 61-8 TRIM-RING BAFFLE.** Highly polished 20-gauge steel. Flush mounting Will not "give" or buckle when installed. Requires 8½″ ceiling hole. Accepts 8″ speaker. Use with 95-8 Protective Enclosure (right). Outer diameter, 12¾″. Less speaker. Shpg. wt., 1¾ lbs.
12 D 7548 X. 1-4..Ea. **2.95** 5-Up Ea. **2.59**

E **MODEL 67-8 LOUVERED BAFFLE.** Similar to air diffusers in appearance. Flush mounting, recessed louvers. Aluminum finish. Welded construction eliminates vibration and rattle. Requires 10¼″ hole. Accepts any 8″ speaker. Overall diameter, 12″. Use 95-8 Protective Enclosure (right). Less speaker. 2 lbs.
12 D 7546 X. 1-4..Ea. **4.53** 5-Up Ea. **3.98**

F **MODEL 68-8 LOW-CEILING BAFFLE.** Attractive satin-brushed-aluminum finish. For maximum sound dispersion. Specially designed sound diffractor avoids "beaming" of sound in low-ceiling applications. Requires 8½″ hole. Takes 8″ speaker. Overall diameter, 12¾″. Use with 95-8 Protective Enclosure (right). Less speaker. Shpg. wt., 1¼ lbs.
12 D 7547 X. 1-4..Ea. **6.93** 5-Up Ea. **6.07**

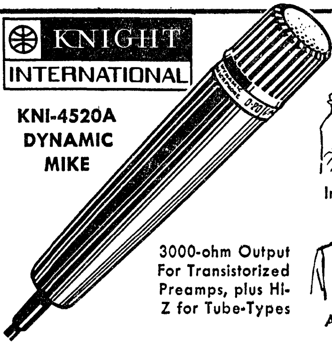
G **MODEL 169-8 TRIM SQUARE BAFFLE.** (Illustrated with 193-8 enclosure.) Made of 24-gauge steel. White finish. Requires 8½″ round or 9⅝″ square hole with enclosure. For any 8″ speaker. 10½″ square. Less speaker. Wt., 1 lb.
12 D 7554 X. 1-4..Ea. **2.37** 5-Up Ea. **2.08**

G **MODEL 193-8 ENCLOSURE.** (Illustrated with 169-8 baffle.) Fits 169-8, left. Welded 20-gauge steel. Undercoated. 3¾x 9⅝″ sq. 1¾ lbs.
12 D 7555. 1-4....Ea. **3.96** 5-Up Ea. **3.47**

H **MODEL 51-8 TRIM-RING BAFFLES.** White finish. Made of rugged 24-gauge steel. May be painted. Flush mounting. Require 8½″ hole. For any 8″ speaker. Use with 95-8 Enclosure (below). 12¾″ dia. Less speaker. Shpg. wt., 6¼ lbs.
12 D 7502 X........Package of 5 for **7.95**

MODEL 95-8 ROUND ENCLOSURE. (Not illus.) Made of durable 20-gauge steel. Undercoated; jute patch reduces resonance. 4¼x 9⅞″ dia. Shpg. wt., 3 lbs.
12 D 7550 X. 1-4..Ea. **4.86** 5-Up Ea. **4.26**

Allied's Own *knight*® Microphones



KNI-4520A DYNAMIC MIKE

3000-ohm Output For Transistorized Preamps, plus Hi-Z for Tube-Types

Interviews

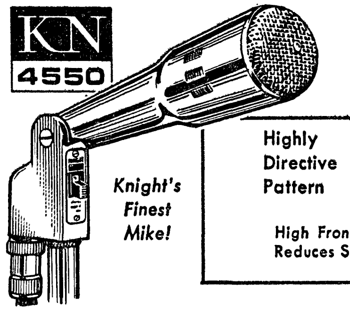
Stand Adapter

As Lavalier

Desk Stand

One of the few dynamic mikes available with a medium-impedance output (3000 ohms) to match transistorized preamps, plus a high-impedance output. Perfect for replacing mikes supplied with many solid-state tape recorders, and for use with solid-state P.A. amplifiers. Frequency response 80-12,000 cps. Omnidirectional. Output, −57 db. With desk stand, lavalier assembly, 4½′ cable, ⅝″-27 floor stand coupler. Black case, 5 x 1⁵⁄₁₆″ dia. Manufactured in Japan to Allied's specifications. Less connector. 2 lbs.

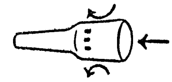
14 D 5180.................................10.85



PROFESSIONAL-QUALITY KN-4550 CARDIOID DYNAMIC MIKE

Knight's Finest Mike!

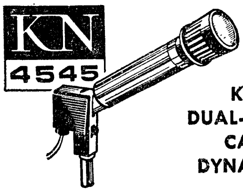
Highly Directive Pattern



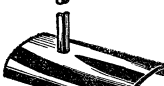
High Front-to-Back Ratio Reduces Surrounding Noise

One of the best buys in a fine general-purpose dynamic microphone. Cardioid pickup pattern "hears" sound originating in front of mike, but rejects most sound from behind. Chance of feedback is sharply reduced, and most audience noise is screened out. Excellent for P.A. systems in auditoriums and theatres, and for high-quality tape recording. Two separately tuned chambers ensure a smooth 45-14,000 cps frequency response Output level is −55 db. Special acoustalloy diaphragm withstands heat, cold and humidity extremes. Standard ⅝″-27 thread. Smart satin-chrome finished case. Built-in on-off switch. Shipped wired for high impedance, easily changed to low impedance. With 18-ft. cable. Less connector. Shpg. wt., 2 lbs.

14 D 5132...34.50



KN-4545 DUAL-IMPEDANCE CARDIOID DYNAMIC MIKE



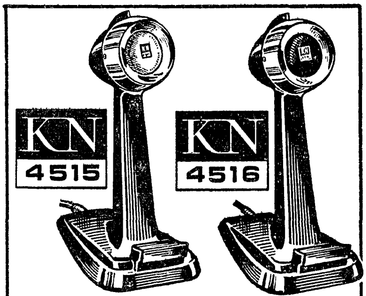
- For Recording, P. A. Systems
- 70-15,000 cps
- Satin-Chrome
- With Stand

The KN-4545 dual-impedance cardioid dynamic microphone is excellent for use as both a public address microphone or as a recording microphone for a high-fidelity tape recorder. It boasts a highly directional cardioid pattern to effectively pick up sound coming from in front of the mike, but reject most of the sound coming from behind it. Offers a wide frequency response of 70 to 15,000 cps. Features a shock-mounted generating element, resistant to variations in climate and humidity, making it ideal for use out-of-doors.

Offers dual-impedance: designed for quick, easy connection for low impedance (250 ohms) and high impedance (20,000 ohms) (shipped wired for high impedance). Mounting base has standard ⅝″-27 thread.

Attractive satin-chrome and black case. Includes convenient on/off switch; excellent for paging use. Size: 6⅜x1¾″. With desk stand and 8-ft. cable. Less connector. Shpg. wt., 4½ lbs.

14 D 5145......................22.50



For CB, Amateur, and P.A. Use

KN-4515 COMMUNICATION MIKE

Omnidirectional high-impedance crystal mike for communications work. Push-to-talk touch-bar, plus on-off switch on side of base. Wired for relay operation. Response, 60-8000 cps. Output, −48 db. Blue hammertone case, 7¾x3¾x5½″ with base. 7′ cable. Less connector. Shpg. wt., 3 lbs.

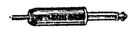
14 D 5165.....................11.95

KN-4516 PUSH-TO-TALK SSB MIKE

Crystal desk mike offers a 300-3000 cps response for SSB (limited to voice). Push-to-talk and lock switch. Can be wired for VOX. Output, −48 db. Smart black-finished case, 7¾x3¾x5½″. With 5-ft. coiled cable. Less connector. Shpg. wt., 3 lbs.

14 D 5167.....................13.74

KN-4510 ALL-PURPOSE CERAMIC MIKE



Includes Standard ¼″ Phone Plug

- Wide 50-11,000 cps Frequency Response
- Hi-Z −56 db Output
- With Stand

The KN-4510 is an omnidirectional ceramic microphone that is priced specially for use where budgets are restricted. A fine general-purpose microphone, suitable for a broad range of applications.

Small and lightweight—excellent for home tape recording, paging applications, lecturing, and many other uses. It can be comfortably held in the hand, or used with any standard floor or desk stand. An attractive desk stand is included that matches the KN-4510's finish.

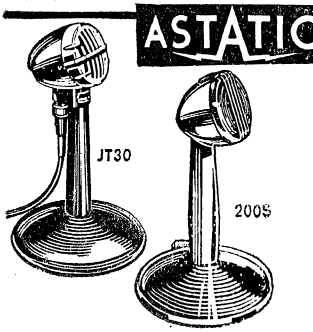
Has a high-impedance output of −56 db. Overall frequency response is from 50 cps to beyond 11,000 cps, for excellent music reproduction. Attractively styled with a brushed-chrome case and a matching meshed grille. Size: 5⅛x1⁹⁄₁₆ diameter.

Supplied complete with swivel-mount desk stand, 7-ft. cable, and ¼″ phone plug. Shpg. wt., 4 lbs.

14 D 5137.......................9.50

ASTATIC

GENERAL-PURPOSE MICROPHONES



JT30

200S

MODEL JT-30 CRYSTAL MIKE

Omnidirectional hi-Z. 30-10,000 cps. −49 db. Removable hand grip; desk stand. Gray, chrome, 8′ cable. 2½ lbs.

12 D 7223..............10.82

MODEL 200S CRYSTAL MIKE

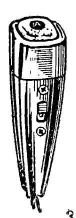
Omnidirectional hi-Z mike with on-off switch. Response, 30-7000 cps. −50 db. Base detaches. ⅝″-27 thread. Gold, chrome. 8x2½″ dia. 8-ft. cable. Shpg. wt., 2¼ lbs.

12 D 7402...............12.64

MODEL 335H DYNAMIC MIKE

Small, slim dynamic microphone that offers excellent performance features suitable for a wide variety of applications. Yet the price is uncommonly low. It has a slide-switch with "lock-on" position and comes complete with lavalier assembly and standard ⅝″-27 thread stand adapter. Output: −56 db. Frequency response: 100-12,000 cps. Gray plastic with chrome trim. 4½x1¼″. Shpg. wt., 1 lb.

12 D 7129...............15.58

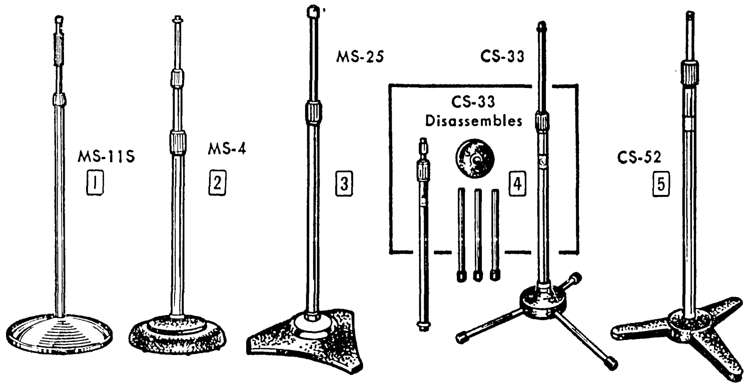


335H

As Lavalier

Allied Stocks a Full Line of Top-Quality Microphones for Every Purpose

Microphone Stands and Accessories



(1) **MS-11S AUTOMATIC FLOOR STAND.** Self-locking with automatic clutch for easy and instantaneous changes in height. Removing hand automatically locks the position. Adjusts 39-62". All chromed. 10" base. ⅝"-27 thread. Shpg. wt., 13 lbs.
12 D 7271 L2X **15.29**

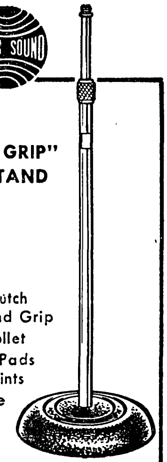
(2) **MS-4 TELESCOPING FLOOR STAND.** 25-65". 3 chromed sections, 2 clutches. 10" gray base. ⅝"-27 thread.
12 D 7270 L2X. Wt., 12 lbs........ **9.85**

(3) **MS-25 PROFESSIONAL FLOOR STAND.** "Air Lock Cushion" controls drop of chromed tube. 38-67". 17" chromed and gray base. ⅝"-27 thread. Wt., 22 lbs.
12 D 7330 L2K **17.35**

(4) **CS-33 COLLAPSIBLE FLOOR STAND.** Fully demountable floor stand with full grip "Velvet Action." Can be collapsed to a total length of only 22½", making it ideal for fixed as well as portable applications. Base legs remove and are self-leveling. No tools or screw fastenings are required to hold the base assembly together. Fully adjustable from 26 to 64". Chromed. 20" base diameter. ⅝"-27 thread.
12 D 7327 X. 4 lbs.................. **9.10**

(5) **CS-52 PORTABLE FLOOR STAND.** Adjusts 34 to 62". Chromed tube. 2 sections. Chromed self-leveling legs. 15" dia. base. ⅝"-27 thread. Wt., 9 lbs.
12 D 7450 X **7.35**

LOW-COST "FULL GRIP" MS-10C FLOOR STAND



$6.32

- Extended-Length Clutch Body for Full-Hand Grip
- Bakelite Locking Collet
- Self-Leveling Base Pads and "Anti-Tip" Points
- Stable 10"-Dia. Base

Excellent low-cost stand, innerlined with bakelite to prevent jamming or slipping. 2-section, chrome-plated tube adjusts from 35" to 63". Shrivel-gray base, 10" in diameter. Self-leveling, shock-absorbing base pads. Standard ⅝"-27 thread. Shpg. wt., 10 lbs.
12 D 7325 L2X **6.32**

MS-11C. Similar to above, but all chromed. 34-62".
12 D 7326 L2X. 13 lbs......... **8.53**

MS-14G. As MS-11C, but gold color.
12 D 7082 L2X. 12 lbs..... **11.02**

DESK, BANQUET, AND SWITCHBOARD MICROPHONE STANDS

(6) **DS-7.** General-purpose desk stand with adjustable "Velvet Clutch." Base is of cast iron with gun metal shrivel finish; has pads to prevent damage to desks or table tops. Adjusts from 8 to 13". Base diameter 6", tube height 4". Chrome finished. ⅝"-27 thread. Shpg. wt., 3 lbs.
12 D 7186 .... **3.53**

(7) **DS-10.** "Stream Liner" desk stand features rear cable exit for better stability and improved appearance. No soldering. Gray with chrome trim. Rubber bumpers. ⅝"-27 thread. Shpg. wt., 1½ lbs.
12 D 7205 .... **3.53**

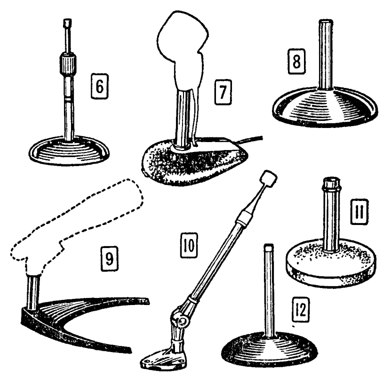
(8) **DS-6G.** Non-adjustable desk stand with deluxe gold finish to fulfill needs of special decors. Cast-iron base has pads to prevent furniture damage. Base diameter 6", height 4". 2 lbs.
12 D 7081 .... **3.38**

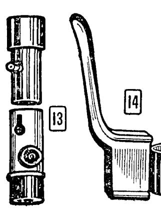
(9) **DS-14 CONTEMPORARY DESK STAND.** Modern stand with 3" chromed tube. Has gray-shrivel base. Standard ⅝"-27 thread. Shpg. wt., 2 lbs.
12 D 7109 .... **2.65**

(10) **US-2 MULTIPURPOSE MICROPHONE SUPPORT.** Ideal for language labs, switchboards, pulpits. Spring-loaded omni-swivel assembly "floats" in any position. Vertical: 180°. Horizontal: 360°. Chromed. 12¾" arm. 2⅝" base. ⅝"-27 thread. 2 lb.
12 D 7273 .... **5.59**

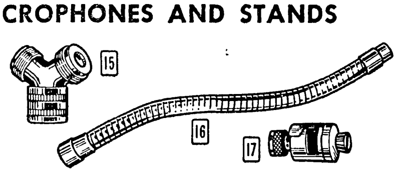
(11) **DS-4 DESK SUPPORT.** Detachable 4" chromed tube. Light beige 5" base. ⅝"-27 thread. Shpg. wt., ½ lb.
12 D 7272 .... **1.47**

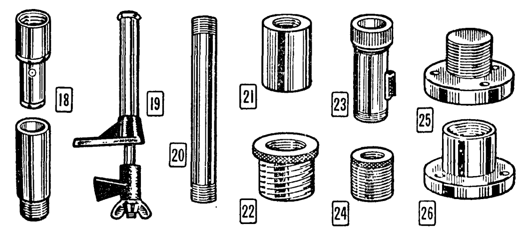
(12) **DS-5 DESK STAND.** 4" chromed tube. Gray shrivel 6" base with protective rubber pads. ⅝"-27 thread. 2 lbs.
12 D 7208 .... **2.06**





ACCESSORIES FOR MICROPHONES AND STANDS



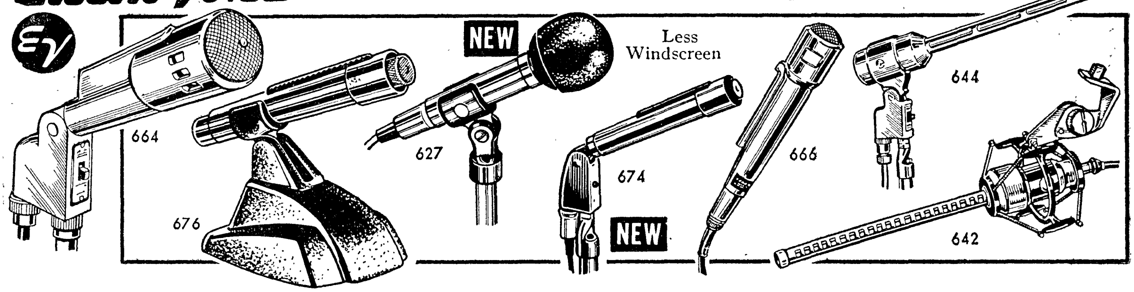


ADAPTERS AND FITTINGS. Thread sizes shown as ⅛" pipe are International Pipe Standard. ⅝" dia., 27 threads-per-inch is standard—fits all stands on this page. 6 oz., except *—1¼ lbs.

Stock No.	Type	Fig.	Description	EACH
12 D 7110	LO2	13	Lock-on mike attachment	2.06
12 D 7207	CH1	14	Cable hanger; fits all stems ⅞" to 1¼" in diameter	1.62
47 D 1996	.....	15	"Y" Mike Connector	.99
12 D 7189	GN13	16	Flexible 13" gooseneck	1.62
12 D 7206 X	GN19	16	Flexible 19" gooseneck*	2.35
47 D 1946		17	Mike volume control; hi-imp.	4.17
12 D 7187	SO1	18	Snap-on mike attachment*	1.62
12 D 7190	BC1	19	Bracket clamp; 6" stem*	2.35

Stock No.	Type	Fig.	Description	EACH
12 D 7106	AD7	20	3" extension rod; ⅝"-27 ends	.53
12 D 7105	AD8	20	6" extension rod; ⅝"-27 ends	.59
12 D 7199	AD3	21	⅛" pipe female to ⅝"-27 female	.47
12 D 7201	AD4	..	¾" long; ⅝"-27 male coupling	.29
12 D 7202	AD5	21	⅝"-27 to ⅝"-27 female coupling	.47
12 D 7108	AD1	22	For adapting RCA mikes, ½" male to ⅝"-27 female	.62
47 D 1950	.....	23	Push-to-talk switch with lock	1.98
12 D 7198	AD2	24	⅛" pipe female to ⅝"-27 male	.44
12 D 7103	AD12	25	Mike base flange. Male. ⅝"-27	.59
12 D 7104	AD11	26	Mike base flange. Female. ⅝"-27	.59
12 D 7204	.....	..	Gyromatic mike lock swivel*	3.09

Electro-Voice® P.A. and General-Purpose Mikes



POPULAR MODEL 664 DYNAMIC
This extra-rugged dynamic microphone is a favorite for general-purpose P.A. and recording use. Provides natural reproduction of both voice and music. Has supercardioid pickup pattern and "Variable-D" construction for uniform pattern at all frequencies. "Pop-proof" wire-mesh grille minimizes wind and breath blasts for close-talking without boominess. Shielded Acoustalloy diaphragm. 40-15,000 cps. Output, −58 db. Impedance, 150 ohms and high-Z (shipped wired for hi-Z, easily changed to 150 ohms). On-off switch. Detachable 16-ft. 2-conductor cable. Chromed finish. 5/8" −27 thread. 7 3/16x1 7/8" dia. 2 lbs.
12 D 7241 .... **49.98**

MODEL 665. Similar to Model 666 at right, but 50-14,000 cps. Output, −58 db. Recessed switch selects 50 or 250-ohm impedance. 7 3/16x1 7/8" diameter. 18' 3-conductor cable, stand adapter. Shpg. wt., 3½ lbs.
12 D 7240 .... **88.20**

MODEL 676 DYNAMIC
Reduces big-room reverberation. Continuously "Variable-D". Switch selects flat response for small rooms or recording, or low-frequency attenuation of 5 or 10 db at 100 cps for big rooms. Frequency response: 40 to 15,000 cps. Output, −57 db. Dual impedance: 150 ohms and hi-Z. 16-ft., 2 conductor cable and 91-MC4M connector. With Model 300 stand adapter. Standard 5/8"-27 thread. Bright chromed finish. Size, 7 3/8x 1¼" diameter. Shpg. wt., 2 lbs.
12 D 7432 .... **58.80**

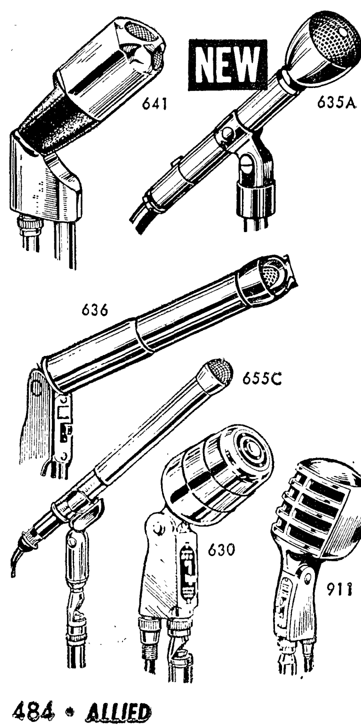
MODEL 627 CARDIOID DYNAMIC
Cardioid pickup pattern rejects unwanted sounds from rear and sides, reduces feedback problems. "Single-D" construction. Wide-range frequency response: 40-12,000 cps. Weighs only 8 oz. (less cable). Dual impedance, hi-Z and 150 ohms. Acoustifoam-surround protects element. Convenient on-off switch. Output: −58 db. Die cast housing. 16-ft. cable. Size: 5x1" barrel; 2" diameter head. Standard 5/8"-27 thread. Bright chrome finish. Shpg. wt., 1½ lbs.
12 D 7099 .... **35.28**
12 D 7428. Windscreen for Above. 1 lb. **7.50**

NEW MODEL 674 DYNAMIC
An excellent mike for both P.A. and general recording applications. Features E-V's "Variable-D" design which solves noise and feedback problems by providing symmetrical cardioid pickup and optimum cancellation from back and sides at all frequencies. Frequency response: 40 to 15,000 cps. Output: −57 db. Impedance: 150 ohms and hi-Z. 16-ft. 2-conductor cable. Die-cast zinc case with bright chrome finish. Built-in mike base flange. Standard 5/8"-27 thread. Shpg. wt., 2 lbs.
12 D 7098 .... **58.80**

MODEL 644 "SOUND SPOT"
Deluxe directional dynamic mike boasting a combination of cardioid and distributed-front opening for working distances up to 2½ times those of conventional microphones. Above 700 cps, sound cancellation at front and rear is 20 to 25 db. This mike is excellent for press conferences, or any application where the highest directivity is essential. Frequency response is 40 to 12,000 cps for excellent voice or music reproduction. Dual impedance: 150 ohms and high-impedance. Output: −53 db. Has convenient on-off switch and a 16-ft. 2-conductor, shielded cable. Deluxe satin-chromed case, 16x2 5/16". Has ¾" diameter tube. Standard 5/8"-27 thread. Shpg. wt., 3 lbs.
12 D 7121 .... **64.68**

MODEL 666 PROFESSIONAL "D"
Excellent all-purpose dynamic mike with "Variable-D" design to discriminate against sound coming from back. Response: 30-16,000 cps. Output: −58 db. Impedance: 50, 150, and 250 ohms (wired for 150 ohms). Gray aluminum. 7¾x1¾" dia. With clamp-on 5/8"-27 stand mount. Cannon UA-3-11, 20' 3-cond. cable. Shpg. wt., 4 lbs.
12 D 7249 .... **149.94**

MODEL 642 "CARDILINE" DYNAMIC TV MICROPHONE
Dynamic microphone designed especially for television use. 90° pattern lets you aim mike for maximum pickup. Cardioid action plus distributed-front opening ensure high directivity over entire 30-10,000 cps. range. Working distance over 2-3 times that of other mikes. Impedance: 50, 150, and 250 ohms. Output: −48 db. 17 7/8x3 3/16". 20' 3-conductor cable. Less mount. Wt., 9 lbs.
12 D 7448 X **229.32**



360° OMNIDIRECTIONAL MICROPHONES

MODEL 635A DYNAMIC
- Ideal for Entertainers
- Hand-to-Stand Feature
- 60 to 15,000 cps Response

Dynamic omnidirectional for hand and stand use by entertainers and vocalists. Effective 4-stage pop and dust filter virtually eliminates need for external wind screen. Response, 60-15,000 cps. Output, −55 db. Low impedance, very rugged magnetic shielded turned-steel case, finished in non-reflecting satin chrome. 6x1 3/8" dia. Cannon XLR-3-11 connector, 18-ft. 3-cond. cable. With Model 310 stand-clamp. 1 lb.
12 D 7481 .... **48.22**

655C "SLIM-TRIM" DYNAMIC
Omnidirectional for stand, hand, or boom. Weighs only 7 oz. "Pop-proof" grille. Response, 40-20,000 cps. Output, −58 db. Imp., 50, 150, and 250 ohms (wired for 150 ohms). Non-reflecting gray. 10 3/8x1 3/8" dia. with Cannon UA-3-11, 20-ft. 3-cond. cable, clamp-on 5/8"-27 stand-mount. Shpg. wt., 1¼ lbs.
12 D 7243 .... **117.60**

MODEL 911 CRYSTAL MIKE
High-impedance all-directional mike. Crystal element has high output for P.A., recording, Ham use. 50-10,000 cps. Output, −50 db. Swivel mount has on-off switch, 5/8"-27 thread. Satin-chromed. 2 3/8x3 1/8x 6¾". 16-ft. cable. Wt., 2½ lbs.
12 D 7242 .... **22.05**

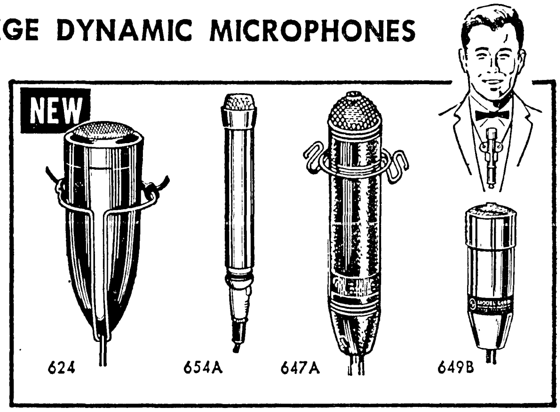
MODEL 641 DYNAMIC
Low-cost mike for communications, P.A., home recording, paging systems. 70-10,000 cps. Output, −57 db. On-off switch. Two-tone case of chromed die-cast zinc and gray plastic. 4¾x1 1/3" dia. 5/8"-27 thread. 16-ft. cable. Shpg. wt., 1 lb.
12 D 7265. Low Impedance **23.23**
12 D 7451. High Impedance **23.23**

MODEL 636 "SLIMAIR" DYNAMIC
A deluxe omnidirectional dynamic microphone for P.A. and tape recording applications. Inconspicuously slim, diameter is only 1 1/8". Easily concealed, yet provides output (−58 db) equal to mikes four times as large. Wide-range frequency response of from 60 to 13,000 cps. Wire-mesh "pop-proof" filter eliminates wind and breath blasts. Impedance, 150 ohms and high impedance (shipped wired for high impedance). On-off switch on 90° vertical swivel base with standard 5/8"-27 thread. Satin-chromed steel case. 10¼x1 1/8" diameter. Detachable 16-ft. 2-conductor cable. Shpg. wt., 2 lbs.
12 D 7244 .... **42.63**

MODEL 630 DYNAMIC
Popular dynamic microphone for dispatching, tape-recording, and general use. Can be stand-mounted (tilting 90°) or hand-held. Frequency response, 60-11,000 cps. Output, −55 db. High impedance. On-off switch. Chromed case. 6¼x2" dia. 5/8"-27 thread. 16-ft. cable. Shpg. wt., 2½ lbs.
12 D 7226 .... **30.87**

Broadcast and Communications Mikes *Electro-Voice*®

BROADCAST QUALITY WIDE-RANGE DYNAMIC MICROPHONES



NEW MODEL 624 EXCELLENT FOR OUTDOOR USE

- Perfect for a Multitude of Applications
- Withstands Rough Handling and Outdoor Use

Ideal for home recording, paging, P.A., Amateur radio. Easy to hold by hand or use as a lavalier. Omnidirectional. 100-7000 cps. Wire mesh grille minimizes wind and breath blasts. Output, −56 db. Hi-Z. Withstands humidity, temperature extremes, corrosive effects of salt air and severe mechanical shocks. With combination neck cord and tie clip for mike, 18′ cable. $3\frac{5}{32}$x$1\frac{7}{32}$″ dia.
12 D 7094. Shpg. wt., 1 lb............................**26.46**

MODEL 654A ALL-PURPOSE "SLIM-TRIM"

Broadcast-quality dynamic mike can be used on stand, hand-held, or as a lavalier. Matches all low-impedance inputs. Response, 50-16,000 cps. Output, −57 db. Built-in Cannon XLR-3 connector. 18-ft. cable. Non-reflecting gray finish. $6\frac{15}{16}$x$1\frac{1}{8}$″ diameter. With stand clamp, neck cord.
12 D 7117. Shpg. wt., 3 lbs............................**58.80**

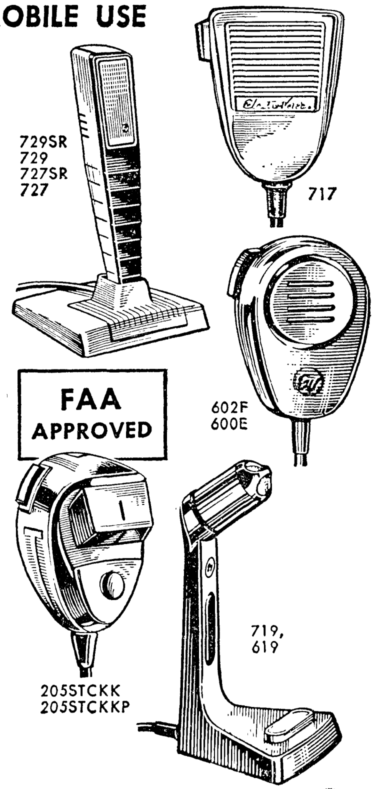
MODEL 647A DYNAMIC LAVALIER MIKE

May be hung around neck, clipped to jacket, or held in the hand. Extremely lightweight (only 2 oz., less cable). Exclusive Acoustalloy diaphragm withstands humidity, temperature extremes, and shock. Response, 60-12,000 cps. "Pop-proof" wire mesh grille. Output, −60 db. Hi-Z or 150 ohms. Aluminum case, $3\frac{3}{4}$x$\frac{3}{4}$″. With 18-ft. cable, lavalier assembly, belt clip, stand clamp.
12 D 7264. Shpg. wt., 1 lb............................**48.51**

MODEL 649B MINIATURE LAVALIER MIKE

This dynamic, omnidirectional lavalier mike is the standard of the TV industry. Weighs only 31 grams (less cable). Presents numerous possibilities for "walk about" applications. Perfect for programing requiring unobtrusive mike placement. Only $2\frac{1}{4}$x$\frac{3}{4}$″ dia. Frequency response, 60-12,000 cps. Output, −61 db. Matches all low-impedance inputs. "Pop-proof" wire mesh grille. Non-reflecting gray aluminum case. With neck cord, belt clip, 30′ cable, stand-mounting clamp. Shpg. wt., 1 lb.
12 D 7118..**61.74**

MICROPHONES FOR COMMUNICATIONS AND MOBILE USE



MODEL 717 NOISE-CANCELING MIKE

Noise-canceling ceramic for use in in noisy areas. Cancels out most ambient noise. Press-to-talk DPDT switch for mike, external relay. 100-7000 cps. Hi-Z. Output, −55 db. With 5′ retractable, 3-cond. coiled cable, mounting bracket. $3\frac{5}{8}$x$2\frac{1}{2}$x$1\frac{7}{16}$″. Shpg. wt., 1 lb.
12 D 7433......................**11.47**

MODEL 602F NOISE-CANCELING

Dynamic, differential, close-talking mike blocks out sound farther than $\frac{1}{4}$″ away. Output, −55 db. 200-5000 cps. Press-to-talk switch shorts mike in "off" position, closes relay in "on". Blue-gray. $2\frac{1}{2}$x4x$1\frac{3}{4}$″. With mtg. bracket, 6′ extended coiled chord. Shpg. wt., 1 lb.
12 D 7484. Low Impedance.........**33.81**
12 D 7482. High Impedance........**33.81**

MODEL 600E DYNAMIC

Similar to Model 602F, without noise-canceling feature. −55 db. 100-7000 cps matched to high-intelligibility requirements. /8x$2\frac{11}{16}$x$1\frac{25}{32}$″. Coiled cord extends to 5′. Hangup bracket. Shpg. wt., 1 lb.
12 D 7485. Low Impedance.........**22.93**
12 D 7483. High Impedance........**22.93**

MODEL 205STCKK AIRCRAFT MIKE

Noise-canceling, single-button differential carbon microphone approved by the FAA for use in aircraft. Close-talking type (output at $\frac{1}{4}$″, −50 db). Response, 100-4000 cps. Extremely rugged—blastproof, waterproof, and shock resistant. Low impedance. Push-to-talk switch closes both mike and relay. Black penolic case. Size, $4\frac{1}{2}$x$2\frac{1}{4}$x2″. Complete with mounting bracket and 5-ft. coiled cord. Shpg. wt., 1 lb.
12 D 7035......................**29.40**

MODEL 205STCKKP. Similar to above, but includes PJ-068 plug. Shpg. wt., 1 lb.
12 D 7469......................**32.19**

MODEL 729SR CERAMIC CARDIOID

Low-cost mike with front pickup range nearly double that of pressure mikes. For Hams, home recording, P.A., and paging. Discrimination against sound from rear is ideal for VOX operation. Excellent for single sideband. Response, 60-8000 cps. On-off switch also controls external relay. Output, −55 db. High-Z. Gray die-cast front; plastic back. Complete with $8\frac{1}{2}$-ft. cable, desk stand, floor-stand adapter. $7\frac{3}{4}$x$1\frac{3}{8}$x$1\frac{1}{2}$″. Shpg. wt., 2 lbs.
12 D 7181......................**15.58**

12 D 7173. MODEL 729. As above, without switch. Shpg. wt., 2 lbs............**14.41**

MODEL 727SR CERAMIC

All-time favorite ceramic mike for Ham, CB, P.A., and recording use. Omnidirectional pickup pattern. Withstands extremes of temperature and humidity. Response, 60-8000 cps. Output, −55 db. High impedance. DPDT on-off switch controls mike and external relay. Metalustre gray. Size: $7\frac{3}{4}$x$1\frac{3}{8}$x$1\frac{1}{2}$″. Complete with $8\frac{1}{2}$-ft. 3-conductor cable, desk stand, and $\frac{5}{8}$″-27 floor-stand adapter. Shpg. wt., $1\frac{1}{2}$ lbs.
12 D 7257......................**13.82**

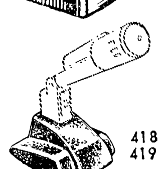
MODEL 727. Same as 727SR, above, but without on-off switch. Shpg. wt., $1\frac{1}{2}$ lbs.
12 D 7175......................**11.76**

MODEL 719 CERAMIC

Press-to-talk mike for CB and Ham. Push-to-talk with slide-to-lock bar converts to grip-to-talk. 80-7000 cps. One-piece die-cast mike and desk stand. $9\frac{3}{4}$x$4\frac{1}{2}$x$4\frac{3}{4}$″. DPDT switch controls mike or external relay. Output, −56 db. Hi-Z. $6\frac{1}{2}$′ 4-conductor cable. Shpg. wt., 3 lbs.
12 D 7120......................**16.17**

12 D 7124. Model 619. Similar to Model 719, above, but dynamic type. 70-10,000 cps. Hi-Z. −57 db. Shpg. wt., 3 lbs. **27.93**

MICROPHONE ACCESSORIES



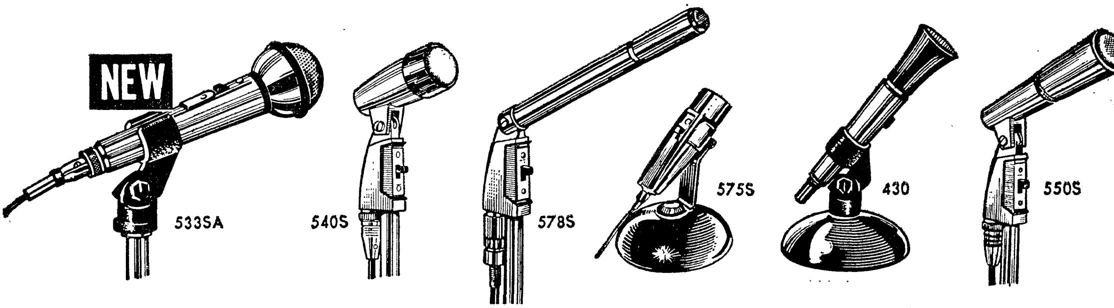
MODEL 418 DESK STAND. For use with mikes using small-type stud—Models 630, 636, 641, 911, and 951. Gray, die-cast base. Wt., 3 lbs.
12 D 7146.................**7.64**

MODEL 419 DESK STAND. Same appearance as 418, above, but for mikes using large-type stud—Models 644, 664, and 665. Wt., 3 lb.
12 D 7209.................**7.64**

MODEL 502B TRANSFORMER. (Not illus). Matches low-Z mike to hi-Z input. Has MC-4 connector and 2-ft. cable. Shpg wt., 1 lb.
12 D 7340.................**9.70**

SHURE

Quality Public Address Mikes



GENERAL-PURPOSE OMNIDIRECTIONAL DYNAMIC MIKES

NEW MODEL 533SA

An excellent performing high-impedance dynamic microphone, ideal for tape recording, entertainers, and instructors. Hand-to-stand feature. Wind, breath, and pop filters are incorporated to eliminate annoying noises. Equipped with convenient on-off switch. Frequency response: 40-11,000 cps. High-impedance output: −54.5 db. Single-conductor shielded 15-ft. cable. Includes swivel adapter. Satin chrome finish. Size, 6⅝x2¹⁄₁₆" dia. Shpg. wt., 1¾ lbs.
12 D 7309......................29.40

MODEL 533SB. Same as above, but low-impedance. Output: −55.5 db. 2 lbs.
12 D 7338......................27.93

MODEL 540S "SONODYNE II"

50-13,000 cps for music, 150-6500 cps for speech. On-off switch. 50-250 ohms and hi-Z. Outputs: hi-Z, −55 db; low-Z, −57 db. Chrome, black. Swivel mount. 15' 2-cond. cable. 3⅝x1⅝".
12 D 7132. Wt., 4¼ lbs..........29.37
12 D 7395. 540. No on-off switch..28.19

MODEL 578S "OMNIDYNE"

Ultraslim mike for outstanding reproduction. 50-15,000 cps. 2 imp.: 50-250 ohms and hi-Z. Output: hi-Z, −59 db; low-Z, −60 db. Satin chrome. On-off switch, swivel mount, 18' 2-cond. detachable cable. 7¼x¾" dia. 2 lbs.
12 D 7460......................52.92
12 D 7442. 578. Similar to above, but with attached cable, for hand use. Swivel adapter. Shpg. wt., 2 lbs..........48.51

LOW-COST MODEL 575S

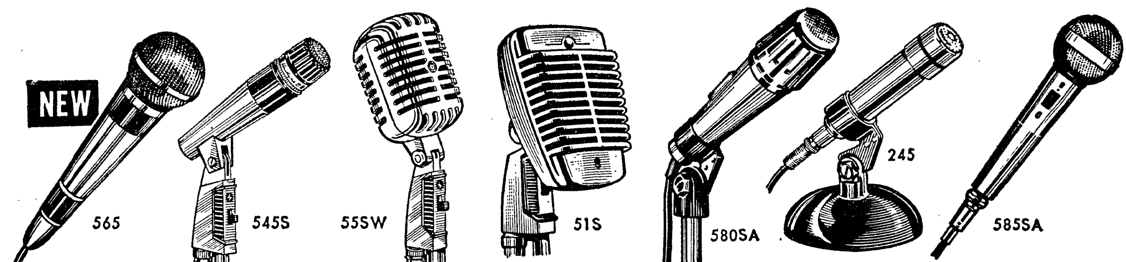
Omnidirectional high-impedance dynamic. 40-15,000 cps. Output: −57.5 db. Black satin. On-off switch, stand adapter, lavalier assembly, 7' single cond. cable. Less S-38B base (see page 487). 4¾x1¼".
12 D 7462. Shpg. wt., 1 lb.........14.11
12 D 7471. Model 575SB. Low Z....12.35
Model 275S. Ceramic version of above. 40-12,000 cps response. Impedance: 1-5 meg. Output: −59.5 db. Switch, stand adapter, lavalier assembly. Shpg. wt., 1 lb.
12 D 7284......................8.81

MODEL 430 CONTROLLED MAGNETIC

Omnidirectional, dual-impedance, controlled magnetic microphone. Excellent for P.A. paging; can be used both indoors and outdoors. Frequency response: 60-10,000 cps. Impedances: 150 to 250 ohms and high impedance. Output: −52 db. Black and satin chrome case. Has convenient on-off switch and swivel adapter. 15-ft. 3-conductor cable. Less base. Size, 6³⁷⁄₆₄x1¾" diameter. Shpg. wt., 2¼ lbs.
12 D 7213......................22.64

MODEL 550S HI-FI MIKE

Wide-range dynamic microphone for high-fidelity recording and quality public address systems. Frequency response is smooth from 50-15,000 cps. Dual impedance: 50-to-250 ohms and high impedance. Output levels: hi-Z, −58.5 db; low-Z, −57.5 db. Smart, satin chrome finished case. Has convenient on-off switch, plus swivel mount, and 18-ft. 2-conductor cable. Size, 6½x1½" diameter. Shpg. wt., 2¼ lbs.
12 D 7459......................40.57



GENERAL-PURPOSE MICROPHONES

565 "UNISPHERE I" DYNAMIC

A rugged, feedback-free dynamic cardioid ball-type microphone. Perfect for both high-fidelity recording and P.A. needs, indoors or out. "Pop-proof" wire-mesh spherical screen provides protection from pops, blasts, and wind. Frequency response is 50 to 15,000 cps. Dual impedance: 50 to 250 ohms and high-impedance. Outputs: low-Z, −57 db; hi-Z, −55 db. Has convenient on-off switch. Smart gleaming chrome and black case. Swivel adapter. Complete with 18-ft. detachable 3-conductor cable. Size, 6x2" diameter. Shpg. wt., 3 lbs.
12 D 7303......................55.86

545S "UNIDYNE III" DYNAMIC

For reliable use where a high-quality mike with an on-off switch is required. Cardioid pickup pattern. Dynamic element has full 50 to 15,000 cps frequency response. Outputs: 50 to 250 ohms, −57 db and high-impedance, −55 db. Satin-chrome and black. Swivel mount permits tilting head through 180°. With 18-ft. 3-conductor cable. Size: 5¹³⁄₁₆x1¼". Shpg. wt., 3 lbs.
12 D 7133......................52.89
12 D 7161. Model 545. Above, but without on-off switch. Swivel adapter.........49.98

55SW "UNIDYNE II" DYNAMIC

Cardioid pattern. Frequency response: 50 to 15,000 cps. Outputs: 35 to 50 ohms, −55 db; 150-250 ohms & hi-impedance, −57 case. On-off switch. Swivel mount. 18-ft. 2-conductor cable. 4½x2³⁄₁₆x3¹⁄₁₆". 4 lbs.
12 D 7135......................49.98

Model 55S. Above, without on-off switch.
12 D 7234......................48.80

Model 556S. Deluxe version of Model 55SW. Frequency response: 40 to 15,000 cps. Shock mounted. Shpg. wt., 3½ lbs.
12 D 7235......................79.38

51S "SONODYNE I" DYNAMIC

Dynamic. 60-10,000 cps. 30-50 ohms low-Z, −52 db; 150-250 ohms medium-Z, −52.5 db; hi-Z, −49.5 db. Chrome. On-off switch, swivel mount, 15' 2-cond. cable. 4½x3⅛x2½". Wt., 3½ lbs.
12 D 7136......................30.28
12 D 7228. Model 51. Same as above, but without on-off switch..............29.11

580SA "UNIDYNE A" DYNAMIC

Dynamic microphone with wide-range frequency response of 50 to 12,000 cps. Cardioid pattern ideal for P.A. Reduces placement problems due to feedback; rear-sound rejection is excellent for recording applications. High-impedance output, −58 db. Chrome finish. With on-off switch, swivel adapter, 15-ft. 2-conductor cable. Size, 6⅝x1¾" diameter. Shpg. wt., 3 lbs.
12 D 7050......................34.69
Model 580SB. Same as the Model 580SA, above, but low-impedance. Shpg. wt., 3 lbs.
12 D 7427......................30.58

MODEL 245 CERAMIC

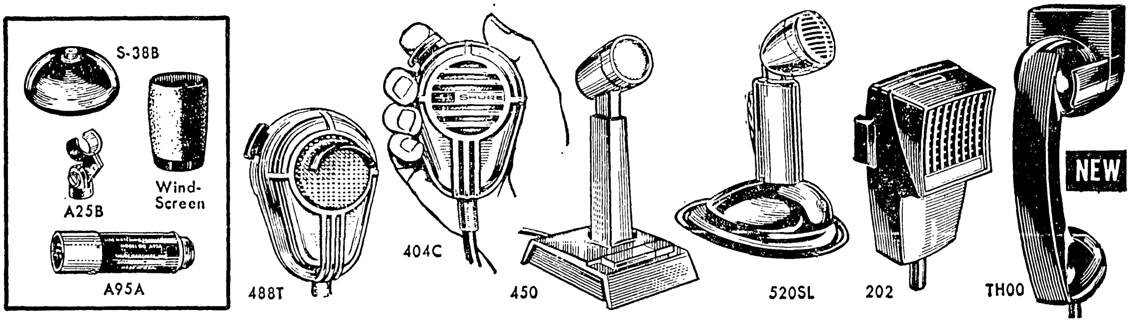
High-impedance ceramic microphone with cardioid pattern. Frequency response, 50 to 7000 cps. Output: −59 db. Swivel adapter, 15' 2-conductor cable. Less base. 4¾x1⅛". Shpg. wt., 1¼ lbs.
12 D 7285......................20.58
12 D 7286. Model 245S. Above, with on-off switch..........................21.76

MODEL 585SA "UNISPHERE A"

12 D 7304. Similar to 565. 50-12,000 cps Hi-Z, −59.5 db. 15' cable. 3 lbs.....38.22
12 D 7305. 585SB. Same as 585SA, but low-impedance. 6¾x2¹⁄₁₆". 3 lbs.....34.10

All Stand-Mounting Mikes Have Standard ⅝"-27 Threads

Communications and Paging Mikes



OMNIDIRECTIONAL CONTROLLED-MAGNETIC AND NOISE-CANCELING MICROPHONES

488T. Transistorized—replaces carbon mikes. Noise canceling. FAA-approved. −3 db. 100-800 ohms. Req. 6-18 v. DC across mike. Push-talk. Bracket, cable, PJ068 plug.
12 D 7306. Wt., 1 lb.............42.63
12 D 7440. Model 488B. Above, not transistorized. 150-250 ohms. −37 db...33.81
12 D 7141. 404C. Cont. mag. Hi-Z. 200-8000 cps. −50.5 db. Push-talk. 1 lb...19.40

12 D 7140. Model 404B. Like 404C, but 150-250 ohms. Output, −50 db.....19.40

450. Controlled magnetic. Adjustable stand height. Lockable push-to-talk mike relay switch. 100-10,000 cps. Outputs: hi-Z, −54 db; low-Z, −55 db. Two-tone gray. 7′ 4-cond. cable. "Armo-Dur" case. 10$\frac{5}{16}$x5$\frac{11}{16}$x4". Shpg. wt., 3 lbs.
12 D 7444......................29.11

12 D 7441. Model 444. Like 450. For Hams; hi-Z only. 200-6000 cps. Output: −53 db. VOX switch. Wt., 3½ lbs...24.99

520SL. High impedance, controlled magnetic. Grip-talk, locking switch. 100-9000 cps. Output: −52.5 db. Chrome, green. 7′ 2-cond. cable. 9⅜x5x7". Wt., 5 lbs.
12 D 7233......................26.46

202. Ceramic, noise-canceling. 200-4000 cps. Hi-Z: −50 db. Switch, bracket. 5′ coiled cable. Wt., 1 lb.
12 D 7465......................11.76

TH100. Professional mobile handset. Includes cradle for mtg. Controlled magnetic. 200-3000 cps. Transmitter, hi-Z. Receiver, 125 ohms. 4′ coiled cable. Black. Handset: 8½x2½x2½". Cradle, 3¼x3x3".
12 D 7307. Wt., 3 lbs.............34.10

ACCESSORIES

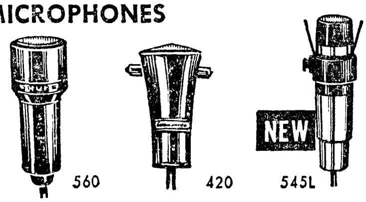
S-38B BASE. For mikes with stand adapter.
12 D 7445. Shpg. wt., 1½ lbs.......2.65

A-2WS WINDSCREEN. Fits "Unidyne III" models 545S, 545, 546, 545L, and Omnidyne 578 and 578S. 4x2¼". Shpg. wt., 5 oz.
12 D 7308......................3.53

A-25B. 90° swivel adapter. ⅝"—27 thread.
12 D 7446. Shpg. wt., ½ lb.........3.23

A95A TRANSFORMER. For low-Z to hi-Z. Matches 35-50 or 150-250 ohms. Built-in Amphenol MC1F output. 2½x¾". 9 oz.
12 D 7466......................10.29

LAVALIER MICROPHONES

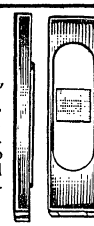


MODEL 560. Dual impedance, dynamic mike designed for lavalier use. Can be hand-held, used on floor stand, on desk stand, or worn in lavalier manner around neck. 40-10,000 cps response. Pin jacks can be repositioned to easily change impedance: 150-250 ohms and hi-impedance. Output: hi-Z, −56.5 db; low-Z, −55.5 db. Black satin. Has lavalier cord and clip assembly, 18′ 2-conductor cable. 4x1½" dia. Wt., 1 lb.
12 D 7461......................24.99

MODEL 420. Dual impedance, controlled magnetic mike. Lavalier type with omnidirectional pickup. 60-10,000 cps. 150-250 ohms and hi-Z. Output: −52 db. 20′ 2-cond. cable, lavalier assembly. 3$\frac{11}{16}$x1¾" dia.
12 D 7212. Wt., ¾ lbs...........17.64

MODEL 545L. "Unidyne III" lavalier with broadcast quality! A dynamic cardioid microphone for lavalier, hand-to-stand, or gooseneck mounting. Full-range 50 to 15,000 cps freqeuncy response. Low-impedance, −57.5 db. 20′ cable. 5⅛x1¼". With lavalier assembly. Shpg. wt., 3 lbs.
12 D 7339......................41.16

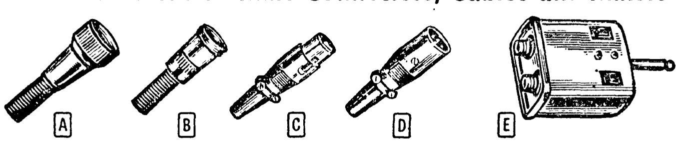
TYPE CA5AJ ULTRAMINIATURE CERAMIC MICROPHONE

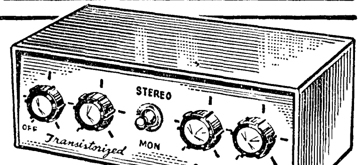


Remarkably small. Only 1/10" thick, weighs only ¾ gram. Easily hidden for TV and theatre work. Operates in a temperature range of −20 to 200° F. Originally designed for use with miniature experimental equipment.

