

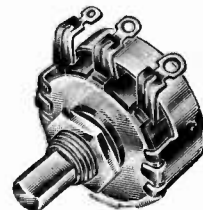
CLAROSTAT

SERIES "M" COMPOSITION-ELEMENT CONTROLS

★ Compactness—yet without sacrificing operating efficiency and long service life. Only 1 1/8" dia. by 3/8" deep (with switch, 7/8" deep).

Utilizes the exclusive Clarostat stabilized element, insuring the control's constancy in all weather and in all climates. Many years of painstaking research and experience are incorporated into the design of Clarostat Series "M" controls, assuring the user of the best results at all times.

The original Clarostat "Ad-A-Switch" feature makes it possible to adapt any of the Series "A" switches quickly to any M, AM, T and AT controls. Furthermore, for high-voltage television, oscillograph or other electronic circuits, the new Clarostat Series 60 High-Voltage Coupling Unit can be attached to all Clarostat controls (illustrated below) to assure safety at elevated voltages. The cost of this added feature is quite moderate. High-voltage couplers are installed at factory only.

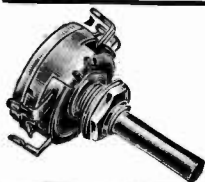


Dia.: 1 1/8". Shaft: 2 1/8". Soft metal. #8-32 brass bushing.

Cat. No.	Ohms	Curve	Suggested Use	Cat. No.	Ohms	Curve	Suggested Use
M-5-S	500	S	Std. Pot.	M-43-S	40,000	S	Std. Pot.
M-8-S	1000	S	Std. Pot.	M-44-S	50,000	S	Std. Pot.
M-11-S	2000	S	Std. Pot.	M-45-W	50,000	W	Sc. Grid & Phono.
M-15-S	3000	S	Std. Pot.	M-46-Z	50,000	Z	Auto Grid & Tone
M-80-S	4000	S	Std. Pot.	M-47-S	75,000	S	Std. Pot.
M-19-S	5000	S	Std. Pot.	M-48-V	75,000	V	C Bias Rheo.
M-20-U	5000	U	Ant. & C — Bias	M-49-S	100,000	S	Std. Pot.
M-23-S	7500	S	Std. Pot.	M-51-Z	100,000	Z	Audio & Tone
M-27-S	10,000	S	Std. Pot.	M-52-S	200,000	S	Std. Pot.
M-29-U	10,000	U	Ant. & C — Bias	M-55-S	250,000	S	Std. Pot.
M-30-V	10,000	V	C Bias Rheo.	M-64-Z	250,000	Z	Audio & Tone
M-31-W	10,000	W	Sc. Grid & Phono.	M-57-S	300,000	S	Std. Pot.
M-81-Z	10,000	Z	Ant. Shunt	M-58-S	500,000	S	Std. Pot.
M-32-S	15,000	S	Std. Pot.	M-59-Y	500,000	Y	Audio Shunt
M-33-U	15,000	U	Ant. & C — Bias	M-60-Z	500,000	Z	Audio & Tone
M-34-V	15,000	V	C Bias Rheo.	M-79-Z	750,000	Z	Audio & Tone
M-35-W	15,000	W	Sc. Grid & Phono.	M-61-S	1,000,000	S	Std. Pot.
M-36-S	20,000	S	Std. Pot.	M-63-Z	1,000,000	Z	Audio & Tone
M-37-U	20,000	U	Ant. & C — Bias	M-66-Z	2,000,000	Z	Tone & AVC
M-40-S	25,000	S	Std. Pot.	M-83-S	2,000,000	S	Audio & Tone
M-41-W	25,000	W	Sc. Grid & Phono.	M-67-Z	3,000,000	Z	Tone & AVC
M-72-V	25,000	V	C Bias Rheo.	M-68-Z	4,000,000	Z	Tone & AVC
M-42-S	30,000	S	Std. Pot.	M-69-Z	5,000,000	Z	Tone & AVC
				M-99-Z	10,000,000	Z	Tone & AVC

LIST PRICE \$1.25

Standard Packing — 10 (ten) per carton



SERIES "T" TAPPED CONTROLS

With the Original Ad-A-Switch Feature

★ There are many circuits in which the use of a tapped control affords special functional operation not possible or attainable with any other type of control. These standard units listed herewith permit replacement of tapped units with the assurance that the total overall resistance value as well as the taps satisfactorily substitute for the original.

Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3	Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3
T-25	50,000		25,000		T-103	1,000,000		100,000	
T-38	200,000			100,000	T-109	1,000,000		225,000	
T-39	250,000		25,000		T-110	1,000,000		170,000	
T-42	250,000		125,000		T-111	1,000,000			200,000
T-43	250,000			50,000	T-112	1,000,000		500,000	
T-44	250,000	60,000		125,000	T-95	1,500,000	250,000 @ 25% Rotation		500,000
T-45	250,000	30,000	60,000		T-125	1,500,000		350,000	
T-60	350,000		25,000		T-114	2,000,000		100,000	
T-69	350,000	75,000			T-115	2,000,000		500,000	
T-70	350,000		75,000		T-116	2,000,000		1,000,000	
T-78	500,000		100,000		T-118	2,000,000	20,000		
T-80	500,000			100,000	T-119	2,000,000		200,000	
T-81	500,000	25,000		200,000	T-120	2,000,000		400,000	
T-82	500,000				T-121	2,000,000	250,000		500,000
T-88	500,000		50,000		T-124	2,000,000	5,000 @ 25% Rotation		
T-90	500,000		250,000		T-126	2,000,000	200,000		400,000
T-92	500,000	100,000		300,000	T-129	2,000,000		15,000	
T-98	1,000,000	250,000			T-123	2,500,000	250,000		500,000
T-101	1,000,000		50,000		T-128	4,000,000		500,000	
T-102	1,000,000	100,000		500,000					

LIST PRICE \$1.85 (Without Switch)

For Power Switch, see Series SW listed below.
Standard Packing — 10 (ten) per carton

THE ORIGINAL "AD-A-SWITCH" FEATURE FOR SERIES "M", "AM", "T" "AT" CONTROLS

Cat. No.	Wiring	List Price
SW-A	Single-Pole Single-Throw	\$0.60
SW-A1	Three-Way, No "Off" position S.P.D.T.	.75
SW-A2	Double-Pole, Single-Throw	.75
SW-A4	Four-wire (to control A, B and C voltages)	.75
SW-A5	S.P.S.T. (reverse action)	.75
SW-A6	S.P.S.T. with dummy lug	.75



High-Voltage Coupler

Fitted to any Clarostat control at factory, on special order.