Response equals that of many units of much larger size: 50-4500 cps. Hi-Z, −70 db. Has 1" leads attached. Size: 1x¼x1/10". Shpg. wt., 6 oz.
12 D 7470..................11.76

SWITCHCRAFT Mike Connectors, Cables and Mixers





306

MICROPHONE CONNECTORS. Single-contact Type 2501's fit all Knight P.A. amplifiers (except KN-3050—use Fig. C). To splice two cords, use two 2501F's. Figures C and D are quick-ground 3 and 4-contact insulated types. Have push-action, latch lock. Av. shpg. wt., 4 oz.

Stock No.	Type	Fig.	Description	EA.
12 D 7405	2501F	A	Plug or Jack	.35
12 D 7406	2501M	B	Plug	.26
12 D 7417	A3F	C	Fem. Conn.	1.32
12 D 7418	A4F	C	Fem. Conn.	1.62
12 D 7419	A3M	D	Male Conn.	1.12
12 D 7420	A4M	D	Male Conn.	1.18

E "MINI-MIX" AUDIO MIXERS. Miniature high-impedance mike mixers. Accept 2 signals into single output. All types feature separate level controls, low loss. 2$\frac{1}{16}$x1$\frac{13}{16}$x1$\frac{1}{16}$". Shpg. wt., 4 oz.

12 D 7112. Type 310. Two 2-conductor phone jack inputs; phone plug output..4.67

12 D 7114. Type 311. Above, with plug output for recessed type jacks..........5.26

12 D 7404. Type 313. Above, but with short plug, jacks for Wollensak/Revere 5.26

12 D 7113. Type 320. Male in; female output for ⅝"-27 screw connector.......4.67

MODEL 306 STEREO MIXER. Flip a switch and this mike mixer's four monophonic channels convert to two stereo channels. Four input jacks on rear panel. High-impedance circuit. Two phono jacks for output to amplifier or tape recorder. Size, 2x3x6". Shpg. wt., 1½ lbs.
12 D 7171......................13.23

12 D 7172. Model 306TR. Above, with two battery-operated transistor amplifiers. Supplied with battery. Wt., 1½ lbs.....22.05

MODEL 301 MONO MIXER. (Not illus.) Similar to 306, above. Permits mixing four signals into a single output. Accepts standard 2-conductor phone plugs—std. phono jack output to recorder or amplifier. Hi-Z. 2x3x6". Shpg. wt., 1½ lbs.
12 D 7169......................11.47

12 D 7170. Model 301TR. As above, but mono battery-powered transistor amplifier. With battery. Shpg. wt., 1½ lbs....17.64

MODEL 503 MIKE BOOSTER-PREAMP

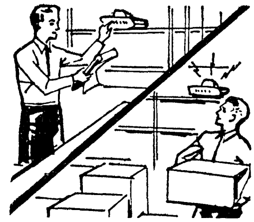
Flat, 20-10,000 cps. Switch-selected input of 40K or 2000 ohms. Approx. gain: hi-Z, 4 db; low-Z, 28 db. Max. output: low-Z, 70 mv; hi-Z, 250 mv. Transistorized. 2x2x1". Complete with battery and adapter for both regular and Tini-jack and plug. Includes 12" cable. Shpg. wt., 4 oz.
12 D 7052. Similar to Fig. E.........9.58

See Wire and Cable Section for Full Selection of Mike Cable

Intercom Systems for Office and Plant

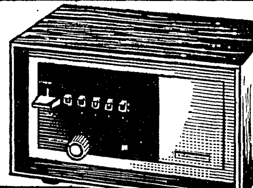
LET AN INTERCOM SYSTEM SAVE YOU TIME . . . SAVE YOU STEPS . . . CUT YOUR OPERATING COSTS

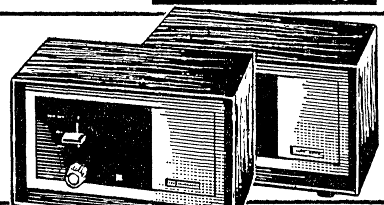
Provides An Important Link Between Departments . . . Reduces Switchboard Congestion . . . Keeps Telephone Lines Open



An Intercom System saves time—important executive decisions and up-to-the-minute reports are transmitted in an instant. Saves steps—key personnel stay where they're needed most, and inter-departmental traffic is reduced to a minimum. Saves money—expedites work in every productive area. Reduces switchboard congestion—keeps telephone lines open for important incoming calls. Provides a link between departments—key people are always in constant contact. Inexpensive to own and operate—costs you only a few pennies a day. Whatever your organizational structure, Allied has an Intercom System for you.

"EXECUTIVE" SERIES INTERCOMS BY FANON





X-606 MASTER STATION

- Handsome Oiled Walnut Cabinet
- Use Privately or in Conference

THE X-606 MASTER STATION is a dependable, high-performance unit that meets a wide variety of needs in intercom systems, for offices, shops, warehouses, etc.

Master units can be combined in two ways: a "Private System," which has up to 6 Masters and allows conversation with any of the units privately, or with all units in conference; and a "Non-Private" system, which allows the called station to respond without switching for 'hands-free' operation.

Each unit contains a talk/listen switch, volume control, and pilot light. Handsome oiled walnut wood cabinet (5½x9½x6"). For 115 VAC. Shpg. wt. 5 lbs.

12 D 8107 X................Each **29.95**

55 D 7529. 7-Cond. Cable for Private System. Shpg. wt. 4 lbs...........100-ft. Coil 6.70

55 D 8075. 7 Twisted Pairs for Non-Private System. Shpg. wt., 4 lbs...100-ft. Coil 14.95

X-600 2-STATION SYSTEM

- Units Can Call Each Other Independently
- Includes 50' Cable for Complete Set-up

X-600 2-STATION INTERCOM SYSTEM consists of a matched pair of intercom units; the X-601 Master unit, and the XR-01 remote. These units combine to provide a dependable, high-performance system that is excellent for use in the home, office, or shop.

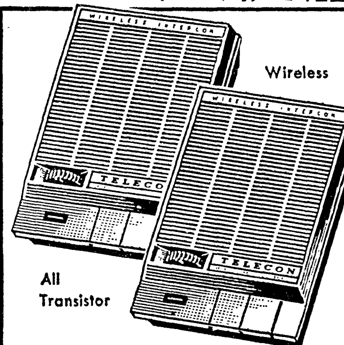
X-601 Master is a non-selective Master station which has provisions for connecting up to five XR-01 units. Features a press-to-talk switch with continuous talk position, volume control, and pilot light. Calls all units (up to 5) simultaneously. XR-01 remote can call the Master independently.

Both units styled in oiled walnut cabinets, 4¾x9½x5½". Includes 50' cable. For 115 VAC operation. Shpg. wt., 9 lbs.

12 D 8108 X. 2-Station System......**37.50**

12 D 8109 X. Extra-Remote. Add up to 4 more for a versatile intercom network. Shpg. wt., 4 lbs..............Each **14.95**

Wireless



All Transistor

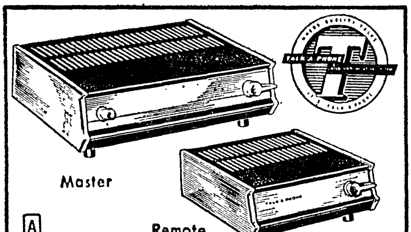
OUR LOWEST COST 2-STATION WIRELESS INTERCOM SYSTEM

PORTABLE STATIONS link bedroom to kitchen, office to office, etc. Even allow you to talk between buildings on the same line transformer. No connecting cable necessary, just plug stations into any 110-120 v., 60-cycle AC outlets. Transistorized circuit needs no warmup. Each unit has volume control, on-off switch, pilot light, and press-to-talk switch with lock bar for continuous transmission.

Units have keyhole slots for wall mounting, if desired. Attractively styled in Off-White and Black. 1¾x4⁵⁄₁₆x6⁵⁄₁₆". From Japan. Wt., 3 lbs.

12 D 8029. 2-Stations............**29.90**

12 D 8035. Extra Station. Add any number. Shpg. wt., 1½ lbs.......Each **14.95**



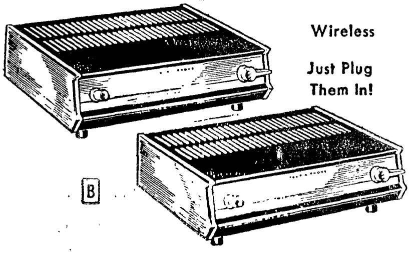
Master

Remote

[A]

Wireless

Just Plug Them In!



[B]

VERSATILE TALK-A-PHONE INTERCOM SYSTEMS

Meet Your Every Requirement . . Offer Time-Proven Dependable Operation

[A] T-LC-2 DELUXE 2-STATION SYSTEM. Ruggedly constructed 2-station intercom system for your office, plant or warehouse. Consists of one Master, one Remote and 50 feet of interconnecting cable (up to 2000 feet more can be added). Extra Remotes (below) can be added whenever desired. Both Master and Remote can originate calls. Remote can be set to provide either private or non-private operation. When Remote is set for private operation, Master cannot listen in; when set for non-private operation, Remote can answer calls at a distance without having to operate controls. Only Master need be connected to AC power outlet.

Master has volume control and pilot light. Master's steel case is attractively finished in charcoal gray vinyl and brushed chrome. Case resists harmful effects of weather, liquids and corrosive atmospheres. Remote's steel case is finished in matching baked enamel. Sizes: Master, 3⅛x10½x8¾"; Remote, 3⅛x7½x8¾". For 110-120 v., 50-60 cycle AC or DC. U.L. Listed. Shpg. wt., 11½ lbs.

12 D 8053 X.......................................**39.00**

T-LR-3M EXTRA REMOTE. Shpg. wt., 4 lbs.

12 D 8062...Each **12.95**

[B] T-LC-33 DELUXE 2-STATION WIRELESS SYSTEM. Just plug each station into any outlet on the same power company transformer and you establish instant communications. "Uni-Trans" switch permits dictating or listening. Steel case is beautifully finished in charcoal gray and brushed chrome—resists effects of liquids and corrosive atmospheres. Each unit, 3⅛x10½x8¾". For 110-120 volts, 50-60 cycle AC or DC. U.L. Listed. Shpg. wt., 12½ lbs.

12 D 8056 X...**85.50**

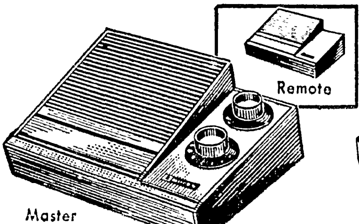
T-LC-17 EXTRA STATION. Add any number—same as above units. 6½ lbs.

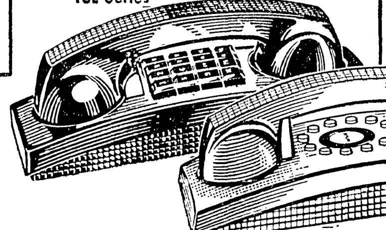
12 D 8057 X...Each **42.75**

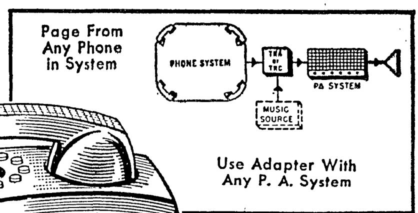
Contact Allied for Help in Planning Your Intercom System

Intercoms and Phone Systems

BOGEN







COMPACT ALL-TRANSISTOR INTERCOMS

ALL-MASTER SYSTEM. Instantly operating intercom system, using up to six TIA-6 or up to twelve TIA-12 Masters. Any Master can call any other; in a TIA-6 system, any Master can call all others simultaneously. Each Master has volume control, press-to-talk bar and selector switch with "mute" position to silence background noise from Remotes being used non-privately. 3x8½x6". Less cable below—use cable with at least one more conductor than number of stations. All Masters require 110-120 v., 60 cycle AC.

MASTER-REMOTE SYSTEM. Consists of one TIA-6 Master and up to five RIA-1 Remotes; or one TIA-12 Master and up to eleven RIA-1 Remotes. Master can call any Remote; and, in a TIA-6 system, can call all simultaneously. Remotes have press-to-talk bar, but can be used for non-private operation (controlled by jumper). Remotes can originate calls to one Master. Each unit, 4x7¾x7". Less cable, listed below—use 3-conductor cable between each station.

INTERMIX SYSTEM. Uses TIM-12 Intermix Masters and either RIM-6 or RIA-1 Remotes in any combination of up to 12 stations in all. Master has volume control, talk/listen bar and 12-position selector switch with "mute" position for silencing background noise from Remotes when used non-privately. RIM-6 Remote can initiate calls to any of 6 Masters; RIA-1 Remote can initiate calls to only one Master. Each unit 4x7¾x7". Less cable, below. Between Masters, use at least one more unshielded conductor than total number of Masters; between Master and private Remote, use 1 unshielded pair cable and 1 shielded single conductor wire; between Master and non-private Remotes, use single shielded conductor.

12 D 8019. TIA-6 6-Station Master. 7 lbs....................35.65
12 D 8020. TIA-12 12-Station Master. 7 lbs..................39.75
12 D 8021. RIA-1 Remote. Calls only 1 Master; may be called by any Master. Shpg. wt., 6 lbs..............................10.85
12 D 8022. TIM-12 12-Station Intermix Master. 7 lbs..........47.95
12 D 8023. RIM-6 Remote. Calls any of 6 Masters. 6 lbs.....23.90

CABLE FOR ABOVE INTERCOMS—100-FT. SPOOLS

55 D 9458. 3-Conductor Unshielded. 2 lbs...............Each 3.50
55 D 7529. 7-Conductor Unshielded. 4½ lbs..............Each 6.70
55 D 7488. 15-Conductor. 8 lbs.........................Each 14.65
55 D 7685. 3-Cond. (1 shielded, 1 pr. unshielded). 2 lbs....Each 4.05
55 D 9422. 1-Cond. Shielded. For intermix only. 1 lb.....Each 4.01

TSL MULTI-CHANNEL BOGEN-PHONES

In 8-station TSL-8 system, up to 4 private conversations can be held at once; in 16-station TSL-16, up to 8; any station talks with any other. Push desired number of selector buttons for conference calls. To call, lift phone, press selector button, then press ring button; buzzer sounds at called station. 3½x9½x3¼". Beige. Use cable with at least 3 cond. more than number of phones. 4½ lbs.

12 D 8260. TSL-8 Phone. 1 ring, 7 station-selector buttons. Calls up to 7 other stations individually or together...........Each 34.25
12 D 8261. TSL-16 Phone. 1 ring, 15 station-selector buttons. Calls up to 15 other stations individually or together.......Each 40.85
12 D 8263. PRS-16 Power Supply. Takes 1 per system. Use 3-cond. cable. 6x2x3¼". For 110-120 v., 50-60 cycle AC. Wt., 8 lbs. 38.25
12 D 8114. TRC Phone-Page Adapter. Allows paging through P.A. system. Volume control for separate paging and music levels—music stops during page. Use 3-cond. cable. 4x4x2". Wt., 6 lbs....31.65

TQ COMMON-TALK BOGEN-PHONES

Any station talks with any other station, but only 1 conversation (2-way) can be held at a time. Has selective ringing, conference call feature. Total of 7 stations can be used in TQ-6A system; 13 in TQ-12A. Gray. 3¼x3¼x9¼". Use cable, below, with at least 3 conductors more than number of phones in system. 3 lbs.

12 D 8264. TQ-6A Phone. For up to 7-station system..Each 25.15
12 D 8265. TQ-12A Phone. For up to 13-station system..Each 28.30
12 D 8266. PRS-1A Power Supply. Takes 1 per system. Use 3-cond. cable, below. 3½x6x2". For 110-120 v., 50-60 cycle AC. 6 lbs.23.65
12 D 8267. TRA Phone-Page Adapter. Allows paging through P.A. system. Volume control for separate paging and music levels—music stops during page. Use 3-cond. cable. 4x4x2". Wt., 6 lbs....31.65

CABLE FOR ABOVE—100 AND 500-FT. SPOOLS

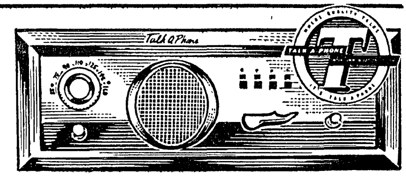
No. of Cond.	Lbs. per 100 Ft.	100-Ft. Spool		500-Ft. Spool	
		Stock No.	EACH	Stock No.	EACH
3	2	55 D 9458	3.50	55 D 9459	11.90
6	4	55 D 9860	6.84	55 D 7314 X	28.90
12	5½	55 D 7260	7.75	55 D 7995 X	38.00
15	7	55 D 8488	14.65	55 D 8489 X	64.50
25	12	55 D 8405	22.50	55 D 8406 X	101.25

Talk-A-Phone Custom Radio-Intercoms

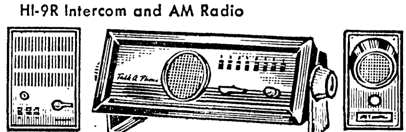
FLUSH MOUNT IN WALL—TABLE OR DESK HOUSING AVAILABLE

Fully transistorized for dependability and economical performance. Central Master and Staffs flush mount in wall, or with the HI-SM Housing Assembly (T-SM-L for HI-4), mount on wall or cabinet, or can be placed on table. Each system requires a Central Master, any number of Staffs or Subs in any combination, and either one HI-PS AC Power Supply or 4F6H 9-volt battery. Both Central Master and Staffs can call and converse with any other station or stations. Both have switches to make themselves "private" (so no one can listen-in), or "non-private" (so that other stations can listen-in, as in an executive office conference, or in the home as an electronic "baby-sitter"). Outdoor Subs are always "non-private"; can be called by, and answer any Central Master or Staff. All Central Masters and Staff Stations have their own volume control. Front panels are beautifully finished in polished gold and satin silver tones. HI-9R, HI-9 and HI-8 panels measure 15¼x5¼". Wall opening required, $4\frac{3}{8}$x$14\frac{1}{16}$x3½". HWD. With plaster rings. U.L. Listed.

12 D 8000 X. HI-9R Central Master and AM Radio. 8-station capacity. Wt., 6¼ lbs. 89.50
12 D 8078 X. HI-9 Central Master less Radio. 8-station capacity. Wt., 5¾ lbs....58.00
12 D 8080 X. HI-8 Staff Station. 8-station capacity. wt., 4¼ lbs.................31.50
12 D 8127. HI-1 Outdoor Sub. Has illuminated name-plate, push button. Mounts in 2x2x2" deep wall opening. Size, 5⅝x3⅝". Shpg. wt., 1½ lbs.................15.95
12 D 8142.O-SM Surface Mount. For HI-1 Outdoor Sub, above. Wt. 8 oz........2.95
12 D 8135. HI-4 Wall-Mount Staff. Mounts in 6½x4½x2" wall opening. Calls or talks to any 3 stations. Size, $7\frac{3}{16}$x$4\frac{13}{16}$". Shpg. wt., 3¾ lbs......................17.50
12 D 8136. T-SM-L Surface Mount. For HI-4 Staff, above. Shpg. wt., 2½ lbs......4.65
12 D 8130. HI-SM Housing Assembly. Permits HI-9, HI-9R or HI-8 units to be placed on table, mounted on wall or cabinet. 6x15½x4". Shpg. wt., 2½ lbs.............11.00
12 D 8131. HI-JB8 8-Station Junction Box. 1¾x8¾x8". Shpg. wt., 1 lb...........4.00
12 D 8132. HI-PS AC Power Supply. One required per system (or use 4F6H 9-volt battery below). Takes less power than electric clock. For operation from 110-120 v., 50-60 cycle AC. Size, 3x5x2". Shpg. wt., 5 lbs..................................15.95
18 D 5021. 4F6H 9-Volt Battery. 8½x4½x5⅞". Shpg. wt., 9 lbs................5.53



HI-9R Intercom and AM Radio



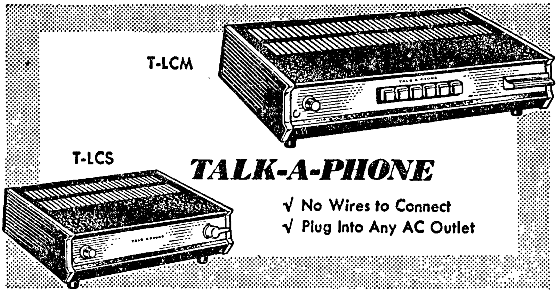
HI-4 HI-8 and HI-9 HI-1

CABLE REQUIREMENTS

8-Station Central Master and Staff Units: use 6226 cable. Measure from 1st to 2nd unit, 2nd to 3rd, etc., and total. Or use junction box and measure from each station to box. 4-Station Staffs: connect to nearest 8-station staff with 6214 cable. Sub-Stations: connect to nearest staff or master with 6202 cable. Battery or Power Supply: connect to master with 6202 cable. Lbs. per 100': 6226, 12; 6202, 4; 6214, 7.

Mfr's Type	No. Cond.	50-Ft. Coil		100-Ft. Coil	
		Stock No.	EA.	Stock No.	EA.
6226	26	55D8480	18.50	55D8481 X	37.00
6202	2	55D8483	2.00	55D8484	4.00
6214	7 pr.	55D8027	10.00	55D8075	20.00

Versatile Intercoms Raise Efficiency, Cut Costs



SELECTIVE WIRELESS INTERCOM SYSTEMS

ALL-MASTER SYSTEMS

Instantly operating wireless intercom systems, using up to six T-LCM-8906 or up to twelve T-LCM-8912 Masters. No installation or wiring problems—just plug each Master into electrical outlets on the same line transformer, and you're ready to talk. Easily moved to a new location. Each Master can originate calls to any other master on any of 6 or 12 channels. It can also receive calls on any channel. And, by individually calling other Masters to come in on the same channel, it can set up a conference. T-LCM-8906 system can hold up to 3 separate conversations simultaneously; T-LCM-8912 system, up to 6 separate conversations simultaneously. Each Master has "Uni-Trans" for long periods of continuous transmission to another unit (as in dictation), and "Sonic-Gate" circuit to screen out line noises and hum while you're talking. 3⅛x14x8¾". Distinctively styled in charcoal gray and brushed chrome. U.L. Listed For 110-120 v., 50-60 cycle AC-DC.

T-LCM-8906 6-STATION WIRELESS MASTER. Can handle up to 6 stations individually or together in conference. Wt., 13 lbs.
12 D 8043 X.......................................**85.50**

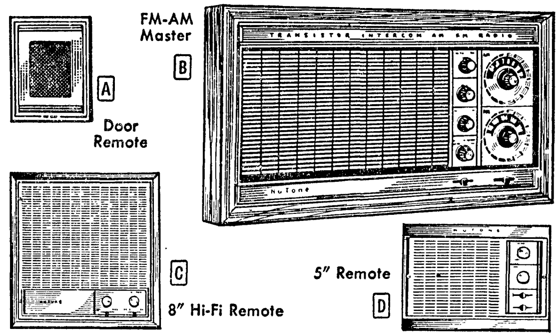
T-LCM-8912 12-STATION WIRELESS MASTER: Handles up to 12 stations individually or in conference. 8½ lbs.
12 D 8050 X.......................................**95.80**

MASTER-AUXILIARY SYSTEMS

Consist of one or more T-LCM-8906 or T-LCM-8912 Masters and any number of T-LCS auxiliary stations listed below. Master stations are described above. Auxiliaries are for use in locations where calls need not be originated, but replies must be made. Each auxiliary is on a fixed channel—from channels 1 to 6—to match that of the Master. Place one or more channel 1 auxiliaries in one area, one or more channel 2 auxiliaries in another, and so on—up to channel 6. Master can then page any area; auxiliaries can be called by, and reply to any Master in the system. No wiring, no cables—just plug each auxiliary into an electrical outlet on the same line transformer as the rest of the system. 3⅛x10½x8¾". U.L. Listed. For 110-120 v., 50-60 cycle AC-DC. Wt., 6½ lbs.

12 D 8044 X. T-LCS-901. Channel 1......................**49.00**
12 D 8045 X. T-LCS-902. Channel 2......................**49.00**
12 D 8046 X. T-LCS-903. Channel 3......................**49.00**
12 D 8047 X. T-LCS-904. Channel 4......................**49.00**
12 D 8048 X. T-LCS-905. Channel 5......................**49.00**
12 D 8049 X. T-LCS-906. Channel 6......................**49.00**

NuTone ALL-TRANSISTOR FM-AM RADIO INTERCOM SYSTEM



B MODEL 2561 MASTER STATION. Deluxe, all-transistor FM-AM radio-intercom station. Transistors reduce operation and maintenance costs. Virtually free of heat and hum.
Master offers independent room-to-room intercom and door-answering from any station, plus FM-AM radio. FM has AFC—"locks-in" signal for "drift-free" reception. Radio is automatically silenced when intercom is used. Turn off music at any Remote and unit can still send and receive calls. Remotes can be answered without walking to speaker.
Use of 8-conductor cable allows you to install up to 16 Remote stations (listed below). Low-voltage design makes simple "frame" installation possible—no protective "A" box required. Master has 11 transistors, 6 diodes and a full-wave rectifier. Big 6x9" wide-range speaker. Comes complete with FM and AM antennas and all necessary hardware. Sealed-in metallic finish—can't corrode. Silver panel, 16½x8½"; wall frame, 14⅝x7¾". U.L. Listed. For 110-120 v., 60 cycle AC. Shpg. wt., 14¼ lbs.
12 D 8180 X.......................................**123.47**
12 D 8181 X. Model 2562. As above, but copper finish.....**123.47**

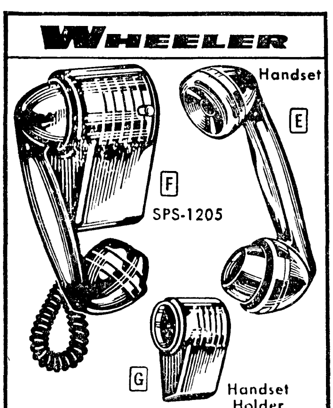
C MODEL 2572 HI-FI INDOOR REMOTE. 8" speaker. Features "Break-Away" control panel that may be removed from main unit for more convenient placement. Has volume and function controls, and talk/listen levers for inside and door Remotes. Desert sand panel, 12x12". With wall frame. Shpg. wt., 5½ lbs.
12 D 8184 X.......................................**18.01**

D MODEL 2570 INDOOR REMOTE. 5" speaker. Volume and function controls, and talk/listen levers for inside and door Remotes. Desert sand panel, 6½x9⅛". Wt., 5¼ lbs.
12 D 8182 X.......................................**11.18**

A MODEL 2571 WEATHERPROOFED DOOR REMOTE. Needs no switch, inside Remotes control calls. Mounts flush in wall. Black and gold panel, 6¼x4⅝". Wt., 1½ lbs.
12 D 8183.......................................**8.50**

8-COND. CABLE. For transistorized system. Measure from Master to Remote, then from Remote to Remote.
12 D 8083. 50' Roll. Wt., 2 lbs.............................**3.97**
12 D 8185. 250' Roll. Wt., 8 lbs............................**11.67**

SOUND-POWERED TELEPHONE-TYPE INTERCOM SYSTEMS



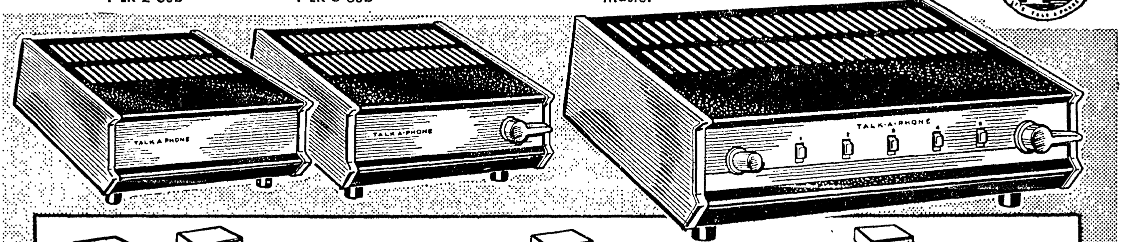
The ultimate in communications reliability—comparable in size and ruggedness to the finest commercial telephone equipment. Use these sound-powered telephone handsets for maintenance-free communications in the plant, on construction projects, on the farm, or wherever electrical power is not available. Completely self-contained, these telephones don't even require batteries—your own voice generates the current needed for transmission, and with remarkable speech fidelity. Sound-powered cartridges in telephone and ringing generators use Alnico permanent magnets to assure infinite magnet life without loss of strength. Electrical spark and fire hazards are eliminated. Sound-powered phones can remain on an indefinite "standby" basis for emergency service when other facilities are not in working order. As many as 12 telephones may be connected in parallel, providing quick communication with low installation costs. The SPT-102 handset comes with a 3-foot non-coiled, neoprene cord and insulated clips. SPT-123 and SPT-150 have a 4-foot coiled-cord. All handsets are supplied less connecting cable, listed below. The SPS-1205 wall-mounting handset holder will accommodate up to 3 telephones in a common-ringing system. All units are made of corrosion-resistant materials for trouble-free use in any outdoor climate.

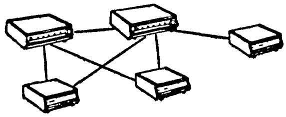
Stock No.	Type	Fig.	Description	Lbs.	EACH
12 D 8087	SPT-102	E	Handset. Up to 12 can be paralleled.	1½	12.88
12 D 8093	SPT-123	E	Hi-level handset for noisy areas (less clips).	1½	14.41
12 D 8094	SPT-150	E	Same as SPT-123 but with insulated clips.	1½	14.96
12 D 8091	SPS-305	G	Wall-mount handset holder. For installations with separate ringing systems. 2⅞x5⅝x3".	1½	13.17
12 D 8092	SPS-1205	F	Same as SPS-305 but with bell.	1½	18.21
12 D 8097	B-5446	....	Handset hook. For wall or desk-side mtg.	¼	1.49

55 D 8752. Knight Cable for Sound-Powered Phones. 2-conductor. 100-ft. spool. Measure from Phone 1 to Phone 2, 2 to 3, etc. Wt., 3 lbs.......................**4.34**

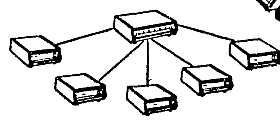
Deluxe Systems by *TALK-A-PHONE*

T-LR-2 Sub T-LR-3 Sub Master

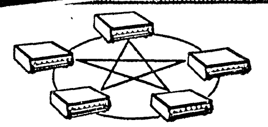




Mixture of Masters and Subs up to an overall total of 10 stations. Masters can call; Subs can only answer.



One Master can communicate with up to a total of ten Subs. Subs can call Master station, but not each other.



Most versatile Master-Station System. Each unit can originate calls and communicate with any other station.

COMBINATION SYSTEMS

MASTERS AND STANDARD SUBS. Master calls can be private or non-private. Masters can call each other or any Sub, selectively. Subs can't originate calls. Masters and T-LR-2 Sub have steel cases in leather-textured gray vinyl and chrome. T-LR-2M Sub in grained enamel. *Stainless steel front panel. Masters, 3⅛x10½x8¾″; Desk Subs, 2⅞x7½x8¾″. Wall-mtg. opening, 4⅛x4⅛x2″; front-panel, $4\frac{13}{16}$″ sq. Less cable, below. For 110-120 v., 50-60 cycle AC-DC. U.L. Listed. **Do not mix T-CL and T-AC Masters in same system.**

MASTER STATIONS

T-CL-5 MASTER. To be used with 5-station systems. Shpg. wt., 7 lbs.
12 D 8063 X........................44.95

T-CL-10 MASTER. For use with up to 10-station systems. Shpg. wt., 7 lbs.
12 D 8064 X........................54.00

T-AC-605 HIGH-POWER MASTER. For paging; noisy locations. For 5-stations. Wt., 7 lbs.
12 D 8148 X........................54.00

12 D 8149 X. T-AC-610 High-Power Master. For 10-station systems. Wt., 7 lbs ..62.50

SUB STATIONS

T-LR-2 SUB. Shpg. wt., 4½ lbs.
12 D 8051..........................16.95

T-LR-2M SUB. Shpg. wt., 4½ lbs.
12 D 8065..........................12.95

***T-LR-2R BUILT-IN WALL SUB.** 4 lbs.
12 D 8137..........................12.95

12 D 8147. TSM Mtg. Accessory. For above. $4\frac{13}{16}$x2⅛″. Shpg. wt., 1 lb...........4.00

HIGH-POWER SUBS. *See accessories, below.*

INTERCONNECTING CABLE

To determine required quantity of Type 6210, 6226, 5506 and 9911 cables, measure from first station to second only; second to third only; and so on, until you reach the last Master in the system. Do not connect last station to first. Add measurements for total. Consult table at right for proper cable type. Required quantities of Type 6902, 5303 and 6303 cables are determined by measuring from each Sub to nearest Master only. Wt., per 100′: Type 6210, 6 lbs.; 6226, 12 lbs.; 6902, 2 lbs.; 5303, 1 lb.; 6303, 2 lbs.; 5506, 4 lbs.; 9911, 5 lbs. *Unshielded; †shielded.

MASTER-SELECTIVE SYSTEMS

STANDARD-POWER MASTERS AND SUBS. For systems using one Master and up to ten Subs. Master can call and listen to one, several or all Subs simultaneously. Subs can call and converse with Master, but not other Subs. Subs can be private or non-private, and originate calls. Only Master needs power outlet. T-LR-3M Sub is finished in baked enamel; all others styled in leather-textured gray vinyl and chrome. Masters, 3⅛x10½x8¾″; Subs, 3⅛x7½x8¾″. T-LR-3R: panel, $7\frac{3}{16}$x$4\frac{13}{16}$″; opening, 6½x4⅛x2″. Less cable, below. For 110-120 v., 50-60 cycle AC-DC. U.L. Listed. **Do not mix T-LM and T-AC Masters in same system.**

MASTER STATIONS

T-LM-5 MASTER. Accommodates up to 5 Sub stations. Shpg. wt., 7 lbs.
12 D 8058 X........................37.50

T-LM-10 MASTER. Accommodates up to 10 Sub stations. Shpg. wt., 7 lbs.
12 D 8059 X........................46.25

T-AC-5406 HIGH-POWER MASTER. 10 times greater volume. For up to 5 Subs. 7 lbs.
12 D 8060 X........................46.25

T-AC-5411 HIGH-POWER MASTER. For use with 10 Sub stations. Shpg. wt., 7 lbs.
12 D 8061 X........................55.50

SUB STATIONS

T-LR-3 SUB. Shpg. wt., 4½ lbs.
12 D 8052 X........................16.95

T-LR-3M SUB. Shpg. wt., 4½ lbs.
12 D 8062..........................12.95

T-LR-3R BUILT-IN WALL SUB. Shpg. wt., 4 lbs.
12 D 8138..........................12.95

12 D 8136. T-SM-L Mtg. Accessory. For above. $7\frac{3}{16}$x$4\frac{3}{16}$x2⅛″. Wt., 2 lbs............4.65

HIGH-POWER SUBS. *See accessories, below.*

SUPER-SELECTIVE SYSTEMS

SELECTIVE MASTER STATIONS. Most versatile type of intercom systems consisting entirely of Master units. Any station can originate a call to any other station or stations and converse with them—several separate conversations can be held simultaneously without interfering with each other. Conference calls are easily arranged.

Each unit has a translucent indicator that lights up when the unit is in operation. Additional features: slide-switch for each station in the system; spring-return, press-to-talk lever and volume control. All stations may be more than 1000 feet apart and still maintain excellent communications.

Impressively finished in bonded leather-textured gray vinyl, trimmed in brushed chrome. Supplied less cables, below. *Operates for a few pennies a day.* 3⅛x10x8¾″. For 110-120 v., 50-60 cycle AC or DC. U.L. Listed. **Do not mix T-LS and T-AC Masters in same system.**

MASTER STATIONS

T-LS-5 MASTER. For use in systems with up to 5 Master stations. Wt., 7 lbs.
12 D 8054 X........................37.50

T-LS-10 MASTER. For use in systems with up to 10 Master stations. Shpg. wt., 7 lbs.
12 D 8055 X........................46.25

T-AC-505 HIGH-POWER MASTER. For high-noise areas. Provides 10 times the output of T-LS-5 Master above. Accommodates up to 5 Master stations. Shpg. wt., 7 lbs.
12 D 8145 X........................46.25

T-AC-510 HIGH-POWER MASTER. For 10-station systems in high-noise areas. Delivers 10 times the volume output of T-LS-10 Master above. Shpg. wt., 7 lbs.
12 D 8146 X........................55.50

INTERCONNECTING INTERCOM CABLE

Type No.	Cond.	For Connecting	Stock No.	50′ Spools	Stock No.	100′ Spools	Stock No.	200′ Spools
6210	10	T-CL-5, T-AC-605	55 D 8568	8.00	55 D 8569	16.00	55 D 8575	32.00
6226	26	T-CL-10, T-AC-610	55 D 8480	18.50	55 D 8481 X	37.00	55 D 8482X	74.00
6902	2	Sub to Nearest Master Only	55 D 8346	1.25	55 D 8358	2.50	55 D 8375	5.00
5303	3*	T-LM-5, T-LM-10, T-AC-5406, T-AC-5411	55 D 8061	1.75	55 D 8059	3.50	55 D 8060	7.00
6303	3†	T-LM-5, T-LM-10, T-AC-5406, T-AC-5411	55 D 8062	2.38	55 D 8065	4.75	55 D 8066	9.50
5506	6	T-LS-5, T-AC-505	55 D 8063	4.75	55 D 8067	9.50	55 D 8068	19.00
9911	11	T-LS-10, T-AC-510	55 D 8064	8.50	55 D 8073	17.00	55 D 8074	34.00

TALK-A-PHONE INTERCOM SYSTEM ACCESSORIES

HIGH-POWER SUB STATIONS. Subs can answer Master, as well as originate calls in Master selective systems when used with T-S-100 switch, at right.
12 D 8067 X. T-C-20 Trumpet-Type. 9″ re-entrant horn Shpg. wt., 4½ lbs.....27.00
12 D 8066 X. T-HP-3 Indoor-Type. 8″ speaker. Shpg. wt., 9½ lbs..................17.50

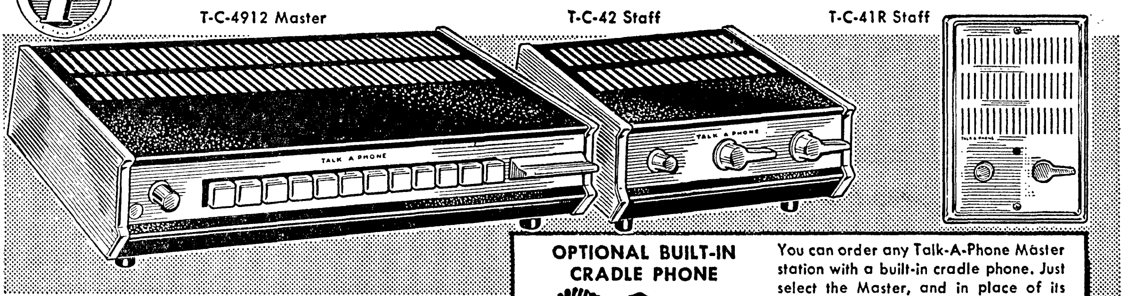
TYPE T-S-100 ORIGINATION SWITCH. Wall-switch, allows High-Power Subs to originate calls. 1¾x5¾x2½″. Wt., 1 lb.
12 D 8120..........................3.75

TW-I WALL-MOUNTING BRACKETS. Use with Subs above, except built-ins. Wt., ½ lb
12 D 8125... ....Per Pair .60

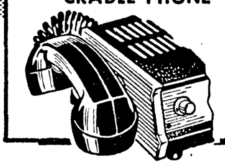
OPTIONAL BUILT-IN CRADLE PHONE. To order any Master station (except T-CL-5, T-CL-10, T-AC-605, T-AC-610) with cradle phone, insert "Special" in place of regular stock number, and add "H" to Mfr's Type No. Example: Special. T-LM-5H Master with Cradle Phone. Add $35.00 to price of the Master for Model with Cradle Phone.

TALK-A-PHONE Latest-Model Intercoms

"Has Everything . . . Does Everything"



OPTIONAL BUILT-IN CRADLE PHONE



You can order any Talk-A-Phone Master station with a built-in cradle phone. Just select the Master, and in place of its regular stock number, insert the word, "Special" and add "H" to the Mfr.'s Type No. Example: Special. Talk-A-Phone Model T-C-4906H Master with Cradle Phone. Add $35.00 to price of Master for Model with Cradle Phone.

- ✓ Easy-to-Use Intercoms with "Built-In Brain" Register Busy Signals, Priority Break-Ins
- ✓ Dozens of Practical, Cost-Saving Applications
- ✓ Private or Non-Private, Noise-Free Operation

"CHIEF" ALL-TRANSISTOR MASTER STATIONS

Deluxe, all-transistor universal Master stations that can be used in all-Master or Master(s)-Staff(s) systems with capacities of 6, 12, 20 or 30 stations. Effects savings of thousands of man-hours in offices, plants, factories, etc. Masters can operate privately or non-privately and engage in conference calls. In private operation, talk-listen switch is necessary to reply; in non-private, a control is not necessary.

Built-in signal indicates whether line is busy—priority calls can over-ride a busy line. Incoming call is indicated by a light and chime. Master unit includes pushbutton selector, push-to-talk bar, dictation control and volume control. Master stations may be placed up to one thousand feet apart.

Relays to operate horns, sirens or lights can be put into a system—any Master can operate relays. In high-noise areas if horn or siren is operated instead of chime, Master is still fully operational—relay does not take place of Master. Each Master has a junction box with a power supply, and 6-ft. of cable. Steel cases are styled in leather-textured, gray vinyl and brushed chrome. Size, 3⅛x14x8¾". U.L. Listed. For 110-120 volts, 50-60 cycle AC.

Stock No.	Mfr's Type	Capacity	Wt. Lbs.	EACH
12 D 8068 X	T-C-4906	6 stations	15	85.50
12 D 8069 X	T-C-4912	12 stations	15	95.80
12 D 8070 X	T-C-4920	20 stations	16	113.40
12 D 8071 X	T-C-4930	30 stations	18	131.00

"CHIEF" ALL-TRANSISTOR EXTRA-POWER MASTER STATIONS

"Chief Redi-Power" Master Stations have features of "Chief" Masters above, plus up to 20 watts of extra power. Provide reserve power for conference calls to many stations at once, or for calling individual stations in noisy area. Receive return speech at normal volume. Built-in 20-watt amplifier. Network automatically adjusts output to pre-selected volume level of each station—no division of output when you call several stations at once. Same size, style, finish and AC rating as Masters above. U.L. Listed.

Stock No.	Mfr's Type	Capacity	Wt., Lbs.	EACH
12 D 8072 U	T-CRP-5912	12 stations	20	145.00
12 D 8073 U	T-CRP-5920	20 stations	21	162.00

CONNECTING MASTER TO MASTER. Measure from first to second Master only; from second to third Master only; and so on, until you have reached the last Master in the system. Then add all measurements together. For 6-station Masters, use Type 6214 cable; 12-station Masters, Type 6226 cable. For 20-station Masters, double total measured length (two equal lengths of cable run parallel to each other between Masters) and order Type 6226 cable. For 30-station Masters, triple total and use Type 6226 cable.

CONNECTING STAFF TO MASTER. Measure distance from each staff to Master, and total all measurements. Use single length Type 6206 cable to connect "Chief" Staffs to Masters.

CONNECTING HIGH-POWER STAFFS. Same as Staffs above, using 6206 cable, if origination switch is used. If not used, connect each Staff to nearest Master with single 6902 cable.

INTERCOM CABLE. Indoor or outdoor use. 6214 has 7 pairs of conductors; 6226, 13 pairs; 6206, 3 pairs; 6902, 1 pair .Wt., per 100': 6124, 5 lbs.; 6226, 9 lbs.; 6206, 2½ lbs.; 6902, 2 lbs.

Type	Stock No.	50' Spool	Stock No.	100' Spool	Stock No.	200' Spool
6214	55 D 8027	10.00	55 D 8075	20.00	....	......
6226	55 D 8480	18.50	55 D 8481 X	37.00	55 D 8482 X	74.00
6206	55 D 8580	4.75	55 D 8587	9.50	55 D 8594	19.00
6902	55 D 8346	1.25	55 D 8358	2.50	55 D 8375	5.00

"CHIEF" STAFF STATIONS

For use in mixed systems with Masters. Originates calls to Master with which it is directly connected, answers calls from any Master in system. Cannot talk with another staff. Talk/Listen switch must be used in private operation; non-private operation allows "hands-free" (no switch) conversation Has monitoring and busy signals, with signal light when other stations call. "M" in Mfr's Type means grained, baked-enamel-gray finish; others, charcoal gray. Requires no AC power. Metal case, 3⅛x7½x8¾". U.L. Listed.

Stock No.	Mfr's Type	No. of Masters Staff Can Call	Wt. Lbs.	EACH
12 D 8074 X	T-C-41	one	5	22.50
12 D 8075 X	T-C-41M	one	5	18.40
12 D 8076 X	T-C-42	two	5	28.00
12 D 8077 X	T-C-42M	two	5	24.00

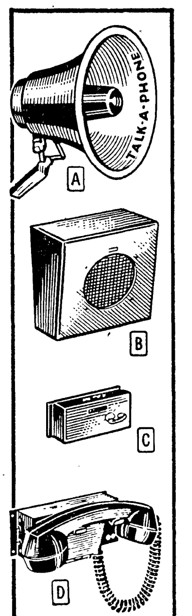
12 D 8144 X. Type T-C-41R Flush Wall-Mount Staff. Same as T-C-41 in operation. 4¹³⁄₁₆x7³⁄₁₆". Shpg. wt., 4 lbs. 18.40

12 D 8139 X. Type T-C-42R Flush Wall-Mount Staff. Same as T-C-42 in operation. 4¹³⁄₁₆x7³⁄₁₆". Shpg. wt., 5 lbs. 24.00

12 D 8136. Type T-SM-L Surface Mounting Accessory. 2 lbs. 4.65

12 D 8125. Type TW-1 Wall-Mounting Brackets. For Staffs (except TC-41R and TC-42R). 2 needed for each station. 8 oz.. Per Pair .60

HIGH-POWER STAFF STATIONS AND ACCESSORIES



HIGH-POWER STAFF STATIONS. Provide higher volume output than standard units. Specifically designed for use in noisy surroundings and outdoor areas. Staff can answer Master and, with use of origination switches listed below, can originate calls. For use with any "Chief" system.

[A] T-C-20 TRUMPET-TYPE SPEAKER. 9" weatherproof speaker featuring talk-back design. Power capacity, 15 watts. Charcoal gray. Shpg. wt., 5 lbs.
12 D 8067 X. 27.00

T-C-20 V TRUMPET-TYPE SPEAKER. As above, with volume control adj. to full output.
12 D 8140 X. 36.00

[B] T-HP-3 INDOOR-TYPE. 8" speaker in a charcoal-gray metal baffle. Capacity, 5 watts. Baffle, 12x12x8". 9½ lbs.
12 D 8066 X. 17.50

T-HP-3V INDOOR-TYPE. As above, but with volume control adj. to full output.
12 D 8141 X. 22.50

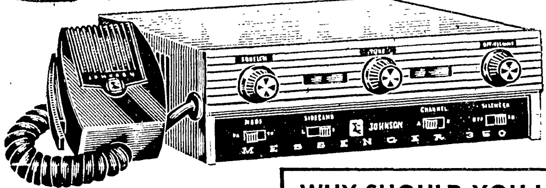
[C] ORIGINATION SWITCHES. Make T-C-20 or T-HP-3 operationally equivalent to T-C-41 or T-C-42. With incoming call and busy lights. Wt., 2 lbs.
12 D 8121. T-S-101. Calls 1 Master. . . 7.50
12 D 8124. T-S-102. Calls 2 Masters. 12.35

[D] T-S-111 WALL-MOUNTED CRADLE PHONE For listening privacy and/or use in noisy areas. Use as many as needed, in combination with remote speaker in systems where Sub Stations reply to calls. Phone lifted from cradle automatically disconnects remotes in/out calls. When cradled remote operates normally. Also usable with origination switches. 4 lbs.
12 D 8030 X. 44.00

Contact Allied for Assistance in Planning Your Intercom System

2-Way Radio Equipment for Industry

E. F. JOHNSON



MESSENGER "350" SINGLE SIDEBAND 2-WAY RADIO

- Up to 30% More Range
- 0.2-Microvolt Sensitivity

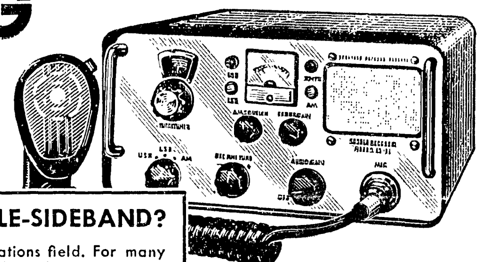
Now you can revolutionize your Citizens Band communications system with a totally new, totally different concept in CB 2-way radio, Single Sideband. Less noise and 30% more range under ideal conditions are just a few of the added features of this unit. Others include; full solid-state circuit; modern compact styling with optional portable pack for on-the-go communications; upper and lower sideband; 0.2 μv sensitivity for 10 db S/N ratio; highly sensitive superheterodyne single conversion receiver. Size, $2\frac{1}{2}$x8x$9\frac{1}{2}$". With mobile mounting bracket, P.T.T. mike, channel 4 and 10 crystals. Not compatible with AM units. For 12 VDC.

17 D 6470 U. Shpg. wt., 6 lbs.......................299.50
17 D 6471 X. AC Supply. 117 v., 50-60 cycle. 5 lbs.........29.95
17 D 6472 X. Portable Pack. 12 v. Nickel-Cad. 5 lbs........69.95

WHY SHOULD YOU USE SINGLE-SIDEBAND?

Single Sideband is not new to the communications field. For many years military and Amateur Radio Operators have been using it as a reliable means of communications to counteract excessive noise and interference. Now you can use SSB in your system!

GENERAL RADIO TELEPHONE CO.



SB-72 SINGLE SIDEBAND, DSB (AM) 2-WAY RADIO WITH AC–DC POWER SUPPLY

Outstanding 2-way radio featuring upper and lower Single Sideband for 72 channel modes, plus Double Sideband (AM) for 23-channel operation; "Turre-Tuner" channel selector gives you a choice of 23 CB channels plus CAP frequency 26.620 mc.; mode selector lets you choose either SSB or DSB (AM) operation; squelch control mutes the audio from the speaker when no signal is received on AM mode; SSB RF gain control prevents overloading to the receiver. Size, $10\frac{1}{8}$x12x$5\frac{3}{8}$". With mike and 8 crystals. Less DC power cord, below. For 12 VDC or 117 VAC.

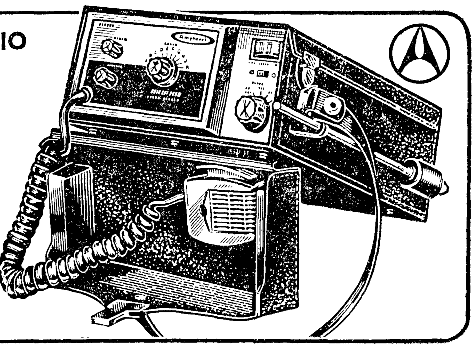
17 D 6960 U. Shpg. wt., 27 lbs.......................399.50
17 D 6961. Mobile Mounting Bracket. Wt., 3 lbs.............9.95
17 D 6962. 12 Volt Power Cord. Wt., 0 lbs..................2.95
17 D 9317CF. Extra Crystals. For above. *Specify Freq.*........2.95

AMPHENOL MODEL 600 SOLID-STATE 2-WAY RADIO

- For Reliable 2-Way Radio Under Extreme Environmental Conditions
- VFO Tuner Tunes You In on Any of the 23 CB Channels

An exciting new dual-power CB transceiver with 5-watts input and 3.5 watts output; fully solid-state design with 10 crystal controlled channels instantly selected without mechanical relays; 23-channel crystal-correlated tuner; precision "S" and RF output meter; built-in P.A. system. Size, $6\frac{3}{4}$x$3\frac{3}{4}$x$9\frac{1}{2}$". With mike, one pair of channel 11 crystals, mounting bracket, power cords. For 110-120 VAC and 12 VDC operation. Shpg. wt., 6 lbs.

17 D 6780 U.......................................169.95
17 D 6781 X. Portable Pack. Operates from 120 VAC or 12 VDC power supply, or from its own internal 12 v. nickel cadmium rechargeable battery. Has leatherette case, carrying strap. 14 lbs............99.95
17 D 6782. Rechargeable Battery for above. 4 lbs..............49.95
17 D 6783. 4' Antenna for above pack. Fiberglass. 2 lbs.........9.95



JAMES KNIGHTS CB CRYSTALS FOR CHANNELS 1-23 (Tolerance ±.003%)

*Indicates no receive crystal required. Specify Channel and Stock No.................Each 2.50   3-Up....Each 1.94

Make and Model	Transmit	Receive
Amphenol 510B	17D6600CS	17D6601CS
Cadre 500	17D9394CS	17D9370CS
Cadre 510, 510A	17D6600CS	17D6601CS
Citifone 5, 5A, 6, 7, 99	17D9371CS	17D9372CS
Courier AGS200	17D9366CS	17D9358CS
Courier I (ECI)	17D9373CS	*
Courier Fleet	17D9354CS	17D9363CS
Courier TR-6	17D6600CS	17D9401CS
Courier 12	17D9366CS	17D9363CS
Demco Satellite	17D6604CS	*
Eico 762 Series	17D9371CS	*
Eico 770 Series	17D9366CS	17D9356CS
Fanon FCB9E	17D9369CS	17D9401CS
Gen. Radiotele MC-1,2,3. Echo 9	17D9366CS	17D9363CS
Gen. Radiotele. MC-4, 5.	17D9354CS	17D9363CS
Hallicrafters CB-2, 3, 3A, 5, 10, 17, 20	17D9352CS	17D9359CS
Hallicrafters CB-12	17D6600CS	17D9407CS
Johnson Pers. Mess.	17D9353CS	17D9375CS
Johnson Messenger III	17D9394CS	17D9963CS
Johnson Messenger 100	17D9394CS	17D9401CS
Juliette WT900	17D9369CS	17D9401CS

Make and Model	Transmit	Receive
Johnson Viking Mess I, II	17D9352CS	17D9362CS
Knight-Kit C-22	17D6602CS	17D9358CS
Knight-Kit KG-4000	17D9353CS	17D9365CS
Knight KN-2500, 2550 KN-2580, KN-2585	17D9366CS	17D9358CS
Knight KN-2590	17D9354CS	17D9360CS
KN-2520, 2522	17D9394CS	17D9409CS
Lafayette HB111	17D9354CS	17D9358CS
Lafayette HE15	17D9366CS	*
Lafayette HE20, HE-20A HE20B HE-20C	17D9366CS	17D9358CS
Lincoln L2700A, 2000A	17D9366CS	*
Lincoln L-2700, Walkie-Talkie (early issue)	17D9353CS	17D9375CS
Lincoln L-2710, Walkie-Talkie (late issue)	17D9369CS	17D9375CS
Lloyd's WT901	17D9369CS	17D9401CS
Lloyd's WT503	17D9353CS	17D9375CS
Midland 13-160	17D9366CS	17D9358CS
Midland 13-108, 13-110, 13-111, 13-115, 13-114 13-112, 13-120, 13-106, 13-133	17D9369CS	17D9401CS

Make and Model	Transmit	Receive
Midland 13-103, 13-105	17D9353CS	17D9375CS
Pace II	17D6600CS	17D9406CS
Pacer II	17D9408CS	17D9409CS
Poly Comm PC-11, 11G, N Poly Compact	17D9355CS	17D9364CS
Raytheon TWR-1	17D9368CS	17D9363CS
Raythecn TWR-5,6,7,9,11	17D6600CS	17D6603CS
RCA (Exc. Mark VIII)	17D9366CS	17D9358CS
RCA Mark VIII	17D6602CS	17D9359CS
Realtone TR6986	17D9369CS	17D9401CS
Regency CBM27	17D9366CS	*
Sonar Model D	17D9366CS	16D9363CS
Sonar "E" Serial No. 915 and Lower	17D9377CS	17D9363CS
Sonar "E" Serial No. 916 and Higher	17D9377CS	17D9378CS
Sonar Models C, G	17D6604CS	17D9378CS
USL R800, TR910	17D9366CS	*
USL TR1000, 1050	17D9366CS	17D9358CS
USL Contact 8	17D9354CS	17D9358CS
Utica T&C MC27	17D9366CS	17D9357CS
Webster 4-11 (early)	17D9368CS	17D9363CS
Webster 440 Spanner	17D9366CS	17D9358CS

JK INDUSTRIAL CRYSTALS. H-17, $\frac{49}{64}$x$\frac{23}{32}$x$\frac{5}{16}$"; H-17T, $1\frac{33}{64}$x$\frac{3}{32}$x$\frac{5}{16}$". Pin spacing, .486". Pin dia., .050". Special Order. Allow 30 days for delivery. Specify Type and freq. 3 oz.

Stock No.	Type	Frequency	Tolerance	EACH
17D9388CF	H-17T (HC-13/U)	16 kc-200 kc	±0.01%	14.95
17D9389CF	H-17 (HC-6/U)	200 kc-750 kc	±0.005%	13.90
17D6363CF	H-17 (HC-6/U)	750 kc-50 mc	±0.005%	33.96
17D9390CF	H-17 (HC-6/U)	50 mc-100 mc	±0.005%	13.18

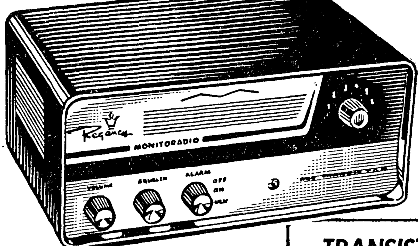
JK SPECIAL APPLICATION CRYSTALS. Size, $\frac{1}{4}$x$2\frac{1}{32}$x$\frac{5}{16}$". Pin spacing, .486". Pin dia., .093". *3rd overtone. 3 oz.

Stock No.	Type	Frequency	Tolerance	Application	EACH
17 D 9386	H-17L	4.5 mc	±.005%	TV alignment	4.80
17 D 9387	H-17L*	27.255 mc	±.005%	Radio control	2.50

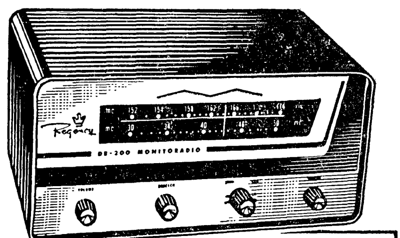
BLILEY MC-9. ALIGNMENT CRYSTALS. $1\frac{11}{64}$x$1\frac{3}{16}$x$\frac{7}{16}$". Tol.; ±.02%. Pin spacing, .486". Pin dia., .093". 3 oz.
17 D 9391. 5.0 mc.......3.95   **17 D 9392.** 10.7 mc.......3.95

FM Monitors and Receivers for Industry

Regency



Hear police, fire industrial, power utility, weathercast, trains, and others on one radio!

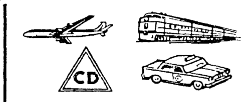


TRANSISTORIZED

Solid-state circuitry for compact design, stability and dependable service!

Model TML-2 **$119⁹⁵**

Model DR-200 **$179⁹⁵**



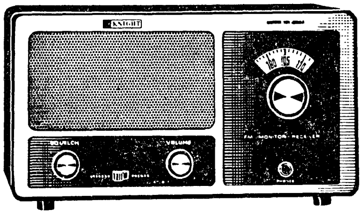
ALL-TRANSISTOR VHF-FM MONITOR RECEIVERS

MODEL TML-2—30-50 mc. For emergency services. Dual-conversion superhet, up to 2-channel crystal switching. 3-way power: 117 VAC, 12 VDC or optional battery, below. 4¾x11x7½".
17 D 6577 CF. With 1 crystal, *specify freq.* 6½ lbs....... **119.95**
TML-1. Above, but one channel crystal control. 6½ lbs.
17 D 6770 CF. *Specify frequency*........................ **104.95**
TMH-2.—150-175 mc. Similar to TML-2. Shpg. wt., 6½ lbs.
17 D 6578 CF. *Specify frequency*........................ **119.95**
TMH-1. Above, but one channel crystal control. 6½ lbs.
17 D 6771 DF *Specify frequency*........................ **104.95**
17 D 9320 CF. Extra Crystals. *Specify frequency.* 3 oz...... Each **6.95**
17 D 6579 CF. Tone Alarm System. For all receivers above. *Specify transmitting alarm audio frequency.* Wt., 3½ lbs............... **30.00**
17 D 6580 F. 12-VDC Emergency Battery/Charger. 1 lb...... **22.95**
Shipped express from Indianapolis, Ind. No C.O.D. Allow 30 days.

MODEL DR-200 DUAL-BAND VHF-FM RECEIVER

Receiver covers both FM bands (30-50 and 152-174 mc) for the complete coverage of emergency, public service and industrial communications. Also receives AM. Certified for Civil Defense use. Features adjustable squelch control and dual-conversion superheterodyne circuit with provisions for one crystal-controlled frequency on each band (less crystals, on Special Order, below). 1-microvolt sensitivity from 30-50 mc. and 2-microvolt from 152-174 mc. Selectivity at ±20 kc, 3 db. 14 tubes plus rectifier. 14¼x6¼x9½". Built-in power supply for 105-125 v., 50-60 cycle AC. Order optional speaker below. Shpg. wt., 17 lbs. *Crystals for fixed-frequency reception are available on Special Order at $6.95 each. Specify frequency and allow 30 days for delivery.*
17 D 9666 U.................................... **179.95**

17 D 9672 U. Model DRS-1 6" Speaker. For DR-200 receiver. Size, 8x6½x7⅝". Shpg. wt., 3¼ lbs........................ **14.95**

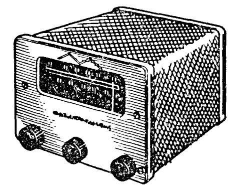


KNIGHT®

LOW-COST VHF-FM RECEIVERS MONITOR MANY SERVICES

- Transistorized Squelch Circuit
- Transformer for High Efficiency
- 5 Tubes, 1 Transistor, 1 Diode
- Front-Panel Headphone Jack
- 2 High-Gain IF Stages

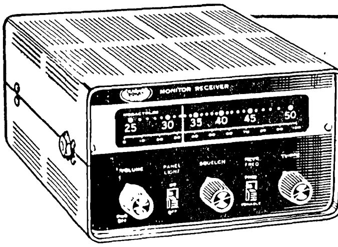
MODEL KN-2504 (for 152 to 174 mc.) Features: transistorized, all-electronic squelch with front-panel control that silences receiver between calls; two IF amplification stages; velvet-smooth vernier tuning; built-in 3x5" PM speaker with 1-watt output circuit. Front-panel switch selects built-in speaker or headphones (can also be used with 4- or 8-ohm remote speaker). Also has ratio detector to minimize interference. Pilot light; volume control. Power transformer for operating efficiency and line isolation. Blue metal case. 5⅞x11¼x5⅞". For operation from 110-130 v., 60 cycle AC. Shpg. wt., 10 lbs.
17 D 6201 X.. **59.95**
17 D 6200 X. Model KN-2503 VHF-FM Receiver (for 30 to 50 mc). Same as KN-2504 above, but for lower band coverage. Shpg. wt., 10 lbs..................... **59.95**



M-40 VHF-FM MOBILE RECEIVER

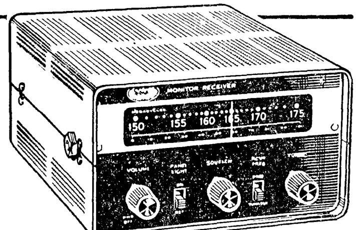
M-40—30-50 mc. Can be used in any 12-volt vehicle. Features tuned RF stage for excellent image-rejection. Three-gang tuning condenser. Reliable electronic squelch circuit provides silent standby. Sensitivity: 2 μv for 20 db quieting. Selectivity: 40kc at 20 db down. Has illuminated slide-rule dial for night operation. Volume control/on-off switch. Built-in 4" speaker. Universal mounting. Ventilated metal cabinet, 4½x6½x8½". For 12 VDC. Wt., 13 lbs.
17 D 9669.................... **129.95**
17 D 9670. Model M-160. 152-174 Mc. Has 4 μv sensitivity. 13 lbs............ **129.95**

Sonar



FM MONITOR RECEIVERS FOR TUNE/FIXED FREQUENCY MONITORING

- RF Amplifier for Maximum Sensitivity
- Also Covers 27mc CB Band
- High-Frequency Oscillator Temperature Compensated for Excellent Stability



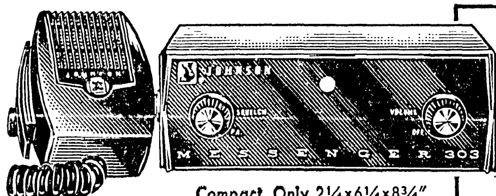
MODEL FR-101. Sensitive FM monitor receiver covers 25-50 mc. Perfect for coverage of police, fire, forestry, tow trucks, weather, ship-to-shore, civil defense, public service, CB, service monitor and many other similar type communications. Features include: tuned RF amplifier for maximum sensitivity; all aluminum construction; high frequency oscillator, temperature compensated for excellent stability; illuminated dial with light switch; 16:1 ratio for precise tuning; wired for "tone alert"; electronic squelch control; provision for external speaker; 500-ohm telephone line output. Size, 4½x8x10". With instructions. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.
17 D 9702 X.................................... **89.95**
17 D 9701 X. Model FR-102. As above, for 150-175 mc..... **89.95**

MODEL FR-101DX. Covers 25-50 mc. A versatile monitor receiver that will operate either base or mobile with its dual power supply. Tunable or fixed crystal-controlled (order crystal below). Features include: temperature-compensated oscillator; illuminated dial with light switch; wired for "tone alert"; electronic squelch control; provision for external speaker; 500-ohm telephone line output; 2.5 microvolt sensitivity for 20 db S/N ratio; audio output, 1.5 watts at 10% distortion; current drain for mobile use only 4.5 amps at 12.6 VDC. Size, 4½x8x10". For 110-120 v., 60 cycle AC, or 12 v. DC. Shpg. wt., 11 lbs.
17 D 9703 X.................................. **134.95**
17 D 9704 X. FR-102DX. For 150-174 Mc.............. **134.95**
17 D 9705 CF. Crystal. For above. Specify freq. 4 oz.......... **7.50**

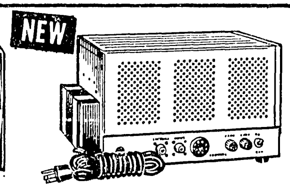
Allied Supplies Everything You Need in Business Communications

E. F. Johnson 2-Way AM Radios for Industry

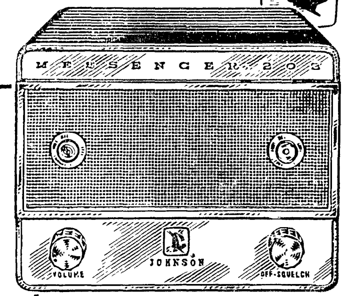
Any businessman can take advantage of these 2-way AM radios to slash operating cost, speed service, and increase profits by saving valuable time! If you do not have a 25-50 mc license, write Johnson's "Man in Washington" to assist in expediting your FCC license. No test required.



Compact, Only 2¼x6¼x8¾"



Mounts Easily in Trunk



ALL-TRANSISTOR 5-WATT MODEL 303

Miniature unit weighs less than 5 pounds, yet packs many outstanding features. Solid state for low current drain. Dual-conversion circuit, ANL, AGC, noise-immune squelch. Sensitivity: 0.5 µv for 10 db S/N. Selectivity: 7 kc at 6 db. Spurious image rejection: over 70 db. RF power input: 5 watts. Output: 3 watts. Squelch range: 0.3 to 30 µv. High-level AM, class B modulator, speech compression, clipping, audio filtering. Jacks for P.A. speaker, and external speaker. Accessory receptacle. With mobile mounting bracket, mike, 12-v. power cable. For 12 v. DC. Shpg. wt., 3 lbs. Specify Your Assigned Frequency.

17 D 6736 CZF..............**249.50**

17 D 6739 F. AC Supply. 4 lbs......**29.95**

MESSENGER P/A-85 AMPLIFIER

Gives a 5-watt or 10-watt messenger transceiver 85 watts of RF power to cover typical county-wide or municipal areas! Mounts easily in trunk of vehicle. Covers 25-50 mc. with same number of channels as your transceiver. 85 watts DC power input with 55 watts RF power output; high level AM plate modulation with speech compression, clipping and audio filtering for a clean, penetrating signal that is highly readable and free from unwanted noise and distortion. Size, 9⅛x11½x7". For 12 v. DC use only. Shipped from Waseca, Minnesota. Shpg. wt., 26 lbs.

17 D 6740 ZF..................**199.50**

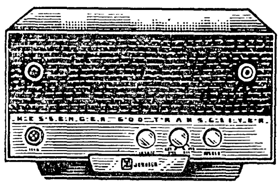
17 D 6741 ZF. AC Model. For 117 VAC 60 cycle. 9⅛x7½x5½". 31 lbs........**239.50**

10-WATT AC-DC MODEL 202

Low-cost, high-performing unit with sensitive and selective superhet circuit, ANL and AGC. Sensitivity: 0.4 µv for 10 db S/N. Selectivity: 6.5 kc at 6 db. Spurious image rejection: 30 db. Audio output: over 2 watts with .5 µv input. RF power input: 10 watts. RF output: 6 watts. Squelch range: .03 to 500 µv. Squelch sensitivity: 6 db or less signal change for 40 db quieting. AM plate modulation, with speech clipping and audio filtering. Only 2 operating controls. 2 accessory receptacles. Only 5⅝x7x11⅜". With mike, AC and DC power cables. For 117 v., 50-60 cycle AC or 12 v. DC. 17 lbs. Specify Assigned Frequency.

17 D 6402 CXF...............**197.50**

17 D 9416. Mobile Bracket. 1¼ lbs...**2.50**



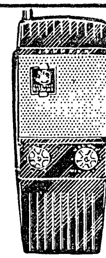
MESSENGER 600 TRANSCEIVER

Packs super punch and penetrating power. Transistorized power supply and audio stage for low current-drain. Dual-conversion receiver sensitivity: 0.5 µv. selectivity: 6 kc at 6 db. 85 watts input power with 50-watts RF output; high level AM modulation with speech clipping and audio filtering. 5³⁄₁₆x11x10". With external speaker jack, front base plate, mike and cable. For 12-v. DC operation. Specify assigned frequency. Shpg. wt., 31 lbs.

17 D 6735 CZF...............**449.50**

17 D 6738 CZF. 600, AC Supply, Mike. Supply, 8x11x8¾". 75 lbs.........**573.95**

MODEL 106 WALKIE-TALKIE

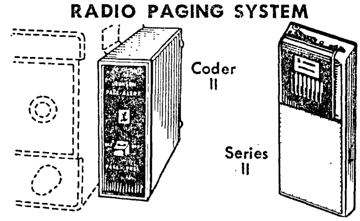


Delivers exacting performance, gives any man or crew instant on-the-go communications. Features: squelch control silences receiver on standby, prolongs battery life; AGC and ANL; earphone/speaker jack for privacy or use in noisy areas. Approved "hazard proof" by U.S. Bureau of Mines. Sensitivity: 0.5 µv. for 10 db S/N. Selectivity: 6.5 kc at 7 db. Audio output: over 0.5 watts. RF input: 1½ watts. Fiberglass antenna. With standard battery pack. Rugged high-impact plastic case. Size, 8x3½x2". 3 lbs. Specify Assigned Frequency.

17 D 6737 CF.............**144.50**

17 D 6734 F. Rechargeable Nickel-Cadmium Battery Pack. 1 lb. **19.95**

E. F. JOHNSON "SERIES II" RADIO PAGING SYSTEM

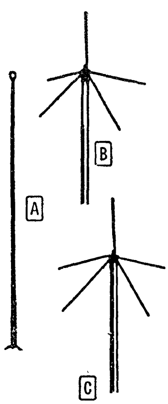


"CODER II". Attaches to transceiver. Operator signals key personnel through their pocket receivers with a tone, and may then broadcast a voice message to them using the base station transceiver. Power from transceiver. 1½x4x8³⁄₁₆".

17 D 6742 ZF. Shpg. wt., 2½ lbs...**53.00**

"SERIES II" RECEIVER. "Tone" from "Page Alert" tells when to press "Voice Message" for instructions. 5¾x2½x1⅜". With 3 rechargeable batteries. Specify frequency, 25-43 mc. Wt., 11 oz.

17 D 6743 CZF..................**89.75**



HY-GAIN MONITOR ANTENNAS

[A] **MODEL AA-1 FOR 108-136 MC.** Vertical antenna for VHF-AM aircraft receivers. Pulls in more, stronger signals. Has mounting clamp for up to 1¼" dia. mast. Shpg. wt., 2 lbs.

17 D 6562 X....................**5.95**

[B] **MODEL GP-150 FOR 144-174 MC.** ¼-wave ground plane antenna for 152-174 mc. VHF-FM receivers on facing page. Height, 14". With mounting clamp for up to 1⅝"" dia. mast. Shpg. wt., 2 lbs.

17 D 6210 U....................**5.40**

[C] **MODEL GP-50 FOR 30-50 MC.** Boosts utility of 30-50 mc VHF-FM receivers on facing page. Pulls in more signals increases range of receiver. ¼-wave ground plane. Height 13". With mounting clamp for up to 1⅝" dia. Mast. 2 lbs.

17 D 6211 X...................**12.95**

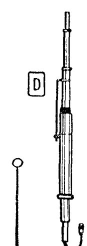
A/S 2-WAY RADIO ANTENNAS

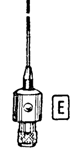
[D] **PL-ASP-350 30-50 MC BASE STATION ANTENNA.** Heavy-duty antenna with heat-treated aluminum tubing; 16 feet high. Coax unit has adjustable frequency range for maximum performance. Matching network, grounded radiating element; direct lighting path to ground. VSWR; better than 1.5:1. Maximum power: 500 watts. With PL-259 connector. Less 1" support pipe. Specify Assigned Frequency.

17 D 6404 ZF. Shpg. wt. 16 lbs........**39.44**

[E] **ASP-239 25-54 MC PORTABLE ANTENNA.** Base-loaded omnidirectional antenna for improved overall performance. Designed for your particular assigned frequency by cutting to the exact frequency for a low SWR. Extremely efficient for short range communications. Incorporates base coil, with PL-259 connector and 43" stainless steel whip. Specify Frequency.

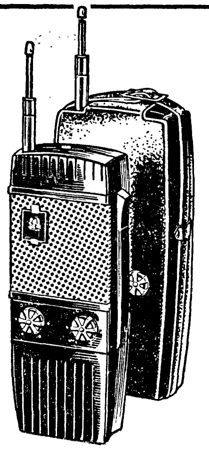
17 D 6403 F. Shpg. wt., 14 oz..........**18.77**





Hand-Held CB Walkie-Talkies for Industry

FINEST WALKIE-TALKIES AVAILABLE ANYWHERE



E. F. Johnson
Waseca, Minn.
"PERSONAL MESSENGER"

- All-Transistor Circuitry
- Fiberglas Whip Antenna
- RF Stage Boosts Sensitivity

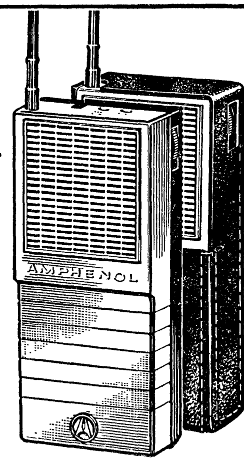
Superbly Engineered 2-Way Transceiver Is So Compact It Fits Right In Your Hand

"CERTIFIED"
Both units certified by Bureau of Mines as hazard-proof for your safety

AMPHENOL
Broadview, Ill.
MODEL C-75M CITIZENS BAND WALKIE-TALKIE

- 1.5-Watts Power Input
- 2-Channel Operation
- Modulation Averages 90%

Powerful Hand-Held Citizens Band Walkie-Talkie Offers Reliable Low-Cost Communications



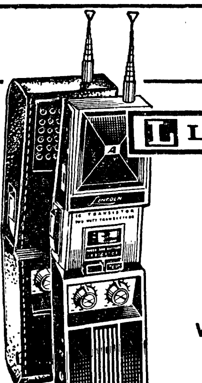
15 times the power and twice the range of most 100-mw units. Superhet receiver has RF stage to boost sensitivity, plus push-pull output stage for exceptional voice clarity. Limitless uses in business and industry. Excellent for warehouse inventory, freight trafficking and security work. Other deluxe features include: solid-state circuitry (11 transistors, 4 diodes) for high reliability, low heat, instant transmit/receive, minimum size and weight; press-to-talk bar; automatic noise limiter; adjustable squelch; 12″ telescoping fiberglas whip antenna. Size, 8x 3½x2″. Supplied with FCC license application form, crystals for Channel 5 only. With batteries (uses 8 penlight). Order optional rechargeable battery pack and leather case, below. Wt., 2½ lbs.

17 D 9775 S. ....Each **134.50**
17 D 9777 S. Rechargeable Battery Pack. 4 oz.......Each **19.95**
17 D 9776 S. Leather Carrying Case. With strap. ½ lb... **8.50**

Business unit designed for applications where big set performance and convenience are needed in the field, vehicle, office, boat, or plane. Has 1.5-watt input and two crystal-controlled channels for clear, reliable 2-way communications up to 5 miles. Solid-state circuitry throughout with 11 transistors and 2 diodes. Sensitive superhet receiver with adjustable squelch, automatic gain control, variable volume control and automatic noise limiting. Transmitter delivers 1.0 watts to a fully retractable, impedance matched, insulated antenna. Includes jacks for mike, earphone, antenna and for base operation while unit is recharging. 8x4x2″. With leatherette case and crystals for channel 11. Order batteries, below (requires 2). 2 lbs.

17 D 9778 S. ....Each **134.50**
17 D 9779 S. Deluxe Leather Case. Wt., 6 oz.............**7.85**
17 D 9780 S. 6-v. Nickel-Cadmium Batteries. 5 oz.......Each **9.90**
17 D 9784 S. Battery Recharger. For above batteries. 4 oz...**9.95**

CUT OPERATING COST WITH 2-WAY RADIOS



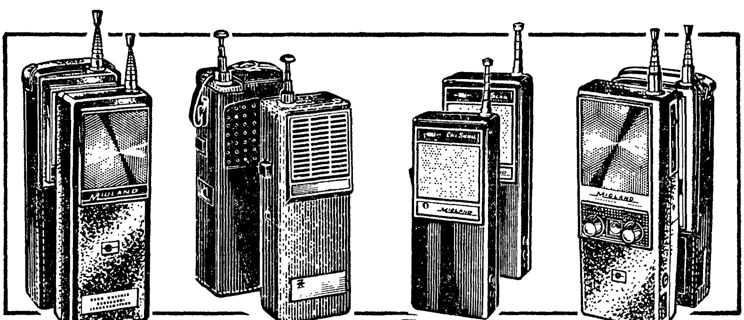
LINCOLN

DELUXE WALKIE-TALKIE
$89.95
With Case, Batteries, Crystals

- 16-Transistor Circuit for Flawless Communications
- Separate Speaker and Mike

A powerful hand-held 2-way radio with plenty of power. Full 2-watts RF input power—20 times more powerful than the conventional 100 mw walkie-talkies. Plus 3-channel operation. Has 16 transistors; squelch control for quiet operation; all metal die-cast case; battery condition and transmit indicator. With nickel-cadmium batteries, battery charger, carrying case, Channel 11 crystals. 3x 10½x2¼″. From Japan.

17 D 9766 S. 2¼ lbs.......**89.95**
17 D 6805. Earphone. .3 oz.......**35¢**
17 D 9369 CS. Transmit Crystal. Channel 1-22—specify. 3 oz.......Each **2.50**
17 D 9401 CS. Receive Crystal. Channel 1-22—specify. 3 oz.......Each **2.50**



A **9-Transistor** **$29.95**
B **2-Channel** **$33.95**
C **Call Signal** **$37.95**
D **1-Watt** **$54.95**

A 9-TRANSISTOR WALKIE-TALKIE. Sensitive superhet circuit provides extremely dependable communications. 100-mw transmitter input requires no license to operate, and has no age limit. Overall size, 7x3x2⅛″. Comes complete with transmit and receive crystals for Channel 11, earphone and carrying case. Order batteries (uses 7 pen-cell type) below, right. From Japan.

17 D 9733 S. Shpg. wt., 2½ lbs...**29.95**

B 2-CHANNEL 12-TRANSISTOR WALKIE-TALKIE. Crystal-controlled solid-state circuit gives you dependable communications. Superhet receiver section, with crystal-control and built-in noise limiter. 100-mw transmitter input meets FCC regulations for unlicensed operation. Provision for 2-channel operation with crystals for channel 7 supplied. 7x2⅝x1½″. With ear phone, case. Less batteries (uses 8).

17 D 9759 S. Japan. Wt., 1½ lbs. **33.95**

C 11-TRANSISTOR WALKIE-TALKIE WITH CALL SIGNAL. Flick switch on walkie-talkie, tone sounds on another similar unit—tells operator that you want to talk to him. Crystal-controlled 100-mw transmitter and superhet receiver provide reliable communications. No age limit. no license needed. With crystals for Channel 7. 8x3x 2″. With earphone, case. Order batteries (uses 6) below. Japan. 2¼ lbs.

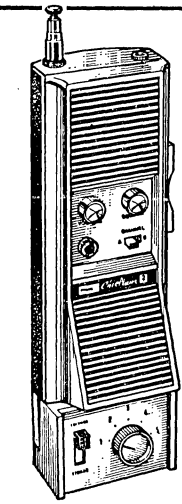
17 D 9742 S. **37.95**

D 13-TRANSISTOR 1-WATT WALKIE-TALKIE. Crystal-controlled 3-channel unit with 1-watt RF input. Powerful 2-stage transmitter. Squelch control quiets superhet receiver between calls. With crystals for Channel 11, case, strap. Order batteries (uses 8) below. 3¼x8¼x2″. Japan.

17 D 9768 S. Wt., 3 lbs..........**54.95**
18 D 5870 S. Batteries for Fig. A, B, C, D, Walkie Talkies. Wt., 5 oz.........**2 for 20¢**

Make Your Business More Profitable Through 2-Way Radio

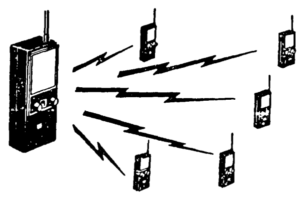
The Greatest Innovation Since the Walkie-Talkie

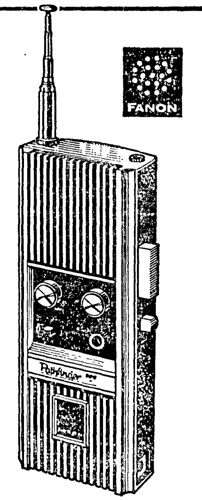


SELECTIVELY CALL UP TO 10 RADIOS

Push a Button and Call Any One of Up to 10 Radios

You can communicate with one person without annoying others. Push the call button and all radios on same channel will sound signal.





FANON L-2000 "CHIEFTAIN" CB WALKIE-TALKIE

With Ch. 9 Crystals $79.95

- Solid-State Circuit
- Battery Condition Meter
- Can Be Used for AC Base

Now a remarkable new high in walkie-talkie communications with this 2-watt, 2-channel solid-state walkie-talkie. Push a button and call any one of up to 10 radios (using CT-5 call-tones, below). You can communicate with one person without annoying others. Push the call button and all radios on same channel will sound signal. Has variable squelch control; battery meter; battery pack for penlight cells (optional AC supply below permits base station use); Aluminum housing, 8½x3½x2½". Chrome and black leatherette. With earphones, ten penlight batteries and crystals for channel 9. 2½ lbs.

17 D 9782 S. .... Each 79.95
17 D 9783 S. PS-150. 115 Volt AC Supply. Shpg. wt., 1 lb. 25.50
17 D 9785 S. CT-5 5-Station Call-Tone. 1 lb. 16.50
17 D 9369 CS. Extra Transmit Crystal. Specify 1-23. 3 oz. ... 2.50
17 D 9401 CS. Extra Receive Crystal. Specify 1-23. 3 oz. ... 2.50

FANON DCL-50 PATHFINDER WALKIE-TALKIE

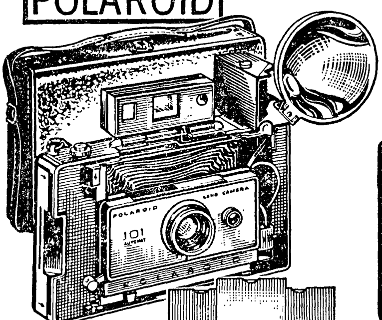
With Ch. 9 Crystals $39.95

- 11-Transistor Circuit
- Variable Squelch Control
- 2 Channels, 500 Milliwatts

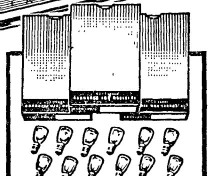
This 500-milliwatt transceiver provides far greater power and range than unlicensed 100-milliwatt units. Equipped with all the "Pro" features to extend your range of operation and provide unique selective calling; 11 transistors; 2-channel selection; variable squelch control; standby switch permits beep-tone call-in—no need to listen to annoying radio hash; battery strength meter lets you know at a glance the condition of your battery; controls conveniently grouped on front panel; interchangeable battery pack for penlight cells. Attractively finished in silver and black leatherette. Supplied complete with earphones, eight penlight batteries and crystals for channel 9. Housed in die-cast aluminum case, 7⅞x3⅛x1½". May be used in DCL-50 selective systems (or in combinations with L-2000) with accessories at left. Shpg. wt., 2 lbs.

17 D 9781 S. .... Each 39.95

POLAROID CAMERAS FOR INSTANT PICTURES



Complete Outfit $124.88

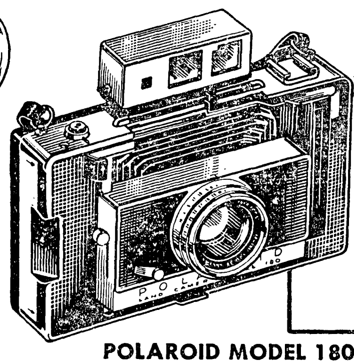


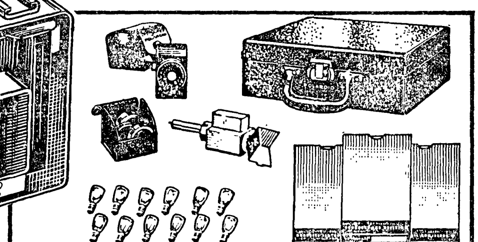
POLAROID 101 CAMERA KIT

Outfit includes: Model 101 camera; case; flash attachment; 3 black-and-white film packs; 12 flashbulbs. Camera loads in 7 seconds . . provides eight 3¼x4¼" prints. Color develops in 60 seconds; black-and-white in 15. Transistor shutter and electric eye for automatic exposures, even with flash. Camera has durable metal construction. Film at right.

10 D 0725 L2S. Wt., 8 lbs. 124.88
10 D 4908 S. Camera Only. 4 lbs. .. 104.88
10 D 4883 S. Development Timer. 4 oz. 6.95
10 D 4909 S. Flash Unit. 1½ lbs. 6.95
10 D 4903 S. Flash Bulbs.... Pkg. of 12 1.49
10 D 4884 S. Self-Timer. 4 oz. 4.95

NEW! POLAROID 180 LAND CAMERA





POLAROID MODEL 180 COMPLETE CAMERA OUTFIT

$209.95

- Has 4-Element f/4.5 Tominon Lens for Razor-Sharp Pictures
- Seiko SLV Between-the-Lens Shutter Has Speeds from 1 to 1/500th Sec.
- Ten-Second Shutter Delay Lets You Get Into Your Own Pictures

Designed for finer pictures. The Tominon Lens is a sharp, 4-element, color corrected Tessar type, has apertures as small as f/90. Precision shutter is a Seiko SLV between-the-lens type, has speeds to 1/500th, a B (bulb) setting, and 10-second self-timer. Zeiss Range-Viewfinder for focusing. Color pictures are developed in just 60 seconds, black-and-white in 15. Camera weighs only 2 lbs. 12 oz. and has European accessory shoe, tripod socket. Pictures are 3¼x4¼". Complete outfit includes: Model 180 camera, top grade black vinyl case, filter and lens kit for color pictures, exposure meter with vinyl case, flash-gun for indoor shots, twelve AG-1 flash bulbs, 3 rolls black-and-white film. Wt., 10½ lbs.

10 D 0001 S. Complete Outfit.... 209.95
10 D 4887 S. Camera Only. 3 lbs. ... 149.95

MODEL 328 CUSTOM FITTED CASE. Top-grade vinyl. Holds accessories and camera.
10 D 4888 S. Shpg. wt., 5 lbs. 19.95

MODEL 595 FILTER KIT. For both black-and-white and color film. Shpg. wt., 1 lb.
10 D 4889 S. 14.95

MODEL 628 EXPOSURE METER. Ultra-sensitive lightmeter with its own vinyl case.
10 D 4890 S. Shpg. wt., ½ lb. 19.95

AG-1 FLASH BULBS. Shpg. wt., 12 oz.
10 D 4972 S. .... Pkg. of 12/1.29

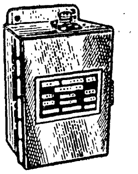
MODEL 280 FLASHGUN. Shpg. wt., ½ lb.
10 D 4891 S. 11.95

TYPE 107 FILM. For black-and-white shots. 8 exposures; develops in 15 seconds.
10 D 4879 S. Shpg. wt., 6 oz. 2.15

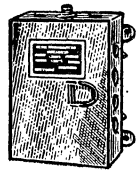
TYPE 108 FILM. For 8 color shots.
10 D 4880 S. Shpg. wt., 6 oz. 4.35

Perma-Power

Industrial Radio-Control Equipment



SINGLE-CHANNEL RADIO CONTROL SWITCHING SYSTEM



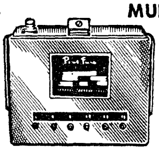
T371 Transmitter   R2700 Receiver

Controls Doors, Gates, Lights, and Machinery

T371 MOBILE TRANSMITTER. Industrial type transmitter for controlling doors, gates, lights, machinery, and many other switching applications. Designed for semi-permanent installation in moving vehicles. Operates from any 12, 18, 24 or 36-volt DC vehicle ignition system. Economical to operate—draws power only when transmitting. No license is required—operation is crystal-controlled on the 27-mc Citizens Band. With PL-259 50-ohm coaxial connector. Use with R250 receiver, below. 4x6x3". 4 lbs.
17 D 9155 XF..95.00

R2700 RECEIVER. Switching receiver designed for use with Model T371 transmitter listed above, or with virtually any other similar radio control transmitter. Uses simple wire antenna; has up to 500-ft. range under normal conditions. Circuit includes 10 transistors and 4 diodes. Switching is accomplished with a built-in DPDT relay rated at 5 amps, 115 volts AC. 8x10x4". Has hinged cover with knockouts for standard wiring. For from 90-130 volts, 50-60 cycle AC. Shpg. wt. 7 lbs.
17 D 9151 XF..70.00

MULTI-CHANNEL TRANSMITTERS



- Transmit on Any One of Six Channels
- For Mobile or Fixed Station Use

Heavy-duty industrial type, multi-channel transmitters designed for use in radio control switching applications. All units listed transmit on any of six different Class C, Citizens Band frequencies. Use single tone modulation.

When ordering, be sure to specify number of signals wanted. In multiple installations, units must be specially ordered and shipped from factory to guarantee non-interference with each other.

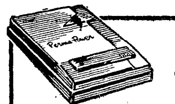
MODEL R3520. Transmits on any 6 frequencies with up to 6 audio tone combinations. Size, 6x8x3". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 5 lbs. Specify number of signals wanted when ordering.
17 D 6351 XF.................$115.00 plus $20.00 per signal

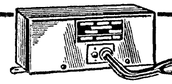
MODEL R3530. Same as above, but for mobile use—operates on 6, 12, 18, 24, or 36 volts DC. Specify number of signals wanted when ordering.
17 D 6355 XF...................$85.00 plus $20.00 per signal

MODEL R3540. Same as Model T372 above, but with up to 12 audio tone combinations. 8x10x4". For 115 v., 50-60 cycle AC. 5 lbs. Specify number of signals wanted when ordering.
17 D 6362 XF.................$190.00 plus $10.00 per signal

MODEL R3550. Same as Model T374 above, but for mobile use—operates on 6, 12, 18, 24, or 36 volts DC. Specify number of signals wanted when ordering.
17 D 6357 XF.................$160.00 plus $10.00 per signal

MODEL T381. Fixed station unit for installations in permanent locations. Provides 2 individual signals for use with a 2-channel receiver. 10x12x5". For operation from 115 v., 50-60 cycle AC. Shpg. wt., 17 lbs.
17 D 6360 XF..225.00





G370 Transmitter   G270 G271 Receiver

RELIABLE LOW-COST RADIO-CONTROL COMPONENTS

- Have Many Applications Around the Home
- Operates Garage Doors, Gates, Lighting Systems
- All Transmitters and Receivers are Compatible

MODEL G370 PORTABLE TRANSMITTER. For use with single-channel receiver such as Models G270 or G271, listed below. Also excellent as extra transmitter for existing systems. Pocket size, only 2¾x3¾x1". Range, up to 100 feet. Complete with built-in antenna, 9-volt battery. 1 lb.
17 D 8018..19.50

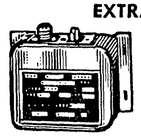
MODEL G270 RECEIVER. All-transistor, superhet circuit provides high sensitivity, selectivity and image rejection—assures trouble-free, economical performance. Normally-open relay rated .6 amp at 24 volts DC. Range, up to 200 feet. In metal case, 9x3x3½". With 8-ft. wire antenna. For operation from 95-130 volts, 60 cycle AC. Shpg. wt., 4 lbs.
17 D 9150 X..36.50

MODEL G271 RECEIVER. Same as above, but for operation from 20-28 volts AC. Shpg. wt., 3 lbs.
17 D 6334 X..36.50

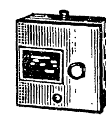
MODEL G470 ALL-TRANSISTOR CONTROL SYSTEM. Includes: receiver for operation from 117 v. AC.; transmitter, completely self-contained (includes battery); complete instructions. Shpg. wt., 7 lbs.
17 D 6338 X..56.00

MODEL G475 ALL-TRANSISTOR CONTROL SYSTEM. As above, but has transmitter for installation in 6 or 12-volt auto electrical systems. Uses auto antenna. Receiver operates from 117 v. AC. 10 lbs.
17 D 6342 X..56.00

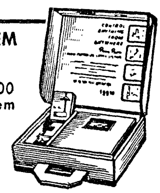
EXTRA TRANSMITTERS, SYSTEM



R3750 Transmitter



R3600 Transmitter



RT400 System

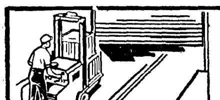
MODEL RT400 SYSTEM. Consists of: all-transistor, 117-v. AC receiver; pocket-size transmitter; instructions and diagrams. 500-ft. range. Receiver has 2 load-switching relays for flexibility; momentary, actuated during signal reception; sequence, maintains its position until second signal is received. 12 lbs.
17 D 6333 X..99.50

MODEL G370 EXTRA TRANSMITTER. (Illus. above.) Pocket-size, 2¾x3¾x1". Built-in antenna, 9-v. battery. 1 lb.
17 D 8018..19.50

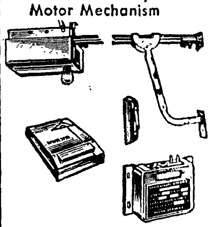
MODEL R3750 EXTRA TRANSMITTER. Mobile type for 6, 12, 24 or 36-v. DC systems. Coax connector. 500-ft. range. With 20" whip antenna. 5x4x2½". Shpg. wt., 2 lbs.
17 D 9152 XF..50.00

MODEL R3600 EXTRA TRANSMITTER. Fixed station type for 95-130 v. AC. 500-ft. range. 6x6x3". 4 lbs.
17 D 9153 XF..55.00

RADIO-CONTROLLED CHAIN-DRIVE GARAGE DOOR OPENER



Includes Drive, Motor Mechanism



With Either Portable or Under-Dash Transmitter

Powerful chain drive raises doors up to 18-ft. wide and 8-ft. high, using either a horizontal or curved roller track. Fully transistorized. Pulse-tone circuit—unit cannot be falsely keyed by non-system transmitters operating on the same channel. Touch transmitter button and door raises and garage light goes on. Press button again, or use wall-mounted switch, and door closes and locks. Light goes out in about 1 minute. Safe—power shuts off if door-travel is obstructed. Door still can be used manually. Choice of pocket or under-dash transmitter. Crystal controlled on Ch. B10 (27.255 mc). Receiver for 115v. 50-60 cyc. AC. Requires 2¼" between high arc of door and ceiling.

17 D 8007 ZW. System with Battery-Powered Pocket Transmitter. Shpg. wt., 65 lbs......149.50

17 D 8013 ZW. System with Under-Dash Transmitter for 12-v. DC Neg. Ground. Wt., 65 lbs.....149.50

EXTRA PORTABLE TRANSMITTER. For Ch. B10 system, at left. Easily modified for use with non-pulse openers. Wt., 1 lb.
17 D 8018........................19.50

KEY SWITCH. For manual operation of garage door from outside (mounts on side of garage, etc.) With 2 keys. Shpg. wt., 9 oz.
17 D 8015........................4.20

ALTERNATE-FREQUENCY SYSTEM

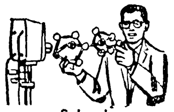
Same as system at left, but for operation on other than channel B10. Specify channel desired, and whether portable or dash-mounted transmitter is wanted. Shpg. wt., 65 lbs.
17 D 8012 CZF........................149.50

EXTRA TRANSMITTER FOR ALTERNATE-FREQUENCY SYSTEM. Specify System's channel, and whether portable or dash-mounted unit is wanted.
17 D 8014 CF. Wt., 1 lb...............19.50

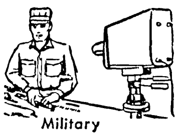
Video Tape Recording Equipment

AMPEX

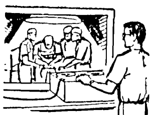
AMPEX-QUALITY VIDEO TAPE EQUIPMENT IN THE SEMI-PROFESSIONAL PRICE RANGE



Schools



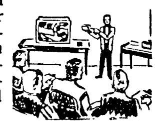
Military



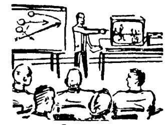
Hospitals

No other communications tool commands as much attention, is as fast, easy and dynamic as television you can record yourself and playback when and where you wish. For schools, allows recording of drama classes and sports for instant playback and critique. Ideal for training, lets you record medical operations, assembly procedures, sales conferences. Useful for documentation for hospitals, law enforcement, lawyers, safety, air traffic control, research, and much more.

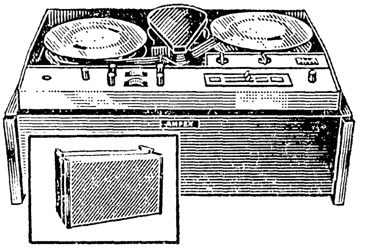
News Coverage



Sales Training



Sports



VR-7000 VIDEOTAPE RECORDER

- Records TV Programs Off the Air
- Records "Live" with Optional Camera
- Records Video and Audio on Same Tape

For on-location recording or as CCTV distribution center. Helical-scan video head records pictures at effective tape speed of 1000 ips. Response 30 cps to 3.5 megacycles for 310-line resolution black-and-white TV.

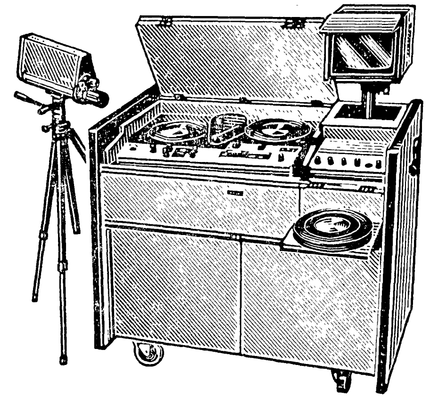
Tapes can be stopped at any point for instant still-frame inspection of any part of a recording. Audio is recorded simultaneously on separate head for playback through built-in speaker or an external speaker. Video and audio level controls and meters. Selector for stop, fast-forward and rewind.

Digital counter. Self-contained amplifier/speaker delivers 6 watts output. Video head provides 500 hours of operation (one spare head included). Luggage-style case with retractable handles. Size, 15x29x18″. Order camera, mike and tape, below. For 110-120 v., 60 cycle AC. Shpg. wt., 80 lbs. Shipped truck or express.

15 D 7357 Z.................. 3150.00

VR-7100 "VIDEOTRAINER" CCTV SYSTEM

Everything you need to record and playback black-and-white "live" programs, pre-recorded programs, or programs from off-the-air TV, or cable TV



For schools, colleges, business, industry, hospitals, military, and government. System includes: VR-7000 Videotape recorder (described at left); two reels of 147-60 Video Tape; VHF-UHF Television Tuner; 9″ Television Monitor that is pole-mounted, adjustable in height, and rotates for convenient viewing; powerful audio amplifier/speaker; Cardioid Microphone with floor stand; CC-323 Vidicon Television Camera with 25mm f/1.4 lens, 12.5mm f/1.4 wide-angle lens, 50mm f/1.4 telephoto lens; Tripod with tilt head; necessary switching facility and connecting cables.