Cat. No.	List Price
60-3-2	3,000 v. \$1.25
60-3-4	10,000 v. 1.85



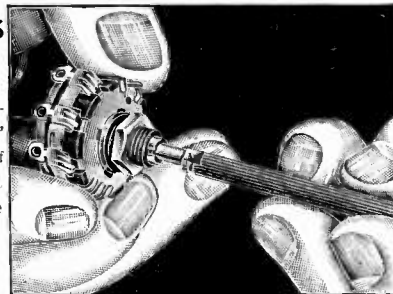
Ad-A-Switch is used in place of usual dust-protection cover, and lugs bent over to hold it in place.

CLAROSTAT

SERIES "AM" AND "AT" UNIVERSAL PICK-A-SHAFT CONTROLS Standard and Tapped for Every Service Need

★ These universal controls are built to the same exacting specifications as Series "M" and "T". However, instead of having the usual integral shaft, these controls include the Clarostat "Pick-A-Shaft" feature whereby a choice of shafts may be used with any of these controls. This ingenious feature elimi-

nates the stocking of special shaft units. Instead, the Series "AM" or Series "AT" (tapped unit) takes the particular type of shaft desired by merely inserting such a shaft so that the spring washer snaps into the groove provided in the shaft.



One selected shaft furnished FREE with each Pick-A-Shaft control.

SERIES "AM" OR STANDARD PICK-A-SHAFT CONTROLS

Cat. No.	Ohms	Curve	Suggested Use
AM-5-S	500	S	Std. Pot.
AM-8-S	1,000	S	Std. Pot.
AM-11-S	2,000	S	Std. Pot.
M-15-S	3,000	S	Std. Pot.
AM-10-S	4,000	S	Std. Pot.
AM-19-S	5,000	S	Std. Pot.
AM-20-U	5,000	U	Ant. & C — Bias
AM-23-S	7,500	S	Std. Pot.
AM-27-S	10,000	S	Std. Pot.
AM-29-U	10,000	U	Ant. & C — Bias
AM-30-V	10,000	V	C Bias Rheo.
AM-31-W	10,000	W	Sc. Grid & Phono.
AM-31-Z	10,000	Z	Ant. Shunt
AM-32-S	15,000	S	Std. Pot.
AM-33-U	15,000	U	Ant. & C — Bias
AM-34-V	15,000	V	C Bias Rheo.
AM-35-W	15,000	W	Sc. Grid & Phono.
AM-36-S	20,000	S	Std. Pot.
AM-37-U	20,000	U	Ant. & C — Bias
AM-40-S	25,000	S	Std. Pot.
AM-41-W	25,000	W	Sc. Grid & Phono.
AM-42-V	25,000	V	C Bias Rheo.
AM-42-S	30,000	S	Std. Pot.
AM-43-S	40,000	S	Std. Pot.
AM-44-S	50,000	S	Std. Pot.
AM-45-W	50,000	W	Sc. Grid & Phono.
AM-46-Z	50,000	Z	Audio & Tone
AM-47-S	75,000	S	Std. Pot.
AM-48-V	75,000	V	C Bias Rheo.
AM-49-S	100,000	S	Std. Pot.
AM-51-Z	100,000	Z	Audio & Tone
AM-52-S	200,000	S	Std. Pot.
AM-55-S	250,000	S	Std. Pot.
AM-64-Z	250,000	Z	Audio & Tone
AM-57-S	300,000	S	Std. Pot.
AM-58-S	500,000	S	Std. Pot.
AM-59-Y	500,000	Y	Audio Shunt
AM-60-Z	500,000	Z	Audio & Tone
AM-79-Z	750,000	Z	Audio & Tone
AM-61-S	1,000,000	S	Std. Pot.
AM-63-Z	1,000,000	Z	Audio & Tone
AM-83-S	2,000,000	S	Audio & Tone
AM-66-Z	2,000,000	Z	Tone & AVC
AM-67-Z	3,000,000	Z	Tone & AVC
AM-68-Z	4,000,000	Z	Tone & AVC
AM-69-Z	5,000,000	Z	Tone & AVC
AM-99-Z	10,000,000	Z	Tone & AVC

LIST PRICE \$1.25 (Without Switch)

SERIES "AT" OR TAPPED PICK-A-SHAFT CONTROLS

Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3
AT-25	50,000		25,000	
AT-38	200,000			100,000
AT-39	250,000		25,000	
AT-42	250,000		125,000	
AT-43	250,000			50,000
AT-44	250,000			125,000
AT-45	250,000	30,000	60,000	
AT-60	350,000		25,000	
AT-69	350,000	75,000		
AT-70	350,000		75,000	
AT-78	500,000		100,000	
AT-80	500,000			100,000
AT-81	500,000	25,000		
AT-82	500,000			200,000
AT-88	500,000		50,000	
AT-90	500,000		250,000	
AT-92	500,000	100,000		300,000
AT-98	1,000,000	250,000		
AT-101	1,000,000		50,000	
AT-102	1,000,000	100,000		500,000
AT-103	1,000,000		100,000	
AT-109	1,000,000		225,000	
AT-110	1,000,000		170,000	
AT-111	1,000,000			200,000
AT-112	1,000,000		500,000	
AT-95	1,500,000	250,000 @ 25% Rotation		500,000
AT-125	1,500,000		350,000	
AT-114	2,000,000		100,000	
AT-115	2,000,000		500,000	
AT-116	2,000,000		1,000,000	
AT-118	2,000,000	20,000		
AT-119	2,000,000		200,000	
AT-120	2,000,000		400,000	
AT-121	2,000,000	250,000		500,000
AT-124	2,000,000	5,000 @ 25% Rotation		
AT-126	2,000,000	200,000		400,000
AT-129	2,000,000	15,000		
AT-123	2,500,000	250,000		500,000
AT-128	4,000,000		500,000	

LIST PRICE \$1.85 (Without Switch)

Standard Packing—10 (ten) per carton.

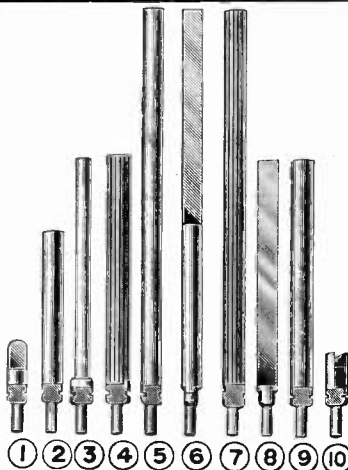
For Power Switch, see Series "SW" listings on Page R-1.

Choice of Pick-A-Shafts

★ A choice of Pick-A-Shafts (shown at right) covers all requirements, as follows:

- | Cat No. | Description |
|--------------------|--------------------------------------|
| (1) SS-3/8" length | (Male) to take female fitting |
| (2) RS-2 | Round shaft, 2" long |
| (3) RS-3/8" diam. | Round shaft, 3" long |
| (4) KSS-3 | Knurled, split shaft 3" lg. |
| (5) RS-5 | Round shaft, 5" long |
| (6) FS-5 | Flatted shaft, 5" long |
| (7) KSS-5 | Knurled, split shaft, 5" lg. |
| (8) FS-3 | Flatted shaft, 3" long |
| (9) RS-3 | Round Shaft, 3" long |
| (10) DFS-1/2 | Double flatted Philco Type 1/2" long |

List price of each shaft..... \$0.30
One selected shaft furnished FREE with each Pick-A-Shaft control.



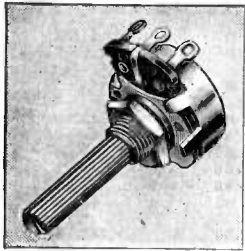
PICK-A-SHAFT SLIP DRIVE CONTROL (Clutch Type)

Available with your choice of Pick-A-Shaft

Cat. No.	Resistance	List
SD-64-Z	250,000	\$1.25
SD-60-Z	500,000	1.25
SD-63-Z	1,000,000	1.25
SD-66-Z	2,000,000	1.25
SD-42	250,000 Tapped	125,000 1.85
SD-78	500,000	100,000 1.85
SD-98	1,000,000	250,000 1.85
SD-115	2,000,000	500,000 1.85

CLAROSTAT

MIDGET (15/16" dia.) CONTROLS



★ Yes, sir — Clarostat has it first — the smaller, handier $\frac{15}{16}$ " control for tight spots. And it's a beauty. Note the trim lines. Nothing sacrificed by way of electrical and mechanical sturdiness and dependability. This is an entirely NEW control, developed from scratch, to meet the need of a more compact control of standard performance. Dimensions: $\frac{15}{16}$ " diameter x $\frac{29}{64}$ " deep. With switch, $\frac{49}{64}$ " deep. $\frac{1}{4}$ " long, $\frac{3}{8}$ "-32 threaded bushing. Knurled shaft 1" long beyond bushing. Switch units attached at factory.

Cat. No.	Resistance	Taper	Cat. No. with Switch	LIST PRICE	
				(no switch)	(with switch)
15/16-64-Z	250,000 ohms	Audio	15/16-S-64-Z	\$1.25	\$1.85
15/16-60-Z	500,000 ohms	Audio	15/16-S-60-Z	1.25	1.85
15/16-63-Z	1,000,000 ohms	Audio	15/16-S-63-Z	1.25	1.85
15/16-66-Z	2,000,000 ohms	Audio	15/16-S-66-Z	1.25	1.85

Standard packing 10 (ten) per carton.

DUAL SERIES DC CONTROLS

★ The Series DC controls are dual units — two controls of the same resistance values and tapers, connected in tandem for joint operation.

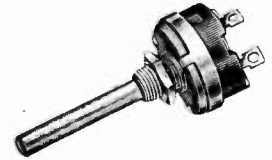
Cat. No.	Panel Unit	Rear Unit
DC-34-S	10,000-S	25,000-S
DC-23-S	10,000-S	50,000-S
DC- 5-S	50,000-S	50,000-S
DC- 6-Z	100,000-Z	100,000-Z
DC-29-S	250,000-S	250,000-S
DC- 8-Z	250,000-Z	250,000-Z
DC-10-Z	500,000-Z	500,000-Z
DC-11-Z	1,000,000-Z	1,000,000-Z

LIST PRICE \$3.10

Standard packing—Individual carton

ROTARY SWITCHES

★ Compact, positive contact, bakelite molded and Underwriters' approved. Rated 1 Amp. 250 volt; 3 Amp. 125 volt. The physical dimensions of the switch are as follows:



Diameter $1\frac{3}{8}$ ", body depth $\frac{9}{16}$ ", lug protrusion $\frac{1}{4}$ ", locking projection on a $\frac{1}{4}$ " radius, rotation for actuation 30 degrees.

All standard stock numbers have $\frac{3}{8}$ " bushing, $1\frac{1}{2}$ " length shaft, and one locking projection.

Cat. No.	Switch Description	List Price
8590	Single Pole Single Throw.....	\$0.60
8591	Single Pole Bussing Lug.....	.75
8592	Double Pole Single Throw.....	.75
8593	Single Pole Double Throw.....	.75
8594	Single Pole Reversed Action.....	.75
8595	Four Wire Single Throw.....	.75

Standard packing 10 (ten) per carton.

POWER RESISTOR DECADE BOX

★ A "Must" for Every Laboratory. Power resistance measurements under actual load conditions. Just imagine being able to obtain ANY VALUE OF RESISTANCE from 1 ohm to 999,999 ohms IN STEPS OF ONE OHM, and at a POWER RATING OF 225 WATTS using a maximum of 1000 volts DC (660 volts AC)!

Intended primarily for laboratory use and development engineering. Simplifies and expedites the selection of correct resistance values for given circuits and functions. These instruments are in daily use in labora-



NET PRICE \$90.00*

tories, engineering offices, plants, maintenance and service departments, and in schools.

Finish: Heavy-gauge metal case finished in frosted gray wrinkle. with etched black-and-aluminum front panel.

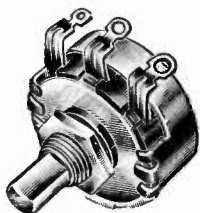
Dimensions: 13 in. long; $8\frac{1}{2}$ in. deep; $5\frac{3}{4}$ in. high. Weight, 11 lbs.