The entire svstem is contained in a mobile, roll-around console with ample storage space for a large library of tapes. The system is ideal for schools and colleges for recording, storing and reproducing instructional programing. A great training aid in business and industry, as well as medical schools and vocational schools. Demonstrations that are small, far away or fast-moving can be taped in close-up, replayed and held in stop-motion. 41½x43x22″. For 110-120 v., 60 cycle AC. Truck or express. Shpg. wt., 360 lbs.

15 D 7358 Z................ 5945.00

ACCESSORIES FOR USE WITH VR 7000 OR VR 6275

MODEL 6450 CAMERA OUTFIT. For recording "live" productions or Monitoring area thru your TV set. Camera has viewfinder, f/1.4 lens, tripod, and 25′, 50′, 75′ extension cables. With Model 701 Mike and lavalier.
15 D 7243. Shpg. wt., 17 lbs....... 580.00

MODEL 323 CAMERA. Has professional 3-position turret lens mounts. With one f/1.4 lens, 25′ cable, tripod.
15 D 7244 X. Shpg. wt., 12 lbs.... 995.00

15 D 7139 X. Model 701 Mike. 5 lbs... 9.95

15 D 9246. Type 147-60 Videotape. 9½-in., 3000-ft. reel records for 60 minutes. 1″ wide. 2 lbs........................ 59.95

15 D 9358. Type 147-30 Videotape. As above, but 1500′ for ½ hr. recording. 1½ lbs.............................. 44.90

VR 6275 VIDEOTAPE RECORDER

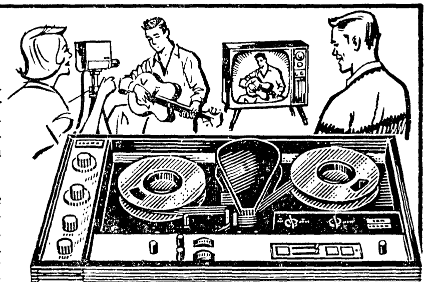
Connect the VR to antenna terminals of any TV set, and you're ready to make sharp, professional-quality, black-and-white videotapes. Lets you build an incomparable library of entertainment and current events on tape that will not become obsolete.

The VR recorder uses a single double-life deep-gap helical recording head. As the head rotates it scans the tape at an effective speed of 1000 ips for full 2.5-mc video response. Audio is recorded simultaneously for playback through built-in speaker or an external speaker. Video and audio level controls and meters. Digital counter. Records 60 minutes on 9½″ reel (see tape above).

Control Center (including VHF-UHF TV tuner) makes possible direct connection to the antenna leads of any television set currently on the market. There are no modifications necessary—sets up in seconds. Simply select an unused channel on the TV set, then make all other adjustments at the video control center. Because the control center contains a second TV tuner, you can actually watch one channel on your present set, while taping another. With the addition of a TV camera, (above), you can tape record your own TV "shows." Camera is connected to the recorder with a single cable, and extension cords are available so you can use it in another room or in your yard. Camera has a start-stop button so you can tape without going back to the recorder. The camera can be played directly through the TV set for monitoring a child's room, swimming pool, or as a burglar monitor for entrances.

Recorder is complete with oiled walnut wood base and cover. Size, 10x24x14″. For 110-120 v., 60 cycle AC. Shpg. wt., 65 lbs.

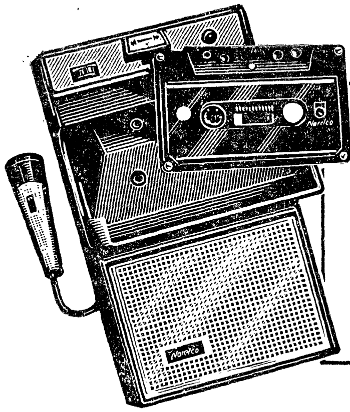
15 D 7241 Z............... 1495.00



- Record Your Favorite TV Programs
- Perfect Pictures, High-Fidelity Audio
- Connects to Any TV Set in Seconds
- Add A Camera to Make Your Own Shows

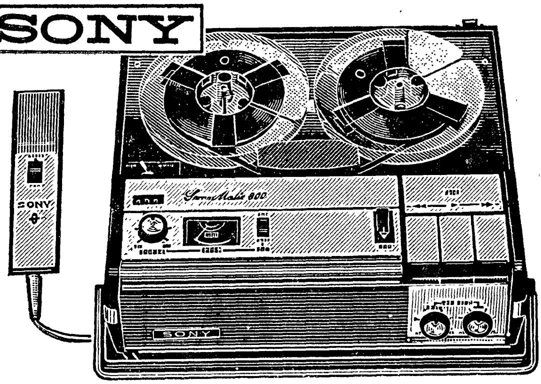
Newest Tape Recorders and Decks

Norelco



Car Radio Adapter Available

SONY



"CARRY CORDER-150" CARTRIDGE PORTABLE

- Uses Snap-In Cartridges that Load and Play in 3 Seconds
- Makes Outstanding Recordings of Both Voice and Music Anywhere
- Dynamic Mike Is Extremely Sensitive to Distant Sounds and Voices

One of our most versatile battery-operated portables! Widely acclaimed for its excellence. Records up to one hour per cartridge (both tracks). Change cartridges any time without rewinding. Capstan drive, 1⅞ ips speed. Precision head-design and deluxe circuit assure outstanding voice and music recordings.

Master knob for start, stop, fast-forward, and rewind. Dynamic mike picks up the faintest sound. Self-contained speaker. Dual-purpose meter shows recording level and battery condition. Inputs: Mike, radio/TV. Outputs: External amplifier, earphone.

Size, 7¾x4½x2¼". With vinyl carrying case, dynamic microphone with remote start-stop switch, patch cord, and tape cartridge. Order batteries below. From Holland. Shpg. wt., 4 lbs.
15 D 7213 S..89.50
18 D 5865. Batteries. (Uses 5.) Wt., 4 oz.......... Pkg. of 2 for 26¢
15 D 7110. Extra Tape Cartridges. Wt., 4 oz............Each 2.65
15 D 7215. AC Adapter. For 110 v., 60 cycle. Wt., 1 lb......19.90
15 D 7216. Private Listening Headset. ½ lb.................12.75
15 D 7109 X. Car Radio Adapter. Mounts under dash, lets you play recorder through AM car radio. Shpg. wt., 2 lbs......... ..24.95

"SERVOCONTROL 800" BATTERY/AC TAPE RECORDER

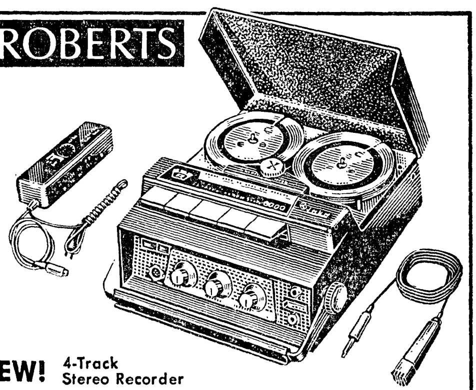
- Solid-State 3-Speed Recorder for Battery and AC Operation
- Servo-Controlled Motor Maintains Precise Timing Accuracy
- Switch-Selected Automatic or Manual Volume Control

Recorder with direct capstan drive and servo-controlled motor that prevents speed variations and maintains exact speeds of 7½, 3¾ and 1⅞ ips. Automatic Volume Control compensates for different levels of sound and maintains uniform recording level. Manual volume control available for music recording, to maintain full dynamic range. 5-inch reel capacity provides long recording time.

VU meter with switch for indicating record level, play level, or battery condition. Digital tape counter for editing, cuing and tape indexing. Pushbutton controls for positive and convenient operation. Tone control. Sensitive cardioid mike has remote start-stop switch. Record interlock prevents accidental erasure.

Frequency Response: 50-12,000 cps at 7½ ips; 50-9000 cps at 3¾ ips; Flutter and Wow: less than 0.15% at 7½ ips; 0.2% at 3¾ ips. Inputs: Microphone; radio/phono/TV. Monitor output. Operates from batteries or 110 v., 60 cycle AC. Order batteries below. 4¼x12¼x10½". With mike. From Japan. Shpg. wt., 13 lbs.
15 D 7413 X..179.50
18 D 5868. "D" Batteries. (Uses 8.) Wt., 8 oz...... Pkg. of 4 for 64¢
15 D 7414. Variable Speed and Pause Control. Slows playback speed for transcribing, has start/stop pushbutton. 3 lbs.......9.95

ROBERTS



NEW! 4-Track Stereo Recorder

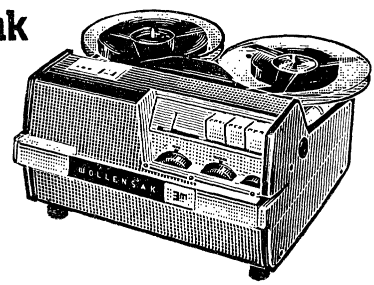
6000S 4-SPEED BATTERY/AC STEREO RECORDER

Professional-quality portable recorder has Roberts' famous Cross-Field head for wide frequency response to match that of conventional studio recorders. And, it operates on batteries or AC. Records and plays 4-track stereo at 7½, 3¾, 1⅞ and 15/16 ips. Records up to 16 hours of speech on a 5-inch reel at 15/16 ips.

Professional VU meters and digital tape counter. Response: ±3 db, 40-20,000 cps at 7½ ips; ±3 db, 40-12,000 cps at 3¾ ips. Flutter and Wow: 0.18% rms at 7½ ips. Eight watt stereo amplifier plus two built-in 5" speakers. Damage-proof metal case, 4x9⅓x10". With rechargeable battery, battery charger/AC power supply, dynamic microphone, 5" takeup reel. From Japan. Shpg. wt., 14 lbs.
15 D 7090 X..359.95

Wollensak

For Schools, Business, Industry and Home



1500SS SOLID-STATE TAPE RECORDER

- Makes High-Fidelity Monophonic Recordings at 7½ and 3¾ ips
- Powerful 10-Watt Amplifier and High-Efficiency Speaker
- All-Metal Construction
- Simple Keyboard Operation

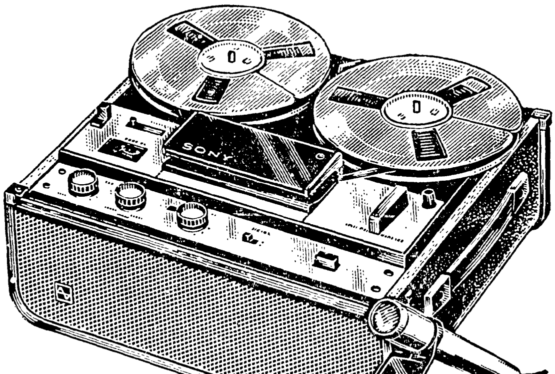
Lightweight, solid-state recorder offers high-fidelity monophonic recording, pushbutton keyboard operating convenience, and long-term reliability. It is an excellent all-purpose recorder for business, industry, schools, and the home. Records and plays 2-track monophonic at 7½ and 3¾ ips. Powerful 10-watt push-pull amplifier and self-contained speaker provide full-range playback.

Digital tape counter and instant pause control for cuing, editing, and indexing. Automatic tape lifters protect heads from wear during fast forward and rewind operations. Interlocking controls prevent accidental erasure. Two-level record indicator; tone control. Takes up to 7" reels. May be used as public address amplifier.

Response: ±3 db, 40-15,000 cps at 7½ ips. Wow and Flutter: less than 0.3%. Signal/Noise: 48 db. Mike/radio-phono input. Outputs: Extension speaker; preamp; headphone. 6½x11¾x10¼". For 110-120 v., 60 cycle AC. With dynamic microphone, 7" takeup reel, reel of tape, patch cords. Shpg. wt., 20 lbs.
15 D 7339 U..184 95

Depend on Allied for the Latest in Audio Equipment

for Industry and Office



SONY

Available With Two Mikes At Savings of $11.46

KN 4450

Deluxe 3-Head Deck with Preamps

KNIGHT

MODEL 105 SOLID-STATE TAPE RECORDER

- Automatic Volume Control Maintains Proper Recording Level
- Four Tracks Record Up to 16 Hours On One Long-Play Reel
- Language Training Facilities • Dictating Pause Control

Compact portable 4-track recorder with many professional features. Sound-on-sound for language and music training—built-in connections and switching provide immediate student/teacher track comparison. Full 7-inch reel capacity. For voice recording, AVC maintains perfect recording levels. For music recording, manual volume control allows complete dynamic range. Pause control for dictating and preventing recording of unwanted material.

Choice of 7½, 3¾ and 1⅞ ips speeds lets you handle any assignment whether it requires greater length or higher fidelity. Solid-state amplifier and built-in speaker. Microphone and line mixing. Retractable Pinch Roller for ease of threading. Professional VU meter. Digital counter for tape indexing. Automatic end-of-reel shutoff. Tone control.

Frequency Response: 50-12,000 cps at 7½ ips; 50-10,000 cps at 3¾ ips. Flutter and Wow: 0.12% at 7½ ips. Signal/Noise: 48 db. Inputs: Mike; radio/phono. Outputs: External speaker; monitor. Size, 6x14x8". With dynamic microphone, earphone. For 105-125 volts, 60 cycle AC. From Japan. Shpg. wt., 12 lbs.

15 X 7287 X.......................................**139.50**

KN-4450 SOLID-STATE STEREO TAPE DECK

- Three Heads Allow Direct Monitoring, Echo, Sound-on-Sound
- Flip-Up Head Cover and Cue Control Facilitate Editing
- Mike and Line Mixing • Single-Knob Tape Motion Control

Professional deck with features and performance to satisfy the most demanding recordist. Separate, solid-state record and playback preamps provide 4-track stereo and mono with excellent ±2 db, 50-16,000 cps response. Capstan motor with flutter-free belt drive and separate takeup motor with positive braking for instant starts and stops. Three precision heads provide monitoring while recording, and switch-selected echo and sound-on-sound.

Record/Play selector control with 6 indicator lights. Mike and line mixing for each channel, plus record level control for each channel. Cue control disengages drive, lets you move tape by hand to find exact spot for erasing or splicing. Automatic shutoff; counter; VU meters. With patch cords, 7" takeup reel. Order base below. For 110-120 v., 60 cycle AC. Shpg. wt., 30 lbs.

15 D 7865 K.......................................**299.50**

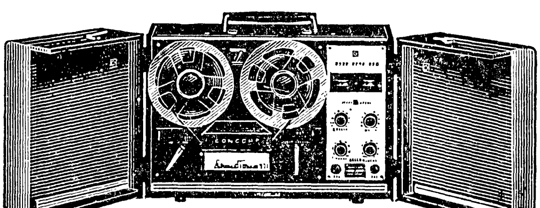
15 D 0254 L3K. Above, with Two KNI-4520A Mikes. 31 lbs...309.76

15 D 7867 X. Portable Carrying Case. Takes deck, has space for 2 mikes, tape, cables. Black. 15⅜x16x11⅞". 18 lbs..........29.95

15 D 7866 X. Oiled Walnut Wood Base. 9 lbs..........19.95

14 D 5180. KNI-4520A Dynamic Mike. 2 lbs..........Each 10.85

CONCORD



MODEL 776 SOLID-STATE STEREO TAPE RECORDER

- Automatic Reversing for Continuous Play Without Reel Turnover
- Speaker Enclosures Separate Up to 15 Feet for Realistic Stereo
- "Trans-A-Track" for Language and Music Training Applications

First high-fidelity recorder, with automatic reversing, to be offered at such a low price. Records in one direction, then reverses and records in the other direction. Ends the need for turning over reels. Records and plays 4-track stereo or mono at 7½ and 3¾ ips. Separate speaker enclosures separate up to 15 feet for optimum stereo effect during playback.

Exclusive "Trans-A-Track" permits recording left and right channels individually, then playing back stereophonically. Pause control for dictating, editing, and cutting out commercials while taping broadcasts. Digital tape counter with quick-reset. Stereo headphones jack. Reel Capacity: 7".

Frequency Response: 50-16,000 cps at 7½ ips.

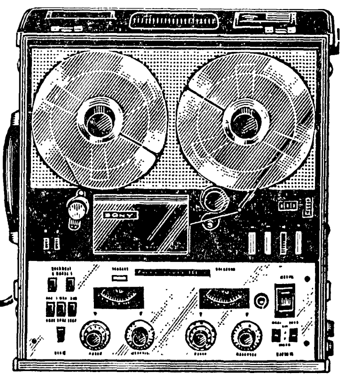
Inputs: 2 mike; 2 radio-phono. Outputs: External speakers; line. 8¼x20x3¼". With 2 mikes, 7" takeup reel. For 110-120 volts, 60 cycle AC. From Japan. Shpg. wt., 40 lbs.

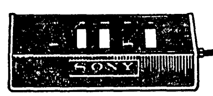
15 D 7092 U.......................................**299.50**

SONY

777 SOLID-STATE STEREO TAPE DECK

- Pushbutton Controls
- Tape/Source Monitoring
- Sound-On-Sound





With Remote Control

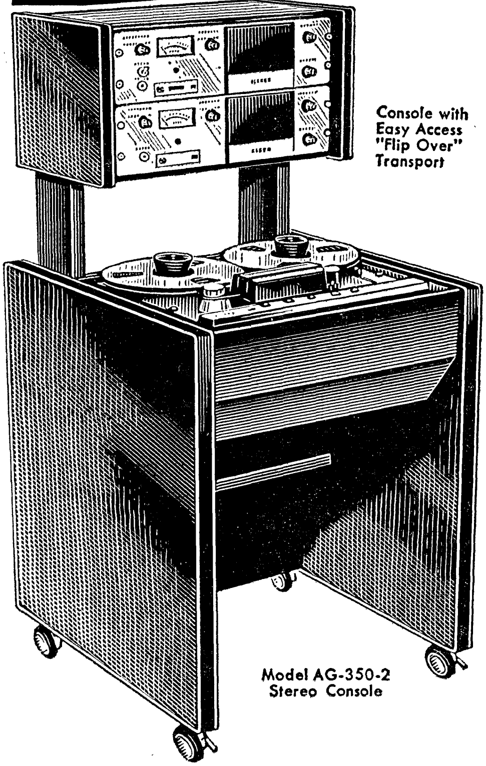
Deluxe tape deck with solid-state preamps records and plays 4-track stereo and mono, plays 2-track. "Trac-Stan Drive" reduces tape slippage for very low flutter and wow and 0.2% timing accuracy. Separate stereo record and play heads allow monitoring while recording, echo and sound-on-sound. Pushbutton controls plus Remote Control Box for tape motion functions and recording mode.

Mike and line mixing for each channel. Three motors—capstan, supply, and take-up for precise starts, timing, and braking. Two VU meters. Automatic tape lifters protect heads from wear during rewind and fast forward. Tape/source monitoring switch allows instant comparison. Modular circuit boards.

Speeds: 7½ and 3¾ ips. Response: ±2 db, 30-16,000 cps at 7½ ips. Flutter/Wow: 0.09% rms at 7½ ips. Signal/Noise: 50 db. Inputs: 2 mike; 2 tuner/amplifier. Outputs: high and low-Z amplifier. 17¾x16x9". With remote control unit. Order mikes separately. For 110-120 v., 60 cycle AC. From Japan. 78 lbs.

15 A 7233 Z.......................................**595.00**

AMPEX Professional Recording Equipment



Console with Easy Access "Flip Over" Transport

Model AG-350-2 Stereo Console

AG-350 SOLID-STATE STEREO TAPE RECORDERS

- Advanced 100% Solid-State Electronics • All Transistors Are of Plug-in Type
- Smaller Space Requirements for Electronics • New Design for Easier Operation
- Large, Easy-to-Read Professional VU Meters—Same Proven Performance as 351's
- Two-Channel Version Takes Only 10½" Rack Space for Compact Installation

The new solid-state AG-350 Series meets the most severe requirements of broadcast stations, other commercial users, and U.S. Government Agencies. It's the finest audio tape equipment ever offered by Ampex. In addition to new solid-state electronics, the AG (Audio General) Series uses the time-proven 351 Series Tape Transport with these improvements: automatic speed-equalization switching; wide-opening head gate; ferrite-type erase heads; and new function mode control panel and switches for greatly increased operator convenience. A major contribution to the recording industry.

SPECIFICATIONS. **Overall Response:** ±2 db, 30-18,000 cps at 15 ips; ±2 db, 40-10,000 cps at 7½ ips. **Playback Response:** ±1 db, 50-10,000 cps at 15 ips and 7½ ips. **Signal-to-Noise Ratio:** 55 db at 15 ips and 7½ ips (2-track). **Flutter:** below 0.11% rms at 15 ips; below 0.14% rms at 7½ ips. **Playback Output:** +8 dbm into 600 ohms (restrappable for +4 dbm output, balanced or unbalanced). **Record Input:** 100K bridging, —10 dbm to produce recommended operating level. **Electronics Adjustment:** accessible from front (behind panel). **Start/Stop:** at full speed in less than 1/10 second; at 15 ips, tape moves less than 2" after pressing stop button.

MODEL AG-350-2 TWO-CHANNEL STEREO CONSOLE (4010036-03). Two-track heads. 7½ and 15 ips speeds. Complete with console with electronics overhead. For 110-120 v., 60 cycle AC.
51 D 5975 Z. Shpg. wt., 268 lbs. **2670.00**

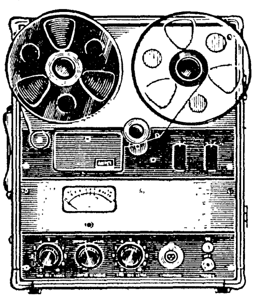
51 D 5976 Z. Model AG-350-2 Two-Channel Stereo Portable (4010036-05). As above, less console and in luggage type carry case. Wt., 88 lbs. **2475.00**

51 D 5977 Z. Model AG-350-2 Two-Channel Stereo Unmounted (4010036-01). As above, unmounted. Shpg. wt., 88 lbs. **2345.00**

ALLIED CAN SUPPLY OTHER MODELS OF AMPEX RECORDERS

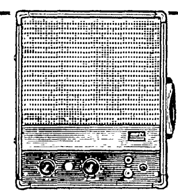
Ampex recorders are also available with full and half-track monophonic heads, in choice of 7.5 and 15 ips speeds or 3.75 and 7.5 ips speeds; and stereo models ¼-track and ½-track stereo heads for 3.75/7.5 and 7.5/15 ips speeds. Model 355 Reproducers with any head configuration and speed available on Special Order. Contact our Broadcast Division for quotes.

SERIES 602 FIELD AND STUDIO RECORDERS



Recording Industry Standard

- Standard 7½ ips Speed
- Maximum 7" Reel Size
- NAB Equalization



622 Portable Speaker-Amplifier

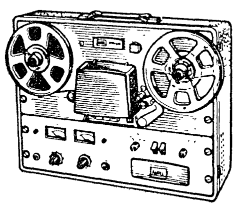
MODEL 602-01 MONOPHONIC RECORDER. Broadcast-quality ½-track unit with three separate heads (erase, record and playback) and hysteresis-synchronous drive motor. **Response:** 40-15,000 cps; —4 db maximum at 15,000 cps; ±2 db from 40-10,000 cps. **Signal/Noise:** over 57 db. **Flutter/Wow:** less than 0.17%. **Inputs** (with gain control on each for mixing): low-impedance (30-250 ohms) mike, 100K unbalanced line. **Outputs:** 4 dbm into 600-ohm balanced or unbalanced line; front-panel headphone jack. Dynamically balanced flywheel; separate record and playback preamps; 3" professional VU meter; tape or source monitoring; heavy-duty clutches. Horizontal or vertical operation. Extra-rugged portable luggage case, 8x13¾x16½". For 110-120 v., 60 cycle AC. Shpg. wt., 31 lbs.
51 D 5984K **625.00**

51 D 5985 K. Model 602-1 Full-Track Monophonic Recorder As above, but with 3 full-track heads. Shpg. wt., 31 lbs. **625.00**

MODEL 602-2 TWO-CHANNEL STEREO RECORDER. Same excellent specs as Model 602-01, but with two tracks for stereo. Also may be used as half-track mono recorder. Selective-track erase head. 8x13¾x23". For 110-120 v., 60 cycle AC. Shpg. wt., 45 lbs.
51 D 5986 U **875.00**

MODEL 622 MONOPHONIC SPEAKER-AMPLIFIER. Combines 10-watt amplifier and 8" speaker in single portable case. **Overall response:** 65-10,000 cps. Jack for external speaker (12 ohms impedance). **Controls:** Volume, Bass-Treble, On-Off with indicator light. 13x16x8". For 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs.
51 D 5987 K **189.50**

STUDIO-QUALITY PR-10 RECORDERS



- Stereo and Mono Record and Play
- Modular Transport and Electronics for Rack or Portable Mounting
- Needs Only 14" of Rack Space
- Pushbutton Solenoid Controls
- Remote Control of All Functions
- Provision for Fourth Head
- Tape Lifters Allow Touch Cuing

MODEL PR-10-2 STEREO PORTABLE RECORDER

Compact 2-channel, 2-track portable recorder. PR-10-2 is ideal as a field or studio recorder/player for broadcasters, recording studios, churches, or classrooms. Correct speeds are assured by the large, continuous duty hysteresis synchronous motor. Tape lifters permit touch cuing on fast wind and rewind. Electro-dynamic clutches and lower operating and braking tension permit use of thin-base tapes. *Speeds,* 7½ and 15 ips. *Frequency Response:* ±2 db 30-15,000 cps at 15 ips; ±2 db 40-12,000 cps at 7½ ips. *Output,* +4 dbm into 600 ohm balanced or unbalanced load; one line input for each channel. Transport. 8¾x19x6"; electronics. 5¼x19x5⅞". In portable case. For 110-120 volts, 60 cycle AC.
51 D 5978 Z. Shpg. wt., 56 lbs. **1325.00**
51 D 5979 Z. PR-10-1 Single channel, full track, less case. **1045.00**

MODEL PR-10-4 4-TRACK STEREO PORTABLE RECORDER

Has all of the PR-10 features, with the addition of 4 two-channel heads, 4-track erase, record and playback. 2-track playback. Signal-to-noise ratio, better than 55 db at both 3¾ and 7½ ips, Supplied in durable portable case. For 110-120 volts. 60 cycle. AC. Shpg. wt., 56 lbs.
51 D 5980 Z **1375.00**

PORTABLE CASE FOR PR-10 SERIES TYPE 15-0200-01 Shpg. wt., 10 lbs.
51 D 5981 X **75.00**

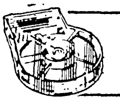
MODEL MX-10 MIXER Four-position, 2-channel mixer. Feeds 4 mikes, or 2 mikes and 2 line inputs to either or both recorder input channels. 110-120 VAC 60 cycle. Size, 5⁷⁄₃₂x19x5⁵⁄₁₆". Shpg. wt., 16 lbs.
51 D 5982 X **395.00**

REMOTE CONTROL TYPE 96510-01 Wired, supplied with 30-ft. cord. Shpg. wt., 6 lbs.
51 D 5983 X **75.00**

Automatic Tape Equipment and Accessories

VOICE RECORDINGS PLAYED AUTOMATICALLY

Tape equipment designed to automatically deliver voice messages to selected areas as often as desired. Offers unlimited possibilities for instruction and sales promotion. Can be used to explain sales displays, give sales presentations at exhibits, or provide instruction for factory assembly projects. Also excellent for training employees, delivering important spot-announcements, etc. Equipment operates continuously, periodically, or when cued. Available in playback units alone, or with recording facilities.



Fully Automatic Threading

ECHO-MATIC TAPE CARTRIDGES

For all Cousino units. Running time, in minutes, at 3¾ ips, except *seconds. 1 lb.

Stock No.	Type	Min.	1-9, EA.	10-Up, EA.
15D8909	1410-70S	70*	3.00	2.70
15D8910	1410-3	3	3.25	2.93
15D8911	1410-6	6	3.75	3.38
15D8912	1410-12	12	4.60	4.14
15D8913	1410-15	15	4.95	4.46

TAPE SPLICING KIT

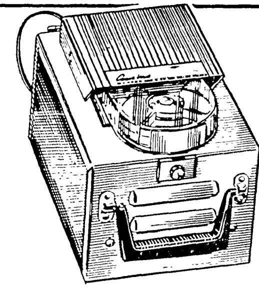
Splicing block and pre-cut tabs for splicing Cousino tape; instructions. 4 oz.
15 D 8920........................1.50
15 D 8921. Extra Tabs. 2 oz...Pkg. of 24 .25

ANNOUNCER REPEATERS

Cousino

- Lets Your Product "Speak for Itself"
- Built-In Speaker
- Can Play Continuously

MODEL 9000 An ideal merchandising tool. Presents a complete, recorded sales story. Also excellent for demonstrations where utmost accuracy is demanded or where precise time schedules must be observed. Starts automatically "on demand" or runs continuously. Shuts off automatically at end of sales message. Built-in speaker, output for an external speaker. Plays up to 15 minutes on repeating loop cartridge. Completely transistorized for instant operation. Includes 3-minute blank tape cartridge. For playback only—tapes can be recorded on any good quality mono recorder operating at 3¾ ips with 2-track head. Compact, only 5¼x5x7". For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.
15 D 7610 S......................74.50



AUDIO ANNOUNCER

MODEL R-7320 All-transistor cartridge-loading playback unit. Operates continuously or shuts off automatically, or on cue. For use with external amplifier or headset. Speeds: 3¾, 1⅞ ips. 4-pole motor. 6x6x9". For 105-120 v., 60 cycle AC. 22 watts. Shpg. wt., 14 lbs.
15 D 8900 XS..................99.95

AUDIO REPEATER

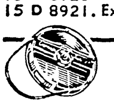
MODEL AR-7328 As above, but has 4-watt audio amplifier; built-in 4" speaker; external-speaker jack. Wt., 15 lbs.
15 D 8901 XS..................124.95

AUDIO REPEATER-RECORDER

MODEL RR-7331 As above, but also records tapes. Shpg. wt., 16 lbs.
15 D 8902 XS..................169.95

SYNCHRO REPEATER-RECORDER

MODEL SR-7341 As above, but has facility for tone-triggering remote units on playback. Shpg. wt., 17 lbs.
15 D 8903 XS..................229.95



CONTINUOUS PLAY AUDIO VENDORS

Last digit(s) in Type No. indicate running time in minutes at 3¾ ips speed (doubled with amoebius loop). Clockwise, except †counter-clockwise. 12 oz.

Stock No.	Type No.	1-9, EA.	10-Up, EA.
15D8145	U-1310C-3	5.10	4.60
15D8146	U-1310C-5	5.50	4.95
15D8135	U-1310C-12	7.40	6.65
15D8149	U-1310C-15	8.10	7.40
15D8143	U-1110C-30	16.50	14.90
15D8147	U-1310CC-3†	5.10	4.60
15D8148	U-1310CC-5†	5.50	4.95
15D8136	U-1310CC-12†	7.40	6.65
15D8144	U-1310CC-15†	8.10	7.40
15D8140	U-1110CC-30†	16.50	14.90

"FIDELIPAC" AUTOMATIC TAPE CARTRIDGES

MODEL 300 TAPE CARTRIDGES

Stock No.	Length	Time at 7½ ips	Size	Wt., Oz.	EACH 1-99	100-499	500-Up
15D8915	25'	40 sec.	4x5 7/32x7/8"	4	2.45	2.18	2.07
15D8917	44'	70 sec.	4x5 7/32x7/8"	4	2.57	2.28	2.15
15D8942	63'	100 sec.	4x5 7/32x7/8"	4	2.72	2.36	2.23
15D8918	132'	3½ min.	4x5 7/32x7/8"	4	3.12	2.67	2.53
15D8940	207'	5½ min.	4x5 7/32x7/8"	5	3.57	3.10	2.95
15D8941	394'	10½ min.	4x5 7/32x7/8"	8	4.85	4.15	3.87
15D8930	....	*	4x5 7/32x7/8"	3	2.06	1.82	1.73

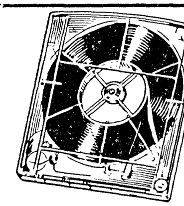
MODEL 600 TAPE CARTRIDGES

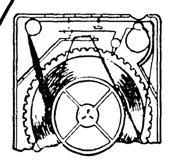
Stock No.	Length	Time at 7½ ips	Size	Wt., Oz.	EACH 1-99	100-499	500-Up
15D8924	600'	16 min.	6x6 31/32x7/8"	9	8.00	6.85	6.39
15D8931	....	*	6x6 31/32x7/8"	5	3.43	3.00	2.84

MODEL 1200 TAPE CARTRIDGES

Stock No.	Length	Time at 7½ ips	Size	Wt., Oz.	EACH 1-99	100-499	500-Up
15D8926	1163'	31 min.	7 5/8x8 13/32x7/8"	16	13.20	11.35	10.60
15D8932	.....	*	7 5/8x8 13/32x7/8"	10	4.85	4.25	4.02

CONLEY





Operates on Endless-Loop Principle

Continuous, self-contained automatic tape cartridges—the standard of the broadcast industry. They are compatible with all major-brand cartridge equipment available on the market today. Designed for both recording and playback—utilizing the endless loop principle of tape operation. Fidelipac cartridges offer unlimited applications in all fields. The entire cartridge is constructed of plastic, and its specially lubricated tape is self-enclosed (with transparent cover) affording complete protection from dust, tearing, marring. Offers the utmost handling ease. Three model sizes for program flexibility.
*Empty cartridge.

DISC RECORDING ACCESSORIES By AUDIO DEVICES

AUDIOPOINT DISC CUTTING NEEDLES

High-quality needles for use with disc recorders. Have 87° included angle. Type 14 is equipped with .003" tip radius; Type 20 has .0005" tip radius. Shpg. wt., 2 oz.

Stock No.	Type	Description	EACH
15 D 8108	14	Sapphire, short dural shank	4.95
15 D 8156	20	As above, for microgroove	4.95
15 D 8118	14	Sapphire, long dural shank	4.95
15 D 8109	20	As above, for microgroove	4.95

GUMMED RECORD LABELS. Spaces for title, artist, date and other information. Shpg. wt. per pkg., 2 oz. 50 per pkg.
15 D 8100. 1-3.... Per Pkg. .45 4 or More Pkgs.....Per Pkg. .41

AUDIODISC RECORDING BLANKS

Precision made recording blanks are smooth-coated on both sides of an aluminum base. Red Label discs exceed the most exacting needs for highest quality professional recordings. Yellow Label for general use.

Stock No.	Size	Label	Base	Wt., Ea.	Lbs., Pkg.	Std. Pkg.	PACKAGE OF 25
15 D 8050	10"	Red	.040"	6 oz.	8½	25	27.20
15 D 8051 X	12"	Red	.050"	9 oz.	13½	25	47.04
15 D 8052	10"	Yellow	.040"	6 oz.	8½	25	23.28
15 D 8053 X	12"	Yellow	.050"	9 oz.	13½	25	37.24

Knight and Scotch Recording Tape and Accessories

KNIGHT

COMPLETE SELECTION OF TAPE FOR ALL RECORDING NEEDS

- Precision-Made for Business and Industry
- Deep Lubricated
- Coated for Extended Frequency Response

Allied's own recording tape features deep-lubrication to reduce tape-head wear. Each reel guaranteed splice-free. All types except KN-10 are supplied in hinged, cellophane-sealed box. KN-10 correspondence tape is supplied in self-mailing carton.

TYPE KN-15 STANDARD 1½-MIL ACETATE. First choice for general-purpose recording. Red-oxide coated. Available in 600 ft. length on 5″ reel, or 1200 ft. on 7″ reel.
15 D 8951. 600-ft. Reel. Wt., ½ lb. 1-4......Each .99
5-Up......Each .90
15 D 8952. 1200-ft. Reel. Wt., 1 lb. 1-4......Each 1.59
5-Up......Each 1.49

TYPE KN-50 "PLUS-PLAY" 1-MIL "MYLAR." Extra strong to withstand rough handling. Available in 900 ft. length on 5″ reel or 1800 feet on 7″ reel.
15 D 8955. 900-ft. Reel. Wt., ¾ lb. 1-4......Each 1.69
5-Up......Each 1.56
15 D 8956. 1800-ft. Reel. Wt., 1½ lbs. 1-4...Each 2.49
5-Up......Each 2.25

TYPE KN-30 "PLUS-PLAY" 1-MIL ACETATE. Thinner than standard type. 1800 feet on 7″ reel. Red-oxide coated.
15 D 8954. Wt., 1¼ lbs. 1-4......Each 1.98
5-Up......Each 1.89

TYPE KN-12 1½-MIL POLYESTER. Double strength type. 1200 feet on 7″ reel. Shpg. wt., 1 lb.
15 D 8959. 1-4......Each 1.49
5-Up......Each 1.39

TYPE KN-60 ½-MIL "MYLAR." Ultra-thin, tensilized for stretch resistance. 2400 feet on 7″ reel. Wt., 1½ lbs.
15 D 8957. 1-4......Each 4.95
5-Up......Each 4.40

TYPE KN-10 ½-MIL "MYLAR" CORRESPONDENCE TAPE. Provides twice the standard playing time. In self-mailing carton. 300 feet on 3″ reel or 600 feet on 3¼″ reel. Wt., 8 oz.
15 D 8958. 300-ft. Reel. 1-4......Each .69
5-Up......Each .65
15 D 8967. 600-ft. Reel. 1-4......Each 1.20
5-Up......Each 1.09

"SCOTCH" BRAND QUALITY RECORDING TAPE AND ACCESSORIES

TYPE 111 STANDARD ACETATE

High quality, 1½-mil acetate recording tape for general purpose use. Silicone lubricated to protect heads and extend tape life. Has ½-mil red oxide coating, 1½-mil cellulose acetate backing. With molded plastic reels, except *aluminum NAB reel (3″ center hole). Av. wt., 8 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
15 D 8542	111-1.5	150′	3″	.46	.41
15 D 8547	111-6	600′	5″	1.47	1.35
15 D 8548	111-12	1200′	7″	2.29	2.05
15 D 8549	111-25RO*	2500′	10½″	7.06	6.35

TYPE 150 EXTRA-LENGTH 1-MIL POLYESTER

Provides 50% more playing time than same reel size with standard tape. Plastic reels, except *aluminum NAB reel with 3″ center hole. Av. shpg. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
15 D 8531	150-9	900′	5″	2.35	2.12
15 D 8532	150-18	1800′	7″	4.04	3.65
15 D 8533	150-36RO*	3600′	10½″	9.38	8.44

TYPE 151-16 LUBRICATED 1-MIL POLYESTER

For continuous-loop cartridge application. External lubrication on back side alone. 7″ reel contains 1600′ of tape. 1½ lbs.
15 D 8521......Each 3.45

TYPE 175 HEAVY-DUTY 1½-MIL "TENZAR"

Made with high-potency oxide coating. Resists heat, minimizes oxide rub-off. Lasts up to 15 times longer than ordinary tapes. Highly resistant to tearing, stretching. 5″ plastic reels contain 600′ tape, 7″ plastic reels contain 1200′. Av. shpg. wt., 10 oz.

Reel Size	Reel Color: Clear	Red	Blue	Green	Yellow	EACH 1-11	12Up
5″	15 D 8527	15 D 8506	15 D 8509	15 D 8517	15 D 8518	1.57	1.41
7″	15 D 8528	15 D 8520	15 D 8522	15 D 8523	15 D 8525	2.45	2.20

TYPE 190 EXTRA-LENGTH 1-MIL ACETATE

Thinner acetate base—gives you 50% more playing time than standard tape. Lets you record longer selections without reel-changes. Economical and space-saving, too. Plastic reels, except *aluminum NAB reel with 3″ center hole. Av. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
15 D 8550	190-9	900′	5″	2.29	2.05
15 D 8552	190-18	1800′	7″	3.60	3.23
15 D 8553	190-36RO*	3600′	10½″	8.36	7.53

TYPE 200 DOUBLE-LENGTH ½-MIL TENSILIZED POLYESTER

Super-strong, long-playing recording tape gives twice the recording time of standard tapes on same size reel. Tensilized polyester backing is pre-stretched for strength and thinness. The thin .38 mil high potency oxide coating retains the full output and sensitivity of standard oxide coatings. Exclusive Silicone lubrication lets tape glide smoothly over sensitive recording heads, for minimum friction and wear. The Silicone is impregnated through the coating, lasts the life of the tape. Type 200 tape gives high frequency response with increased efficiency; ideal for narrow-track recording. Available in 1200 foot length on 5″ plastic reel or 2400 foot length on 7″ plastic reel. Av. shpg. wt., 12 oz.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
15 D 8500	200-12	1200′	5″	3.56	3.20
15 D 8541	200-24	2400′	7″	6.20	5.58

TYPE 201, 202, 203 "DYNARANGE"

Professional quality. Provides 15% longer life, low-noise level and low-rub-off. Dynarange tapes offer the same high-frequency performance one normally expects only from high-resolution tapes. Superior signal-to-noise ratio makes it well-suited for transcribing tape-to-tape or tape-to-disc. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Base	Footage	EACH 1-11	12-Up
15 D 8535	201-6	1½-mil Acetate	600′	1.83	1.65
15 D 8504	201-12	1½-mil Acetate	1200′	2.87	2.59
15 D 8536	202-6	1½-mil Polyester	600′	1.86	1.68
15 D 8537	202-12	1½-mil Polyester	1200′	3.33	3.00
15 D 8538	203-9	1-mil Polyester	900′	2.77	2.50
15 D 8505	203-18	1-mil Polyester	1800′	4.80	4.32

TYPE 290 TRIPLE-LENGTH ½-MIL TENSILIZED POLYESTER

Gives you 200% longer playing time. Av. shpg. wt., 1½ lbs.

Stock No.	Type	Footage	Reel	1-11, EA.	12-Up, EA.
15 D 8304	290-18	1800′	5″	4.54	4.07
15 D 8545	290-36	3600′	7″	7.81	7.03

"LIVING LETTERS" MAILER WITH REEL OF TAPE

Plastic mailer meets new Postal Regulations. *Tensilized. 4 oz.

Stock No.	Mfr's Type	Base	Footage	EACH 1-11	12-Up
15 D 8300	111-¼-150-LL	1½-mil Acetate	150′	.59	.53
15 D 8301	200-¼-300-LL	½-mil Polyester*	300′	1.21	1.10
15 D 8302	290-¼-600-LL	½-mil Polyester*	600′	1.93	1.74
15 D 8303	MT-MAILER-LL	Mailer w/empty 3″ reel		.39	.35

SCOTCH BRAND TAPE RECORDING ACCESSORIES

TYPE 24 LEADER AND TIMING TAPE. 100′ length. In self-dispensing container for added convenience. Shpg. wt., 3 oz.
15 D 8569. White. 1-11......Each .59 12-Up......Each .53
15 D 8568. Yellow. 1-11......Each .59 12-Up......Each .53

TYPE 21-10 LEADER TAPE. Special anti-static coating. White plastic tape. 1000′ on 7″ plastic reel. Sturdy storage box. 10 oz.
15 D 8546. 1-11......Each 2.94 12-Up......Each 2.63

TYPE 41-½-S SPLICING TAPE. Coated on one side with non-run adhesive. ½x150″. Handy dispenser package. Shpg. wt., 3 oz.
15 D 8557. 1-11......Each .38 12-Up......Each .34

TYPE 51-7/32S ALUMINIZED SENSING TAPE. For recorders with automatic "stop" and "reverse." Adhesive on one side, foil on the other. 7/32x150″. Dispenser package. Shpg. wt., 3 oz.
15 D 8577. 1-11......Each 1.67 12-Up......Each 1.48

EMPTY PLASTIC TAKEUP REELS

Each with convenient index box. Buy in larger quantities—Save.

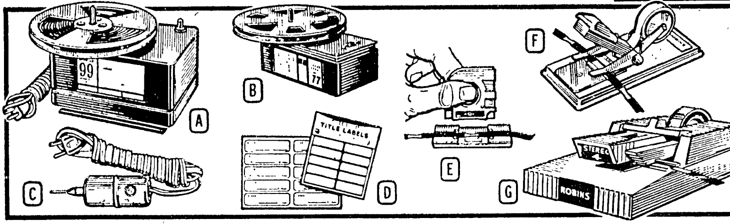
Stock No.	Reel Size	Shpg. Wt.	1-11 EACH	12-Up EACH
15 D 8559	3″	4 oz.	.16	.14
15 D 8558	5″	4 oz.	.43	.38
15 D 8556	7″	4 oz.	.49	.44

PRST-7 EMPTY SELF-THREADING REEL. Perfect for business uses where time and efficiency are such important factors. 7″ clear plastic reel takes the time and tedium out of tape threading. Just place the end of the tape on the hub of the self-threading reel—your recorder does the rest. Shpg. wt., 8 oz.
15 D 8014. 1-11......Each .98 12-Up......Each .88

Premium Tape Heads and Accessories

ROBINS TOP-QUALITY TAPE RECORDING ACCESSORIES

ROBINS



[A] **ME-99 BULK TAPE ERASER.** Lowers residual noise 3 to 6 db below most erase-head levels. For reels to 10½" dia.; tapes to ½" wide. 5½x6¾x3¾". For 110-120 v., 50-60 cycle AC. U.L. Listed. 8½ lbs.
15 D 8114........................27.60

[B] **ME-77 BULK TAPE ERASER.** 2-4 db erasure. Reels to 7"; ¼" tapes. 2½x6¼x3¾". For 110 v., 60 cycle AC. 5 lbs.
15 D 8130........................15.90

[C] **HD-6 TAPE HEAD DEMAGNETIZER.** Removes residual magnetism from tape head for better performance. 4⅝x1¼" dia. For 110 v., 60 cycle AC. U.L. Listed. 1 lb.
15 D 8154........................5.99

[D] **SL-30 REEL MARKING LABELS.** Adhesive backed. Write or type heads. 2 oz.
15 D 8124.............Pkg. of 30 for .27

RH-2 TAPE REEL HOLDERS. (Not illus.) Pkg. of 2 holders. Shpg. wt., 3 oz.
15 D 8122..................Per Pkg. .59

HC-2 TAPE HEAD CLEANER. (Not illus.) Removes dirt, oxides. 2 fluid ounces. With applicator, instructions. Shpg. wt., 4 oz.
15 D 8113........................59

RC-2-22 TAPE HEAD LUBRICANT. (Not illus.) 2 fluid ounces. Shpg. wt., 4 oz.
15 D 8206........................59

[E] **SP-4 "SEMI-PRO" TAPE SPLICER.** Tape guide has adhesive back; hand-held cutter has blade cover. Makes diagonal cuts and "Gibson Girl" trim cuts. 3 oz.
15 D 8150........................1.49

[F] **TS-4S "STEREO 4" STANDARD SPLICER.** Splices 4-track tapes—does not affect program material on outside tracks. Cuts tape diagonally, cuts tiny trims on sides—prevents adhesive contact with recorder parts. Replaceable cutter cartridge, blade centering adjustment, integral tape dispenser. Metal and plastic. With 100' of ⅜" splicing tape, dust cover. 12 oz.
15 D 8192........................5.70
15 D 8200. RK-3 Replacement Cutter Cartridge and 2 Cutting Pads. For above. 3 oz. .90

[G] **TS-8D "STEREO 4" DELUXE SPLICER.** As above, plus "see-thru" windows that show operating positions for precise editing. Features super-strong, deluxe "Implex" construction. Includes 100' of ½" splicing tape. Shpg. wt., 1 lb.
15 D 8142........................7.65
15 D 8190. RK-8 Replacement Cutter Cartridge and 2 Cutting Pads. For above. 3 oz. .90

SPLICING TAPE

Not illus. "Mylar" with adhesive back. 100' length wound on 1" core.

Stock No.	Type	Width	Oz.	EACH
15 D 8202	ST-234	¼"	2	.24
15 D 8203	ST-375	⅜"	2	.27
15 D 8155	ST-500	½"	2	.30
15 D 8204	ST-750	¾"	2	.45

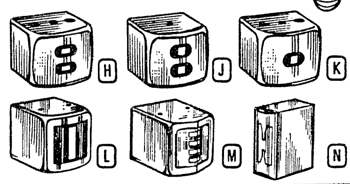
NO-MOUNT 4-TRACK AND 2-TRACK STEREO AND MONOPHONIC HEADS

Record/Playback Heads. New premium, fine-laminated cores, hyperbolic all-metal faces, deposited-quartz gaps. 40-15,000 cps @ 7½ ips. Crosstalk rejection 55 db on stereo heads. Av. shpg. wt., 6 oz.

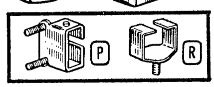
Erase Heads. Efficient double-gap types with all-metal cases. 60-kc operating voltage rms: high-impedance, 120 volts; medium-impedance, 40 volts. Av. shpg. wt. per head, 6 oz.

Stock No.	Mfrs Type	Fig.	Description	Ind. Mhy	Gap μ in.	EACH
15 D 8972 S	1200	H	4-tr. stereo R/P high-imp. for tubes	800	100	28.20
15 D 8973 S	1201	H	4-tr. stereo R/P med.-imp., tubes/trans.	400	100	28.20
15 D 8974 S	1202	H	4-tr. stereo R/P low-imp. for trans.	100	100	28.20
15 D 8975 S	1203	H	4-tr. stereo Record only, tubes/trans.	50	500	28.20
15 D 8976 S	2001	J	2-tr. stereo R/P med.-imp., tubes/trans.	400	100	30.30
15 D 8977 S	2002	J	2-tr. stereo R/P low-imp. for trans.	100	100	30.30
15 D 8978 S	2003	J	2-tr. stereo Record only, tubes/trans.	50	500	30.30
15 D 8991 S	2007	J	2-tr. stereo R/P med.-low imp. for trans.	200	100	30.30
15 D 8863 S	2601	K	2-tr. mono R/P med.-imp., tubes/trans.	400	100	15.90
15 D 8864 S	2602	K	2-tr. mono R/P low-imp. for trans.	100	100	15.90
15 D 8865 S	2603	K	2-tr. mono Record only tubes/trans.	50	500	15.90
15 D 8992 S	3000	N	2-tr. mono R/P high-imp. for tubes	800	100	8.40
15 D 8993 S	3001	N	2-tr. mono R/P med.-imp., tubes/trans.	400	100	8.40
15 D 8979 S	4100	L	Full-track R/P med.-imp., tubes/trans.	250	160	34.70
15 D 8980 S	5602	M	4-channel R/P low-imp., tubes/trans.	90	100	99.00

Nortronics



Use hardware below for mounting heads at left



"QUIK-KIT" HARDWARE

Quickly and easily adapts no-mount heads listed in the table at left, to side or base-mount styles. Shpg. wt., 4 oz.

For Heads	Side-Mount (P) Stock No.	QK-	Base-Mount (R) Stock No.	QK-
Ser. 3000	15 D 8684 S	20	15 D 8688 S	21
Other R/P	15 D 8850 S	38	15 D 8852 S	66
All Erase	15 D 8851 S	18	15 D 8853 S	19

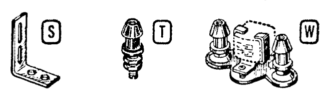
ABOVE KITS....................Each 1.00

REPLACEMENT HEADS FOR AMPEX RECORDERS

Supplied less mounting. Require QK-76 mounting (below) except *requires QK-66 (at right)

Stock No.	Mfr's Type	For Ampex Model	Description	EACH
15 D 8281 S	8001	300, 350, 354, 400 Series	Record, full-track	36.00
15 D 8282 S	8000		Play, full-track	36.00
15 D 8283 S	8109		Erase, full-track (Except 300 series)	30.00
15 D 8284 S	8106		Erase, full-track (300 series only)	30.00
15 D 8285 S	8401	PR-10, 600, 900, 1200 Series*	Record mono, 2-track	22.00
15 D 8286 S	8400		Play mono, 2-track	22.00
15 D 8287 S	8504		Erase mono, 2-track	18.00
15 D 8288 S	8201	PR10, 600, 900, 1200 Series	Record stereo, 2-track	32.00
15 D 8289 S	8200		Play stereo, 2-track	32.00
15 D 8290 S	8304		Erase stereo, 2-track	26.00
15 D 8291 S	8604	PR10, 600, 900, 1200 Series	Record stereo, 4-track	30.00
15 D 8292 S	8600		Play stereo, 4-track	30.00
15 D 8293 S	8701		Erase stereo, 4-track	26.00
15 D 8294 S	8004	3200	Record, full track	40.00
15 D 8295 S	8214		Record stereo, 2-track	32.00
15 D 8296 S	8614		Record stereo, 4-track	30.00
15 D 8297 S	8414		Record mono, 2-track	22.00

RECORDER ACCESSORIES



[S] **L-5 MOUNTING BRACKET.** Universal, for side-mount erase and record/play heads.
15 D 8796. Wt., 3 oz................50

[T] **TG-7 TAPE-GUIDE POST.** Adjustable height. Chrome-plated brass.
15 D 8795. Shpg. wt., 3 oz..........1.00

[W] **"QUIK-KIT" 75.** Single-head nest, for any record/play head. Adj. bracket, guides.
15 D 8891 S. Shpg. wt., 6 oz........4.00

AT-100 ALIGNMENT TAPE. (Not illus.) Full-track, 7½ ips. Checks recorder azimuth alignment and frequency response. 8 oz.
15 D 8111........................4.95

T60F BIAS OSCILLATOR COIL. (Not illus.) For 12AU7 tube circuit record preamps. Supplies 40-120 v. at 60-100 kc for erase and record heads listed above. 6 oz.
15 D 8894 S......................4.50

T60-T2 COIL. As above, for preamps with single-end or push-pull transistor circuits.
15 D 8895 S. Shpg. wt., 6 oz........4.50

FOR SPECIFIC CONVERSION AND REPLACEMENT DATA

Write our Technical Service Dept. Specify recorder mfr's name, model no., track style or tape head part number.

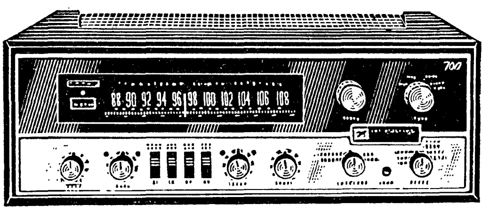
PROFESSIONAL HEAD MOUNTING BRACKETS

TYPE QK-76. For Ampex replacement heads above. Adapts Nortronics head to shield cup of Ampex head next. Kit contains precision aluminum block, hardware.
15 D 8298. With full instructions. Wt., 2 oz....12.00

TYPE QK-35. Base-mount bracket kit adapts no-mount heads to replace Brush heads, others needing large stud.
15 D 8299. Stud, ¼-28x⅝". Wt., 2 oz...........2.00

Famous-Name Solid-State Stereo Components

FISHER



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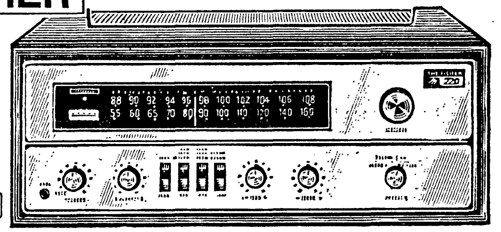
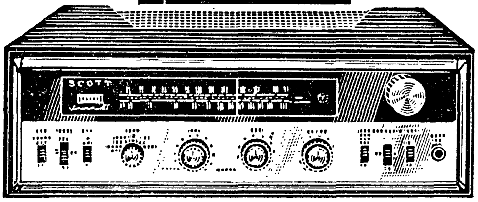


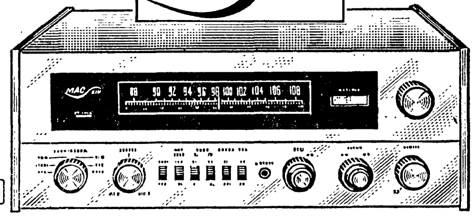
C

SCOTT®



B

MAC 1500



D

A NEW FISHER 700T 120-WATT STEREO FM RECEIVER

This sophisticated receiver combines superlative performance with unlimited control versatility. Deluxe solid-state circuit delivers 60 watts of power on each channel for superb performance with any speaker system. Ultra-sensitive FM circuit has "Super Synchrode" Field effect front-end, 4 IF stages, 3 limiters, variable interstation muting control, and tuning meter. "Stereo Beacon" signals stereocasts, automatically switches to stereo mode. Power Output: 120 watts IHF, 45 watts per channel sine wave. Response: ±1 db, 20-25,000 cps. IHF FM Sensitivity: 1.8 μv. Outputs: 4 to 16 ohms; stereo headphones; recording. 5⅛x16¾x11⅞". Optional case below. For 110-120 v., 60 cycle AC.

13 D 2648 U. Shpg. wt., 36 lbs........................**424.58**

13 D 2633 X. Oiled Walnut Wood Case. 9 lbs..............22.45

B NEW SCOTT 382 65-WATT STEREO FM-AM RECEIVER

Newest circuitry for superb stereo FM, *plus* major refinements for amazingly clear AM. Automatic variable bandwidth and automatic gain control on AM assure peak reception under all conditions. Field-Effect-Transistor front-end for extra sensitivity on FM *and* AM. Silicon transistors in IF and output stages for wider response. Stereo FM indicator, automatic stereo switching. 3 stereo inputs. IHF Power: 65 watts at 4 ohms; 50 at 8 ohms. ±1 db, 18-25,000 cps. FM Sensitivity: 2 μv. Outputs: 4 to 16 ohms; stereo headphone; recording. 4½x15x14" deep. Metal chassis enclosure. Optional case, below. For 110-120 v. 50-60 cycle AC.

13 D 2032 U. Shpg. wt., 14 lbs......................**299.95**

13 D 2001 X. Simulated-Leather-Finish Metal Case. 5 lbs......11.85

13 D 2002 X. Oiled Walnut Wood Case. Wt., 5 lbs.........20.82

C NEW FISHER 220T 55-WATT STEREO FM-AM RECEIVER

Famous Fisher quality and styling in a *low-cost* solid-state receiver, equipped for outstanding stereo-FM *and* AM reception. Has newest circuitry, 4 wideband IF amplifiers, 3 limiters, between-station silencing control, tuning meter, "Stereo Beacon". Special 4-gang front-end pulls in distant stations with unusual clarity, yet handles strong signals without overloading. Includes convenient tape monitor facilities and speaker selector switch. Has full array of inputs; power output: 55 watts IHF at 4 ohms, 40 watts at 8 ohms. Response: ±1.5 db, 25-20,000 cps. FM sensitivity: 2.5 μv, IHF. Outputs: 4 to 16 ohms; recording; stereo headphone. 5⅛x16¾x11⅞". Optional case, below. 105-120 v., 50-60 cycle AC.

13 D 2078 U. Shpg. wt., 17 lbs.......................**280.08**

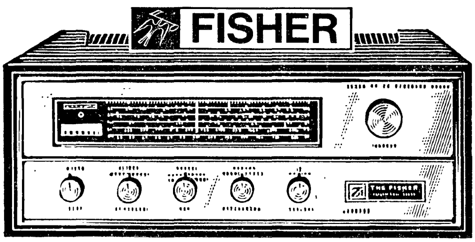
13 D 2633 X. Oiled Walnut Wood Case. Wt., 9 lbs.........22.45

D NEW MAC 1500 85-WATT STEREO FM RECEIVER

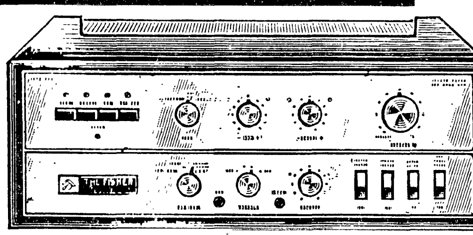
From quality-conscious McIntosh comes this magnificent new stereo receiver. Features the finest in both solid-state and tube circuitry. Includes illuminated D'Arsonval tuning meter, *silicon* transistors in preamp for amazing stability and clarity of sound, interstation muting control, automatic stereo-mono FM switching, stereo indicator light. Has tape monitor switch, full array of inputs and controls. Power Output: 85 watts total IHF; 60 watts continuous. Response: ±1 db, 20-20,000 cps. Usable FM Sensitivity: 2.5 μv. Outputs: 4, 8, 16 ohms; stereo headphone; recording. 36 semiconductors, plus 15 tubes. 5½x16x16". Optional case, below. For 110-120 v., 60 cycle AC.

13 D 2286 Z. Shpg. wt., 54 lbs.......................**499.00**

13 D 2287 X. Oiled Walnut Wood Case. 12 lbs.............29.00



E



F

E NEW FISHER R-200-B STEREO FM-AM-LW-SW TUNER

Outstanding stereo FM, and AM, *plus* longwave and shortwave reception of a quality usually offered only by professional equipment. Latest solid-state circuitry delivers spectacular stereo-FM realism; tunes standard AM, 150-350 kc longwave, and shortwave from 5.9-6.3 mc and 7-16.5 mc. AM circuit has tuned RF amplifier and AGC on 3 stages for highly reliable reception on all four AM bands. AM bandwidth selector (normal, sharp, wide) matches all receiving conditions. 10-kc whistle filter. Tuning meter. Built-in static-shielded AM-LW antenna. Terminals for external SW, FM antennas. 4^{13}⁄$_{16}$x15⅛x13". Optional case, below. For 110-135 v./200-250 v., 50-60 cycle AC.

13 D 2646 U. Shpg. wt., 23 lbs......................**297.08**

13 D 2629 X. Oiled Walnut Wood Case. Shpg. wt., 9 lbs....22.45

F FISHER TX-300 100-WATT STEREO AMPLIFIER

This magnificent amplifier pours out 100 watts of power to recreate the full orchestral range, effortlessly and without distortion. Total-command control panel assures full versatility. Four pushbuttons, with indicator lights, for tuner, tape, low-level and auxiliary inputs. Four position switch selects tape recorder, phonos, and mike. Rocker switches for tape monitor, low and high filters, loudness contour. Power: 100 watts IHF. Frequency response: ±1 db, 20-25,000 cps. Hum and Noise: —80 db. Outputs: 4-16 ohms; stereo headphones; recording: 4^{13}⁄$_{16}$x15⅛x11⅞". Optional case, below. For 110-120 v., 60 cycle AC.

13 D 2624 U. Shpg. wt., 30 lbs.......................**280.08**

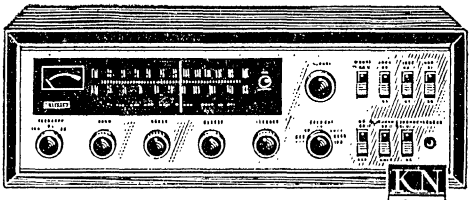
13 D 2629 X. Oiled Walnut Wood Case. Wt., 9 lbs..........22.45

See Allied's Catalog 260 for A Complete Array of Stereo Components

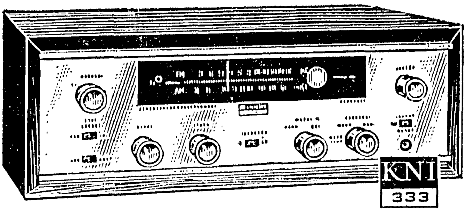
Quality-Crafted Stereo Components

KNIGHT

ALLIED'S OWN KNIGHT STEREO FM-AM RECEIVERS



Shown in wood cases

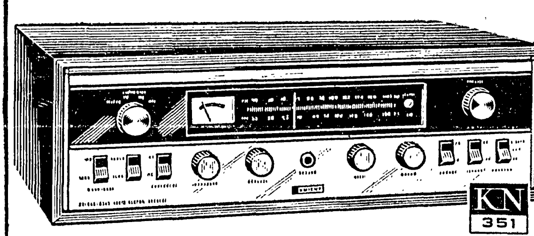


KN-376 70-WATT SOLID-STATE STEREO FM-AM RECEIVER

Knight's finest hi-fi receiver. Boasts 44 semiconductors, 4 IF/limiter stages and 3-gang tuning capacitor. 20-20,000 cps. 70 watts IHF; 20 watts per channel rms. Harmonic Distortion: 1%. IHF FM Sensitivity: 3 μv; 2 μv for 30 db quieting. Outputs: 4-16 ohms, headphone jack. Separation: 30 db. 5x16¾x13". Order case, below. For 110-125 v., 60 cycle AC.

14 D 5095 U. Shpg. wt., 19 lbs. 249.95
14 D 5094 X. Brown Metal Case. Shpg. wt., 5 lbs. 9.95
14 D 5123 X. Oiled Walnut Wood Case. Shpg. wt., 5½ lbs. ... 19.95

NEW KN-351 56-WATT SOLID-STATE STEREO FM-AM RECEIVER



- Ultra-Reliable Advanced Solid-State Circuitry
- 4 IF Amplifier Stages for Maximum Selectivity
- Internally Shielded for Hum-Free Operation

This solid-state receiver has all the features to give you excellent stereo reproduction from all music sources. Has precise RIAA equalization for magnetic cartridges. Inputs for ceramic, crystal phono, and auxiliary sources. Bass, treble, loudness, and balance controls. Power output: 56 watts IHF; 28 watts per channel at 4 ohms; 18 watts per channel rms. Response: ±1 db, 20-20,000 cps. Harmonic Distortion: 1%. FM Sensitivity: 3 μv IHF; 2.25 μv for 20 db quieting. Separation: 30 db. Outputs: 4-16 ohms; stereo headphones; recording. 26 transistors, 20 diodes. Built-in AM antenna; external FM ant. With brown metal case. Order deluxe wood case, below. For 105-125 v. 60 cycle AC.

14 D 5527 U. Shpg. wt., 21 lbs. 199.95
14 D 5006 X. Oiled Walnut Wood Case. Wt., 6 lbs. .. 19.95

KNI-333 LOW-COST 32-WATT STEREO FM-AM RECEIVER WITH METAL CASE

Excellent stereo FM at a modest price, plus AM and inputs and outputs for every stereo and mono application. "Magic-Eye" tuning. AFC. FM Sensitivity: 2.5 μv for 20 db quieting. Separation: 30 db. Power output: 64 watts peak; 32 watts IHF, 16 per channel; 12 per channel rms. ±2 db, 20-30,000 cps. Harmonic Distortion: below 1%. 13 tubes; tuning eye, 2 silicon rectifiers, 8 diodes. Built-in AM antenna; dipole FM antenna. Outputs: 8, 16 ohms; stereo headphones; recording; tape-source monitoring. With metal case. Deluxe walnut case below. 5⅜x15¹³⁄₁₆x13⁹⁄₁₆". For 110-127 v. 60 cycle AC. Manufactured in Japan to Allied's specs.

14 D 5073 U. Shpg. wt., 28 lbs. 149.95
14 D 5075 X. Oiled Walnut Wood Case. Shpg. wt., 5 lbs. 14.95

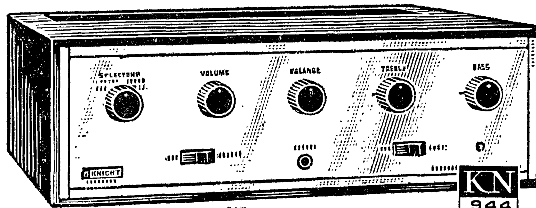
NEW SOLID-STATE STEREO COMPONENTS

KN-944 44-WATT SOLID-STATE STEREO AMPLIFIER

- Deluxe Solid-State Circuitry Has 20 Transistors and Diodes
- Complete Array of Controls to Accommodate Every Music Source

An excellent stereo hi-fi value! Power output: 44 watts IHF, 22 watts per channel; 17 watts per channel rms at 8 ohms. ±1 db, 20-20,000 cps. Distortion: less than 1.0%. Outputs: 4-16 ohms, stereo headphones. Controls: selector; volume; balance; treble; bass; mono/stereo; power on/off. Size, 4½x13⅞x12¾". Order case, below. For 110-120 v. 60 cycle AC.

14 D 5514 U. Shpg. wt., 15 lbs. 99.95
14 D 5038 X. Brown Metal Case. Shpg. wt., 4 lbs. 6.50
14 D 5009 X. Oiled Walnut Wood Case. Shpg. wt., 6 lbs. 14.95

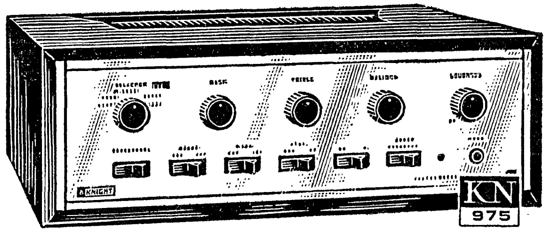


Both units shown in wood cases

KN-975 75-WATT SOLID-STATE STEREO AMPLIFIER

Knight's finest all-transistor stereo amplifier! Power output: 75 watts IHF, 20 watts per channel rms. at 4 ohms. Response: ±1 db, 20-20,000 cps. Harmonic distortion: less than 1.0%. Hum and noise: —80 db. Outputs: 4, 8, or 16 ohms, stereo headphones, tape recorder. Selector, bass, treble, balance, loudness-volume, hi-cut, lo-cut, mono/stereo, loudness, power, tape monitor, spkr. switch. 23 semiconductors. 4½x13⅞x12¾". 105-130 v., 60 cycle AC.

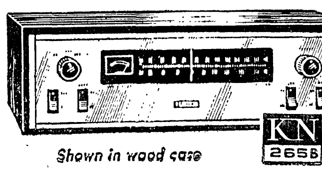
14 D 5403 U. Shpg. wt., 21 lbs. 149.95
14 D 5038 X. Brown Metal Case. Shpg. wt., 4 lbs. 6.50
14 D 5009 X. Oiled Walnut Wood Case. Shpg. wt., 6 lbs. 14.95



KN-265B SOLID-STATE HIGH-FIDELITY STEREO FM-AM TUNER

Improved version of last year's outstanding KN-265A gives excellent stereo FM reception and high-quality AM. Has AFC, dynamic sideband regulation, FM tuned RF stage with 3-gang capacitor, 4 IF/limiter stages, local distance switch, wide-band ratio detector. AM has tuned RF stage, 10-kc filter. FM sensitivity: 2 μv for 20 db quieting; 3 μv IHF. Response: ±½ db, 20-25,000 cps. Channel Separation: 30 db. Outputs: 2 low-impedance for amplifier; 2 high impedance for recorder. 17 transistors, 8 diodes, rectifier. 4½x13⅞x12". With FM, AM antennas, two 3' audio cables. Order case, below. 110-127 v., 50-60 cycle AC.

14 D 5507 U. Wt., 14 lbs. 149.95
14 D 5038 X. Brown Metal Case. 4 lbs. . 6.50
14 D 5009 X. Walnut Case. 6 lbs. 14.95



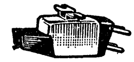
Shown in wood case

Garrard

Buy a Garrard Automatic Turntable and choose a famous-name stereo cartridge for 1c more

Choose an Elliptical Cartridge for 1¢ More

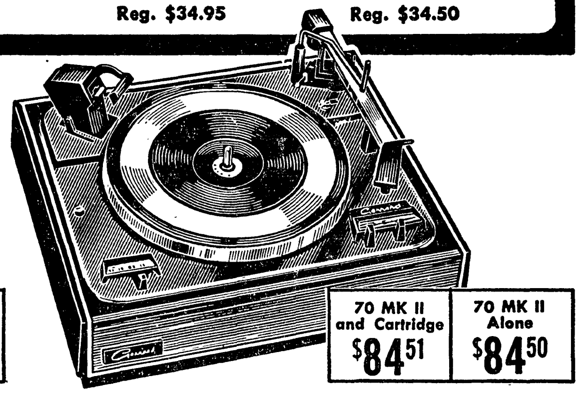

Empire 888E
Reg. $34.95


Pickering V-15/ATE-2
Reg. $34.95


Shure M44E
Reg. $34.50

Made in Great Britain

LAB 80 MK II and Cartridge	LAB 80 MK II Alone
$99.51	$99.50



70 MK II and Cartridge	70 MK II Alone
$84.51	$84.50

LAB 80 MK II WITH STEREO ELLIPTICAL CARTRIDGE

Garrard's newest and finest turntable with these important new advances: new easy-to-read control center; new stylus-safety turntable mat; new automatic manual play of a single record; hydraulic controlled cuing/pause device; new continuous-repeat feature. Also has dynamically balanced Afrormosia wood pickup arm; heavy 12" cast turntable. Tabs select 33⅓ or 45 rpm, automatic or manual, and 7", 10", or 12" record size. 17x14¾". Requires 5½" above, 3½" below mtg. board. Order base and 45-rpm automatic spindle below. For 110-130 v. 60 cycle AC. Shpg. wt., 22 lbs.
13 D 0027 CU. Specify 888E, V-15/ATE-2 or M44E...........99.51
13 D 3160 U. LAB MK II 80 Alone..........................99.50

LAB 80 MK II WITH DELUXE ELLIPTICAL CARTRIDGE

Above, with Empire 888SE (reg. $44.95), Pickering V-15/AME-3 (reg. $44.95), or Shure M80E (reg. $38.00) for *only $5 more.* 22 lbs.
13 D 0028 CU. Specify Cartridge.......................104.50

70 MK II WITH STEREO ELLIPTICAL CARTRIDGE

Latest version of famous A70 for superb automatic or manual record playing. Dynamically balanced arm combines low mass with adjustable bias compensator, counterbalance, and stylus pressure scale for low tracking force, clean reproduction. Gentle pusher-platform changing mechanism and frictionless pickup-arm trim mechanism. 6-lb. turntable turns precisely at 16⅔, 33⅓, 45 or 78 rpm. Slide levers select speed, automatic or manual operation. 16x13¼". Requires 5½" above, 3½" below mtg. board. Order base, 45-rpm spindle (below). For 110-130 v. 60 cycle AC. Shpg. wt., 20 lbs.
13 D 0046 CU. Specify 888E, V-15/ATE-2 or M44E...........84.51
13 D 3161 U. 70 MK II Alone............................84.50

70 MK II WITH DELUXE ELLIPTICAL CARTRIDGE

Above, with Empire 888SE (reg. $44.95), Pickering V-15/AME-3 (reg. $44.95), or Shure M80E (reg. $38.00) for *only $5 more.* 20 lbs.
13 D 0047 CU. Specify Cartridge.........................89.50

Stereo Elliptical Cartridge Only 1c More

60 MK II With Cartridge	60 MK II Alone
$74.51	$74.50

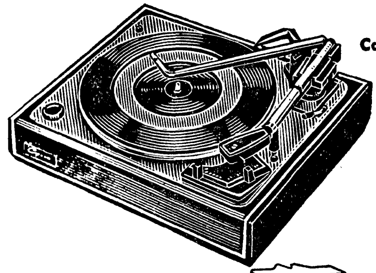
60 MK II WITH STEREO ELLIPTICAL CARTRIDGE

Advanced version of the AT60 with many new features. Includes new cuing lever, new turntable mat, new resilient counterweight to prevent rumble and resonance, new stylus pressure adjustment. Other deluxe features include dynamically balanced, tubular arm; bias compensator; frictionless trip mechanism; shielded 4-pole shaded motor to drive cast turntable at constant 16⅔, 33⅓, 45, or 78 rpm speeds. Automatic or manual operation. 15⅜x13". Requires 4⅞" above, 2⅞" below mtg. board. Order base, 45-rpm spindle (below). For 110-120 v. 60 cycle AC. 22 lbs.
13 D 0025 CU. Specify 888E, V-15/ATE-2, or M44E..........74.51
13 D 3162 U. 60 MK II Alone............................74.50

60 MK II WITH DELUXE ELLIPTICAL CARTRIDGE

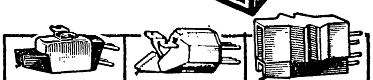
Above, with Empire 888SE (reg. $44.95) or Pickering V-15/AME-3 (reg. $44.95) for *only $5 more.* 22 lbs.
13 D 0026 CU. Specify Cartridge........................79.50

50 MK II WITH CHOICE OF STEREO CONICAL-TIP CARTRIDGE



With Cartridge $54.51 50 MK II Alone $54.50

A precision-made automatic turntable offering cuing lever, counterbalanced tubular arm with stylus pressure adjustment, and 4-pole shaded motor. 4-speed manual or automatic operation; automatic intermix. 13⅞x12"; requires 4½" above, 2⅞" below mtg. board. Order base, 45-rpm spindle at right. For 110-130 v. 60 cycle AC. Specify 888, V-15/AT-2, or M44-7.
13 D 0048 CU. 11 lbs.......54.51
13 D 3163 X. 50 MK II Alone.54.50


Empire 888 | Pickering V-15/AT-2 | Shure M44-7

WITH ELLIPTICAL CARTRIDGE

Above, with 888E, V-15/ATE-2, or M44E. Specify cartridge. 11 lbs.
13 D 0049 CU.............59.50

GARRARD ACCESSORIES

COORDINATED BASES. Shpg. wt., 5 lbs.
13 D 3152 X. CB8. For 70 Series......5.50
13 D 3151 X. CB9. Lab 80 Series.....5.50
13 D 5153 X. CB10. 60 and 50 Series..4.50

45-RPM AUTOMATIC ADAPTERS. Wt., 10 oz.
13 D 3083. LRS-3. For 70 Series.......5.95
13 D 3126. LRS-9. Lab 80 Series......5.95
13 D 3087. LRS-20. 60, 50 Series......3.80

MOLDED DUST COVERS. Shpg. wt., 2 lbs.
13 D 3154 X. DC89. Lab 80, 70 MK II.5.50
13 D 3165 X. DC10. 60 and 50 MK II.4.50

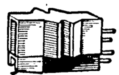
MOUNTING BOARDS. Shpg. wt., 2 lbs.
13 D 3059 X. MB8. For 70 Series..... 2.25
13 D 3128 X. MB9. Lab 80 Series.....2.25
13 D 3060 X. MB10. 60 and 50 Series.2.25

EXTRA PLUG-IN HEADS. Shpg. wt., 6 oz.
13 D 3111. M8. For use with Lab 80 and 70 Series..........................2.50
13 D 3112. M7. For use with 60 and 50 Series turntables.................. 1.75

Choose an Elliptical Cartridge for 1¢ More


Empire
888E
Reg. $34.95


Pickering
V-15/ATE-2
Reg. $34.95


Shure
M44E
Reg. $34.50

WITH PURCHASE OF KN 990A CHANGER

KNIGHT

Choose 1 of 3
Elliptical Cartridges
for Only 1¢ More

KN-990A 4-SPEED CHANGER WITH CARTRIDGE BONUS

KN 990A and Cartridge 47^{96} less base

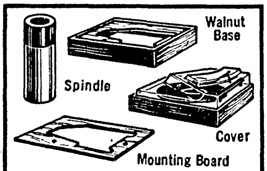
KN-990A Alone 47^{95} less base

KN 990A

- High-Torque 4-Pole Motor Assures Constant Speed
- Lightweight Pickup Arm Has Adjustable Needle Pressure
- Extremely Low Rumble and Wow Specifications

Combines automatic convenience with turntable precision. High-torque, 4-pole motor drives big 11″ turntable at exact speeds of 16⅔, 33⅓, 45 and 78 rpm. Lightweight, professional-type tubular pickup arm tracks with unerring accuracy. Has an integral needle-pressure and balance gauge calibrated from 0-5 grams. Mixes all-size records of the same speed, and has last-record shutoff. Soft-rubber mat. Easy-to-operate mechanism for true manual playing. Only 14x12″. Requires 3½″ below, 5″ above mounting board. With template and cables. Order optional base, below. For 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.
14 D 0070 CDX. KN-990A; Choice of 888E, V-15/ATE-2, M44E—Specify. 47.96
14 D 5458 X. KN990A Record Changer Alone......................47.95

KN-990A RECORD CHANGER ACCESSORIES

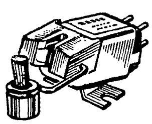


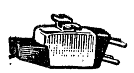
WALNUT WOOD BASE. For shelf or table use. Shpg. wt., 3 lbs.
14 D 5457 X....................4.95
UNFINISHED MOUNTING BOARD. For custom installation. Shpg. wt., 3 lbs.
14 D 5609 X....................1.50
45-RPM SPINDLE ADAPTER. Wt., 10 oz.
14 D 5462....................1.69
MOLDED VINYL DUST COVER.
14 D 5469 X. Wt., 1½ lbs.......4.75

THE KN-990A BOASTS THESE DELUXE FEATURES

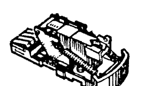
- High-Torque Constant-Speed 4-Pole Motor
- Mechanism Disengages for Manual Operation
- Pickup Arm Has Adjustable Needle Pressure
- Plug-In Head Accepts Most Stereo Cartridges

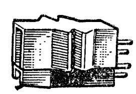
SELECTION OF FAMOUS-NAME STEREO CARTRIDGES


V15/AME-3


V15/AME-2


888SE, 888E, 888


M80E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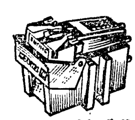
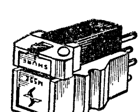

V15-II


M55E

PICKERING

V-15/AME-3 ELLIPTICAL "DUSTAMATIC". Pickering's newest and finest stereo cartridge offers superb, natural wide-range fidelity. Features a high-compliance 15° elliptical diamond stylus with unique Dustamatic brush that automatically cleans the grooves without affecting tracking force. Also improves stability by preventing pickup arm from skating. Response: 10-25,000 cps. Separation: 35 db. Tracks at ¾ to 1½ grams.
13 D 3890 S. Shpg. wt., 3 oz........44.95

V15/AME-2 15° ELLIPTICAL-STYLUS CARTRIDGE. Similar to above, but without Dustamatic brush. 20-20,000 cps. Shpg. wt., 3 oz.
13 D 3895 S......................39.95

EMPIRE

NEW 888SE SUPER-ELLIPTICAL CARTRIDGE. Empire's finest cartridge ever. Has 15° diamond stylus (.0007″x.0003″) literally hand selected and hand polished for improved tracking and freedom from distortion. New extended response is an amazing 6 to 32,000 cps. Separation: 30 db. 25x10—6 cm/dyne. Tracks at ½ to 3 grams.
13 D 3991 S. Wt., 4 oz...........44.95

NEW MODEL 888E ELLIPTICAL. Fine elliptical performance at lower cost. 15° .0009″x.0004″ stylus. 10-30,000 cps. 12x10—6 cm/dyne. 30 db separation. ¾ to 6 grams. Wt., 4 oz.
13 D 3992 S....................34.95

MODEL 888 CONICAL STYLUS CARTRIDGE. 15° .0007″ diamond stylus. 12-24,000 cps. 30 db sep. 10x10—6 cm/dyne. 2-5 grams.
13 D 3985 S. Wt., 4 oz.............24.95

SHURE STEREO CARTRIDGES

M80E GARD-A-MATIC. Designed specifically for the Garrard Lab 80 and 70 turntables (original and new MK II versions). Incorporates Shure M55E cartridge (below, right) spring-mounted in Garrard-type pickup head for bounceproof, scratchproof performance. Unique safety spring-suspension retracts cartridge if force in excess of 1½ grams is applied.
13 D 3881 S. Shpg. wt., 6 oz........38.00
13 D 3884 S. Above, but mounted in Dual 1009SK pickup head...............38.00
13 D 3885 S. Above, for Dual 1019..38.00

NEW M44E STEREO ELLIPTICAL DYNETIC. Excellent performance at a remarkably low price. 15° .0007″x.0004″ diamond stylus. 20-20,000 cps. 15x10—6 cm/dyne. Over 25 db separation. 1¾-4 grams.
13 D 3887 S. Shpg. wt., 4 oz........34.50

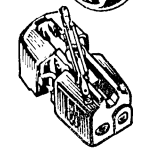
V-15 II "SUPER TRACK" 15° STEREO ELLIPTICAL DYNETIC. Shure's finest cartridge . . . professional quality. Features high-frequency tracking previously thought unattainable. Reproduces the entire audio range with amazing purity. Has .0007x.0002″ 15° diamond stylus that retracts under pressure to protect both stylus and record. Built-in stylus guard. 20-20,000 cps. Separation: over 25 db. 25x10-⁶ cm/dyne. Tracks at ¾ to 1½ grams.
13 D 3886 S. Shpg. wt., 6 oz.........67.50

M55E 15° STEREO ELLIPTICAL DYNETIC. Retractable diamond stylus at 15° angle for excellent tracking. Has .0007x.0002″ tip. 20-20,000 cps. 25x10—6 cm/dyne. Separation: 25 db. Tracks ¾ to 1½ grams.
13 D 3827 S. Shpg. wt., 6 oz........35.50

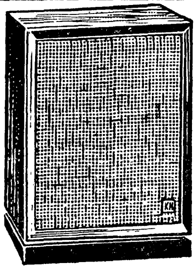
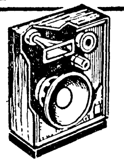
G.E. LOW-IMPEDANCE MONOPHONIC CARTRIDGES

Especially designed by General Electric to be used with broadcast and studio playback equipment with low impedance inputs. All styli may be easily replaced. Shpg. wt., 4 oz.

Model 4GS-02D. Equipped with .0025″ diamond stylus for 78's.
13 D 3313 S......................................7.53
Model 4GS-01D. Has .001″ diamond stylus for LP's.
13 D 3314 S......................................7.53
Model 4GD-01D-02D. Has .001″ diamond and .0025″ diamond dual stylus. Just turn knob to select proper tip.
13 D 3315 S......................................10.77
Model 4GD-01S-02S. Has .001″ synthetic sapphire and .0025″ synthetic sapphire dual stylus. Knob turns to select tip.
13 D 3316 S......................................6.99


IDEAL FOR BROADCAST USE

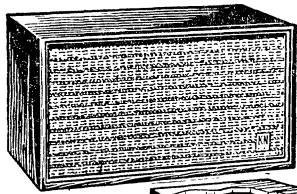
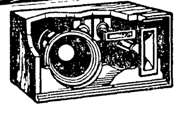
KNIGHT® Hi-Fi Speakers and Speaker Systems

Knight's Finest

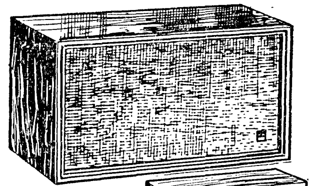
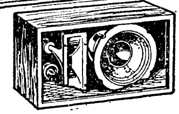
KN 2380

DELUXE 3-WAY 15″ SYSTEM. Contemporary floor model. Response is 20 cps to beyond audio range! 15″ woofer, 1¾-lb. ceramic magnet; compression-horn midrange; plus VHF dome radiator tweeter. 2 level controls. 50 watts, 100 watts peak. ¾″ hardwood. oiled walnut veneer. Black, detachable base. 30¼x20½x14″. 8 ohms. Shpg. wt., 55 lbs.
20 D 9514 Z. Express...... **149.95**

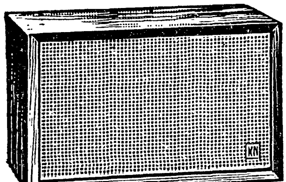
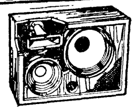
KN 2350A

3-WAY 12″ SYSTEM. Features 12″ acoustic-suspension woofer, high-compliance cloth surround, 1¾ lb. ceramic magnet. Compression driver midrange with diffraction horn. Compression-type VHF tweeter with rectangular horn. Response, 20 cps to beyond audio range. 35 watts, 70 watts peak. Requires 14 watts minimum. 2 level controls. Glass-wool filled. Walnut veneer, ¾″ hardwood. 14x25x13½″. 8 ohms.
20 D 9560 U. Shpg. wt., 49¼ lbs... **99.95**

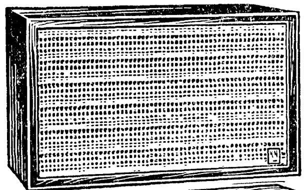
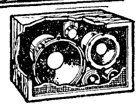
KN 2300BK

NEW 3-WAY 12″ SYSTEM KIT. Acoustic-suspension high-compliance system. 25-20,000 cps. 12″ woofer with 1½-lb. ceramic magnet. Compression-driver midrange, ring-radiator tweeter. 30 watts, 60 peak. ¾″ hardwood. New walnut molding, matching grille cloth. Rub in oil, included, for walnut veneer. 14x25x13½″. 8 ohms.
20 D 9518 U. Shpg. wt., 46 lbs..... **69.95**
20 D 9519 U. KN-2300B. Above, factory assembled, finished in oiled walnut.. **84.95**

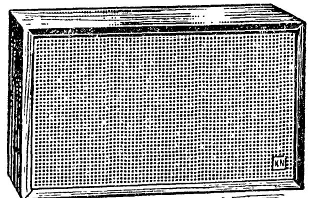
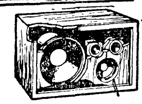
KN 2260K

3-WAY 12″ SYSTEM KIT. High-compliance 12″ woofer, ¾-lb. magnet. 8″ cone-type midrange. Compression tweeter, horn. 30-20,000 cps. 25 watts, 50 peak. With oil for oiled walnut veneer. 25x17x8″. 8 ohms.
20 D 9555 U. Shpg. wt., 40 lbs..... **59.95**
20 D 9556 U. KN-2260. Above, factory assembled, finished in oiled walnut... **69.95**

KN 2330K

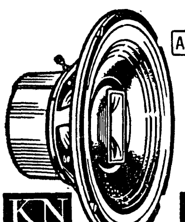
3-WAY 12″ SYSTEM KIT. 30-18,000 cps. 12″ woofer, "cloth-roll" suspension, 10-oz. Alnico V magnet. 8″ midrange, 3½″ tweeter 30 watts, 60 peak. Ducted-port reflex enclosure. ¾″ hardwood. With finishing oil for walnut veneer. 14½x24x10″. 8 ohms.
20 D 9509 U. Shpg. wt., 33 lbs..... **49.95**
20 D 9520 U. Assembled-finished.... **64.95**

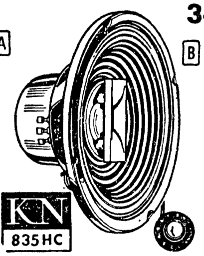



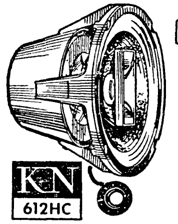
KN 3030AK

NEW 3-WAY 12″ SYSTEM KIT. 35-17,000 cps. 12″ high-compliance woofer, 10-oz. Alnico V magnet. 6″ cone-type midrange. 3½″ direct radiator cone tweeter. Tuned-port reflex. 30 watts, 60 peak. With finishing oil for walnut veneer. 14½x24x9″. 8 ohms.
20 D 9543 U. Shpg. wt., 28 lbs..... **39.95**
20 D 9545 U. Assembled-finished.... **54.95**

3-WAY SPEAKERS . . . TOP PERFORMERS AT LOW PRICES

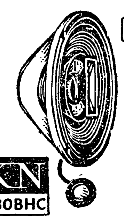
A

KN 615HC

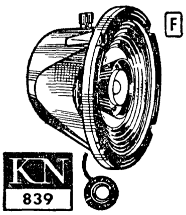
B

KN 835HC

C

KN 612HC

D

KN 888HC

E

KN 830BHC

F

KN 839

[A] **DELUXE 15″ 3-WAY SPEAKER.** Knight's finest speaker. Giant 15″ woofer, midrange, tweeter. Brilliance control. Resonance: 25 cps. Crystal-clear sound from 20-20,000 cps. 50 watts, 100 peak. Magnets: woofer, 5-lbs. ceramic; tweeter, 6.8-oz. Flux: woofer, 14,500 gauss; tweeter, 13,000. Mtg. Depth: 9⅛″. Imp.: 16 ohms.
20 D 9502 U. Shpg. wt., 31¼ lbs... **69.95**

[B] **NEW KN-835HC 15″ 3-WAY SPEAKER.** Boasts cloth-roll suspension woofer, radax-type midrange, super-tweeter. Brilliance control. 25-20,000 cps. Resonance: 30 cps. 40 watts, 80 peak. Magnets: woofer, 1¾-lb. ceramic; tweeter, 3.16-oz. Alnico V. Impedance: 16 ohms, 9″ deep. Shpg. wt., 18 lbs.
20 D 9522 U. **49.95**

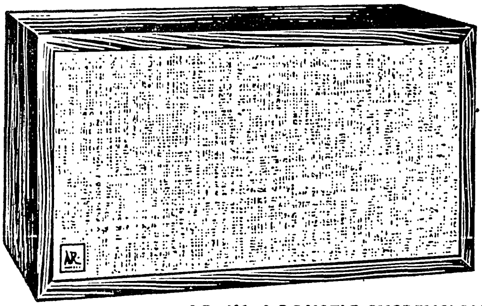
[C] **12″ 3-WAY SPEAKER.** Big 12″ woofer, plus midrange speaker and tweeter. Brilliance control adjusts tweeter volume. Resonance: 40 cps. Response is a full 22-20,000 cps. 35 watts, 70 peak. Magnets: woofer, 5-lb. ceramic; tweeter, 6.8-oz. Flux: woofer, 14,200 gauss; tweeter, 13,000. Mtg. Depth: 7½″. Imp.: 16 ohms.
20 D 9501 U Shpg. wt., 30 lbs..... **59.95**

[D] **VALUE-PACKED 12″ 3-WAY SPEAKER.** 12″ woofer, midrange, tweeter. Brilliance control. Resonance: 25 cps. 25-19,000 cps. 25 watts, 50 peak. Magnets: woofer, ring-type ceramic, 1¾ lbs.; tweeter, 4.65-oz. Alnico V. Flux: woofer, 12,650 gauss; tweeter, 13,500. 6⅜″ deep. Impedance: 8 ohms. Shpg. wt., 11½ lbs.
20 D 9553 X............... . . . **36.95**

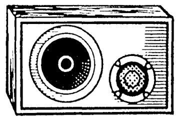
[E] **LOWEST COST 12″ 3-WAY SPEAKER.** Rigid die-cast frame with 12″ woofer; midrange cone, plus a tweeter with wide-dispersion rectangular horn. Tweeter level control. Resonance: 30 cps. Response is 25-18,000 cps. Capacity: 20 watts, 40 peak. Magnet: 13-oz. ring ceramic. Flux: 11,500 gauss. Mtg. Depth: 5¼″. 8 ohms.
20 D 9507 X. Shpg. wt., 10½ lbs. . **23.50**

[F] **VALUE-PACKED 8″ 3-WAY SPEAKER.** Die-cast frame, 8″ woofer with separate midrange cone and compression tweeter. Tweeter level control. Resonance: 65 cps. 45-18,000 cps. 20 watts, 40 peak. Magnet: 10-oz. ceramic. Flux: 8500 gauss. Mtg. Depth: 3⅞″. Impedance: 8 ohms. Shpg. wt., 6¾ lbs.
20 D 9500..... ... . **19.95**

World-Famous High-Fidelity Speaker Systems



AR



8″ Woofer, plus Special 2½″ Tweeter

AR-4X ACOUSTIC-SUSPENSION 8″ 2-WAY SYSTEM

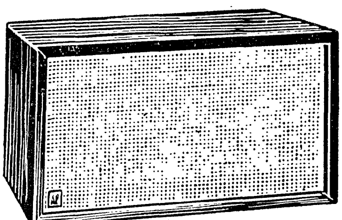
This low-cost 2-way speaker system features AR's famous acoustic-suspension design for rich, natural sounding music reproduction. Air sealed inside the enclosure produces a nearly perfect "spring action" that eliminates the need for a mechanical spring—distortion is cut almost to the vanishing point. Cone excursion is also freer for enhanced bass response from the 8″ woofer. Direct-radiator 2½″ tweeter has outstanding treble response—reproduces all frequencies above 1200 cps for clear, undistorted high-frequency reproduction. Tweeter level control for balancing output of tweeter with woofer. L-C crossover. Unit requires at least 15 watts input. Impedance, 8 ohms. 10x19x9″. Shpg. wt., 22 lbs.

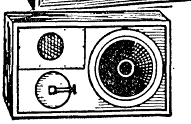
20 D 7629 U. Oiled Walnut.....57.00
20 D 7628 U. Unfinished Pine....51.00

AR-3 3-WAY 12″ SYSTEM. AR's best speaker system, famous for its superb sound. 12″ woofer and 2″ midrange each have 3¼-lb. magnet. 1⅜″ tweeter. Requires 25 watts, min. 4 ohms. 14x25x11⅜″. 55¾ lbs. Express.

20 D 7624 Z. Oiled Walnut....225.00
20 D 7002 Z. Unfinished Pine..203.00

POPULAR AR-2AX ACOUSTIC-SUSPENSION 10″ SYSTEM





10″ Woofer, 3½″ Cone Midrange plus 1⅜″ Super-Tweeter

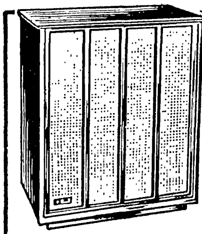
Improved version of the famous AR-2A, featuring a better midrange and high-frequency package for wider dispersion and smoother, more faithful response in the upper ranges.

Incorporates a 10″ acoustic-suspension woofer with 3¼-lb. magnet, plus new 3½″ broad-dispersion midrange and 1⅜″ dome-type super-tweeter. Cabinet features fiberglas packing throughout, to dampen internal resonances.

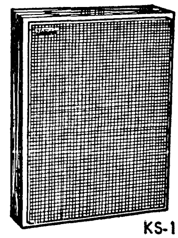
Independent level controls for midrange and tweeter. L-C crossovers: 2000, 7500 cps; 42-20,000 cps. 13½x24x11½″. Requires amplifier rated at least 20 watts per channel. 8 ohms. 43 lbs.

20 D 7046 U. Oiled Walnut...128.00
20 D 7047 U. Unfinished Pine..109.00

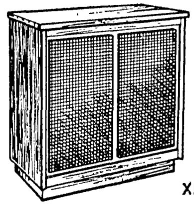
FISHER



XP-10



KS-1



XP-15

Famous Shelf and Floor-Model Speaker Systems

MODEL XP-10. Deluxe 3-way system. Has 15″ high-compliance woofer with 6-lb. magnet structure and 2″ voice coil; 8″ midrange and 2″ soft-dome tweeter, each with 5½-lb. magnet structure; 3-way crossover. 28 cps to beyond range of human hearing. Capacity, 60 watts. Requires amplifier rated at least 10 watts per chan. 8 ohms. Oiled walnut. 30½x24¾x14¾″. Shpg. wt., 80 lbs.

20 D 7217 Z. Shipped express......212.08

KS-1 SERIES. Slim 3-way system. 40-18,500 cps. 10″ free-piston woofer with 4½-lb. magnet structure; 5″ midrange and 3″ super-tweeter. Crossovers at 1400 and 2500 cps. 40 watts. 8 ohms. With instructions. 24x18x5¾″. 28 lbs.

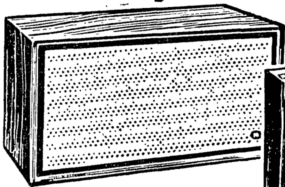
20 D 7153 U. KS-1B Kit. Sanded, ready-to-finish solid birch..................53.55
20 D 7154 U. KS-1W Kit. Sanded, ready-to-finish solid walnut..................58.05

MODEL XP-15. New 12″ 4-way system. Fisher's finest. 7 speakers! Two 12″ woofers; two 6″ lower-midrange speakers; two 5″ upper midranges; 1½″ tweeter. 3 balance controls. 80 watts. Oiled walnut. 27x27x14″. 8 ohms. 90 lbs

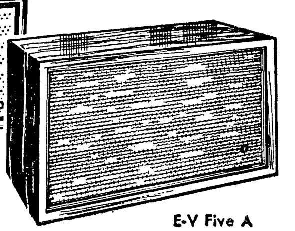
20 D 7171 Z. Shipped express......254.58

Electro-Voice

Acoustic-Suspension High-Fidelity Speaker Systems



E-V Seven



E-V Five A

MODEL E-V SEVEN. Compact 2-way system featuring acoustic-suspension design. Has high-compliance 8″ woofer and 3½″ cone-speaker employing E-V's unique polyurethane cone-damping to prevent "break-up", ensuring a crystal-clear response above 2000 cps. Response, 40-15,000 cps. Electrical crossover. Continuously variable brilliance control. Oiled walnut veneer. Can be placed vertically or horizontally. Capacity, 25 watts. 8 ohms.

20 D 7748 U. Shpg. wt., 22 lbs...........................59.85

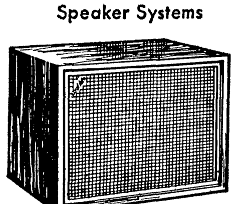
NEW MODEL E-V FIVE-A. Two-way acoustic-suspension system. Delivers excellent wide-range sound at moderate cost. Has specially designed 10″ woofer and 2½″ cone treble speaker. 30-17,000 cps. High-frequency level control. Electrical crossover. Oiled walnut veneer on all four sides. 30 watts.

20 D 7233 U. Shpg. wt., 42½ lbs.......................79.20

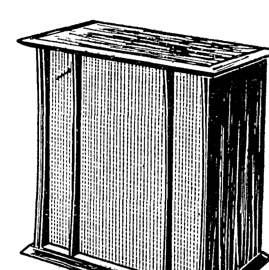
20 D 7222 U. E-V FOUR. 12″ woofer, compression midrange, 5″ tweeter. 30-20,000 cps. 30 watts. 8 ohms. 14x25x13½″. 50 lbs 124.20

Wharfedale

World-Famous Speaker Systems



W20



W70-C

MODEL W20. New low-cost 2-way compact speaker system. Acoustic-suspension 8″ high-compliance woofer and 3″ tweeter. With level control, in completely sealed enclosure. 9¾x14x8⅝″. 10 watts required. 4-8 ohms. Oiled walnut. From Great Britain.

20 D 7400 U. Shpg. wt., 15 lbs.........................42.46

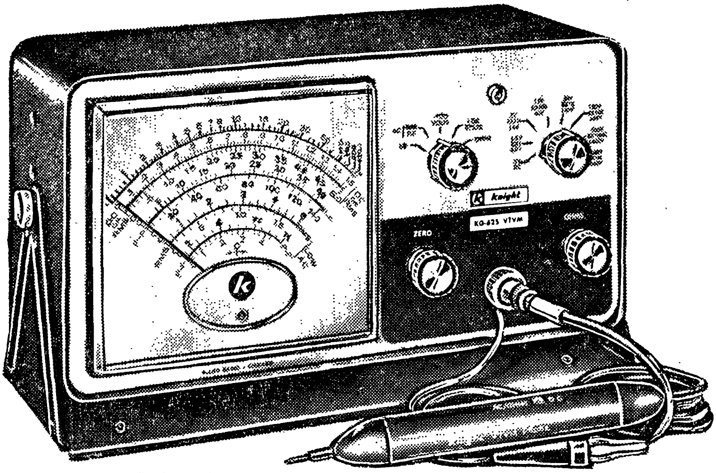
MODEL W70-C. Offers thrilling high-fidelity and tasteful styling. Unique Achromatic construction: white sand densely packed between layers of hardwood creates an inert mass to prevent bass resonance and results in strikingly natural, full-fidelity sound. Has 12″ woofer with huge 9½-lb. magnet for extended bass; 8″ midrange with 2-lb. magnet for presence and clarity; 3″ tweeter with 3¼-lb. magnet for pure, widely dispersed highs. LC crossovers at 800 and 3500 cps. Brilliance control. Graceful lines reflect "table-top" styling for versatility and attractiveness. Oiled walnut finish. 4-8 ohms. 23¼x24x14″. From Great Britain.