Suggested Uses: Resistance determination. Load Resistance. Meter Multiplier. Calibrating Meters. Providing any desired ohmage as a universal power resistor.

CLAROSTAT

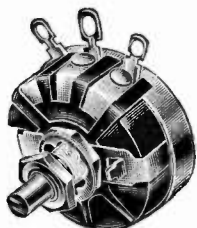
SERIES 43 MIDGET WIRE-WOUND CONTROLS

★ A space-saving control of the wire-wound type. Similar in mechanical details and dimensions to the composition-element Series M control (page R-1). Precision-wound alloy wire on bakelite strip. Rotor sweeps over inside face of winding. Special lubricant for minimized frictional drag and wear. Molded bakelite casing—high resistance to leakage. Protective metal cover (as shown in illustration). Only 1½" dia. Body Depth, $\frac{9}{16}$ " deep with switch. $\frac{3}{8}$ " bushing. Shaft 1½" long. All switches permanently attached at factory.



Resistance Ohms	Current-carrying Capacity in Ma.	Type No. Without Switch	Type No. With Switch
5	630	43-5	43S-5
10	450	43-10	43S-10
20	320	43-20	43S-20
25	280	43-25	43S-25
30	260	43-30	43S-30
40	225	43-40	43S-40
50	200	43-50	43S-50
75	165	43-75	43S-75
100	140	43-100	43S-100
150	115	43-150	43S-150
200	100	43-200	43S-200
300	90	43-300	43S-300
400	70	43-400	43S-400
500	65	43-500	43S-500
750	55	43-750	43S-750
1,000	45	43-1000	43S-1000
2,000	31	43-2000	43S-2000
3,000	26	43-3000	43S-3000
4,000	22	43-4000	43S-4000
5,000	20	43-5000	43S-5000
7,500	16	43-7500	43S-7500
10,000	14	43-10000	43S-10000

LIST PRICE \$1.25. With switch \$1.85
Standard packing—10 (ten) per carton.



Shaft 1½" long.
 $\frac{3}{8}$ " bushing.

SERIES 58 WIRE-WOUND CONTROLS

★ Sturdy and reliable in construction yet capable of use for delicate control work, Series 58 Controls are without equal. Noiseless in operation, these units are standard equipment in laboratories, fine instruments, electronic equipment, and especially in the control rooms of radio stations and networks.

The switch is located to operate at extreme counter-clockwise rotation of the shaft. Moving element is insulated from mounting bushing and shaft, and is tested at 500 volts A.C. There is no danger of accidental shock or short-circuit.

Cat. No.	Resistance in Ohms	List Price	Cat. No.	Resistance in Ohms	List Price
58-1	1	\$1.25	58-500	500	1.25
58-2	2	1.25	58-750	750	1.25
58-4	4	1.25	58-1000	1000	1.25
58-6	6	1.25	58-2000	2000	1.25
58-10	10	1.25	58-3000	3000	1.25
58-15	15	1.25	58-5000	5000	1.25
58-20	20	1.25	58-7500	7500	1.25
58-25	25	1.25	58-10K	10,000	1.25
58-30	30	1.25	58-15K	15,000	1.25
58-40	40	1.25	58-20K	20,000	1.25
58-50	50	1.25	58-25K	25,000	1.60
58-60	60	1.25	58-30K	30,000	1.60
58-75	75	1.25	58-40K	40,000	1.60
58-100	100	1.25	58-50K	50,000	2.25
58-200	200	1.25	10-75K*	75,000	3.50
58-300	300	1.25	10-100K*	100,000	3.50
58-400	400	1.25			

If power switch is desired, the type of switch must be specified (See page R-1). Order as 58S and add to list the price of switch selected. The S.P.S.T. switch is supplied as standard where no type is specified. All switches are permanently fastened to the control at the factory.

Standard packing—10 (ten) per carton.

* These units are 1" in depth and are the Clarostat Series 10.

BEAM BENDER

★ Simplicity and economy mark use of the Clarostat Beam Bender in connection with television cathode-ray tubes requiring some external means of controlling loose ions. Entirely self-contained. Applied without tools.



Three spring fingers provide frictional yet adjustable fit on neck of usual 10" tube. Permanent ring magnets provide magnetic flux proportional to required beam-bending function in the tube. Individually packaged. Cat. No. TV-1 — List Price \$3.00

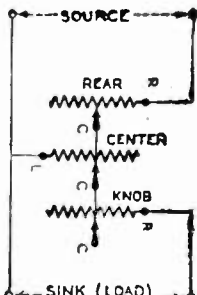
HAN-D-KIT No. 5



★ Most replacements for least parts stock! Fastest moving items. No duds. Every item a "must" in everyday servicing. Neatly packed in handsome green steel box with hinged top. Handy as filing cabinet, strong box, odds-and-ends box, etc. Contains 6 ballast tubes; 12 volume controls; 4 AD-A-Switches; 5 Greenohms; Dural Hand-D-Wrench; Authorized Service plaque; Data. A \$30.15 value for only: Kit No. 5.....\$15.07 Net Cost*

CLAROSTAT

CONSTANT IMPEDANCE CONTROLS



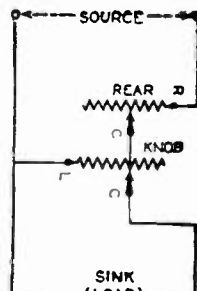
Series CIT-58 T-pads are connected as here shown.

★ Self-compensating volume controls or attenuators known as L-pads and T-pads are essential in eliminating the distortion that arises from the mismatching of impedances in broadcast transmission, sound recording or public address systems. With Clarostat constant-impedance L-pads and T-pads the input and output impedances of associated equipment in a circuit can be kept within the limits of a constant required value.

These pads have a continuous range from 0.5 to 80 decibels attenuation in 90% of rotation, the last 10% affording

infinite attenuation. Employable at either the source or the load in a circuit (see diagrams) these units are readily one-hole mounted. They afford a wide range of uses as mixers, faders, multiple-speaker controls, etc. Such controls can be used as individual volume controls for multiple-speaker systems, without affecting or changing the source impedance.