20 D 7404 Z. Shpg. wt., 74 lbs. Shipped express.........152.96

knight-kit
TEST INSTRUMENTS

Performance Proven VTVM's

Kit Form $39.95 **Assembled** $59.95



Includes Probe and Battery

SPECIFICATIONS

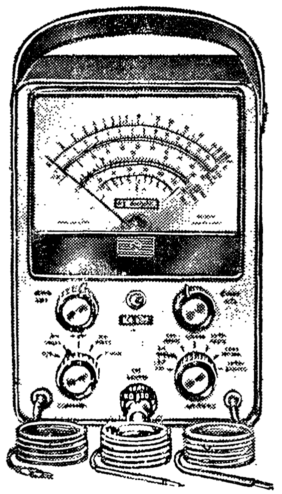
DC Section. Ranges: 0-0.5-1.5-5-15-50-150-500-1500 volts full scale. With optional High Voltage Probe listed below, to 25,000 volts. **Input Resistance:** 11 megohms (1 meg in probe) to 1500 volts. **Accuracy:** ±3% of full scale. **AC RMS Ranges:** 0-1.5-5-15-50-150-500-1500 volts full scale. Separately calibrated scales for 1.5 and 5 volts. **Peak-to-Peak Ranges:** 0-4.2-14-42-140-420-1400-4200 volts full scale. Separately calibrated scales for 4.2 and 14 volts. **Accuracy:** ±5% of full scale. **Frequency Response:** ±1 db, 30 cps to 3 mc; ±3 db, 30 cps to 5 mc. With optional High Frequency Probe, to 250 mc. **Ohmmeter Ranges:** 0-1000-10,000-100-000 ohms; 0-1-10-100-1000 megohms. **Center Scales:** 10-100-1000-10,000-100,000 ohms, 1 and 10 megohms. **Battery:** 1½-volt size "C." **Tube Complement:** 12AU7A Meter Bridge, pre-aged with matched triodes; 6AL5 Full-Wave Rectifier. **Power Supply:** transformer-type Silicon Rectifier with two windings for line isolation. **Power Required:** 110-130 volt, 60-cycle AC.

KG-625 DELUXE 6" VACUUM TUBE VOLTMETER KIT

Feature packed VTVM brings you functional styling, operating convenience, and accurate performance. Highlights include: ½-volt full-scale DC range for accurate testing of transistorized equipment; a single AC/DC/Ohms probe with switch for quick and easy multiple measurements. Inverted chassis design provides easy assembly. Premium pre-aged tube with matched triode sections for stable calibration adjustments. Large 6", 200-μa meter movement has fluorescent, knife-edge pointer and 10 separate color-correlated scales. 100° meter arc provides larger scale area, permits easy viewing from all angles. Meter movement is shorted out in "Off" position, prevents damage when carrying instrument. Precision 1% film type resistors are used as multipliers. Sturdy plastic probe takes slip-on alligator clip as well as regular tip pin. Separate ground lead terminates in alligator clip. Push-pull balanced bridge circuit assures maximum accuracy and meter protection. Gimbal bracket for convenient mounting and easy viewing. Calibration controls are externally accessible. DC polarity reversing switch; zero-center scale for accurate discriminator alignment; pilot light. 11 meg input impedance minimizes circuit loading; low-leaking switches; power transformer. Black steel case with contrasting charcoal gray and silver panel. Overall size: 7¾x12x5½". Complete with all parts, solder, battery, test probe, and informative, easy-to-follow instructions. For operation from 110-130 volts, 60 cycle AC. Shpg. wt., 9 lbs.

22 D 3975 W 39.95
22 D 3563 W. Above Kit Factory Assembled 59.95
22 D 3126 W. High Voltage Probe Kit. Wt., 1 lb. 5.95
22 D 3130 W. Above but Factory Assembled 6.95
22 D 3127 W. High-Frequency Probe Kit. Wt., 1 lb. 4.95
22 D 3131 W. Above, but Factory Assembled 5.95

MODEL KG-620 4½" VACUUM TUBE VOLTMETER KIT



Kit Form $26.95 **Assembled** $44.95

Includes 3 Test Leads and Battery.

Performance-proven in the field and widely recognized for its accuracy and dependability. Provides entirely electronic, direct reading measurements (35 total ranges) of AC voltage (both peak-to-peak and RMS), DC voltage, decibels, and resistance on a highly legible, two color 4½" meter scale. Features include: 11 megohm input resistance for negligible circuit loading; precision 1% resistors for high accuracy and dependability; finest grade printed circuit board; low leakage switches; 200-μa meter movement for excellent sensitivity; and line isolating transformer. Direct reading db scale; zero-center scale; DC polarity reversing switch; single zero-adjust for all functions and ranges. 7⅝x5⅜x4¼" black steel case with charcoal gray steel panel. Complete with 3 test leads and battery. Optional probes listed above. For operation from 110-130 volt, 60-cycle AC. Shpg. wt., 7 lbs.

22 D 3911 W 26.95
22 D 3576 W. As Above, Factory Assembled 44.95

SPECIFICATIONS

DC Section. Ranges: 0-1.5-5-15-50-150-500-1500 volts full scale. To 50,000 volts when high voltage probe (listed above) is used. **Accuracy:** ±3% of full scale reading. **Input Resistance:** 11 megohms (with 1 megohm in probe) to 1500 volts. **AC Section. Ranges (RMS):** 0-1.5-5-15-50-150-500-1500 volts at full scale. **AC Peak-to-Peak Ranges:** 0-4.2-14-42-140-420-1400-4200 volts at full scale. **Decibels:** —10 to +65 in 7 ranges. **Accuracy:** ±5% of full scale. **Frequency Response:** ±1 db, 30 cps to 3 mc; ±3 db, 30 cps to 5 mc (to 250 mc with high frequency probe listed above). **Ohmmeter Ranges:** 0-1000-10K-100K; 0-1-10-100-1000 megohms. **Center Scales:** 10, 100, 1000, 10K, 100K; 1 and 10 megohms. **Battery:** 1½-volt, Size "C." **Tube Complement:** 12AU7A used for meter bridge, 6AL5 full-wave rectifier. **Power Supply:** Transformer for isolation from AC power line, selenium rectifier.

KNIGHT-KITS ARE AVAILABLE IN QUANTITY

For complete information on quantity prices of Knight-Kits listed in this Catalog, simply write, wire, or phone your nearest Allied facility. Be sure to see our Consumer Catalog 260 for a complete selection of Knight-Kit Tuners, Amplifiers, Receivers, Test Equipment, etc. All Knight-Kits are designed to give the best quality, design and performance at the lowest price.

KG-635 Oscilloscope—Unmatched Quality and Value

PERFECT SCOPE FOR COLOR TV AND WIDEBAND TESTING

KG-635 SPECIFICATIONS

VERTICAL SECTION

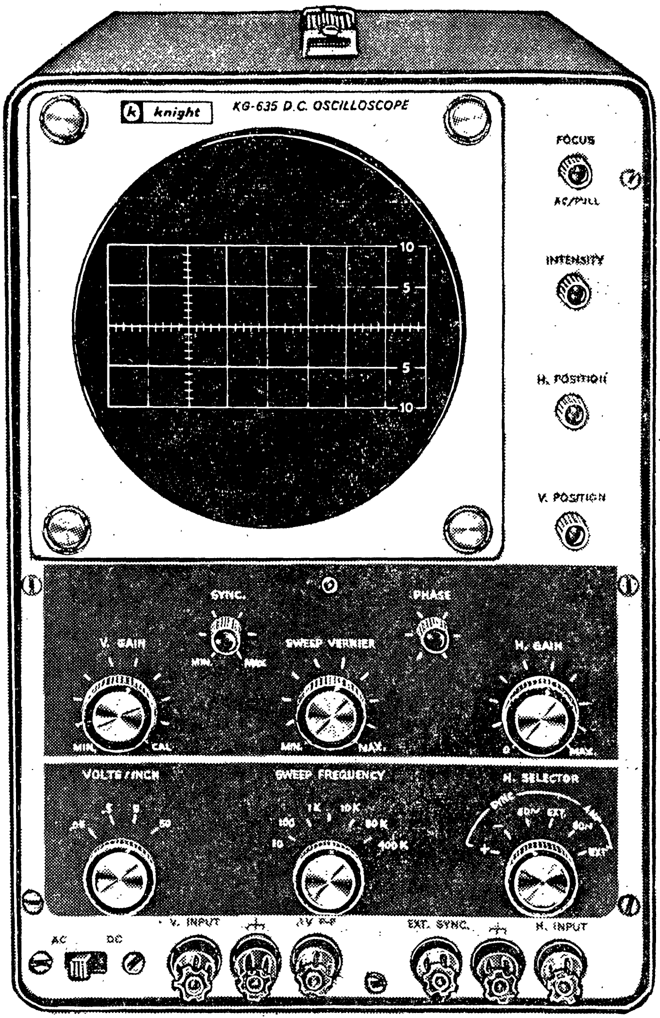
Sensitivity: 17 millivolts rms/inch minimum (7 millivolts rms/cm). Calibrated at .05 volt peak-to-peak per inch. **Response:** ±1.5 db, DC to 5.2 mc. **Color Bandpass:** ±0.5 db. **Overshoot:** less than 6%. **Rise Time:** 70 nano-seconds. **Input Impedance:** 3 megohms shunted by 35 mmf. **Positioning:** ±2 inches. **Attenuator:** frequency compensated and calibrated, .05, .5, 5, and 50 volts peak-to-peak/inch.

HORIZONTAL SECTION

Sensitivity: 0.6 volts rms per inch. **Frequency Response:** ±1.5 db, 1 cps to 400 kc. **Expansion:** 2 times. **Positioning:** all parts visible. **Inputs:** internal time base, 60 cps phase controlled, and external. **Input Impedance:** 7 megohms shunted by 25 mmf. **Linear Time Base Ranges:** (5) 10-100 cps; 100-1000 cps; 1 kc to 10 kc; 10 kc to 90 kc; 90 kc to 400 kc. **Synchronization:** plus or minus internal, external, and 60 cps line. Synchronization limiting provides semi-automatic operation with level control. Locks from waveform fundamentals up to 5 mc, and on display amplitudes as low as 0.1 inch. **External Synchronization Sensitivity:** 150 millivolts rms at 1 kc. **Line Synchronization:** phase variable.

GENERAL CHARACTERISTICS

Calibration Voltage: 60 cps sinusoidal, 100 millivolts peak-to-peak, ±5%. Available at front panel jack. **Accelerating Potential:** 1650 volts. **Z-Axis Input:** 10 volts negative for beam cutoff. **Input Impedance:** 1 megohm. **Tube Complement:** 10, including the Cathode Ray Tube, plus two rectifiers. **Overall Size:** 11⅞x7⅞x15⅞". **Power:** 110-130 volt, 60-cycle AC. Tapped primary on transformer for optimum operation from high or low line. **Power Consumption:** 112 watts.



Kit Form $109.95 | **Assembled** $159.95

MODEL KG-635 5-INCH DC TO 5.2 MC OSCILLOSCOPE KIT

- **Unique Dynamic Sync Limiter Assures Trace Uniformity Under Any High Sync Level Conditions**
- **Vertical Attenuator Marked Directly in Volts/Inch**
- **Push-Pull On-Off/Focus Control—No Need to Reset Focus**
- **Polystyrene and Mylar Capacitors for Sweep Stability**
- **Compactly Styled—Takes Up Far Less Bench Space**

Knight-Kit's KG-635 is an all-purpose oscilloscope that fulfills practically every test requirement needed. A wide array of features assures you of extra-easy, extra-fast, and extra-profitable analysis of either black-and-white or color television, FM or AM radio, etc. Ideal for just about every application in schools, industrial services, home hobby corners, and service shops.

Has superior linearity and excellent lock-in characteristics to permit extremely stable waveform displays—even at upper frequency limits. 1650-volt acceleration potential provides really sharp, bright patterns. Modern circuitry makes use of non-inductive film-type power resistors. Polystyrene and mylar capacitors are used in frequency determining networks to provide better accuracy and sweep stability. Automatic astigmatism correction provides uniformly sharp focus regardless of trace position on screen. Positive-lock, 5-way binding posts have standard ¾" spacing.

Series/shunt peaking is used in amplifiers to achieve optimum wideband response. Easily accessible front panel voltage calibrator output. Also features two regulated power supply potentials; retrace blanking; tapped primary transformer for stable operation from either high or low AC line.

Calibration controls are easily accessible through case. Does not require other test equipment for initial calibration. Graticule has X and Y linear grids for easy voltage measurements.

Attractively styled rugged black metal case with contrasting charcoal gray and silver front panel. All markings are highly legible. Easy to handle black knobs. Complete with all parts, cathode ray tube, and instructive step-by-step manual. Less direct test leads and optional probes listed below. For operation from 110-130 volt, 60-cycle AC. Shpg. wt., 29 lbs. Express.

22 D 3979 ZW 109.95
22 D 3531 ZW. Factory-Assembled KG-635 5" Scope........ 159.95

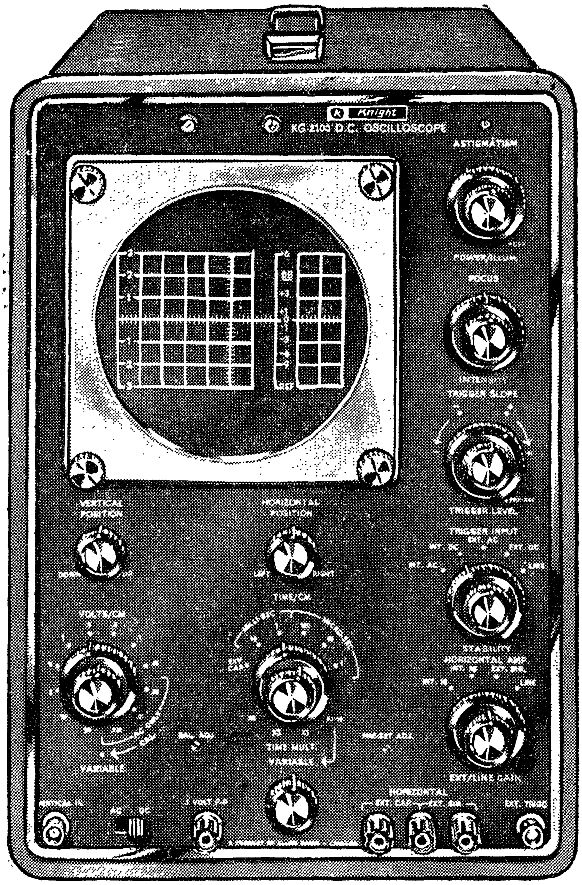
DIRECT TEST LEADS FOR KG-635 ABOVE. Assembled. Shpg. wt., 6 oz.
22 D 3152 W 1.95

12-MMF LOW-CAPACITY PROBE KIT. Shpg. wt., ½ lb.
22 D 3147 W 3.95
22 D 3150 W. Low-Cap Probe, Factory Assembled............ 4.95

250-MC RF DEMODULATOR PROBE KIT. Shpg. wt., ½ lb.
22 D 3148 W 4.25
22 D 3151 W. Demodulator Probe, Factory Assembled......... 5.25

knight-kit TEST INSTRUMENTS

KG-2100 5" DC to 5 Mc Laboratory Oscilloscope



KIT-FORM OR ASSEMBLED

NEW

New Improved Circuitry and Specifications... Plus Built-in Rotron Fan

KG-2100 SPECIFICATIONS

VERTICAL SECTION

Vertical Bandwidth on DC. DC to 5 mc, 3 db down. Less than 2% overshoot on 500 kc square wave. Reference to 1 kc, with vertical display height of 6 cm. (.05 v/cm to 20 v/cm).
Vertical Bandwidth on AC. With AC preamp in .005, .01, and .02 v/cm ranges, 5 cps to 1.5 mc, 3 db down. Reference to 1 kc, with vertical display height of 6 cm. On ranges from .05 to 20 v/cm, AC response is 5 cps to 5 mc, 3 db down.
Rise Time: 85 nsec, display height of 6 cm or less.
Sensitivity: When DC coupled, .05 volt Peak-to-Peak/cm When AC coupled, .005 volt Peak-to-Peak/cm.
Input Impedance: 1 megohm shunted by 40 mmf.
Calibration Voltage: Regulated .1 v P-P, ±5% at front panel.

HORIZONTAL SECTION

Horizontal Bandwidth: DC to 800 kc ± 3 db down.
Sensitivity: Approx. .04v/cm, with variable attenuator.
Input Impedance: 1 megohm.
Triggering: Sens. 200 mv external, ½ cm defl. internal.
Inputs: Line, external AC and DC, internal AC and DC. Level adjustable to provide triggering at selected points on waveform, or preset.
Sweep Range: .05 sec/cm to 200 nsec/cm in 16 ranges by use of basic sweep ranges (10 millisec, 1 millisec, 100 microsec, 10 microsec, 1 microsec) and multiplier switch plus X5 expansion. 10:1 multiplier vernier control; slows sweep to .1 sec/cm. Provision for adding external capacitor for extra-slow sweeps. Sweep timing capability within 3%.

KG-2100 5-INCH DC TO 5 MC LABORATORY OSCILLOSCOPE KIT

- 5 mv/cm Vertical Sensitivity
- Wideband Vertical Response Covers DC to 5 Mc
- Horizontal Response Covers DC to 800 Kc
- Triggered Sweep Adjustable 200 nsec/cm to .1 sec/cm
- 85 nsec Rise Time • Vertical Off-Scale Indicators
- Internal/External Triggering • Regulated Power Supply

New improved version of famous KG-2000 Oscilloscope has high vertical sensitivity for properly servicing transistorized equipment of all types. In addition, it has increased horizontal sensitivity and extended horizontal amplifier response, better DC balance and sweep linearity to eliminate drift. Addition of a Rotron fan and a redesigned power supply give added reliability, better overall stability and regulation.

Wideband vertical response—from DC to 5 mc, permits the display of pulses of fast rise time. DC-coupled amplifiers are utilized with shunt series peaking to provide sharp, faithful pulse reproduction, even in circumstances where very low frequencies or DC levels must be accurately displayed. Choice of internal or external triggering, with provisions for feeding the horizontal amplifier externally. Circuitry uses triggered/driven sweep for increased sensitivity—a signal which can produce a trace as small as ½ cm on the CRT face will permit triggering.

Pre-set lock-in of signal eliminates the need to synchronize the sweep with input signals of varying amplitudes or frequencies. Pre-set feature may be disabled when necessary, and a separate control permits locking in on any portion of the signal, including a choice of either positive or negative slope. Sweep speed is adjustable from 200 nanoseconds/cm down to .05 seconds/cm. An external shunt capacitor can be connected to an external binding post on the scope to provide even slower sweep speeds. X5 expand circuit with switch control. Vertical off-scale indicators are provided for maximum convenience in viewing traces. Horizontal positioning is such that the pattern is never completely off scale to either left or right.

Color correlated controls, grouped together for fast, accurate usage include: focus and astignatism to control the spot shape and brightness of the tube; intensity, to control the brightness of the tube face; plus both horizontal and vertical positioning controls. Variable intensity illumination of 6x10 cm graticule scale—calibrated from +6 to —9 vertically. Also has X and Y linear grid. Low and high voltage regulated power supplies for highest overall stability and dependability; also includes frequency compensated attenuators.

Low-loss BNC type coaxial connectors; camera mounting studs for standard camera mounts. The cathode ray tube is a flat-face 5" type with P2 phosphor. Complete circuit employs 21 tubes and 7 diodes, plus the CRT. Housed in a durable, handsome black case with harmonizing dark gray panel, red and white control markings, and black knobs. Overall size: 14¼x10⅛x15½". Includes all parts, with pre-cut wires, solder, step-by-step instruction manual, and informative operator's handbook. Designed for operation from 110-130 volts, 50-60 cycle AC. Power consumption, 200 watts. Shpg. wt., 39 lbs.

22 D 3970 ZW. **249.95**
22 D 3523 ZW. Factory Assembled KG-2100. Express..... 349.95
22 D 3949 W. Factory Assembled Low-Cap Probe. 1 lb..... 22.00

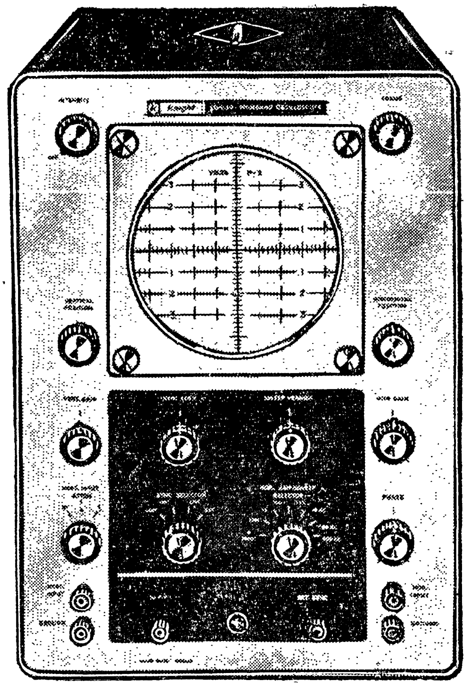
Write, Wire, or Phone For Quantity Prices on Knight-Kits

Test Equipment for Industry and Laboratory

MODEL KG-630 WIDEBAND 5-INCH OSCILLOSCOPE KIT

KIT FORM OR ASSEMBLED

Offers High Sensitivity Plus Wideband Performance at Low Cost



Combines wide sweep range, broad response, and high sensitivity with highest quality components to provide top performance in the shop or laboratory. Push-pull horizontal and vertical amplifiers have cathode follower inputs for minimum circuit loading and low wave-form distortion. 1600-volt 2nd anode potential; positive and negative sync locking; compensated input attenuator; 1-volt Peak-to-Peak calibrator; rear-mounted Z-axis input. Uses 2 printed circuit boards and laced wiring harness for easy assembly. Handsome black metal case, 14¼x10⅛x15½". Charcoal gray and silver front panel. For 110-130 v., 60-cycle AC. Wt., 28 lbs.

22 D 3913 ZW....................79.95
22 D 3577 ZW. Same as above, Factory Assembled....................99.95

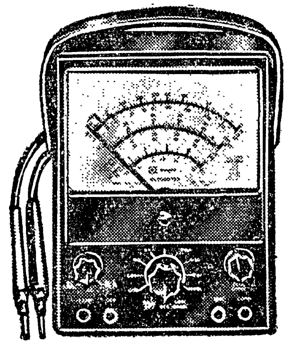
LOW CAPACITY PROBE KIT FOR KG-630. Wt., ½ lb.
22 D 3147 W....................3.95
22 D 3150 W. Same as above, Factory Assembled....................4.95

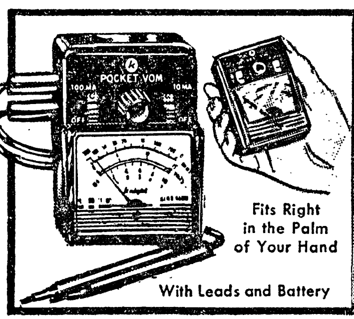
RF DEMODULATOR PROBE KIT FOR KG-630. Wt., ½ lb.
22 D 3148 W....................4.25
22 D 3151 W. Same as above, Factory Assembled....................5.25

KG-630 SPECIFICATIONS

Vertical Sensitivity: 20 mv (rms) per inch. **Response:** ±3 db, 5 cps to 5 mc; 1 db down at 3.58 mc color burst freq. **Input Impedance:** X1, 2.9 megs and 21 mmf; X0.1 and X0.01, 3.4 meg and 12 mmf. **Horizontal Sensitivity:** 600 mv (rms) per inch. **Response:** down 3 db at 600 kc; 4 db at 1 mc. **Z-Axis Input Sensitivity:** —25 v. pulse for beam cutoff. **Input Impedance:** 100,000 ohms. **Sweep Gen. Range:** 15 cps to 600 kc. **Sync:** + or — internal; external, line. Locks to 9 mc. **Power Supplies:** 6X4 low voltage, 6C4 regulator. 1V2 high voltage—approx. 1600 volts to CRT. **Voltage Calibrator:** 1 v. p-to-p. CRT: 5UPI.

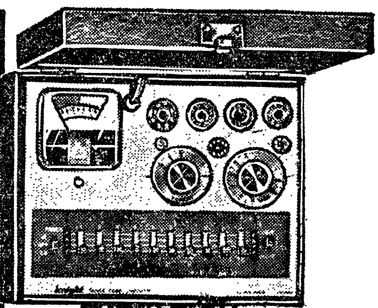
QUALITY SERVICING AIDS AT LOWEST COST





Fits Right in the Palm of Your Hand

With Leads and Battery



KG-645 1000 OHMS/VOLT VOM KIT

Locates defects in a wide variety of electrical and electronic devices—an ideal on-the-job unit. Low cost precision VOM kit offers 1000 ohms per volt sensitivity; features meter movement protection on voltage, current, and decibel ranges, no damage even with 1000 times overload. 12-position range switch permits a wide selection (8 scales, 38 ranges).

AC, DC Output: 0-1-5-10-50-100-500-5000 volts. **Resistance:** 0-1K-100K ohms; 0-1 meg. **Center Scales:** 60, 150, 1500 ohms. **AC, DC Current:** 0-1-10-100 milliamperes, 0-1 ampere. **Decibels:** —20 to +69 in 6 ranges. **Input:** 1000 ohms/volt, AC or DC. **Meter Sensitivity:** 400 microamperes full scale. **Meter Movement Accuracy:** 2% of full scale.

Black bakelite case, 6¾x5¼x2¾", with convenient carrying strap. Instructive manual has "How-to-Use" section. Complete with solder, battery, test leads, and all parts. Shpg. wt., 3 lbs.
22 D 3983 W....................18.95

POCKET-SIZE VOM KIT

Just a little larger than a pack of cigarettes, yet brings you the sensitivity and performance of substantially higher priced instruments. Perfect for hobbyists, experimenters, servicemen, hams. Locates defects in radios, TV sets, home appliances, auto accessories, all types of electrical devices. 2-color, 2½" meter scale reads 13 different ranges, permits a wide choice of separate measurements. Extremely lightweight, fits handily in your pocket.

DC Volts: 0-5-15-50-150-500; **AC Volts:** 0-15-50-150-500. **DC Current:** 0-1-10-100 ma. **Ohms:** 0-30,000 with 1200 at center scale. **Input Resistance:** 1000 ohms/volt DC. **Meter Sensitivity:** 1 ma for full-scale deflection. **Battery:** 1½ volt, Type 7.

All multipliers and shunts have 5% tolerance. Front panel zero-adjust. All parts included for quick, easy assembly. 4x2⅞x 2⅛". Complete with leads, batteries, instructions. Shpg. wt., 1 lb.
22 D 3708 W....................8.88

MODEL 400-A TUBE TESTER

Completely portable, checks more than 1800 commonly used radio, television, and hi-fi tubes—and priced so low that no serviceman, hobbyist, or experimenter can afford to be without one. Not simply a continuity tester, but a bona-fide emission-type tube tester of surprising versatility.

Permits comprehensive checking on an element by element basis. Checks for cathode emissions, shorted elements, and continuity. Tests compactrons, nuvisters, novars, 10-pins, octals, loctals, and 7 or 9-pin miniatures. "Flip-Card" tube charts include instructions for quick and easy test settings of most commonly used tubes.

Easy-to-read two color scale shows good or bad tube condition. Unique selector switch provides quick and easy set-up of types. Two-winding transformer allows complete isolation from line. Attractive gray wood case, 3½x10⅛x8¾". Operates on 110-130 volt, 60-cycle AC. Shpg. wt., 7 lbs.
22 D 3924 W....................24.95

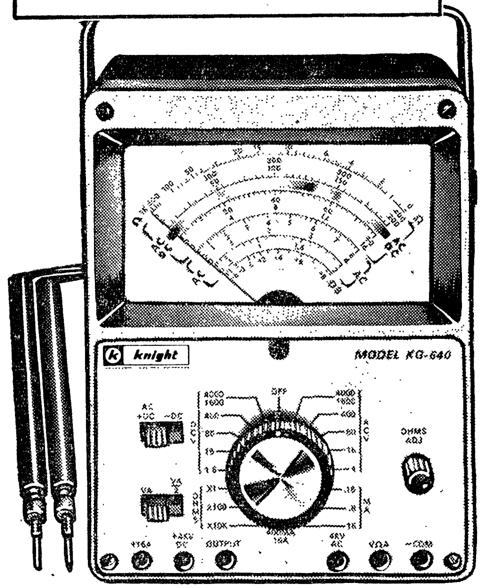
NEW

knight-kit

TEST INSTRUMENTS

For Quality and Economy . . .

NEW KG-640 20,000 OHMS/VOLT TAUT-BAND VOM KIT



Now—Allied offers you the finest VOM kit ever developed by Knight-Kit! Specially designed and engineered to provide top performance and continuous dependability, the KG-640 VOM provides accurate measurements of voltage, current, and electrical continuity in a wide variety of applications. Ideal for evaluating the condition of radios, television sets, high-fidelity components, audio and CB equipment, and hobby projects. Can also be used to check electrical continuity in motors and to test house wiring. The KG-640 VOM provides a total of 57 ranges to meet just about every testing requirement in the home, workshop, laboratory, school, industry, or hobby bench.

Provides accurate measurements on AC or DC volts, DC current, resistance, decibels, and output volts. Boasts a special .8 volt full scale range for precision testing of low voltage transistor equipment. Highly dependable 50 μa taut-band meter movement eliminates worry about burned out meters or bent pointers due to accidental overloading. Has special diode protection against overloads—operation is virtually burnout proof on every range. 20,000 ohms per volt input resistance assures true readings by minimizing circuit loading. Accuracy is within 3% of full scale reading on DC ranges to 1600 volts; 5% of full scale reading on AC ranges to 1600 volts. Designed with extremely wide response —20 cps to beyond 200 kc—for highest accuracy AC readings.

A range/function switch and voltage-doubler switch provide the utmost operating convenience, virtually doubling the number of effective ranges. Mirrored scale and knife-edge pointer eliminate parallax and assure quick, accurate readings. Polarity reversing switch allows circuit checks without bothersome lead changing. 1% carbon film resistors are used as multipliers to assure the highest degree of accuracy on both AC and DC ranges. Rugged construction allows tough use; plated metal carrying handle lies flat against case when not in use. Overall size is only 6¾x5¼x3¾". Uses easy-to-obtain standard "C" flashlight battery and 4 penlight cells. Complete with fully assembled 48" test leads, batteries, step-by-step instructions. Wt., 5 lbs.

22 D 3954 W. 39.95

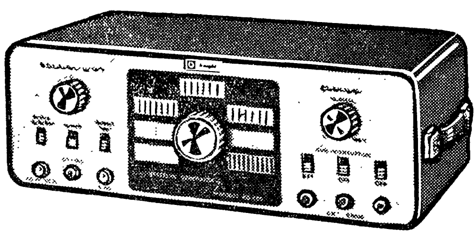
22 D 3582 W. KG-640 VOM. As above, but factory assembled. 59.95

1. Taut Band Meter Movement
2. Easy-to-Read Mirrored Scale
3. Fifty-Seven Total Ranges
4. Diode Protected Movement

SPECIFICATIONS

Total Ranges: 57, as follows. **DC volts:** 0-.8-1.6-8-16-40-80-200-400-800-1600-2000-4000 volts. 12 ranges with accuracy to 3% of full scale reading to 1600 volts. **AC volts:** 0-2-4-8-16-40-80-200-400-800-1600-2000-4000 volts. 12 ranges with accuracy to 5% of full scale reading to 1600 volts. **Resistance:** 0-1K-100K-10 megohms. 3 ranges with center scales at 12, 1200, and 12K ohms. **DC Current:** 0-80-160-400-800 μa, 0-8-16-200-400 ma, 0-8-16 amperes. 10 ranges. **Decibels:** from −12 to +74 in 12 ranges. **Output Volts:** 0-2-4-8-16-40-80-200-400 volts. 8 ranges. **DC Sensitivity:** 20,000 ohms per volt or 10,000 ohms per volt (function of scale multiplier switch). **Frequency Response:** 20 cps to beyond 200 kc. **Switches:** Range/Function, Polarity Reversing, Range Doubler. **Test Leads:** one red, one black, each 48" long, completely assembled. **Batteries:** Standard "C" flashlight battery and 4 penlight cells.

KG-685 SOLID-STATE COLOR BAR/PATTERN GENERATOR KIT



- √ Single Control Quickly Selects Any One of 7 Crystal-Controlled Test Patterns.
- √ Horizontal Display Elements Only 1 Raster Line Thick for the Ultimate in Definition.
- √ Zener Diode and Transistor Power Supply Provide the Highest Degree of Regulation.
- √ Color-Keyed Switches, Jacks, and Cables for Easy Use.

The Knight-Kit KG-685 Color Bar/Pattern Generator gives you outstanding performance with day-in/day-out solid state reliability. Highlighting portability and ease of operation, this precision instrument is the ideal choice for both on-the-bench and in-the-home color TV servicing.

Provides all the displays needed for complete color set adjustments. 10 color bar signals; purity, tracking, and cross-hatch patterns; dots, vertical and horizontal lines. Displays are well-defined with extremely low background noise. Synchronization pattern does not require tube removal or other "quieting tricks". Gray scale pattern provides 6 discreet levels of brightness for gun tracking adjustments. Horizontal display elements are just one raster line thick; crystal controlled patterns do not require synchronization with set. Lead-piercing clips on gun interrupters allow fast, safe connection to receiver under test.

Shaded light source on 3 ft. cable has handy clip mount for convenience lighting of service adjustments in darkened room. Highly polished service mirror stores under bottom of case. Power transformer has low external field, eliminates magnetic interference on color CRT. Steel case, 4⅞x9⅝x12". For 110-130v., 60-cycle AC. Shpg. wt., 14 lbs.

22 D 3989 W. 89.95

22 D 3522 W. KG-685. As above, but factory assembled. . . 129.95

MODEL KG-685 SPECIFICATIONS

7 Displays: purity, tracking, dots, crosshatch, vertical lines, horizontal lines, and color bars. **RF Output:** 10,000 microvolts minimum, tunable to channels 3, 4, or 5. **Composite Video Output:** ±2 volts peak-to-peak. **Composite Sync Output:** −2 volts. **Master Oscillator:** 189 kc, crystal controlled. **Color Oscillator:** 3.56 mc, crystal controlled. **Sound Subcarrier Oscillator:** 4.5 mc, crystal controlled. **Front-Panel Controls and Jacks:** Display Selector Switch; Sound Carrier On/Off Switch; Power On/Off Switch; Service Light On/Off Switch; Gun Interruption On/Off Switches (3—red, blue and green); Color Level Control (off through high, continuously variable); Video Level/Polarity (continuously variable level and choice of polarity); 6 Pin Jacks (3 signal output and 3 CRT grids). **Rear Panel:** Channel Tuning; Vertical Intensity (screwdriver adj.); Timing (5 screwdriver adj.); 6-circuit Test Jack. **Cables:** RF Output, 4-ft. long with alligator clips; Gun Interruptor, 4-ft. with lead-piercing, color-coded, alligator clips and ground lead; Service Light, 3-ft. with insulated mtg. clip, hi-intensity lamp and shade; Composite Video and Sync, 4-ft. with alligator clips and ground. **Power Requirements:** 110-130 v., 60 cycle AC. **Fuse:** Internal, ¼ amp quick blow. **Power Consumption:** approx. 10 watts.

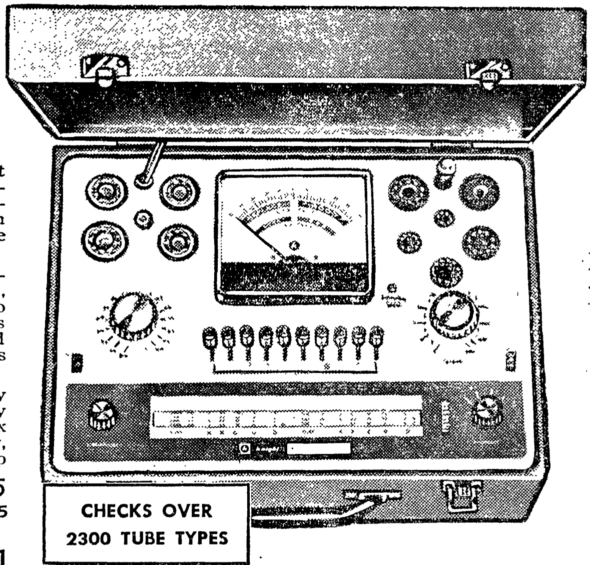
All Knight-Kits Include Precut Wire and Solder

... Choose Knight-Kit Test Equipment

AVAILABLE IN KIT FORM AND FACTORY ASSEMBLED

KG-600B PORTABLE TUBE TESTER KIT

- Checks for Tube Quality, Continuity, Shorts, Opens, etc.
- Three-Color 4½" Full-View Meter Has Tube-Matching Scale
- Checks Pilot Lights at Rated Voltages Up to 117 VAC
- Versatile Selector Switches—Quick Set-Up for All Tube Types



Our finest emission-type tester reliably checks over 2300 different tube types. Thoroughly checks tube quality and condition, continuity, shorts, open elements, and gas. Checks nuvistors, compactrons, novars, 4, 5, 6, and 7-pin large tubes; 7, 9, and 10-pin miniatures, octals, loctals, and pilot lamps. Also tests TV picture tubes when ordered with optional harness and adapters below.

Neon indicator shows filament continuity, leakage, and shorts between elements. Easy-to-read 4½' meter indicates emission, open, or gas, on a three-color "GOOD-?-REPLACE" scale that also reads from 0 to 100 for matching tubes. Sixteen filament voltages from 0.63 to 117 v. Universal type selector switches for quick and easy test setups. Line adjust control corrects for line variations and helps maintain proper testing conditions.

Roll-chart features smooth action, thumbwheel drive to quickly locate the desired tube. Chart is illuminated by 2 lamps for easy reading. Panel is styled in charcoal gray and silver. Size, 6½x14½x10½". Gray fabrikoid-covered wood case has latching cover, carrying handle. With all parts, solder, detailed step-by-step manual. For 110-130 v., 50-60 cycle AC. Wt., 13 lbs.

22 D 3920 W.......................................**39.95**

22 D 3578 W. As above but factory assembled..........**64.95**

SPECIFICATIONS

Type of Tube Tester: cathode conductance (emission). **Tube Condition Indicator:** 3-color, 4½" meter with REPLACE-GOOD, numerical, and gas scales. **Tube Types That May Be Tested:** nuvistors, compactrons, novars, 4, 5, 6, and 7-pin large tubes; 7, 9, and 10-pin miniature tubes; octals, loctals, and pilot lamps. **Individual Element Tests:** shorts and continuity indicated by neon lamp, gas and opens indicated by GOOD-REPLACE, GOOD-BAD scales. **Filament Voltage:** 0.63, 1.4 2.0, 2.5, 3.0, 4.2, 5.0, 6.3, 7.5, 12.6, 19.6, 25, 32, 50, 70, and 117 volts. **Line/Load Voltage Adjustments:** built-in power rheostat adjusts to compensate for voltage variation. **Individual Tube Settings:** read from built-in and illuminated, gear-driven roll chart with thumbwheel. **Power Required:** 110-130 volt, 50-60 cycle AC. **Shpg. wt.:** 13 lbs.

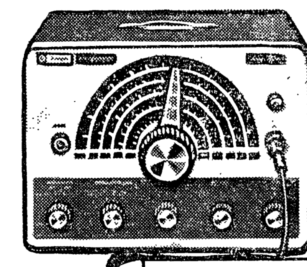
ACCESSORIES FOR USE WITH KG-600B

TV PICTURE TUBE HARNESS. Allows use of all Knight-Kit Series 600 tube testers for checking black-and-white picture tubes with up to 90° deflection. Factory Assembled. Wt., 8 oz.
22 D 3141 W.......................................**4.50**

110° ADAPTERS. Set of two adapters for use with harness above to permit checking of black-and-white picture tubes with 110° deflection with the 600 Series tube testers. Factory Assembled. 3 oz.
22 D 3271 W.......................................**3.85**

REPLACEMENT ROLL CHART. Current issue for updating Knight-Kit Models 600, 600A, and 600B tube testers purchased prior to Aug. 1st, 1965. Shpg. wt., 8 oz.
22 D 3083 W.......................................**1.75**

VERSATILE KG-650 RF SIGNAL GENERATOR KIT



Extremely stable, ideal for use in TV, AM, and FM alignment. Its wide range fundamental output is divided into 5 separate ranges for quick and precise selection of the desired signal. Fundamental output is from 160 kc to 112 mc, plus calibrated harmonics to 224 mc. Large, clearly calibrated dial with vernier drive and easy-to-grip knob, assure accurate frequency selection.

Has three cathode follower outputs: modulated, unmodulated, or 400 cps audio sine wave. Also has provision for modulation from external sources. Step and continuous-type attenuators. Transformer power supply. Colpitts oscillators employ precision-wound coils, require no calibration. Black metal case, with charcoal gray and silver panel. Complete with leads, solder, and informative step-by-step instruction manual. For 110-130 volt, 60 cycle AC operation. Shpg. wt., 8½ lbs.

22 D 3953 W.......................................**25.95**

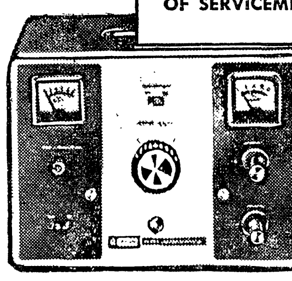
22 D 3574 W. Model KG-650 Signal Generator. As above, but factory assembled. Shpg. wt., 8½ lbs.............**37.95**

SPECIFICATIONS

Calibrated Fundamentals: Band A, 160 to 550 kc; Band B, 550 to 1850 kc; Band C, 1850 kc to 7 mc; Band D, 7 to 27 mc; Band E, 27 to 112 mc. **Calibrated Harmonics:** usable to 224 mc. **RF output:** over .4 v. **Modulation Freq.:** 400 cps. **Audio:** over 10 v. **Type of output:** cathode follower.

FIRST CHOICE OF SERVICEMEN

KG-660 BATTERY ELIMINATOR KIT



Important addition to any test bench requiring a reliable source of 6 and 12 volt DC power. Provides well-filtered output, continuously variable from 0 to 15 volts. Uses alternator type silicon diode rectifiers, with a 17,000 mfd capacitor for minimum ripple—a "must" for transistor and hybrid equipment. Serves also as a battery charger.

Output is monitored by two separate meters, 0-15 volts, and 0-20 amps. Has automatic overload protection. Checks units 20% below and 25% above nominal voltage—helps locate defective or intermittent vibrators and components. Handsome black metal case, 9x12x5". Charcoal gray and silver panel. Complete with all parts, solder, and easy-to-follow step by step instruction manual. For operation from 110-130 volt, 60-cycle. AC power source. Shpg. wt., 13 lbs.

22 D 3912 W.......................................**35.95**

22 D 3573 W. Factory assembled...**49.95**

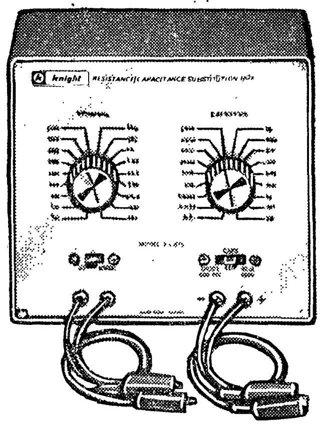
SPECIFICATIONS

Continuous Ratings: 15 amps at 6 volts.; 7½ amps at 12 volts. **Intermittent:** 20 amps at 6 volts; 10 amps at 12 volts. **Variable Voltage Ranges:** 0-8 volts: 0-15 volts. **Protection:** primary—4 amp Slo-Blo fuse; Secondary—automatic 20-amp thermal cutout, 10 second delay.

knight-kit
TEST INSTRUMENTS

Quality Low-Cost Testers

Selects Any R Alone, C Alone, Plus Series or Parallel RC Combinations

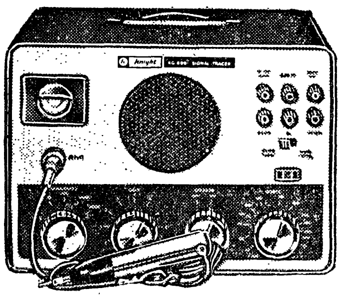


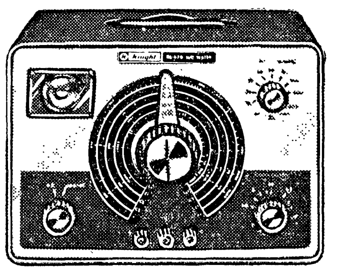
KG-675 RESISTANCE/CAPACITANCE SUB BOX KIT

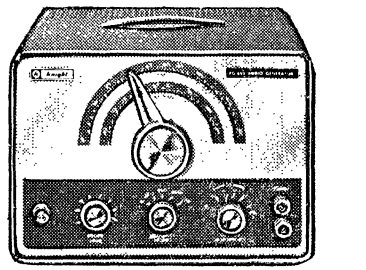
Use for speedy determination of part values. Avoid wasting valuable time hunting for parts, soldering, unsoldering, etc. Offers 36 standard value, 1-watt ±10% tol. resistors in two switch-selected ranges; and 18 tubular capacitors (±20%). Plus 1 electrolytic, 40 mfd at 450 VDC, and 1 silicon rectifier rated 750 ma at 800 PIV. 4 separate leads allow simultaneous resistance and capacitance substitution, permitting more than 1400 different combinations. Especially useful for RC networks. Size: 7½x8½x4". Black case with silver panel. All parts, leads, instructions. 2½ lbs.
22 D 3960 W....................14.95

SPECIFICATIONS

36 Resistances: Low, 15, 22, 33, 47, 68, 100, 150, 220, 330, 470, 680, 1K, 1.5K, 2.2K, 3.3K, 4.7K, 6.8K, 10K ohms. High, 15K, 22K, 33K, 47K, 68K, 100K, 150K, 220K, 330K, 470K, 680K, 1 Meg, 1.5 Meg, 2.2 Meg, 3.3 Meg, 4.7 Meg, 6.8 Meg, 10 Meg. **Tol:** ±10%. **Power Rating:** 1 watt. **19 Capacitances:** .0001, .00022, .00047, .001, .0015, .0022, .0033, .0047, .0068, .01, .015, .022, .033, .047, .068, .1, .15, .22 mfd: **Tol:** .0001 to .22 mfd, ±20%; .15 and .22 mfd @ 400 VDC, balance @ 600. 40 mfd elect. @ 450 WVDC. **Silicon Rect:** 750 ma @ 800 PIV.







KG-960 SIGNAL TRACER KIT

Cuts servicing time in analyzing radios, tuners, TV, amplifiers, CB/Amateur equipment, etc. Traces signals by both aural and visual methods. "Magic-Eye" tube, used with calibrated attenuators, indicates signal presence and permits stage-by-stage gain measurements. 4" permanent magnet speaker permits audible signal tests. Doubles as utility audio amplifier. Binding posts permit substitution servicing; can also be used for direct connection of oscilloscope or VTVM when multiple measurements are required. Calibrated wattmeter for making measurements of electrical appliances. Black steel case, with contrasting charcoal gray/silver panel. 7⅛x10x⅛x 5¼". With 2-position RF-AF probe, cable. 110-130 v., 60-cycle AC. 12 lbs.
22 D 3955 W..................29.95

SPECIFICATIONS

Preamplifier Voltage Gain: 91,000 at maximum sensitivity. **Probe Input Capacity:** 6 mmf. **Wattmeter Calibration:** 25-1000 watts, read from front panel control. **Speaker:** 4" permanent magnet type. **Substitution Circuits:** B+, speaker, output transformer. **Noise Locater Test:** Places DC potential across circuit under test. **Power Supply:** transformer-operated full-wave rectifier.

KG-670 R-C TESTER KIT

Measures resistance and capacitance within 10% by the performance-proven AC-operated bridge method. "Magic Eye" null indicator and direct-reading scales with pointer show values at a glance. Power-factor test indicates efficiency of electrolytics. Leakage checks (with proper voltages applied) show true component condition—open, shorted, leaking. Circuitry safely discharges capacitor under test when Leakage Switch (spring-return type) is released. Handsome black steel case, with contrasting charcoal-gray and silver front panel. Supplied complete with alligator clip leads, wire, solder and easy-to-follow asembly instructions. For operation from 110-130 v., 60 cycle AC. Shpg. wt., 9 lbs.
22 D 3901 W..................24.95
22 D 3580 W. Factory Assembled....29.95

SPECIFICATIONS

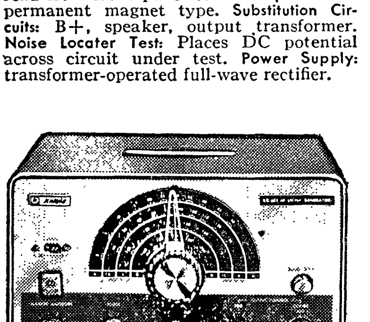
Resistance Ranges: Rx1—100 to 50,000 ohms; Rx100—10,000 ohms to 5 megohms. **Capacitance Ranges:** C1—.00001 to .005 microfarad; C2—.001 to .5 microfarad; C3—.1 to 50 microfarad; C4—20 to 1000 microfarads. **Leakage Test Voltages:** 50, 150, 250, 350, 450 volts. **Power Factor Calibration:** 0-50%, at front panel. **Power Supply:** transformer-operated half-wave rectifier.

KG-653 AUDIO GENERATOR KIT

Speeds up and adds highest accuracy to servicing of hi-fi amplifiers, tone control circuits, speakers, etc. Ideal for applications that require calibrated, continuously variable sine-wave audio signals. Sulzer Oscillator circuit, developed at the National Bureau of Standards, gives extremely stable, uniform output on all ranges—20 cps to 1 mc at ±1 db. Operates into high impedance or 600-ohm loads. Exceptional stability and optimum isolation are achieved by the use of a second cathode follower between oscillator and load. Well-filtered, full-wave power supply. Black steel case, charcoal-gray and silver panel. 7¼x10⅛x8½". Complete with leads, wire, solder and detailed instructions. For 110-130 v., 60 cycle AC. 14 lbs.
22 D 3973 W..................39.95

SPECIFICATIONS

Frequency Coverage: 20 cps to 1 mc in 5 ranges. **Output:** continuously variable and step attenuated (calibrated in 20 db steps to 80 db), 0 to 10 volts (rms) into 600 ohms, flat within 1 db over entire range. **Distortion:** less than .25%, 100 cps to 20 kc; less than .3% over entire tuning range; less than .5% when driving 600-ohm load at 2 volts (rms) output.



MODEL KG-652 TV/FM SWEEP GENERATOR KIT

Continuous coverage from 300 kc to 250 mc for precision sweep alignment of TV, FM radio, etc. Sweep held within 1 db by automatic gain control and voltage regulation. Electronic retrace blanking; electro-mechanical reactance modulator circuit; crystal oscillator marker with dual crystal socket. (Switch selects either of two crystals.) Provision for mixing crystal and external markers. Filtered output on Band A attenuates signals above 50 mc. Black steel case, charcoal/gray silver panel. With leads, less crystals. 8⅝x12⅛x7". For 110-130 v., 60-cycle AC. Wt., 14 lbs.
22 D 3974 W..................44.95
22 D 3052 W. 4.5 mc Crys. .005% 3 oz. 4.80
22 D 3050 W. 5-mc Crys. .02%. 3 oz.. 3.95
22 D 3051 W. 10.7-mc Crys. .02% 3 oz. 3.95

SPECIFICATIONS

Frequency Range: 300 kc to 250 mc, fundamentals on 4 bands. **RF Sweep Output:** over .15 volt, ±1 db on all bands. **Sweep Frequency and Width:** 60 cycles; 0-13 mc on all bands. **Horizontal Sweep Voltage:** 5 v. (rms), 60-cycle sine wave. **Phase Control:** blanking shift 0-180°. **Output Controls:** step and fine for RF, marker separate.