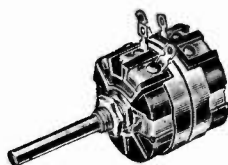
These units are rated at 2 1/2 watts when used on DC or constant frequency signals. However, they have successfully been used up to 10 watts on audio circuits.



Series CIL-58 L-pads are connected as here shown.

SERIES CIT Wire-Wound T-Pads

Cat. No.	Resistance in Ohms	List Price
CIT-6	6	\$4.25
CIT-8	8	4.25
CIT-15	15	4.25
CIT-50	50	4.25
CIT-100	100	4.25
CIT-200	200	4.25
CIT-250	250	4.25
CIT-500	500	4.25
CIT-600	600	4.25
CIT-1000	1000	4.25
CIT-2000	2000	4.25



SERIES CIL Wire-Wound L-Pads

Cat. No.	Resistance in Ohms	List Price
CIL-6	6	\$3.75
CIL-8	8	3.75
CIL-15	15	3.75
CIL-50	50	3.75
CIL-100	100	3.75
CIL-200	200	3.75
CIL-250	250	3.75
CIL-500	500	3.75
CIL-600	600	3.75
CIL-1000	1000	3.75
CIL-2000	2000	3.75

CONSTANT IMPEDANCE OUTPUT ATTENUATORS



db steps are 3, 6, 9, 12, 15, 18, 21, 24 and 30. Absolutely noiseless and distortionless in operation.

★ Developed to meet the need for a constant-impedance attenuator capable of handling considerable power without measurable insertion loss, Series CIB attenuators provide linear attenuation with ample power-handling capacity.

These units are rated at 10 watts when used on DC or constant frequency signals. However, they have successfully been used up to 80 watts on audio circuits.

Compact, capable of safely handling the rated wattages at any setting of the dial, these units are

recommended as an output level control for power amplifiers or as an input attenuator for individual or group speakers in a public address system. Linear attenuation is provided in steps of 3 decibels up to 80, with final step to infinity.

Unit is furnished in black baked-enamel metal casing, 2" in diameter by 2 3/4" long, equipped with dial plate and bar knob. Not available with power switch. One-hole mounting 3/8" diameter bushing. Shaft 1" long.

Series CIB—10 Watts

Cat. No.	Resistance in Ohms	List Price
CIB-6	6	\$6.50
CIB-8	8	6.50
CIB-15	15	6.50
CIB-50	50	6.50
CIB-200	200	6.50
CIB-250	250	6.50
CIB-500	500	6.50
CIB-600	600	6.50
Net Price		\$6.50*

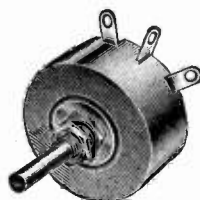
Series PW-25—25 Watt

Cat. No.	Total Resis. Ohms	Max. Cur. at		List Price
		Total Res. Amps.	Max. Cur. Up to 1/2 Res. Amps.	
PW-25-1	1	5.000	7.500	\$5.85
PW-25-2	2	3.536	5.304	5.20
PW-25-3	3	2.887	4.830	5.20
PW-25-6	6	2.041	3.062	5.20
PW-25-8	8	1.768	2.652	5.20
PW-25-10	10	1.581	2.372	5.20
PW-25-15	15	1.291	1.936	5.20
PW-25-25	25	1.000	1.500	5.20
PW-25-35	35	.845	1.268	5.20
PW-25-50	50	.707	1.061	5.20
PW-25-75	75	.577	.866	5.20
PW-25-100	100	.500	.750	5.20
PW-25-125	125	.447	.671	5.20
PW-25-175	175	.378	.567	5.20
PW-25-250	250	.316	.474	5.20
PW-25-350	350	.267	.401	5.20
PW-25-500	500	.224	.335	5.20
PW-25-750	750	.183	.274	5.20
PW-25-1000	1000	.158	.237	5.85
PW-25-1500	1500	.129	.194	5.85
PW-25-2500	2500	.100	.150	5.85
PW-25-3500	3500	.085	.127	6.20

Standard Packing—Individual Carton

POWER RHEOSTATS

★ Exceptionally rugged. Trouble-free design. Withstand severe overloading without smoking, burning, charring. Element imbedded in cold-setting cement. Resistance winding supported on insulated metal core for maximum heat conduction and radiation, even at partial rotation settings. Single-hole mounting. Adjustable locking pin firmly anchors unit against bodily rotation. Shaft and bushing insulated from current-carrying arm for safety. 25 and 50 watt sizes.



Series PW-50—50 Watt

Cat. No.	Total Resis. Ohms	Max. Cur. at		List Price
		Total Res. Amps.	Max. Cur. Up to 1/2 Res. Amps.	
PW-50-0.5	0.5	10.000	15.000	\$6.50
PW-50-1	1	7.071	10.607	6.50
PW-50-2	2	5.000	7.500	6.50
PW-50-4	4	3.536	5.804	5.85
PW-50-6	6	2.887	4.330	5.85
PW-50-8	8	2.500	3.750	5.85
PW-50-12	12	2.041	3.062	5.85
PW-50-16	16	1.768	2.652	5.85
PW-50-22	22	1.508	2.261	5.85
PW-50-35	35	1.195	1.798	5.85
PW-50-50	50	1.000	1.500	5.85
PW-50-80	80	.791	1.186	5.85
PW-50-125	125	.632	.949	5.85
PW-50-150	150	.577	.866	5.85
PW-50-225	225	.471	.707	5.85
PW-50-300	300	.408	.612	5.85
PW-50-500	500	.316	.474	5.85
PW-50-800	800	.250	.375	6.20
PW-50-1000	1000	.224	.335	6.20
PW-50-1600	1600	.177	.265	6.20
PW-50-2500	2500	.141	.212	6.20
PW-50-3500	3500	.120	.179	6.50
PW-50-5000	5000	.100	.150	6.50