Outfit Your Workbench with Money-Saving Knight-Kits

Quality Communication Kits

knight-kit
AMATEUR GEAR

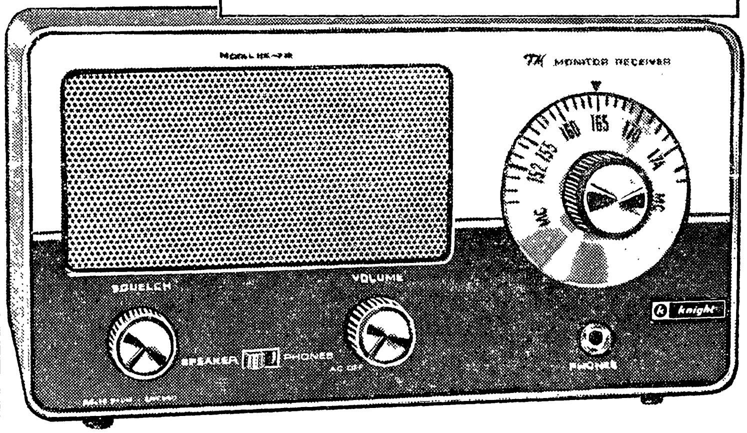
RECEIVER SPECIFICATIONS

FM Tuning Range: KG-220, 30-50 mc; KG-221A, 152-174 mc. **Bandwidth:** 100 kc at 6 db down. **Sensitivity:** KG-221A, 6 µv at ±5 kc; KG-220, 10 µv at ± 5 kc deviation. **Audio Output:** 1 watt. **Speaker:** 3x5" oval PM. **Squelch:** variable; sens: 5 µv. **IF Stages:** 2, at 10.7 mc. **Antenna Imp.:** 50-75 ohms. **Active Elements:** 5 tubes, 1 transistor for 8-tube performance; silicon diode rectifier. **Power Consumption:** 30 watts.

KG-221A covers 152 to 174 mc FM band for: police, fire, civil defense, emergency, U.S. Weather Bureau forecasts, railroads, taxis, forestry and conservation activities, power utilities, highway trucks, private mobile telephones.

KG-220 covers 30 to 50 mc FM band for: as above (except Weather Bureau, railroads, taxis), plus industrial, highway maintenance, radio paging service.

NOTE: Frequency Allocations May Differ Slightly in Your Area. Check with Local Authorities for Services Available.



VHF-FM MONITOR RECEIVER KITS FOR EMERGENCY, PUBLIC SERVICE AND INDUSTRIAL RADIO USES

As Low As $39⁹⁵

- Factory Assembled/Aligned Front-End and RF
- 2 Models: 152-174 Mc FM; 30-50 Mc FM
- Includes 3x5" Built-In Oval PM Speaker
- Completely Electronic, Transistorized Squelch
- Extremely Accurate, Velvet Smooth Vernier Tuning
- Ratio Detector Minimizes Signal Interference

MODEL KG-221A (152-174 MC FM). Easily built receiver permits coverage of police, fire, civil defense, and other emergency services. Brings you industrial, power utility, highway maintenance, private mobile telephone and more—see box above. Features: RF stage; ratio detector to minimize interference; on/off volume control; front-panel headphone jack; variable squelch for silence between calls; screw terminals for antenna; line-isolating transformer. Attractive dawn-blue metal case, 5⅞x11¼x5⅞". With contrasting charcoal gray/silver panel. Easy-to-follow instructions. For 110-130 v., 60-cycle AC. Shpg. wt., 10 lbs.
22 D 3452 W..44.95

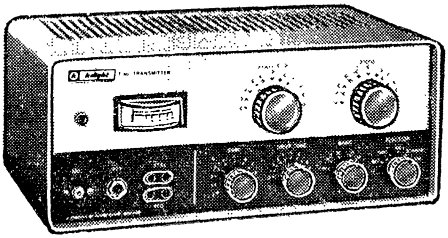
MODEL KG-220 (30-50 MC FM). As above, but covers the lower frequency band. Same services with certain exceptions (see box above). Has no RF stage. Shpg. wt., 10 lbs.
22 D 3311 W..39.95

22 D 3188 W. Hy-Gain GP-50, 30-50 Mc Ground Plane Antenna. For best reception with Model KG-220 receiver. Wt., 6 lbs......12.95

22 D 3187 W. Hy-Gain GP-150, 144-174 Mc Ground Plane Antenna. For best reception with KG-221A receiver. Wt., 2 lbs........5.40

22 D 3257 W. Dual Headphones with Phone Plug. 1 lb.........2.65

22 D 3265 W. 50 Feet of RG-8/U Cable. For lead-in. 6 lbs....6.93



T-60 60-WATT CW/PEAK AM TRANSMITTER KIT

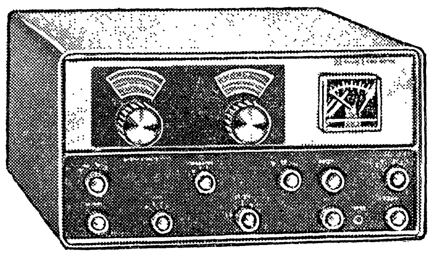
$54⁹⁵

- CW and AM Phone on 80-6 Meter Ham Bands
- Clean, 4-Stage Simultaneous Cathode Keying
- Easy-to-Build First Rig for Novice, Technician

Runs 60 watts CW and peak AM phone input on 5 bands, slightly less on 6 meters. Controlled-carrier screen modulation on AM for top talk-power. "Tune" position protects final during tune-up; plenty of filtering and bypassing reduce interference; relative power output meter; adjustable pi-coupler; single-knob bandswitching. Accessory power take-offs, relay switching on rear panel. Requires VFO or crystals. 5x12x7". 15 lbs.
22 D 3294 W..54.95
17 D 9381 CS. 3500-3900 kc Crystal (80 meters). 3 oz.........2.95
17 D 9403 CS. 7000-7334 kc Crystal (40-10 meters). 3 oz.......2.95
17 D 9404 CS. 8340-8450 kc Crystal (6 meters). 3 oz..........2.95

SPECIFICATIONS

Band Coverage: 80, 40, 20, 15, 10 and 6 meters. **Modes:** controlled carrier AM phone or CW. **Power Inputs:** 60 watts on 80 through 10 meters, slightly less on 6. **Frequency Control:** crystals or external VFO. **Tube Complement:** 6FH8 osc.; 12AX7 amplifier; 6DR7 driver/modulator; 6DQ6B final amplifier. **Output Coupling:** pi-network: **Output Imp.:** 40-600 ohms (coaxial connector). **Power Requirements** 110-130 volt, 60-cycle AC. **Power Consumption:** 110 watts.



DELUXE R-100A COMMUNICATIONS RECEIVER KIT

$99⁹⁵

- Offers Top Sensitivity, Selectivity, Stability
- Calibrated Electrical Bandspread for 80-10 Meters
- Selectivity Variable from 300 cps to 4500 cps

Covers 540 kc to 30 mc in 4 bandswitched ranges—with exceptional overall sensitivity of better than 1½ µv for 10 db S/N. Built-in Q multiplier works on all modes, peaks signals or nulls QRM. Slug-tuned coils, tuned RF stage, front panel phone jack. Gray satin metal case. 9⅛x17⅛x9⅝". See accessories below.
22 D 3406 KW. Shpg. wt., 29 lbs......................99.95
22 D 3424 W. S-8A Speaker Kit. 4". Matches R-100A. 4 lbs....9.95
22 D 3423 W. S-Meter Kit. Reads 40 db over S9. 1 lb.......12.95
22 D 3256 W. Crystal Calibrator Kit. Builds into R-100A. Gives 100 kc markers. Trimmer zero beats WWV. Shpg. wt., 1 lbs..10.95
22 D 3257 W. Dual Headset with Phone Plug Attached. 1 lb.....2.65

SPECIFICATIONS

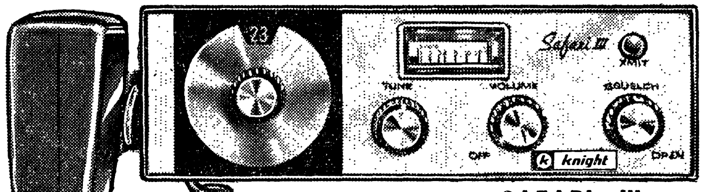
Sensitivity: 1½ µv or less for 10 db S/N on bands B, C, D,; 4 µv, band A (broadcast). **Selectivity:** Q-multiplier in Peak position provides continuously adj. IF bandpass from 300 cps to 4500 cps at 6 db down; up to 70 db peak; plus 60 db notch in Null position. **IF:** 455 kc. **Antenna Impedance:** 50-300 ohms. **Audio Output Imp.:** 8 ohms. **Tube Complement:** 7 plus 6X4 rectifier, OB2 voltage regulator. **Power Required:** 110-130v, 60-cycle AC.; 45 watts.

See Our New Consumer Catalog 260 for Complete Listings and Speicfications of the Entire Knight-Kit Line. Knight-Kits Are First in Design, Research and Dependability. They Represent Your Best Buy for Both Performance and Value.

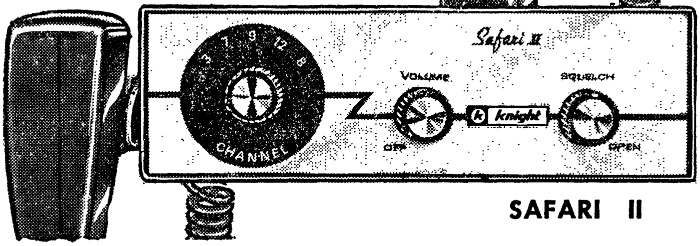
NEW
knight-kit
CB RADIO

Solid-State CB Transceiver Kits

NEW SAFARI® SERIES DELUXE CITIZENS BAND TRANSCEIVERS



SAFARI III



SAFARI II

SAFARI SPECIFICATIONS

RECEIVER Sensitivity: 1.5 µv for 10 db S/N ratio. IF Selectivity: 4 kc at 6 db down for 10 µv input. Adjacent Channel Rejection: over 30 db on 5 tuned circuits. TRANSMITTER Power Input: 5 watts. Output Impedance: 50-ohm antenna. Modulation: 80% minimum. RF Power Output: 3 watts.

SAFARI® II CB TRANSCEIVER KIT

Versatility is only one of many special features of this CB transceiver kit that's easy to build, too. Use it for base station operation by connecting it to the optional AC power supply and charger combination, below; use it for mobile operation—installation is simple and quick; use it for a portable station by connecting it to the optional portable pack, below. Get up to 5 crystal-controlled transmit and receive channels; solid-state circuitry using 13 silicon transistors and 9 diodes. Highly sensitive superheterodyne receiver section has adjustable squelch control; built-in series-gate noise limiter circuit; combination on/off volume control. Completely assembled and factory-aligned transmitter section has full 5 watts input power; additional channel cyrstals are simply plugged into the circuit; double pi output circuit matches 50-ohm antenna with SO-239 connector. Compact, just 2⅛x6⅞x8½". With speaker/microphone, pair of crystals for Channel 9. For 12 VDC negative ground. Shpg. wt., 4 lbs.
22 D 3840 W.......................................59.95

SAFARI® III CB TRANSCEIVER KIT

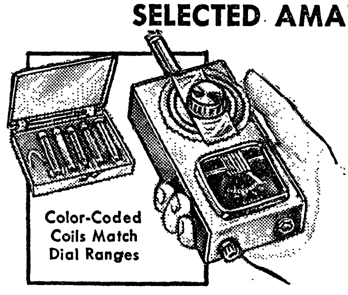
Minimum front panel controls make this unit as easy to operate as your car radio. Provision for 23 crystal-controlled transmit and receive channels. Solid-state circuitry using 14 silicon transistors and 9 diodes offers unmatched stability and low current drain. Generous heat sinking insures long transistor life. Highly-sensitive superheterodyne receiver section has "S" meter; adjustable squelch control for quiet operation; fine tuning control—lets you tune signals which are slightly off frequency; built-in series-gate noise limiter circuit to overcome ignition and other pulse-type interference; and combination on/off volume control. Completely assembled and factory-aligned transmitter section. Has transmit indicator light; full 5 watts input power; additional channel crystals plugged into circuit; double pi output circuit with SO-239 connector matches 50-ohm antenna. 2⅛x6⅞x8½". With mike/speaker, crystals for Channel 9. For 12 v., DC (neg. grd.). Shpg. wt., 4 lbs.
22 D 3842 W.......................................84.50

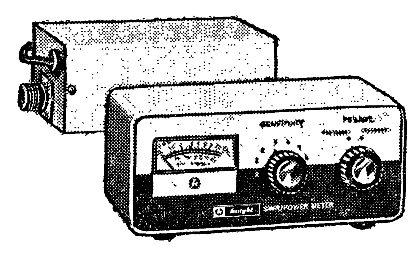
ACCESSORIES FOR SAFARI II AND III TRANSCEIVERS

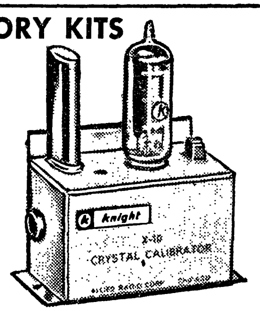
MOBILE MOUNTING BRACKET. Shpg. wt., 3 lbs.
22 D 3197 W.......................................Each 3.95
EXTRA CRYSTALS. *Specify Channel 1-23.* Shpg. wt., 3 oz.
22 D 3217 CW. Transmit.......................................Each 2.50
22 D 3218 CW. Receive.......................................Each 2.50
AC POWER SUPPLY AND CHARGER. Factory assembled. Instantly converts above transceivers to base station. Serves as battery charger for portable battery pack, right. Has 3-pos. panel switch (Charge/Off/Operate). 2¾x5⅞x8". For 105-110 v., 60 cycle AC.
22 D 3196 W. Wt., 2 lbs.......................................19.95

ACCESSORY BATTERY PACK. Converts transceiver to portable station. Has cable for recharging from car battery, carrying strap, battery condition meter. 8½x7x1½". Order 9 "D" cells, below.
22 D 3196 W. Shpg. wt., 2 lbs.......................................19.95
"D" BATTERIES FOR PACK. Requires 9
22 D 3119 W. Standard Throw-Away Type. 5 oz.......Pkg. of 2/.26
22 D 3211 W. Rechargeable Alkaline Cells.......................Each 1.19
22 D 3199 W. Canvas Carrying Bag. Holds unit and battery pack. Shpg. wt., 1 lb.......................................8.95
22 D 3109 W. Antenna for Portable Pack. Wt., 1 lb.......................5.95

SELECTED AMATEUR-RADIO TEST AND ACCESSORY KITS







G-30 GRID DIP METER KIT

Covers frequencies from 1.5 to 300 mc in 6 overlapping ranges. Has calibrated dial and movable hairline cursor to allow accurate readings; all ranges are color-coded to match coils. Has undamped meter movement for quick response; variable sensitivity control; phone jack. Becomes crystal oscillator when you plug in any standard-spaced crystal. Size, 6⅜x3¼x1⅝". With 6 coils and instructions. For 110-130 v., 50-60 cycle AC. 2 lbs.
22 D 3721 W.......................19.95

P-2 SWR/POWER METER KIT

Covers 1.8 to 432 mc for Amateur bands, CB and other communications services. Full 1-kilowatt capacity, also works well with low-power transmitters. Accuracy better than 10%; measures SWR from 1:1 to 20:1, and relative power from 0 to 10. Can be left in line as constant monitor. No batteries or power required. Coupler size, 2x5x2½"; indicator size, 2⅞x6¼x3". Supplied complete with all parts, easy-to-follow instructions. Shpg. wt., 3 lbs.
22 D 3627 W.......................14.95

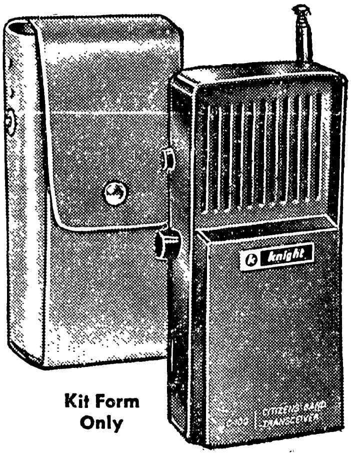
100-KC CALIBRATOR KIT

Low-cost secondary frequency standard produces harmonics every 100 kc up to 35 mc. Markers give check points in the 160 to 10-meter Ham bands and SW bands. An Amateur "must" for accurate dial calibration and marking band edges. Has trimmer for zero-beating with WWV, or any station on a multiple of 100 kc. Requires 6.3 VAC or DC, at 150 ma, and 150-300 VDC at 6 and 3 ma respectively. 3½x2½x1½". Shpg. wt., 1 lb.
22 D 3256 W.......................10.95

Walkie-Talkies, Accessory Kits

No License, Permit or Age-Limit Restrictions Apply to Knight-Kit C-100 and C-555 100-Milliwatt Walkie-Talkie Kits—Anyone Can Own and Operate Them Easily, After Just a Few Hours Assembly.

knight-kit CB EQUIPMENT



Kit Form Only

C-100 WALKIE-TALKIE KIT

$5.88

- High-Impact Portable Case
- Low-Cost Battery Operation
- 40″ Telescoping Antenna

Send and receive up to ¼ mile between units. 3-transistor circuit uses 2″ speaker/microphone. Takes just a few hours to assemble. Great for kids and adults; anyone can use the C-100, no age or license requirements. Sensitive super-regenerative receiver, push-to-talk transmitter on CB Channel 7. 40″ telescoping whip antenna. High-impact blue case measures 5⅜x2⅞x1¾″. With crystal. Order battery below. Shpg. wt., 14 oz.

22 D 3804 W................Each 5.88
22 D 3005 W. 9-Volt Battery.....3 for 79¢
22 D 3013 W. Carrying Case 4 oz......98¢

MODEL C-555 SUPERHET WALKIE-TALKIE KIT

Kit Form Only $15.88 Each

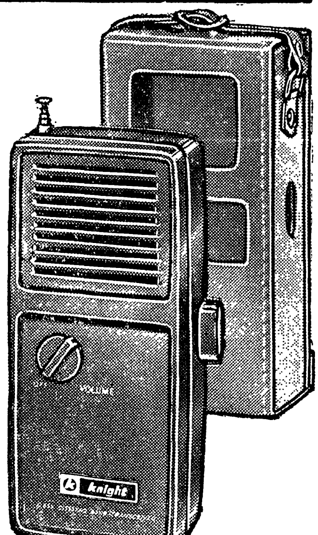
- IF Transformers Are Prealigned
- Many Uses Indoors and Outdoors

Famous kit priced exceptionally low, yet boasts a sensitive crystal-controlled superhet receiver for increased range and selectivity. Crystal-controlled transmitter has full 100-milliwatt input for up to ¾-mile range. Ideal for industry, construction, security work, warehousing, inventory. Also provides low-cost communications for boaters who want to keep in touch. Excellent for camping trips, fishermen and hunters. Has hundreds of uses, outdoors and indoors. Assembly time, a few hours.

Modern space-age circuit features 5 transistors plus a diode. A silicon transistor is used in oscillator circuit for highest stability. Unit is supplied with pre-wired and pre-aligned IF transformers already mounted on a rugged printed circuit board for simplified assembly.

Other features include: press-to-talk operation; receiver volume control; 2-inch built-in speaker/microphone combination; 40-inch telescoping whip antenna; output jack for earphone; economical battery operation. High-impact case, 7x3⅛x2″. With solder and easy instructions. Order battery, crystals, below. See optional accessories below. Shpg. wt., 2 lbs.

22 D 3822 W............Each 15.88



✓ Receiver and Transmitter Both Crystal-Controlled

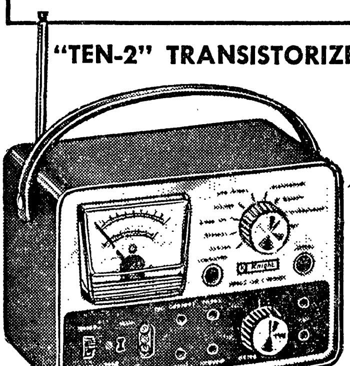
✓ Superheterodyne Receiver for Greater Operating Range

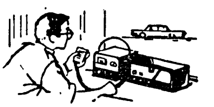
ACCESSORIES FOR C-555 WALKIE-TALKIE

CRYSTALS. *Specify Channel 2-22.* Shpg. wt., 3 oz.

22 D 3034 CW. Transmit Crystal. Takes 1............................Each 2.50
22 D 3041 CW. Receive Crystal. Takes 1............................Each 2.50
22 D 3014 W. 9-Volt Battery. Shpg. wt., 2 oz..............................35¢
22 D 3092 W. Optional Carrying Case. With strap. Wt., 6 oz...............1.98
22 D 3094 W. Optional Earphone and Plug. Shpg. wt., 2 oz...................79¢

"TEN-2" TRANSISTORIZED CB TESTER



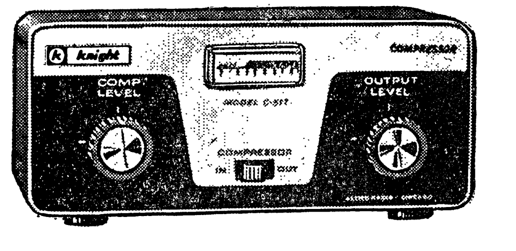


Combines Ten Instruments in One for Quick, Accurate Checks of Fixed and Mobile CB Equipment

Boost your CB operating range and overall transceiver performance with the "Ten-2" Citizens Band tester. Portable, all-transistor 10-function tester—lets you evaluate and improve performance of CB transceivers. Measures, with 10% accuracy, relative SWR of antennas and transmission lines; percentage of positive or negative modulation; relative field strength; power output; relative crystal activity. May also be used as signal monitor, crystal-controlled RF generator, audio generator, code-practice oscillator. Has 4-scale 2″ meter; crystal sockets; jacks for key, phones, scope and RF generator outputs; Motorola connectors for CB antenna/transceiver inputs plus adapters for Motorola to PL-259 connectors; 40″ antenna. Cabinet, 5⅜x7⅝x4¼″. CB tester supplied complete with 9-volt battery, detailed step-by-step instructions, all parts. Wt., 6 lbs.

22 D 3823 W...25.95

C-577 AUDIO COMPRESSOR/PREAMP KIT

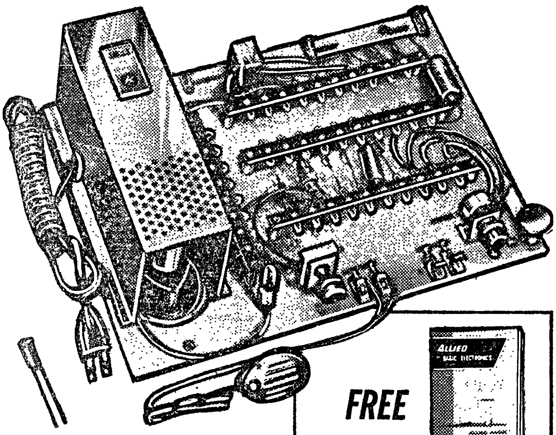


- True Compressor Design—Free of Splatter-Causing Harmonics
- Temperature-Stable for Mobile Use—3 No-Drift Silicon Transistors
- Boosts Lower Level Audio Signals to Give You 100% Modulation
- Limits Higher Level Audio Signals to Prevent Overmodulation

Build the C-577 for increased communications efficiency. Fully transistorized—gives higher average modulation output to provide greater peak power. Gives you far greater range with excellent speech clarity. Serves as low-level preamp for both low and high-impedance mikes with minimum distortion and 26 db gain at 1 kc. Has separate and adjustable compression and output level controls. Deluxe, edge-reading meter shows relative compression. Front-panel on/off switch bypasses compressor without disconnecting. Connects between mike and transceiver; switches in and out of circuit as needed. Assembles quickly and easily on rugged printed circuit board. Dawn-blue case measures 2⅞x6¼x3″; has sea-blue and silver front panel. 3′ shielded cable, and detailed instructions. Order battery, below. Shpg. wt., 3 lbs.

22 D 3816 W...19.95
22 D 3005 W. 9-Volt Battery. 6 oz......................3 for 79¢

knight-kit Educational Electronic Kits



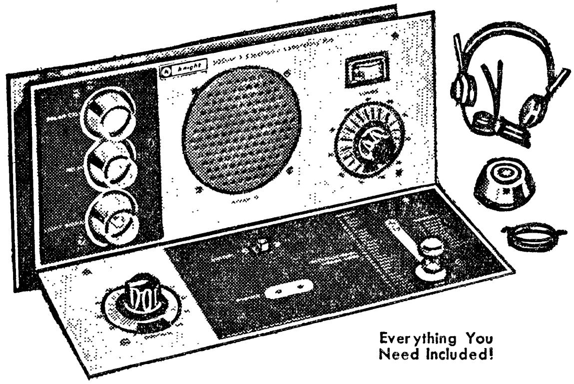
FREE

Basic Electronics Book with purchase of 12-in-1 Lab. An informative, helpful study guide.

12-IN-1 ELECTRONIC LABORATORY KIT

Here's a great, low-cost way to get into electronics as a hobby. There's fun for all when you use your 12-in-1 kit to make electronic "magic" the enjoyable Knight-Kit way. And you learn the fundamentals of electronics while performing 12 practical and interesting projects. With this amazing lab kit, you can control electrical devices by stepping on a metal plate, speaking into a microphone, or by flashing light on a photocell. Make "music" by moving your hands in a beam of light. Even broadcast your voice through an AM radio. Just resolder leads to change circuits. Transformer power supply. 8x11" mounting board. With free "Basic Electronics" book, mike, photocell, instructions. Less headphone, below. For 110-130 v., 50-60 cycle AC. 5 lbs.

22 D 3207 W. With Free Book........................17.95
22 D 3028 W. Single Headphone. Shpg. wt., 8 oz............1.19
22 D 3027 W. Dual Headphone. Shpg. wt., 12 oz............2.29



Everything You Need Included!

100-IN-1 ELECTRONIC LAB KIT

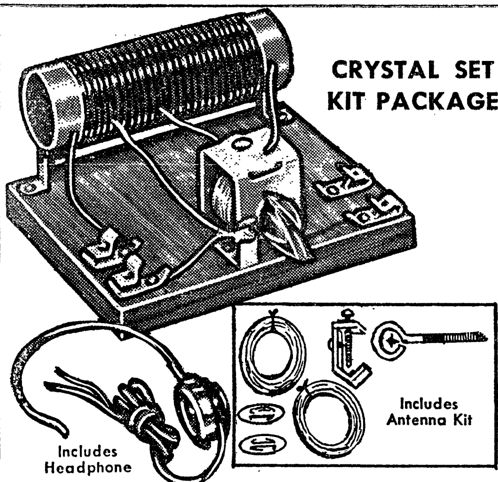
Just a Few of The Many Projects:

- 12 Radio Receivers • Electronic Thermometer
- Applause Meter • Phonograph Amplifier • Light Meter
- Burglar Alarm • Flashlight Battery Charger
- Code Transmitter • Polarity Checker
- Fire Alarm • Electronic Talker • Lie Detector

Put the space-age wonder of transistors to work for you—discover how vacuum tubes operate—perform over 100 electronic experiments with more fun, more thrills, more enjoyment than you ever dreamed possible. Apply every type of modern electronic component in creating useful, exciting projects that entertain as well as instruct. There's nothing like the 100-1 for students, hobbyists, and experimenters. No soldering is required—you need only a screwdriver. Once the main parts are mounted on the master control panel, simply reposition a few leads and parts to quickly change projects. Unique spring-type connectors are used to hold wires and smaller components. Easy to follow, step-by-step instructions guide your every move. Includes all parts and separate illustration of each project. Detailed explanation of how each circuit works is included. Size, 8x14½x8". For operation from 110-130 v., 60 cycle AC. Shpg. wt., 8 lbs.

22 D 3997 W.......................................29.95

CRYSTAL SET KIT PACKAGE

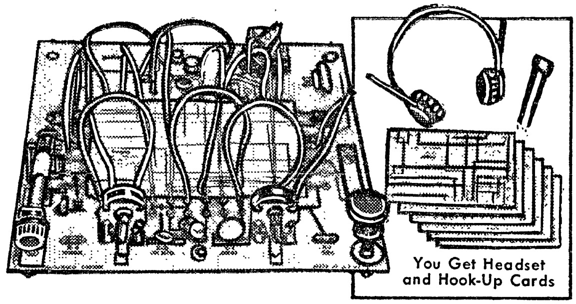


Includes Antenna Kit

Includes Headphone

Thousands of beginners have started in electronics by building this famous, low-cost crystal set kit. It's easy to build and simple to operate. Delivers loud, clear headphone reception of local broadcast stations. Circuitry employs a fixed-type, preset germanium crystal diode—requires no adjustment as did the old-fashioned crystal detectors. Special Hi-Q coil assures excellent efficiency and selectivity. Ball-bearing variable capacitor provides velvet smooth tuning. Parts mount in moments on precut plywood base with template supplied. Complete with all parts, 1000-ohm headphone and antenna kit for indoor or outdoor mounting. Detailed instructions. Shpg. wt., 4 lbs.

22 D 0024 W...................................4.95



You Get Headset and Hook-Up Cards

21-IN-1 TRANSISTOR LABORATORY KIT

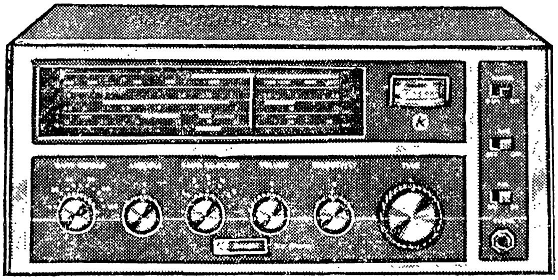
- Plug-In, Pin-Type Leads for Quick Change
- All Parts Mount on Printed Circuit Board
- Guide Cards Clearly Show Circuit Hookup
- Easy-to-Follow Assembly, Instruction Manual

Take a thrilling adventure into the space-age world of transistors. Operate your own radio station and broadcast through any nearby radio. Amaze your friends by turning electrical equipment on and off with your voice, or with a beam of light. Hear local radio stations on any of the 21-in-1's AM receivers—there's even one that's powered by sunlight. All in all, you perform 21 useful projects. Durable printed circuit board makes assembly really easy. Plug in parts and solder them just once. Follow layout shown on special guide cards. Pin-type leads plug into numbered jacks; rearrange leads to change projects. Manual gives a concise, clearly written explanation on what each circuit does and what makes it work. Supplied with all parts including 2 transistors, dual headphones (also used as microphone), plug-in leads, guide cards, relay and photocell. Battery powered; less battery (uses 1), listed below. Shpg. wt., 2 lbs.

22 D 3624 W......................................17.95
22 D 3213 W. Battery for Above. Shpg. wt., 4 oz.............87

Performance-Proven Knight-Kits Are An Exclusive Product of Allied

Exciting Shortwave and Hobby Kits by knight-kit



STAR ROAMER® SHORTWAVE RECEIVER KIT

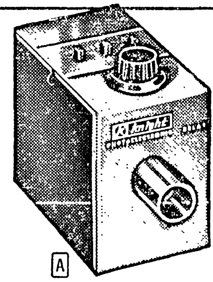
- 5 Bands Cover 200-400 kc and 550 kc through 30 mc
- Has Bandspread Control for Razor-Sharp Tuning
- Antenna Trimmer Peaks Input Signal for Top Reception
- Superhet Circuit with Controlled Regenerative IF
- Built-In Full-Toned 4″ Speaker • Has "S" Meter

Sensitive 5-band receiver kit brings you shortwave broadcasts from all over the world. Hear drama and music, plus news and sports as they happen. You also can tune marine and aeronautical frequencies, with calls from ships at sea, planes aloft, navigational beacons, 24-hour-a-day aviation weathercasts, Amateurs, the Citizens Band *and* the standard AM broadcast band. Tunes 200 to 400 kc and 550 kc to 30 mc in 5 bandswitched ranges.

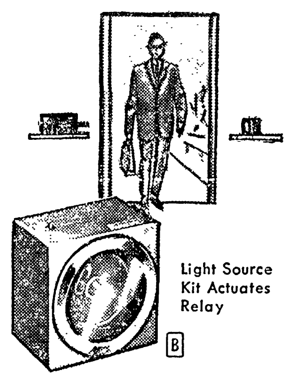
Circuit has electrical bandspread control that separates stations to give you much easier tuning. Regenerative IF and sensitivity control improve selectivity, develop beat-note for code reception. Illuminated "S" meter indicates signal strength and correct tuning for best reception. Automatic volume control circuit reduces fading and blasting. Automatic noise limiter helps block impulse noises and static. Antenna trimmer lets you peak input signal for strongest reception.

Wide 7½″ illuminated slide-rule dial provides easy logging and quick station selection. Built-in full-toned 4″ speaker; headphone jack automatically disconnects speaker for private listening. Size, 5½x12¼x8″. Charcoal gray and aluminum. With solder, instructions. For 110-130 v., 60 cycle AC. Shpg. wt., 12 lbs.

22 D 3102 W..39.95
22 D 3099 W. Outdoor Antenna Kit. Wire, lead-in, insulators. Shpg. wt., 1 lb..1.29
22 D 3257 W. Dual Headset and Phone Plug. Wt., 1 lb.........2.65



[A] Photoelectronic Relay for Light Control, Counting, Alarms, etc.



Light Source Kit Actuates Relay [B]

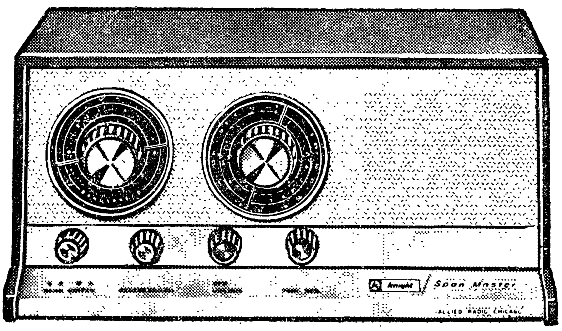
[A] PHOTOELECTRONIC RELAY KIT

Turns lights on and off, opens doors, counts, acts as a burglar alarm, even "announces" customers. Practically any light source activates it—auto headlights, flashlight, daylight, or optional Light Source Kit, below. Selectable operation: "Trip" for burglar alarm provides continuous ringing of alarm once light beam is broken; "Auto" if relay is to be operated each time beam is broken, as in counting and announcing applications. Up to 600 counts per minute. Supplies 6.3 volts AC at 0.6 amps for counter or chime. Uses sensitive cadmium-selenide photocell and thyratron circuitry. Size, 4x3x5″. 110-130 volts, 60 cycle AC. 3 lbs.

22 D 3702 W..14.95

[B] LIGHT SOURCE KIT. Consists of transformer-operated sealed-beam bulb that will actuate relay from up to 250 feet or more. Deep-red plastic filter. Steel case, chrome trim. 6x6x4¼″. For 110-130 v., 60 cycle AC. 5 lbs.

22 D 3703 W..8.95
22 D 3007 W. Chime. For announcing, etc. 2 lbs.........4.80
22 D 3025 W. Counter. 5-digit, non-resetting. 6 oz.......3.20



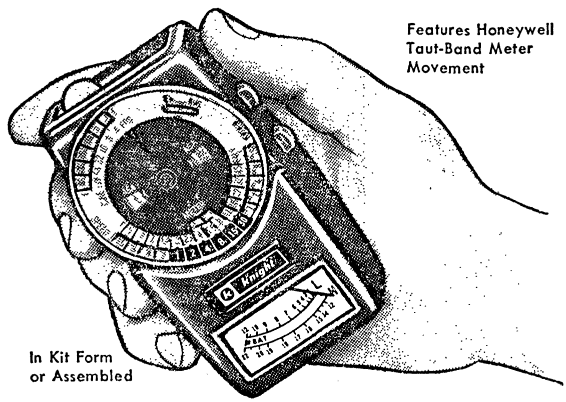
SPAN MASTER® SHORTWAVE RECEIVER KIT

- 4 Bandswitched Ranges Cover 540 kc through 30 mc
- Built-In 4″ Speaker • Electrical Bandspread Tuning

Listen in on messages from ships and aircraft; hear interesting communications on the Citizens Band; receive Amateurs on the 160, 80, 40, 20, 15 and 10-meter bands. Plus music and news from the earth's far corners, and the standard AM broadcast band for regular programs. Features a super-sensitive regenerative circuit that tunes from 540 kc through 30 mc. Handy bandswitch selects any one of the 4 bands available. Bandspread tuning and fine regeneration controls simplify tuning and separate crowded stations. Headphone terminals are provided with speaker cut-out switch to permit private headphone reception if desired. Coils for each tuning range have their own antenna windings to assure maximum sensitivity. AC transformer-type power supply gives peak-efficiency vacuum tube performance, and provides isolation from power line. 6 operating controls: Calibrated Main Tuning, Bandspread Tuning, Bandswitch, Volume with On-Off Switch, Coarse Regeneration, Fine Regeneration. Size, 6¼x14x6¾″. Gray-blue wood cabinet. Less headphone, facing page, and antenna kit, above. For operation from 110-130 v., 60 cycle AC. Shpg. wt., 9 lbs.

22 D 3258 W..25.95

Features Honeywell Taut-Band Meter Movement



In Kit Form or Assembled

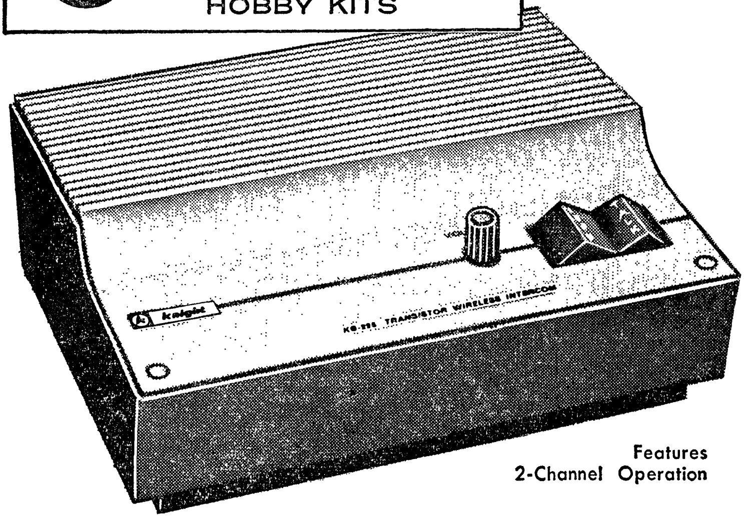
KG-275A DELUXE EXPOSURE METER KIT

Improved, two-range taut-band meter has super-sensitive battery-powered cadmium-sulphide photocell. Gives correct exposure settings for all color and black-and-white photos and movies. Reads reflected or incident light from 0.014-28 fc (low) or 28-28,000 fc (high). Easy pushbutton range selection. Scales indicate proper lens opening and shutter speed. Has battery-test button. ASA Settings: 6-12,000 (1° to 12°). f/Stops: 0.5-64. Shutter Speeds: 1/4000 sec. —30 minutes. Cine: 4-128 frames/sec. EV: —8 to +22. Optical Acceptance Angle: 30°. Color Response: Peaked at 5600A. High-impact gray cycolac case, 4½x2½x1⅜″. Includes 1.35-v. mercury batteries (uses 2). Supplied complete with neck cord, instructions. Shpg. wt., 14 oz.

22 D 3301 W..19.95
22 D 3069 W. Soft Leather Carrying Case. Shpg. wt., 4 oz......2.95
22 D 3186 W. Deluxe Hard Leather Carrying Case. Wt., 6 oz...4.95
22 D 3550 W. Factory-Assembled Meter, Gift-Boxed, with Deluxe Leather Carrying Case. Shpg. wt., 1½ lbs...................29.95

knight-kit
HOBBY KITS

Radio and Intercom Kits

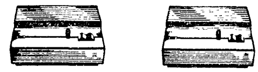


Features
2-Channel Operation

KG-225 SOLID-STATE WIRELESS INTERCOM KIT

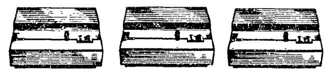
Transistorized and wireless—it's the finest, most advanced intercom kit you can buy! Use in office, plant or shop; from house to garage; even between adjacent homes or buildings on same electric-company power-line transformer. Move stations from place to place—just plug into any AC wall outlet. Since coils are pretuned at factory, there's no need for further adjustment. Minimum noise, hum and microphonics; virtually maintenance-free operation; compact size; cool-running—no ventilation problems; amazingly low current drain. Adjustable squelch circuit provides quiet, static-free messages. Dual frequency (136 and 215 kc) switch allows 2 systems to be operated simultaneously and independently of each other. 3-transistor and 1-diode circuit. Has transformer-operated, full-wave bridge power supply. Large press-to-talk rocker switch has locking position for continuous transmit. Styrene case styled in Sea Foam and Cream; has keyhole slots for handy wall mounting. Size, 3¼x8¼x5¾". With all parts and instructions. For operation from 110-130 v., 60 cycle AC. Shpg. wt., 4 lbs.
22 D 3309 W. . (Two or More Required for System.)...................... Each 19.95

KG-225 SYSTEMS



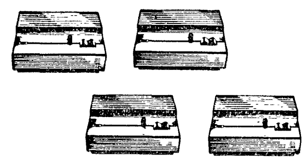
2-Station System—Save $2

Separately, $39.90. Low-cost system with two popular KG-225's. Talk between two points on same power line transformer. Shpg. wt., 8 lbs.
22 D 0015 L2W. 37.90



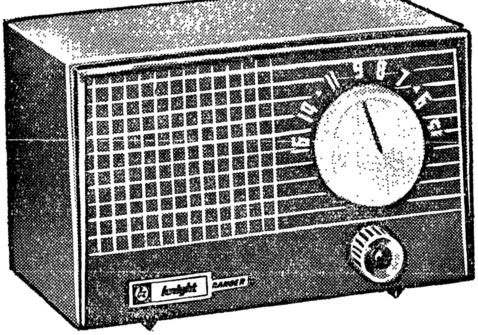
3-Station System—Save $3

Separately, $59.85. Perfect for house, garage, warehouse or shop. An excellent 3-way communications system that eliminates many steps. All are Masters—send and receive calls. Wt., 12 lbs.
22 D 0016 L3W. 56.85



4-Station System—Save $4

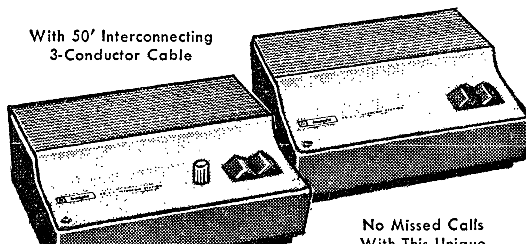
Separately, $79.80. Dual-frequency permits 2 systems to be operated simultaneously and independently of each other, when desired. Supplied complete with all parts. Shpg. wt., 16 lbs.
22 D 0017 L4W. 75.80



"RANGER III" AM TABLE RADIO KIT

A dependable, smartly styled radio that you build yourself! Featuring finest quality parts and expert design, the famous "Ranger III" table radio delivers outstanding reception of the entire standard AM broadcast band—tunes 540 to 1640 kc. Utilizes highly sensitive 50C5 power output tube that delivers up to a full watt of audio power to a large Alnico V permanent magnet speaker. This, coupled with an attractive, acoustically designed cabinet produces rich, full tone. The superheterodyne circuitry uses a highly efficient built-in Hi-Q loop antenna for excellent sensitivity. Automatic volume control (AVC) minimizes annoying blasting and fading. And, because multi-purpose tubes are used, the 4-tube circuit (plus rectifier) of this radio is really simple to wire. Miniature tubes used are: 12BE6, 12BA6, 12AV6, 50C5 and 35W4 rectifier. Smooth-tuning ball bearing capacitor permits easy station selection. 5⅜x8⅝x4⅝". Supplied complete with all parts, wire, solder, black cabinet with white trim, and instructions. For 110-130 v., 50-60 cycle AC, or DC.
22 D 3736 W. . Shpg. wt., 5 lbs.........................15.95

With 50' Interconnecting
3-Conductor Cable



No Missed Calls
With This Unique
"never-off" Level Control

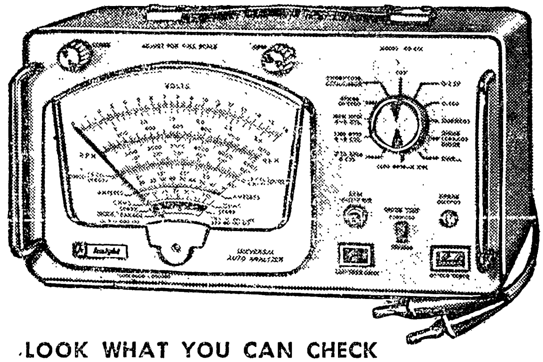
KG-210 2-STATION INTERCOM KIT

All-transistor intercom system for home, shop or office. Gives you top performance at an amazingly low price. Thanks to an advanced 3-transistor and 2-diode circuit, it's extremely cool running, requiring no special ventilation. Inexpensive to operate—uses just about as little electricity as an ordinary household electric clock. You have minimum hum, noise and microphonics—messages come through clearly. Can be used with up to 2 additional Remote stations. Ultra-modern output circuit design is such that the volume is not lowered when extra Remotes are added. Output impedance is 15-45 ohms; output level, 350 milliwatts. Tops in convenience—only Master plugs into power outlet. Transformer-operated for line isolation. Styrene cases tastefully styled in Beige and Cream. Size, 3¼x8¼x5¾". With all parts, detailed instructions, and 50' cable (extra cable, below). For operation from 110-130 v., 60 cycle AC. Shpg. wt., 7 lbs.
22 D 3306 W. 19.95
22 D 3307 W. . Extra Remote Kit. Less cable, below. 3 lbs.... 5.95
22 D 3104 W. . Extra Interconnecting Cable. 100' Wt., 3 lbs... 3.50

Knight-Kits Include Wire, Solder and Full Assembly Instructions

Helpful Kits for Garage, Car and Workshop

KG-375 UNIVERSAL AUTO ANALYZER KIT



Tune-ups and trouble-shooting are fast and easy with this completely portable, all-in-one auto analyzer. In money-saving Knight-Kit form, it's simple to assemble and compares to factory-assembled units costing much more. Self-powered, you can take it in the car and perform actual road test. Engine performance is read from large 7" panoramic meter. Scales: 0-3.2-16 volts, 0-90 amps, 0-1200-6000 rpm, 0-45°-60°-90° dwell angle, 0-20,000 ohms, Relative Spark Output and Leakage. Neon spark indicator.

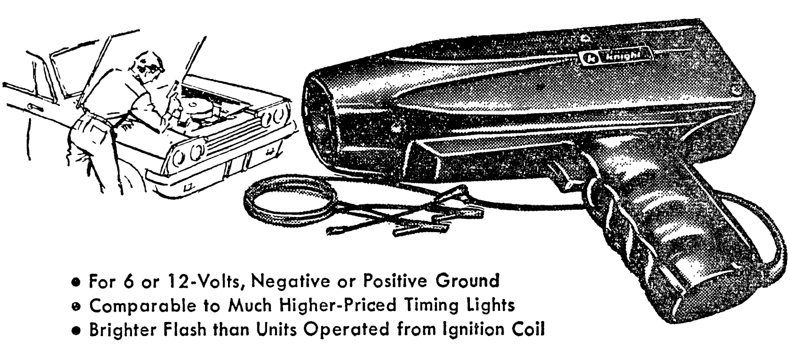
Electronic tachometer scales indicate engine rpm to help you set idle speed and automatic transmission shift points. Dwell-angle scales check distributor operation and spark advance. Checks ignition condenser by substitution. Other scales measure generator output voltage and current, and operation of voltage regulator. Locates faulty distributor points, bad plugs, defective spark coils, leaking ignition wiring. Checks charge and discharge capacity of batteries. Performs forward and reverse test on alternator diodes. Test all electrical accessories, helps you check lights, horn, electric wipers, fuses, defroster and heater motors.

Single function switch. Calibrate and adjust controls. Sensitive d'Arsonval meter movement, solid-state circuit with 1% multiplier resistors, 5% resistors in pulse counter. Metal cabinet has compartment for test leads. Roll-bar and carrying handles. 6½x12½x5½". For 6 or 12 v. systems, negative or positive ground. Comprehensive manual has complete tune-up and trouble-shooting directions. Supplied complete with all parts, solder, test leads, 4 "D" batteries, 90-amp shunt and step-by-step instructions for quick and easy assembly. Shpg. wt., 11 lbs.

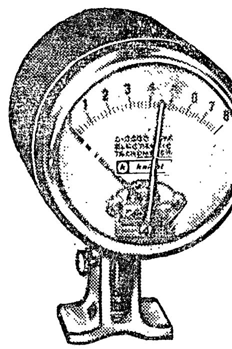
22 D 3308 W.................................49.95

LOOK WHAT YOU CAN CHECK

- Engine Idle, Timing
- Distributor Dwell Angle
- Voltage Regulator
- Generator Volts/Amps
- Plug Output, Leakage
- Coil Resistance
- Condition of Point Surfaces
- Open Condensers
- Alternator Diodes
- Battery Charge/Discharge
- Ground Circuits
- Electrical Accessories



- For 6 or 12-Volts, Negative or Positive Ground
- Comparable to Much Higher-Priced Timing Lights
- Brighter Flash than Units Operated from Ignition Coil



DELUXE SOLID-STATE DC POWER TIMING LIGHT KIT

High-intensity timing light "stops" timing marks on engine flywheel or crankshaft vibration dampener. Lets you accurately check timing by lineup with pointer. Helps you get maximum power and fuel economy by making sure plugs are firing at proper intervals in compression cycle. Checks ignition timing, synchronization of double breaker arms, automatic spark advance, distributor cam wear. Comparable to assembled timing lights costing much more.

Built-in solid-state power supply and high intensity flash-tube generate brilliant flashes, sharply focuses by a light-concentrating lens. Makes it possible for you to see timing marks even in brightly lighted areas. Flashes are much brighter than those obtained from lights operated directly from ignition coil. Form fitted pistol grip with trigger switch provides excellent balance and convenient operation. This DC Power Timing Light delivers up to 1250 flashes per minute (2500 rpm with 4-cycle engine).

High-voltage cable attaches by insulated adapter clip between spark plug and its wire; DC power cables attach directly to car battery. For 6 or 12 volt systems, negative or positive ground. High-impact, cycolac housing. All cables are 5½-ft. long for under-hood accessibility. Size, 6⅞x8¾x2". With all parts, solder, step-by-step assembly instructions and operating directions. Shpg. wt., 2 lbs.

22 D 3312 W..19.95

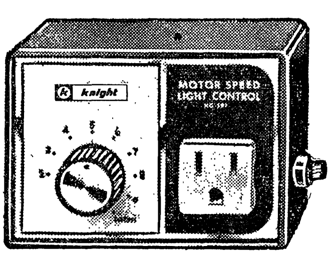
TACHOMETER KIT

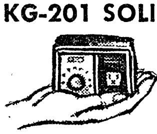
Registers engine speed from 0-8000 rpm, electronically. Transistorized switching and zener diode regulation provide 3% of full scale accuracy under all conditions. Operates with 1-8 cylinder, 2-cycle, or 1-16 cylinder, 4-cycle engines using standard ignition coil and distributor from 9-32 volts DC; plus most transistorized negative-ground ignition systems. Also operates with magneto and 6 v., DC systems when used with Adapter Kit, below. "Red-Line" reference pointer may be preset to any rpm —shows when to shift gears, or when maximum torque or maximum safe engine speed is developed. Calibrates from 60-cycle house current. 4⅞x3¼x3⅞". With bracket and strap.