Standard Packing—Individual Carton

CLAROSTAT

TUBE-TYPE WIRE-WOUND RESISTORS

Standard Resistor Tubes

Cat. No.	Cat. No.
BK-29-B	K-74-B
BK-29-D	K-80-B
BK-32-D	K-82-B
BK-36-B	K-86-B
BK-36-D	K-90-A
BK-36-H	K-90-B
BK-42-B	K-92-A
BK-42-C	K-92-B
BK-49-B	L-42-B
BK-49-C	L-42-C
BK-55-B	L-42-D
BK-67-BJ	L-49-A
BL-42-B	L-49-B
BL-42-D	L-49-C
BM-49-B	L-49-D
BM-55-B	L-49-H
K-26J-218	L-55-B
K-36-D	L-55-CJ
K-42-A	L-55-C
K-42-AJ	L-55-CPR
K-42-B	L-55-D
K-42-C	M-30-H
K-42-D	M-42-B
K-49-A	M-49-B
K-49-B	M-55-B
K-49-C	M-55-H
K-49-D	M-80-B
K-49-H	M-86892-9
K-55-A	100-610
K-55-B	100-37
K-55-C	100-70
K-55-CPR	100-76
K-55-D	100-77
K-55-H	100-79
K-67-A	115-78
K-67-B	5459
K-67-BJ	28602
K-72-B	43X106

List Price.....\$1.00
Standard Packing —
10 per carton

★ Clarostat developed and pioneered the tube-type resistor for voltage-reducing purposes and for supplying needed voltage for pilot lamp operation in AC-DC receivers. Strictly non-inflammable, with the resistance element wound on a mica form firmly secured in the metal tube and connected with the base prongs, the Clarostat construction is notably superior to others.

To simplify servicing of receivers using tube-type resistors, Clarostat has selected the most popular values for so-called Universal numbers serving most replacement needs. Standard resistor tubes of the most popular types are also listed below.

In connection with listings, the following nomenclature applies: Prefixes: K denotes 6.3 volt 150 ma. No. 40 pilot lamp.

L denotes 6.3 volt 250 ma. No. 46 pilot lamp.

M denotes 6.3 volt 200 ma. No. 51 pilot lamp.

The numeral indicates total voltage drop across resistance unit.

Suffixes designate:

- A—No pilot lamp taps.
- B—1 pilot lamp tap for 1 lamp.
- C—1 pilot lamp tap for 2 lamps.
- D—2 pilot lamp taps for 2 lamps.
- E—3 pilot lamp taps for 3 lamps.
- E1—1 pilot lamp tap for 3 lamps.
- F—1 pilot lamp tap for 1 lamp.

G—1 pilot lamp tap for 2 pilot lamps. (Tapped sections isolated from main reducing body.)

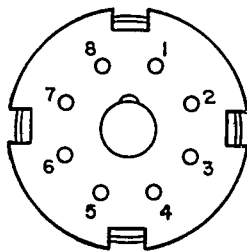
H—2 pilot lamp taps for 2 pilot lamps. (Tapped section isolated from main reducing body.)

The letter "J" following any of the suffixes denotes a shorted connection between 2 prongs of the tube, i.e., K-67-BJ, the short is located between Nos. 3 and 4 prongs.

Care must be exercised when replacing any tube whose number ends in "J", as the shorted pins are not always as in above example. Some are between Nos. 6 and 7 prongs, and others between 5 and 3.

When replacing any plug-in resistor tube with a Clarostat Universal type, note prongs missing on replaced tube and cut off corresponding prongs on the Universal Replacement tube.

The numeral indicates total voltage drop across resistance unit.



UNIVERSAL RESISTOR TUBES

Universal Tube No.	Replaces AC-DC Tubes Beginning with Letters	Having Numbers From	Ending in Letter
10*23-A	BK, BL, K, L, M	10 to 23	A, B, C, D
10*23-B	BK, BL, K, L, M	10 to 23	E
10*23-F	BK, BL, K, L, M	10 to 23	F, G, H
23*55-A	BK, BL, K, L, M	23 to 55	A, B, C, D
23*55-E	BK, BL, K, L, M	23 to 55	E
23*55-F	BK, BL, K, L, M	23 to 55	F, G, H
60*92-A	BK, BL, K, L, M	60 to 92	A, B, C, D
60*92-E	BK, BL, K, L, M	60 to 92	E
60*92-F	BK, BL, K, L, M	60 to 92	F, G, H
92*105-A	BK, BL, K, L, M	92 to 105	A, B, C, D

List Price.....\$1.50
Standard Packing — 10 (ten) per carton

TELEVISION BALLASTS

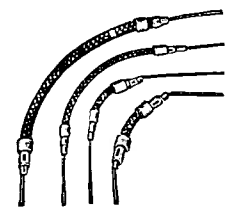
*17A470303 for Motorola Television Set No. VT-7L. List Price \$3.00
**397021 for Emerson Television Set No. 571-606. List Price \$3.00

★ This Emerson ballast tube is used as a protective resistor and any internal failure in the circuit may cause this unit to burn out and therefore this unit is expendable. Standard Packing — 10 (ten) per carton

GLASOHMS* Glass-Insulated Flexible Resistors

★ This is a new development in resistors which has found instant acceptance in widespread applications.

Glasohms consist of a wire winding on a fibre-glass core, with a covering of braided fibre-glass. Each strand of glass is no thicker than usual



cotton thread and just as flexible, so that the complete units can be bent or twisted and even knotted without breakage or weakening. Clarostat is the only manufacturer of Glasohms. These units are ideal for resistance boxes, attenuators, voltage-dividers, multipliers, step-by-step rheostats, and for use in point-to-point wiring jobs. Handy, inexpensive and very durable, these units can withstand heavy overloads without damage. There is nothing in them to burn or char. Glasohms are also suitable for use as miniature heating elements serving in hair curlers, immersion heaters, soldering irons, electrically-heated ovens for crystal oscillators, etc., especially in longer lengths obtained on special orders.

*Registered trade-mark.

Standard Glasohm Resistors

TYPE FYG — 2-WATT

1" Fabric Length with 2" Pigtails
1/8" dia. core. RMA Color-coded

Cat. No.	Ohms	Cat. No.	Ohms
FYG5	5	FYG350	350
FYG10	10	FYG375	375
FYG15	15	FYG400	400
FYG25	25	FYG500	500
FYG35	35	FYG600	600
FYG40	40	FYG700	700
FYG50	50	FYG750	750
FYG60	60	FYG800	800
FYG75	75	FYG850	850
FYG100	100	FYG900	900
FYG125	125	FYG1000	1000
FYG150	150	FYG1250	1250
FYG200	200	FYG1500	1500
FYG225	225	FYG1600	1600
FYG250	250	FYG1750	1750
FYG300	300	FYG2000	2000

List Price.....\$0.30
Standard Packing—10 (ten) per carton

AUTOMATIC LINE VOLTAGE REGULATORS

★ To maintain constant line voltage and thus prevent burning out the tubes of a radio receiver or other tube-using device, this handy unit, operating effectively on 110-volt A.C. or D.C. by simply plugging into the usual socket or outlet, safeguards against line voltage surges or increases even up to 140 volts. At the normal 110-volt, the resistance of the unit is low and the voltage drop across it is negligible. However, as the line voltage increases the resistance of the unit increases proportionately, with a constant increase in voltage drop across it. This automatic voltage control or ballast action insures a steady, practically constant and always safe operating potential.



Dimensions are 1 3/4" dia. x 1 1/4" long.
Prongs 5/8" long.

Type	Rating Watts	For Use With Sets Consuming	No. of Tubes Used
O	50	Up to 60 watts	4
A	100	60 to 100 watts	5, 6, 7
B	150	100 to 150 watts	8, 9, 10
C	200	150 to 200 watts	11, 12
D	250	200 to 250 watts	2 Type 50
E*	100	60 to 100 watts	

*Note: For use with 220-volt receivers

List Price\$1.75
Standard Packing — 10 (ten) per carton

CLAROSTAT

FAMOUS GREENOHMS — WIRE-WOUND FIXED POWER RESISTORS

★ The toughest power resistors made. Will dissipate heat without change in resistance value. Will withstand heavy overloads, humidity, high-heat, and severe heat shock (frequent on-and-off operation). Due to the exclusive CLAROSTAT inorganic-cement coating,

these resistors can be given the toughest assignments and will come through with flying colors. Greenohms are found in the finest electrical, radio and industrial assemblies — in equipment that must stand up — for functions where failure cannot be tolerated.



SERIES PR-5-F—5-WATT

Dimensions: $\frac{5}{8}$ " dia. x 1" long.

The baby member of the famous Clarostat Greenohm family. Available in standard resistance values from 1 ohm to 7500 ohms (See exact values in listings for Series AC-10-F up to 7500).

All ohmages List Price \$0.50
Standard Packing — 10 (ten) per carton.

Series AC-10-F—10-Watt

Dimensions: $\frac{5}{8}$ " dia. x $1\frac{3}{4}$ " long

Ohms	Ohms	Ohms	Ohms
1	125	1200	10000
2	150	1250	11000
3	200	1500	12000
4	225	1750	12500
5	250	2000	13500
7.5	300	2250	14500
10	350	2500	15000
12	400	3000	16000
15	450	3500	17500
20	500	4000	18000
25	600	4500	20000
30	700	5000	22500
35	750	6000	25000
40	800	7000	30000
50	900	7500	35000
75	1000	8000	40000
100	1100	8500	50000

All ohmages — List Price \$0.55
Standard Packing — 10 (ten) per carton

Series A-25-K—25-Watt

Dimensions: $\frac{5}{8}$ " dia. x $2\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms	Ohms
1	150	2250	10000	75000
2	200	2500	12000	80000
3	250	3000	15000	85000
5	300	3500	20000	90000
7.5	400	4000	25000	100000
10	500	4500	30000	
15	750	5000	35000	
20	800	6000	40000	
25	1000	7000	45000	
50	1250	7500	50000	
75	1500	8000	60000	
100	2000	9000	70000	

LIST PRICES:
1 to 5000 ohms \$0.75
6000 to 15000 ohms85
20000 to 50000 ohms 1.00
60000 ohms 1.15
70000 ohms 1.25
75000 ohms 1.30
80000 ohms 1.35
85000 ohms 1.50
90000 ohms 1.60
100000 ohms 1.75

Supplied with Mounting Brackets at No Extra Cost
Standard Packing — Individually Boxed

Series AC-20-K—20-Watt

Dimensions: $\frac{5}{8}$ " dia. x 2" long

Ohms	Ohms	Ohms	Ohms
1	800	6000	65000
5	850	7000	70000
10	1000	7500	75000
25	1200	8000	80000
50	1250	9000	85000
75	1500	10000	90000
100	1750	12500	95000
150	1850	15000	100000
200	2000	20000	
250	2250	25000	
300	2500	30000	
350	2750	35000	
400	3000	40000	
500	3500	45000	
650	4000	50000	
700	4500	55000	
750	5000	60000	

LIST PRICE:
1 to 15,000 ohms \$0.65
20,000 to 50,000 ohms85
55,000 to 100,000 ohms 1.10
Standard Packing — 5 (five) per carton

Series K-40-N—40-Watt

Dimensions: $\frac{3}{4}$ " dia. x $3\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	125	1000	7500	35000	125000
10	150	1500	8500	40000	150000
15	200	2000	10000	50000	175000
20	250	2500	12500	60000	200000
25	300	3000	15000	70000	
50	400	4000	20000	80000	
75	500	5000	25000	90000	
100	750	6000	30000	100000	

LIST PRICES:
5 to 5000 ohms \$0.90
6000 to 25000 ohms 1.00
30000 to 100000 ohms 1.20
125000 to 150000 ohms 1.40
175000 ohms 1.50
200000 ohms 1.60

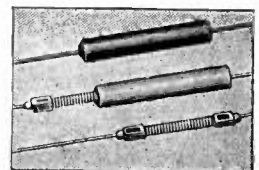
Supplied with Mounting Brackets at No Extra Cost
Standard Packing—Individually Boxed