22 D 3944 W. Neg. Ground Only..19.95

22 D 3909 W. Adapter Kit for 6-Volt and Magneto Systems. Shpg. wt., 4 oz......98¢

KG-201 SOLID-STATE MOTOR SPEED/LIGHT CONTROL KIT





- Varies Speed of Power Tools with Universal AC-DC Motors
- Controls Brightness of Incandescent Lamps, Photofloods
- Controls Output of Appliances with Heating Elements

Get the right power tool speed for the job every time! Use it with drills, saws, sanders to reduce speed. Calibrated output control. 3-wire output receptacle and power cord for safety. For any universal-wound AC/DC motor-driven appliance with nameplate rating of 7.5 amps or less, resistive loads to 900 watts, incandescent lamps to 500 watts. Circuit-breaker protected. Easy to assemble. Silicon controlled rectifier is premounted on heat sink. Only 2⅞x4x1½". For 110-130 v., 50-60 cycles AC. Complete with all parts, instructions. Shpg. wt., 2 lbs.

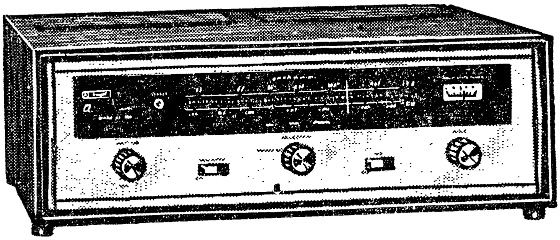
22 D 3335 W...9.95

knight-kit

STEREO HI-FI

For the Highest Quality

NEW KG-790 SOLID-STATE TUNER KIT FOR THE FINEST IN STEREO FM-AM



- Has "Factory Built" Look of the Finest Tuners
- Backlighted Dial
- Four Double-Tuned IF Stages for Super-Sensitivity
- Tuning Meter
- Preassembled IF Strip and FM Front End
- Automatic Stereo Switching

Uncompromised in materials and workmanship to bring you magnificent performance and styling of lasting beauty. Enjoy all the realism and every subtle depth of shading that stereo FM offers. And hear the full-range brilliance of monophonic FM, plus wide-band AM reception of sports, news, weather, all the local "DJ's."

Efficient solid-state circuitry boasts 22 transistors and 14 diodes to assure consistently reliable reception in virtually all areas with the use of almost any antenna.

The IF amplifiers and FM front-end are factory-assembled and precisely aligned. Zener diode regulation for utmost stability. Also, all coils and transformers are professionally aligned. Four FM front-end tuned circuits and 4 double-tuned IF stages assure highest sensitivity and excellent selectivity. Adjustable automatic inter-station muting eliminates noise while tuning between stations. Circuit automatically switches to stereo mode when a stereo FM broadcast is received, and the front-panel stereo indicator light flashes on for positive identification of stereocasts.

Automatic threshold control helps prevent false stereo indications on fringe signals. Has SCA filter to prevent storecast interference. AM circuit has RF stage, wideband IF amplifiers, and a 10-kc whistle filter for clarity rarely found in an AM tuner. Ball-bearing tuning makes station selection effortless. Back-lighted two-color slide-rule dial gives beautiful luminous effect. AM-FM tuning meter permits you to perfectly tune any station in seconds.

High-quality printed circuits with transistor sockets for easiest assembly. Built-in ferrite-rod AM antenna, terminals for external AM and FM antennas. 5x16¾x15". With complete assembly instructions. Sierra Gold extruded aluminum front panel. Less case-below. For 110-130 v., 60 cycle AC. Shpg. wt., 20 lbs.

22 D 3760 W.................................... **139.95**

22 D 3040 W. Oiled Walnut Wood Case. Shpg. wt., 7 lbs.. **19.95**

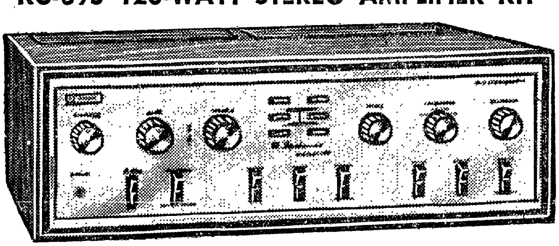
KG-790 SPECIFICATIONS

FM SECTION. Usable IHF Sensitivity: 2.5 microvolts for 30 db quieting. **Capture Ratio:** 2 db. **IF Rejection:** 80 db minimum. **Image Rejection:** over 70 db. **Tuning Range:** 87 to 109 mc. **Hum and Noise:** −60 db. **IF Bandwidth:** 300 kc. **Frequency Response:** ±2 db, 50 cps to 15 kc. **Harmonic Distortion:** less than 0.75% at 1-volt output. **Antenna:** unbalanced 300-ohm input.

MULTIPLEX SECTION. 19-kc Suppression: 55 db minimum. **38-kc Suppression:** 50 db minimum. **SCA Rejection:** greater than 30 db at 67 kc. **Channel Separation:** exceeds 40 db at 1 kc.

AM SECTION: Sensitivity: 3.5 microvolts for 20 db signal-to-noise ratio; 1.5 microvolts for 10 db signal-to-noise ratio. **IF Bandwidth:** 7.5 kc. **IF Rejection:** 60 db minimum. **Image Rejection:** 70 db minimum at 1 mc. **10-kc Rejection:** 40 db minimum. **Tuning Range:** 535 to 1620 kc. **Antenna:** built-in ferrite rod; terminals for external antenna for long-distance reception.

KG-895 120-WATT STEREO AMPLIFIER KIT



Advanced solid-state design has professional-quality throughout—in components, performance and appearance. Thirty-four premium semiconductors and direct-coupled output for flawless sound. Has automatic, self-resetting circuit breakers; massive heat sinks for rapid heat dissipation; positive-acting rocker switches; 6 illuminated windows to show source; low-impedance stereo headphone jack; full tape monitoring facilities. Output matches 4, 8, or 16-ohm speakers. Modular PC assembly. 7 matched stereo inputs, (6 switched pairs plus tape monitor controlled by front-panel switch). Recorder outputs unaffected by control settings. Four pairs of level-set controls for inputs. Sierra Gold extruded aluminum front panel. 5x16¾x15". Less case below. For 110-130 v., 60 cycle AC. Shpg. wt., 28 lbs.

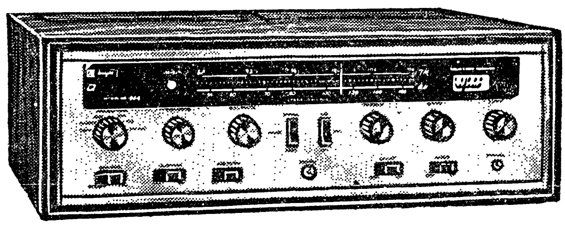
22 D 3604 KW.................................... **149.95**

22 D 3040 W. Oiled Walnut Wood Case. 7 lbs............ .. **19.95**

KG-895 SPECIFICATIONS

Power Output (8 ohm load): 120 watts IHF, 60 watts per channel; 240 watts, peak; 80 watts continuous sine wave, 40 watts per channel. **Response:** ±1 db, 18-30,000 cps at full rated power output. **Harmonic Distortion:** less than 0.7% at full output. **IM Distortion:** less than 1%. **Hum and Noise:** high-level inputs, 75 db below full output; magnetic phono, 65 db; tape head, 60 db. **Power Bandwidth:** rated power or greater, 20-20,000 cps at less than 1% distortion. **Damping Factor:** 6, for 8-ohm speaker. **Separation:** over 55 db.

KG-964 STEREO FM-AM RECEIVER KIT



Knight-Kit's finest all-in-one receiver is packed with important features. Uses 46 semiconductors for magnificent sound. Offers drift-free FM, and includes multiplex circuit that automatically switches to stereo mode, highly sensitive AM reception, plus full-feature stereo amplifier. FM front-end and AM/FM IF strip are factory assembled and aligned. Illuminated tuning meter; stereo-FM indicator; direct-coupled output for 4, 8, or 16 ohm speakers; stereo headphone jack; SCA filter. Modular PC assembly. 7 matched stereo inputs, (6 switched pairs plus tape monitor controlled by panel switch). Recorder outputs unaffected by control settings. 4 pairs of level-set controls for inputs. Sierra Gold extruded aluminum front panel. 5x16¾x15". Less case. For 110-130 v., 60 cycle AC. Shpg. wt., 26 lbs.

22 D 3766 ZW.................................... **189.95**

22 D 3040 W. Oiled Walnut Wood Case. 7 lbs.. .... **19.95**

KG-964 SPECIFICATIONS

Power Output (8-ohm load): 64 watts IHF; 128 watts, peak; 36 watts continuous sine wave. **Response:** ±1 db, 20-35,000 cps at full rated power output. **Harmonic Distortion:** less than 1% at full output. **IM Distortion:** less than 1.5%. **Hum and Noise:** high-level inputs, 65 db below full output; low-level, 60 db. **IHF Sensitivity:** 2.5 mv for 30 db quieting; 1.25 mv for 20 db. **Separation:** 35 db. **Outputs:** 4, 8, or 16-ohms for each channel; front panel stereo headphone jack; high level for stereo taping.

See Allied's Catalog 260 for Complete Knight-Kit Listings

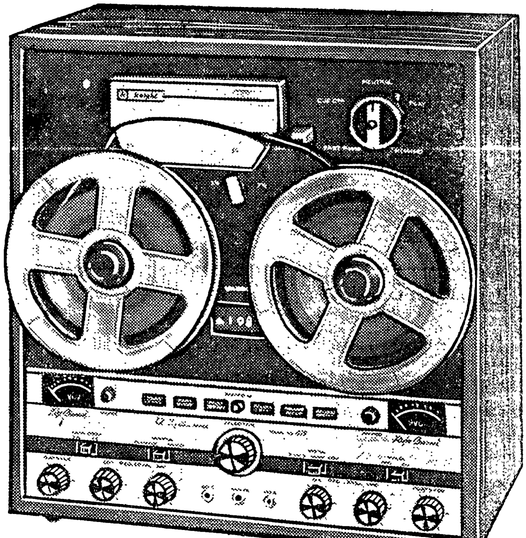
Solid-State Stereo Hi-Fi Kits Choose Knight-Kit

KG-415 DELUXE STEREO TAPE DECK KIT

- Preassembled Viking Tape Transport Built to Knight-Kit Specs
- Exclusive Headphone Amplifier Module. • Bias Test Oscillator
- Six-Position Selector Control with Illuminated Windows

Unmatched for performance, quality and value. Offers everything you could want in taping equipment. This distinguished instrument gives stereo of unsurpassed realism. Boasts a *preassembled* Viking 2-motor transport specially made to Knight-Kit specifications. Three 4-track hyperbolic-contoured heads for finest sound; two studio-type VU meters for accurate level control; 6-position selector with record and playback functions shown by illuminated windows; echo and sound-on-sound effects; plus direct monitor facilities. *Easily assembled* solid-state, plug-in modular circuitry includes exclusive headphone amplifier module and bias test oscillator to provide unparalleled performance. Complete 4-track stereo and mono deck provides full versatility of controls. With all parts, 7" take-up reel. Less base and tape. 14½x14x8½" (overall depth, 9⅝"). For 110-130 v., 60 cycle AC. Shpg. wt., 30 lbs.

22 D 3788 ZW.................................. 249.95
22 D 3003 W. Oiled Walnut Wood Base. Shpg. wt., 9 lbs. . 19.95
22 D 3006 KW. Deluxe Carrying Case. Shpg. wt., 18 lbs... 32.95
22 D 3183 W. Dynamic Microphone for KG-415. Wt., 2 lb. Ea. 10.95

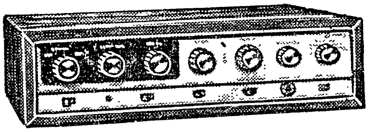


Shown with Optional Wood Base

KG-415 SPECIFICATIONS

Frequency Response: ±2 db, 50-18,000 cps at 7½ ips; ±2 db, 50-14,000 cps at 3¾ ips. **Flutter and Wow:** less than 0.2% rms at 7½ ips. **Signal-to-Noise Ratio:** 50 db or better. **Solid-State Module Circuitry:** includes 17 transistors and 6 diodes. **Bias Oscillator:** 1-kc test oscillator for precise adjustment of head voltages. **Equalization:** 7½ ips speed, NAB; 3¾ ips, EIA. **Monitor Output:** modular amplifier for low-imp. stereo headphones.

KG-870 70-WATT AMPLIFIER KIT



- Neat, Modular Printed Circuitry
- Handy Plug-In Transistor Sockets
- Front-Panel Stereo Headphone Jack

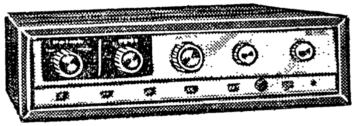
Popular stereo amplifier has 26 premium semiconductors. Develops 70 watts IHF power—140 watts peak. No output transformers or DC blocking capacitors to compromise tonal quality—reproduction is totally clean. Knight-Kit PLUS features—modular printed circuitry, plug-in transistor sockets to speed assembly. Has 5 pairs of stereo inputs; loudness control, rumble and scratch filters; dual bass and treble controls; headphone jack. 2¾x13x11". Sierra gold/charcoal panel. With instructions. Less case, below. For 110-130 v., 60 cycle AC. Shpg. wt., 15 lbs.

22 D 3603 W. 99.95
22 D 3035 W. Walnut Case. 4 lbs. . 12.95
22 D 3036 W. Metal Case. 3 lbs.....5.95

KG-870 SPECIFICATIONS

Rated Power Output: 70 watts (35 watts per channel) IHF music power; 140 watts peak power; 56 watts continuous sine wave. **Frequency Response:** flat within ±1 db, 20-25,000 cps at rated power output. **Harmonic Distortion:** 0.5% at rated power output. **IM Distortion:** less than 1.0% at rated power output. **Hum:** tuner, −80 db; magnetic phono, −68 db; auxiliary, −80 db. **Channel Separation:** 40 db. 5 **Pairs of Stereo Inputs:** tape head (NAB); magnetic phono (RIAA); tuner; auxiliary 1; auxiliary 2. **Speaker Outputs:** match either 8 or 16-ohm speakers.

KG-854 54-WATT AMPLIFIER KIT



- Solid-State Circuit Even at This Low Price
- No Output Transformers to Limit Response
- 14 Transistors and 2 Silicon Diodes

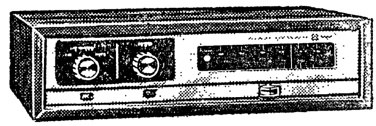
Engineered for exceptionally simple assembly, plus true hi-fi sound. Large printed circuit board; handy plug-in transistor sockets. 5 pairs of inputs for every program source. Full array of controls: selector switch, volume control, balance control, separate bass and treble controls. Switches: stereo reverse, loudness control, scratch filter, rumble filter, stereo/mono, power on/off, speaker phase/reverse. 2¾x13x11". Sierra gold/charcoal panel. With solder, and detailed step-by-step assembly instructions. Less case, below. For 110-130 v., 60 cycle AC. Shpg. wt., 14 lbs.

22 D 3605 W. 79.95
22 D 3035 W. Walnut Case. 4 lbs. . 12.95
22 D 3036 W. Metal Case. 3 lbs.....5.95

KG-854 SPECIFICATIONS

Total Rated Power Output: 54 watts IHF music power, 108 watts peak power; 34 watts continuous sine wave power. For 8 or 16 ohm speakers. **Frequency Response:** ±1 db, 20 to 25,000 cps. **Distortion:** harmonic, less than 1%; IM, less than 1.5% (both measured at full power output). **Hum and Noise:** tuner and auxiliary, −75 db; magnetic phono and tape head, better than −60 db. **Channel Separation:** exceeds 40 db. **Inputs:** tape head (NAB equalization); magnetic phono (RIAA equalization); tuner; auxiliary 1; auxiliary 2. **Bass Cut or Boost:** 10 db at 100 cps.

KG-765A FM-AM TUNER KIT



- Newly Improved Solid-State Circuit
- Automatic Stereo Switching • SCA Filter
- Preassembled IF Strip and FM Front End

Newest version of our best-selling tuner kit. Tuned RF stages on FM *and* AM. FM has 3 wideband IF's, noise limiter, wideband ratio detector, AFC, AGC. AM has 10-kc whistle filter. FM front end and IF's are factory assembled and aligned. Has low-impedance outputs for long cable runs to amplifier without losses; flywheel tuning; filtered stereo tape recording outputs; edge-lit dial; stereo indicator light; FM-AM signal-strength tuning meter. 15 transistors, 18 diodes. 2¾x13x11". With instructions. Less case, below. For 110-130 v., 60 cycle AC. Shpg. wt., 13 lbs.

22 D 3767 W. 99.95
22 D 3035 W. Walnut Case. 4 lbs...12.95
22 D 3036 W. Metal Case. 3 lbs.....5.95

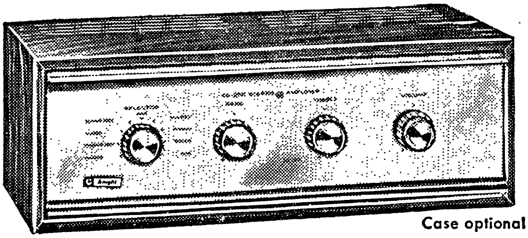
KG-765A SPECIFICATIONS

FM Section: Sensitivity: 2.5 μv for 30 db quieting (IHF); 1.25 μv for 20 db. **Response:** ±1 db, 20-20,000 cps. **Harmonic Distortion:** below 1%. **Hum and Noise:** 55 db below 1 v. **Bandwidth:** 250 kc. **Capture Ratio:** 9 db. **IF Rejection:** 70 db; **AM Suppression:** 30 db. **Separation:** 30 db. **AM Section: Sensitivity:** 3 μv for 10 db S/N. **Bandwidth:** 10 kc at 6 db down. **Hum and Noise:** −40 db. **Rejection:** IF, 55 db; image, 40 db. **Distortion:** less than 1%. **Antennas:** FM, 300-ohm external, folded-dipole twinline; AM, ferrite loopstick. Provision for external antenna connection.

All Kits on These Two Pages Shown in Optional Wood Cases

knight-kit HIGH FIDELITY

High Quality...Low Prices



Case optional

KG-250 24-WATT STEREO AMPLIFIER KIT

- 24-Watt IHF, 48-Watt Peak Power Output
- DC on Preamp Tube Filaments Minimizes Hum
- Push-Pull Output Stage
- Magnetic Phono Inputs

This popular stereo amplifier kit offers sophisticated Knight-Kit styling; 12 clean watts (24-watts, peak) of IHF output power on each channel from a powerful push-pull output stage with top-quality transformers. Simplified point-to-point wiring for the fastest and easiest assembly imaginable.

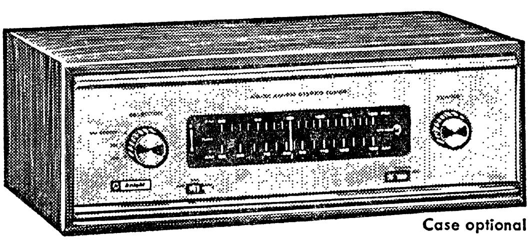
Offers built-in RIAA equalized preamplifiers for magnetic cartridges, with DC-operated tube filaments to help prevent hum. Separate boost and cut-type bass and treble controls for both channels. Selector switch instantly chooses stereo, stereo reverse, or monophonic modes, as well as phono, tuner, or auxiliary inputs.

Concentric, clutch-type volume control varies both channels separately or simultaneously; compensates for differences in inputs or speakers. 4⅛x13⅞x8½". Tubes: two ECC83/12AX7, four ECL82; plus EZ81/6CA4 rectifier. With full instructions. Less case, below (shown in wood case). For 110-130 v., 60 cycle AC.

22 D 3317 W. Shpg. wt., 13 lbs.................... **39.95**
22 D 3030 W. Oiled Walnut Wood Case. Shpg. wt., 4 lbs.. **10.95**
22 D 3031 W. Brown Metal Case. Shpg. wt., 4 lbs.......... **5.95**

KG-250 SPECIFICATIONS

Rated Power Output: 24-watt IHF; 48 peak; 20-watt sine wave.
Frequency Response: ±1 db, 30-15,000 cps.
Distortion: less than 1.5%.
Hum and Noise: Tuner, −65 db; Mag. phono, −50 db.
Channel Separation: 40 db.
Output Impedance: 4, 8, 16 ohms per channel.
Input Sensitivity: Mag. phono, 6 mv; Ceramic Phono, 400 mv; Tuner and Aux.; 1 volt.



Case optional

KG-50 STEREO MULTIPLEX FM-AM TUNER KIT

- Front-End FM Circuit Fully Factory Assembled and Aligned
- Automatic Stereo Indicator Light on Front Panel • AFC
- Filtered Recording Outputs for Perfect Tapes from Stereo FM

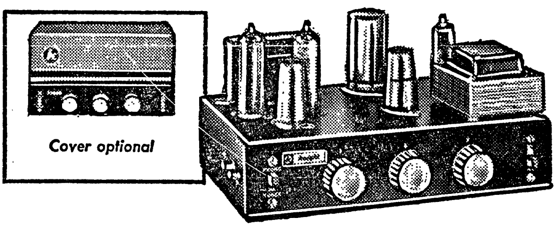
Quality styling and first-rate performance. Hear sparkling stereo FM, wideband conventional FM, and AM—at a low price. FM front end is factory assembled and aligned for peak sensitivity. IF and multiplex coils are factory aligned, too. Deluxe "exclamation point" tuning indicator pinpoints FM and FM stereo stations. Front-panel stereo indicator light flashes on when a stereo FM program is received. Other features: RF stage on FM; wideband ratio detector; AFC for rock-stable, drift-free FM; separation control; low-impedance cathode follower outputs for long cable runs to amplifier without high-frequency losses; recording outputs with 38-kc filters for flawless stereo taping; and smooth flywheel tuning. 4⅛x13⅞x7¾". With step-by-step instructions. Less case, below (shown in wood case). For 110-130 v., 60 cycle AC.

22 D 3720 W. Shpg. wt., 12 lbs.................... **69.95**
22 D 3030 W. Oiled Walnut Wood Case. Shpg. wt., 4 lbs.. **10.95**
22 D 3019 W. Brown Metal Case. Shpg. wt., 3 lbs.......... **5.95**

KG-50 SPECIFICATIONS

Usable FM Sensitivity: 3 microvolts for 30 db quieting.
Frequency Response (FM): ±1 db, 50-15,000 cps.
IF and Detector Bandwidth (FM): 200 kc.
Multiplex Channel Separation: 30 db
AM Sensitivity: 3 μv for 10 db signal-to-noise ratio.
IF Bandwidth (AM): 10 kc.

EVEN OUR LOWEST PRICED KNIGHT-KITS OFFER "BIG-SET" SOUND



Cover optional

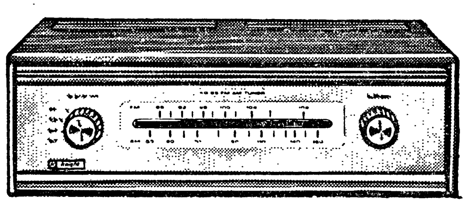
KM-15 14-WATT MONAURAL AMPLIFIER KIT

Exceptionally compact, yet engineered for true hi-fi monophonic sound. Push-pull output with 15 db of inverse feedback for clean, clear sound. Separate bass and treble controls. Inputs: magnetic cartridge and ceramic cartridge or tuner, switched at front panel. Jet black chassis 5x9½x6". With all parts, wire, solder, and detailed instructions. Less cover, below. For 110-130 v., 60 cycle AC. Shpg. wt., 8 lbs.

22 D 3784 W..................................... **19.95**
22 D 3783 W. Metal Cover. French Gray. Shpg. wt., 2 lbs... **3.95**

KM-15 SPECIFICATIONS

Output: 14 watts IHF, 28 watts peak, 12 watts sine wave.
Response: ±1.5 db, 30-15,000 cps at rated power.
Harmonic Distortion: 1% at rated power.
Hum and Noise: Tuner, −65 db; Magnetic Phono, −45 db.
Output Impedance: 4, 8, and 16 ohms.



Case optional

KG-65 MONAURAL FM-AM TUNER KIT

Packed with quality, yet it's Knight-Kit's lowest priced tuner. Modern printed circuit contributes to easy, enjoyable assembly. Cathode-follower output permits long cable runs to amplifier without high-frequency loss. AFC locks in FM stations. RF and IF coils are aligned at factory—require no extra adjustment. Jack for stereo multiplex adapter. Weighted flywheel tuning. 4⅛x13⅞x8". Platinum gold extruded aluminum front panel. Less case (shown in wood case). 110-130 v. 60 cy. AC. 10 lbs.

22 D 3315 W. Fits cases under KG-50, above......... **49.95**

KG-65 SPECIFICATIONS

FM Sensitivity: 4 μv for 30 db quieting (IHF).
FM Frequency Response: ±1 db, 20-20,000 cps.
FM Hum and Noise: 60 db below 1 volt.
AM Sensitivity: 3 μv for 10 db signal-to-noise ratio.
AM Frequency Response: 20-8000 cps.

Knight-Kits Include All Parts, Wire, Solder, Full Assembly Instructions

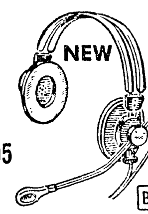
Headphones for all Purposes

TELEX GENERAL-PURPOSE HEADPHONES

Quality Headphones for Amateurs, CB, Shortwave Listeners and Language Labs

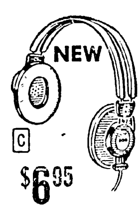
$13.50

A



$16.95

B



C

$6.95

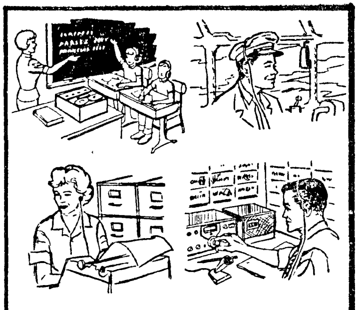
[A] HS-2000 "TELESET" DUAL PHONES

High-quality dual headset for Amateurs, Citizens Band, language lab, and other uses. Magnetic element provides maximum speech clarity. Comfortable, spring-type stainless steel headband is rubber-covered. Response, 50-10,000 cps. Impedance, 2000 ohms. 6-ft. cord with standard 1/4" phone plug. Shpg. wt., 8 oz.
17 D 6070........................13.50

[B] DUAL PHONES WITH BOOM MIKE

Phones have removable ear cushions. Magnetic element, high impedance mike. With phone and mike plugs. Shpg. wt., 1 lb.
17 D 6218. 2000 ohms..............16.95
17 D 6219. 3.2 ohms...............16.95

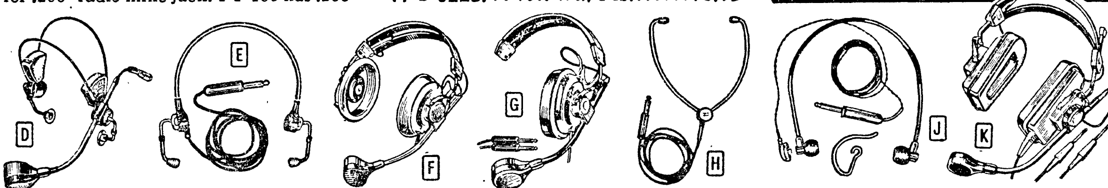
[C] ABOVE PHONES, LESS BOOM MIKE. 1 lb.
17 D 6220. 2000 ohms...............6.95
17 D 6221. 600 ohms................6.95



A wide selection of high-quality headphones for Amateur, Citizens Band and commercial radio operators, shortwave listeners, pilots, language labs, TV and radio crewmen, and secretaries. Lightweight for comfort during long listening periods. Wide response for maximum clarity. Of finest design and materials, they provide faithful sound reproduction even under difficult operating conditions year after year.

NEW TELEX AIRCRAFT/MOBILE PUSH-TO-TALK SWITCH

Fits 1/2 to 1" dia. control wheel of aircraft or car's steering wheel. Plug on 6' coiled cord for .206" radio mike jack. PT-100 has .206" jack for boom mike; PT-101, 1/4" jack.
17 D 6222. PT-100. Wt., 1 lb.......18.95
17 D 6223. PT-101. Wt., 1 lb.......18.95



Lightweight Headsets · Magna-Twin Mike/Headsets · Secretarial Headsets · Language Lab Headset

[D] BCW-02 HEADSET WITH BOOM-MIKE

Lightweight (3 1/2 oz.) easy-to-slip-on headset for pilots, ship-to-shore, television, Amateur, and switchboard use. Tone arms pipe sound to ears without covering them. Boom rotates 300°. Single cord gives freedom of movement. Headset impedance, 500 ohms. Hi-Z carbon mike. Less cord, below. Shpg. wt., 1 lb.
17 D 6518........................24.00
17 D 6293. CBE-54 Cord. 5-ft. length with std. 1/4" phone plug. 3 oz............7.95

[E] HTW-2 FAA-APPROVED "TWINSET" HEADSET

Perfect for pilots, Hams, CB'ers, TV and radio crewmen, language labs and secretaries. Sound is "piped" directly into ears by adjustable arms. Background sound remains intelligible for easy cabin conversation. Magnetic receiver elements rest at temples. Weigh only 1.6 oz. 5' cord connects to either element. 1/4" phone plug. With pocket carrying pouch. Shpg. wt., 10 oz.
17 D 6262. 500 ohms...............14.50
HTX-2. As above, 1000 ohms.
17 D 6047.........................14.50

[F] MRB-45 "MAGNA-TWIN" MARK III DUAL HEADSET WITH BOOM MIKE

Ideal for language labs. Magnetic headset elements have 50-10,000 cps response. Carbon boom-mike, 300-4000 cps. Headset, 500-600 ohms; mike, 50 ohms. Std. 1/4" phone plug. Gray. Shpg. wt., 2 lbs.
17 D 6060.........................30.95
17 D 6069. MRB-30. 10,000 ohm-headset. High-impedance mike (50-9000 cps)..32.95
17 D 6051. MR-6. Headset without mike. Impedance, 500-600 ohms..........18.95
17 D 6053. MR-4. Headset without mike. Impedance, 10,000 ohms...........18.95

[G] MRB-75 "MAGNA-TWIN" MARK III SINGLE HEADPHONE WITH BOOM MIKE

Versatile headset for professional communications, TV and radio crewmen, Hams, CB'ers, pilots and many other applications. Magnetic headset element delivers 50-10,000 cps response; carbon boom mike, 300-4000 cps. Impedances: headset, 500-600 ohms, boom mike, 50 ohms. Mike boom cannot accidentally rotate mike out of position. 5-ft. cord with 2 std. 1/4" phone plugs. Gray. Shpg. wt., 1 lb.
17 D 6390.........................24.95
17 D 6391. MR-11. Headset without mike. Impedance, 500-600 ohms..........12.50
17 D 6392. MR-12. Headset without mike. Impedance, 25,000 ohms...........12.95

[H] HMV-2 SECRETARY'S MONOSET

Lightweight (1.2 oz.), under-the-chin headset for use with office dictation machines. Frequency response, 50-6500 cps. Has magnetic element, metal housing, removable earplugs; 5-ft. cord with standard 1/4" phone plug. Maximum input, 25 milliwatts. Replacement cords are same as for "Tele-Fi," below. 8 oz.
17 D 6194. HMV-2. 125 ohms.......7.95
17 D 6193. HMY-2. 2000 ohms......7.95

[J] "TELE-FI" DELAYED SOUND SECRETARIAL HEADSETS

Under-the-chin headset that delays sound to one ear for better clarity. 60-6000 cps response. Earloop for one-ear listening. 5-ft. cord with 1/4" plug. 6 oz.
17 D 6149. HFR-91. 15 ohms........5.95
17 D 6225. HFV-91. 125 ohms.......5.95
17 D 6048. HFW-91. 500 ohms.......5.95
17 D 6154. HFY-91. 2000 ohms......5.95
17 D 6216. Replacement Cord. 3 oz...2.30
17 D 6313. 5' Coiled Cord. 3 oz......3.15
17 D 6284. Volume Control Cord. 125 ohms. Shpg. wt., 4 oz.....................5.95

[K] 1200-42 DUAL HEADSET WITH BOOM MIKE

Deluxe communications headset meets all requirements for language-laboratory use. Magnetic headset response, 20-20,000 cps; dynamic noise-canceling microphone response, 100-8000 cps. Impedances: headset, 600 ohms; microphone, 250 ohms. 1/4" phone plug. Gray. Shpg. wt., 1 lb.
17 D 6393.........................32.95
17 D 6394. 1210-04. Above, less mike. 24.95
17 D 6395. ACV-3 Ear Cushions. For headsets above. Washable vinyl-covered foam. Shpg. wt., 2 oz..............Per Pair 1.50

SUPEREX

$24.95

$5 Monthly

- Foam Cushions
- Dual Impedance
- Adjustable

HEADSET FOR LANGUAGE LAB AND COMMUNICATIONS USE

Lightweight headset, ideal for prolonged use as in communications and language laboratory work. Soft foam ear cushions add to wearer's comfort and block out all extraneous background noise.
Separate adjustment centers permit lengthening or shortening headband to best suit the particular needs of each user. Smooth frequency response from 60-6000 cps provides highly intelligible voice reception.
Factory-connected for high impedance 600-ohm output; leads may be easily changed to 4-16 ohms for use with individual tape recorder. 3 lbs.
17 D 6302.........................24.95

NEW!

$15.95

HEADSET WITH BOOM MIKE

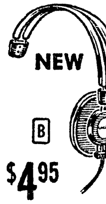
- Lightweight, Can Be Worn for Hours
- Earcushions Reduce Outside Sounds
- Sensitive Mike with Ceramic Element

Lightweight headset with boom mike is perfect for Hams, CB'ers, language labs, switchboards, and other uses. Earpieces have extra-heavy-duty magnets for clear voice reproduction and crisp CW. Headband is vinyl-covered. Comfortable ear-encompassing cushions are removable and washable. Earpieces adjust for perfect fit. Sensitive mike has ceramic element. Heavy-duty cords with phone plug for mike, tip jacks for headset. Impedances: Headset, 2000 ohms; mike, hi-Z. Gray. Shpg. wt., 1 lb.

17 D 6206.................15.95

LINCOLN OUTSTANDING VALUE IN QUALITY HEADSETS

$5.95 A



B $4.95

C $2.40

D $1.08

A NEW! DUAL HEADPHONES

Excellent-quality for Amateur and CB use. Lightweight, with vinyl-covered double headband. Adjustable earpieces have removable ear-encompassing cushions that block out ambient noise. Heavy magnets for clear sound. Heavy-duty 5′ cord with phone tips. Gray. Shpg. wt., 1 lb.

17 D 6207. 2000 ohms..............5.95
17 D 6208. 3.2 ohms...............5.95

B NEW! SINGLE HEADPHONE

Deluxe headphone for receiver monitoring and other uses. Perfect for mobile CB, since some States permit only a single phone for mobile operations. Vinyl-covered headband. Comfortable cushion is removable. 1000 ohms. Heavy-duty 5′ cord with phone tips. Shpg. wt., 1 lb.

17 D 6209.....................4.95

C LOW-COST DUAL HEADPHONES

General-purpose headphones suitable for shortwave and Amateur monitoring. Vinyl-covered double headband with easily adjustable yokes for comfort. Powerful Hyflux Alnico magnets. 1⅞″ diaphragm. 4½-ft. cotton-covered tinsel cords with phone tips. Inside terminals. Shpg. wt., 1¼ lbs.

17 D 6083. 2000 ohms.............2.40
17 D 6099. 11 ohms...............2.40

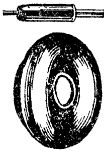
D LOW-COST SINGLE HEADPHONE

Dependable headphone suitable for hard-of-hearing installations, receiver and crystal set monitoring. Geiger counters, other applications. 1⅞″ diaphragm. 4½-ft. cotton-covered tinsel cord with phone tips. Spring-metal headband, permanently attached. 1000 ohms impedance. Shpg. wt., 8 oz.

17 D 6085......................1.08

LOW-COST HEADPHONE ACCESSORIES

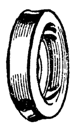
E



F

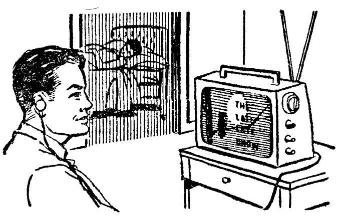
E PHONE PLUG. Adapts tip jacks to phone plug. 6 oz.
17 D 6037............................1.50

F FOAM EARCUSHIONS. Ear-encompassing to reduce external noises. Fit std. earpieces. Maximum comfort for long hours. Washable vinyl covering. 2 oz.
17 D 6203.........................Per Pair 70¢



RUBBER EARPHONE CUSHIONS. Provide comfortable listening over long periods and greatly reduce external noises. Rubber is easily washable. Fit all standard earpieces. Shpg. wt., 6 oz.

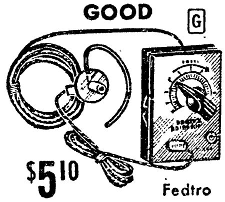
17 D 6103. 1-9 Pairs.................Per Pair 64¢
10 or More Pairs.....................Per Pair 58¢



STOP BLARING TV OR HI-FI WITH "PRIVATE LISTENERS"

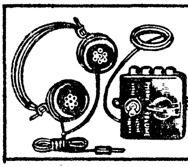
Now you can watch television or listen to your hi-fi system without disturbing others. Great for the bedroom—you can watch TV late at night, while others sleep. Good for living room, den, playroom, too. Excellent for the hard-of-hearing—volume can be increased without disturbing others. Take only a few seconds to hook up.

GOOD G



$5.10 Fedtro

BETTER

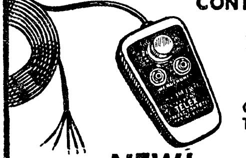


H $6.95 Cannon

J BEST

Telex $9.95

TELEX DUAL HEADPHONE CONTROL KIT



$10.50

Separate Controls for Two Stereo or Mono Headsets

NEW!

STC-1. Provides remote on-off control and individual-channel volume control for one or two stereo or mono headsets, from the comfort of your chair. Use it up to 15-ft. away. Switches speakers on and off. Easy to install by clipping leads to speaker wires. Shpg. wt., 1 lb.

17 D 6224..................10.50

G FEDTRO EARPHONE SET

Control box has volume control, 17′ cable and two jacks. One jack mutes speaker for listening with earpiece only. Other jack permits one person to use earpiece, while others listen to speaker. From Japan.

17 D 6217. Shpg. wt., 1 lb.........5.10

H CANNON HEADPHONE KIT

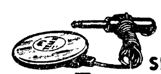
Allows private listening without disturbing others, or simultaneous operation with speaker. Aids hard-of-hearing. Control box has volume control and speaker/phones switch. Includes dual headset, control box, and 15-ft. cord. Shpg. wt., 2 lbs.

17 D 6135......................6.95

J TELEX PRIVATE-LISTENING SET

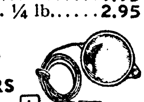
For private TV, radio, or monophonic hi-fi listening. Also for the hard-of-hearing. Volume control. Jacks for two earpieces. Switch turns speaker on or off—works either way. No soldering! With one earpiece. 15′ cord.

17 D 6234. Wt., 1 lb..............9.95
17 D 6281. Extra Earpiece. ¼ lb......2.95



PILLOW SPEAKERS

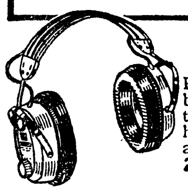
K



L

K THORO TEST PS-8. 8 ohms. Waterproof. 5′ cord, miniature plug. ⅝x2¼″.
17 D 6092. Shpg. wt., 6 oz..........3.95

L TELEX. Stainless steel. VA hosp. approved. 1⅛x3¾″. 5′ cord, ¼″ plug. 12 oz.
17 D 6246. SDN-2A. 3.2 ohms.......6.95
17 D 6256. SDM-2A. 10,000 ohms....9.95
17 D 6067. SDM-7A. 10,000 ohms; includes volume control..................11.95

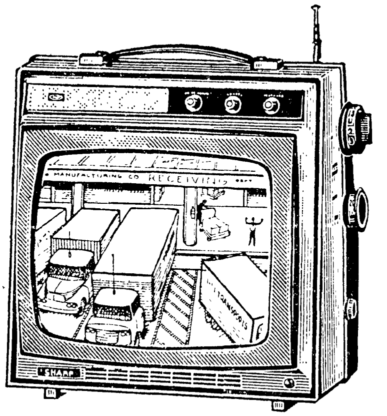


KNIGHT DELUXE STEREO HEADPHONES

Provide amazing channel separation and realism. Individual volume/balance controls on each earcup. Foam ear cushions block out external noise. Headband adjusts to fit anyone. Washable cushions and headband. Response: 16-16,000 cps. Impedance: 3-16 ohms. 8′ cord and standard ¼″ phone plug. Shpg. wt., 1¼ lbs.

20 D 9508. ....19.95

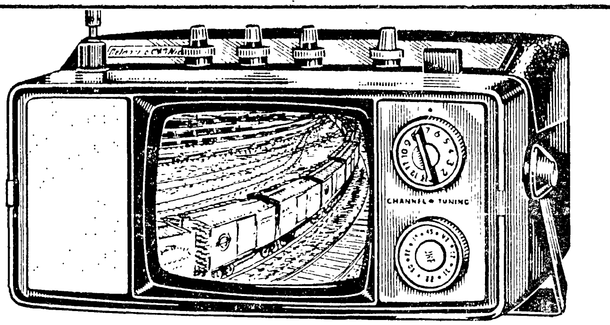
VHF-UHF TV Sets and Replacement Speakers



12-INCH* VHF-UHF PORTABLE TV

Excellent for closed-circuit TV monitoring as well as regular VHF and UHF reception. Advanced circuitry provides 17-tube performance, plus 6 diodes. Two-stage frame-grid IF amplifier increases sensitivity, stability for good pictures, even in fringe areas. Sensitive neutrode VHF tuner has separate UHF channel selector, fine-tuning control. Aluminized 12″ picture tube (*overall diagonal measurement) with tough plastic safety shield, sealed to keep out dust. Extra-narrow neck reduces reflection, keeps set cooler. 14,000 volts of picture power. Has earphone for private monitoring, plus 4″ up-front speaker. VHF telescopic unipole and UHF loop antennas. Slim-line cabinet, 13⅜x13⅜x10³⁄₁₆″. For 110-120 v., 60 cycle AC. From Japan. 23½ lbs.

10 D 4272 U. Shipped express............79.95



Operates on AC or DC Power

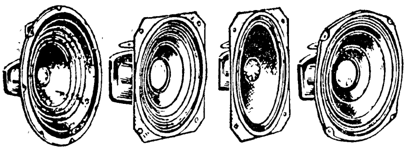
4½-INCH* VHF-UHF PORTABLE TV WITH AC/DC POWER SUPPLY

- Plays on 115 VAC/12 VDC
- Tunes All 82 TV Channels
- Suitable for Closed-Circuit TV
- Has AFC, AGC and Noise Limiter

Compact and portable, suitable for fixed or mobile closed-circuit monitoring. 115 VAC/12 VDC power supply, plus rechargeable batteries and built-in recharger let you use it anywhere—including autos, trucks, buses, boats. Tunes commercial programming on any of the 82 VHF/UHF channels in your area. Rectangular 4½″ picture tube (*overall diagonal measurement) gives you sharply defined pictures. AFC, keyed AGC and noise limiter circuits for steady picture and sound. 4⅜x8⅜x8¾″. Supplied with rechargeable batteries, recharger, AC adapter, earphone. Order carrying case and 12-volt DC power cord, below. From Japan. Shpg. wt., 15 lbs. Shipped Express.

10 D 4329 U...119.95
10 D 4328 X. Carrying Case. Shpg. wt., 2 lbs....................6.95
10 D 4345 S. DC Power Cord. Fits auto lighter receptacle. 12 oz.....3.95
18 D 5859. Extra Batteries. Uses 3. Wt., 1 lb................Each 2.76

REPLACEMENT AND NEW-EQUIPMENT SPEAKERS



Round Square Oval Pincushion

QUAM GENERAL REPLACEMENT SPEAKERS

Heavy-gauge metal baskets; Alnico-V magnets. Baked enamel finish. *Indicates very shallow frame. Impedance, 3.2 ohms except †speakers for transistor application; (impedance indicated by digits following Z in Type No.). Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Shape	Size	Max. Watts	Magnet Oz.	EACH
20 D 5 424	22A06Z8	Round†	2¼″	.25	.45	2.79
20 D 5 425	22A06Z100	Round†	2¼″	.25	.45	3.09
20 D 5 422	25A07	Square	2½″	2.0	.65	2.14
20 D 5 426	27A06Z12	Round†	2¾″	.25	.55	2.76
20 D 5 453	3A07	Square*	3½″	2.5	.65	2.14
20 D 5 417	4A05	Square	4″	2.5	.55	1.58
20 D 5 421	35A05	Oval	3x5″	2.0	.55	2.24
20 D 5 434	4A07	Square*	4″	3.0	.65	2.30
20 D 5 435	4A1	Square	4″	3.0	1.0	2.46
20 D 5 436	4A15	Square	4″	3.0	1.47	2.70
20 D 5 405	52C10	Pincushion	5¼″	10.0	10.0	5.32

WEATHERPROOFED OUTDOOR SPEAKERS

Feature exclusive "Humi-Gard" cone of plastic impregnated fiber fabric for longer life. 3.2 ohms. **Save by buying in quantity. Write, wire or phone the Allied facility nearest you for price quotations.** Av. shpg. wt., 1 lb.

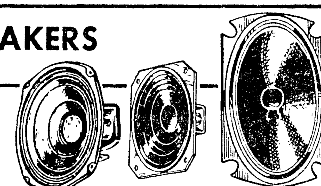
Stock No.	Type	Size	Shape	Watts	Magnet	EACH
20 D 5 432	3A07OT	3½″	Square	2.5	.65 oz.	2.14
20 D 5 548	4A05OT	4″	Square	2.5	.55 oz.	1.74
20 D 5 547	5A05OT	5″	Pincushion	3.0	.55 oz.	2.03

45-OHM INTERCOM SPEAKERS

Permanent magnet replacement speakers.

Stock No.	Type	Size	Shape	Magnet	Wt.	EACH
20 D 5 481	3A07Z45	3½″	Square	.65 oz.	½ lb.	2.50
20 D 5 482	4A1Z45	4″	Square	1.0 oz.	¾ lb.	2.85
20 D 5 483	5A1Z45	5″	Pincushion	1.0 oz.	1 lb.	3.00

TOP-QUALITY PM SPEAKERS

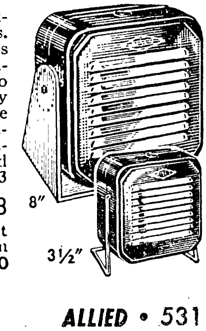


Pincushion Square Oval

Allied's exclusive top-quality permanent magnet speakers at low prices. Designed for universal replacement use; also recommended for use in original equipment. Precision-built according to EIA standard dimensions, featuring dustproof construction throughout. Have precision-centered magnet and voice coil; rigid frame assures permanent alignment of elements. With universal mounting bracket. Impedance, 3.2 ohms, except †8 ohms. *Extended range type. **Call or write Allied for OEM quantity prices.**

Stock No.	Size	Shape	Mag. Oz.	Max. Watts	Wt., Lb.	EACH 1 to 9	EACH 10-Up
20 D 5476	4″	Square	.68	3.0	½	1.25	1.12
20 D 5477	5″	PC	.68	3.5	¾	1.45	1.30
20 D 5472	5x7″	Oval	1.00	5.0	1	1.99	1.79
20 D 5471	6x9″	Oval	1.47	8.0	1¼	2.49	2.24
20 D 5493	*6x9″	Oval	1.47	8.0	1¼	2.69	2.42
20 D 5416	†6x9″	Oval	1.47	8.0	1¼	2.49	2.24
20 D 5470	8″	PC	2.15	9.0	1½	2.79	2.51
20 D 5529 X	12″	PC	3.16	10.0	3¾	4.44	4.04

MISCO MODEL MS-3-BB ALL-WEATHER SPEAKER

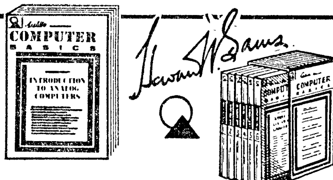


Weatherproof, dustproof, shockproof speaker—widely used aboard U.S. submarines. Self-contained "Mini-Speaker" includes 3½″ speaker in rugged 20-gauge steel enclosure. Electrostatic finished with two coats of baked enamel. Cone is specially treated for greater reliability. All parts are designed to withstand humidity and temperature changes, to resist all corrosive atmospheres. Acoustic design louvers and ducts. Impedance, 8 ohms. 4x4x2⅝″. 3 watts. 1¼ lbs.

20 D 5414.....................5.78

20 D 5 550. MMS-8-F "Music-Mini." Above, but with 8″ speaker. Handles 8 watts program material. 9x9x4¼″. 5 lbs..........12.10

Latest Electronic Technology Publications



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An encyclopedic 6-volume study of electronic computers—past, present and future. This comprehensive work is a complete course on computer theory, design, operation and maintenance. Contains over 1100 illustrations.

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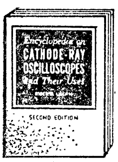

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By J. F. Rider and S. D. Uslan. 2nd edition, expanded to include many new types of oscilloscopes and their applications. Examples of chapter titles: Cathode-Ray Tubes, Oscilloscope Circuitry, and Operation, Oscilloscope Applications, Waveform Analysis, Commercial Oscilloscopes, etc. New sections have been added on pulse measurements and square-wave testing. Includes detailed index. Sturdy cloth binding. 1360 pages. More than 3000 illustrations. Size, 8½x11".
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Updated and revised edition by George Zwick. An outstanding book dealing with one of the most versatile tools available to the electronic technician. Mastery of this book will enable the technician to make full use of his scope. Illustrated. 224 pp. 5½x8½".
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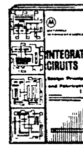
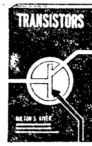
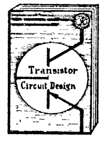
23 D 7684 E. Shpg. wt., 5 oz.......... **1.50**







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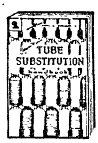

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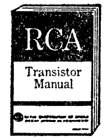

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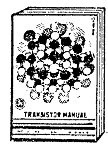

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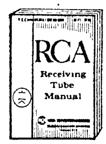

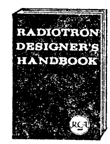

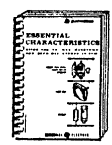

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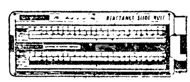

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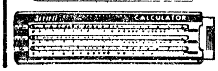

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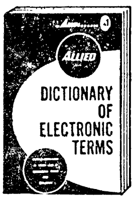

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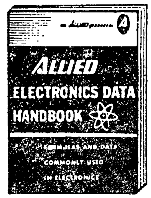

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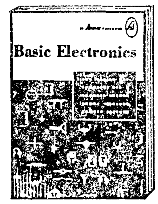

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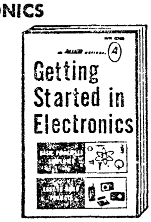

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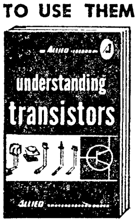

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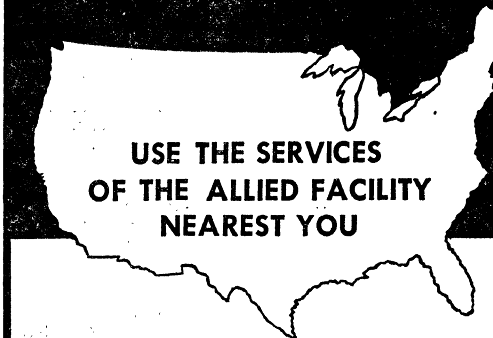

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See pages 1 to 33 of this catalog for listings of semiconductors meeting MIL-E-1, MIL-S-19500 and MIL-T-19500 specifications. All are stocked in depth at Allied. Also see listings on pages 34-89 for complete specifications.