Ohms	Series K-50-N $\frac{3}{4}$ " dia. x $4\frac{1}{2}$ " l. 50-watt	Series K-80-N $\frac{3}{4}$ " dia. x $6\frac{1}{2}$ " l. 80-watt	Series K-100-W $1\frac{1}{8}$ " dia. x $6\frac{1}{2}$ " l. 115-watt	Series K-160-W $1\frac{1}{8}$ " dia. x $8\frac{1}{2}$ " l. 160-watt	Series K-200-W $1\frac{1}{8}$ " dia. x $10\frac{1}{2}$ " l. 200-watt
5	\$1.10	\$1.25	\$1.75	\$2.25	\$2.50
10	1.10	1.25	1.75	2.25	2.50
25	1.10	1.25	1.75	2.25	2.50
50	1.10	1.25	1.75	2.25	2.50
75	1.10	1.25	1.75	2.25	2.50
100	1.10	1.25	1.75	2.25	2.50
150	1.10	1.25	1.75	2.25	2.50
200	1.10	1.25	1.75	2.25	2.50
250	1.10	1.25	1.75	2.25	2.50
300	1.10	1.25	1.75	2.25	2.50
400	1.10	1.25	1.75	2.25	2.50
500	1.10	1.25	1.75	2.25	2.50
750	1.10	1.25	1.75	2.25	2.50
1,000	1.10	1.25	1.75	2.25	2.50
1,250	1.10	1.25	1.75	2.25	2.50
1,500	1.10	1.25	1.75	2.25	2.50
2,000	1.10	1.25	1.75	2.25	2.50
2,250	1.10	1.25	1.75	2.25	2.50
2,500	1.10	1.25	1.75	2.25	2.50
3,000	1.10	1.25	1.85	2.25	2.50
3,500	1.10	1.25	1.85	2.25	2.50
4,000	1.10	1.25	1.85	2.25	2.50
4,500	1.10	1.25	1.95	2.25	2.50
5,000	1.10	1.25	1.95	2.25	2.50
6,000	1.35	1.50	1.95	2.25	2.50
7,500	1.35	1.50	1.95	2.25	2.50
8,000	1.35	1.50	1.95	2.25	2.50
9,000	1.35	1.50	1.95	2.25	2.50
10,000	1.35	1.50	1.95	2.25	2.50
12,000	1.35	1.50	1.95	2.25	2.50
12,500	1.35	1.50	1.95	2.30	2.75
15,000	1.35	1.50	1.95	2.35	2.85
15,000	1.35	1.50	1.95	2.65	3.00
20,000	1.35	1.50	1.95	2.65	3.00
25,000	1.35	1.50	1.95	2.65	3.00
30,000	1.70	1.75	2.50	2.65	3.00
35,000	1.70	1.75	2.50	2.65	3.00
40,000	1.70	1.75	2.50	2.65	3.00
50,000	1.70	1.75	2.50	2.65	3.00
60,000	1.70	2.00	2.75	3.00	3.00
70,000	1.70	2.00	2.75	3.00	3.00
75,000	1.70	2.00	2.75	3.00	3.00
80,000	1.70	2.10	2.85	3.00	3.00
100,000	1.70	2.25	3.00	3.00	3.00
125,000	2.00		3.10	3.20	3.75
150,000	2.25		3.25	3.50	3.75
175,000	2.25		3.35		
200,000	3.00		3.75		

All resistors furnished with mounting brackets at no extra cost. Standard Packing — Individually Boxed.

GREENOHM JR. WIRE-WOUND RESISTORS

★ Handy, inexpensive, ceramic-cased midget wire-wound resistors for tight spots, especially with point-to-point wiring. These tiny resistors take the place of more cumbersome and costlier bracket-mounted units. This "junior" version of the well-known Greenohm power resistors features a wire winding on fibre-glass core, $1\frac{1}{2}$ " axial pigtail leads, and a statite protective casing sealed with exclusive Greenohm cold-setting inorganic cement. This resistor will not blister, crack, or change shape. Type C7GJ, $1\frac{1}{8}$ " long by $\frac{3}{16}$ " dia., rated at 7 watts. Smaller Type C4GJ, 1" long by $\frac{1}{16}$ " dia., rated at 4 watts. In characteristic Greenohm green, with printed values on casing.



Cat. No. List Price
Type C7GJ (1 to 5000 ohms) \$0.55
Type C4GJ (1 to 1000 ohms)55

CLAROSTAT

FAMOUS GREENOHMS - WIRE-WOUND ADJUSTABLE POWER RESISTORS

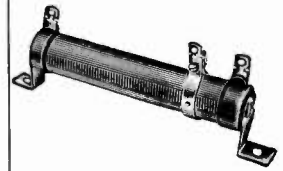


★ These power resistors feature the exclusive Clarostat inorganic cement coating and are similar in rugged construction to the fixed types on page R-7, except for the bared section of the winding contacted at any ohmage by the adjustable slider band. This band is permanently locked in place at the required resistance value by simply tightening a screw.

GREENOHM KIT

★ Here's a simple means of keeping 20 of the most popular 10-watt power resistors always at your finger-tips. Each Greenohm is held by metal clip on the wall chart. Slide off unit and value appears on wall chart, for handy re-ordering.

Cat. No. GK-1..... LIST PRICE \$11.00



DIMENSIONS

★ Fixed and Adjustable Greenohms are of the same dimensions, wattage for wattage, as follows:

Rating	Dia.	Lgth.
10-watt	$\frac{5}{16}$ "	x 1 $\frac{3}{4}$ "
20-watt	$\frac{9}{16}$ "	x 2"
25-watt	$\frac{9}{16}$ "	x 2 $\frac{1}{2}$ "
40-watt	$\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "
50-watt	$\frac{3}{4}$ "	x 4 $\frac{1}{2}$ "
80-watt	$\frac{3}{4}$ "	x 6 $\frac{1}{2}$ "
100-watt	1 $\frac{1}{8}$ "	x 6 $\frac{1}{2}$ "
160-watt	1 $\frac{1}{8}$ "	x 8 $\frac{1}{2}$ "
200-watt	1 $\frac{1}{8}$ "	x 10 $\frac{1}{2}$ "

SERIES AC-10-FA—10-WATT

Dimensions: $\frac{5}{16}$ " dia. x 1 $\frac{3}{4}$ " long

Ohms	Ohms	Ohms	Ohms
1	100	1000	6000
2	150	1250	7000
3	200	1500	7500
5	250	2000	8000
7.5	300	2250	8500
10	350	2500	9000
15	400	3000	10000
20	500	3500	
25	600	4000	
50	750	4500	
75	800	5000	

LIST PRICE: All Sizes: \$0.85
Standard Packing — 10 (ten) per carton

SERIES A-25-KA—25-WATT

Dimensions: $\frac{9}{16}$ " dia. x 2 $\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms
1	100	1500	7500
2	150	2000	8000
3	200	2250	9000
5	250	2500	10000
7.5	300	3000	12000
10	400	3500	15000
15	500	4000	20000
20	750	4500	25000
25	800	5000	50000
50	1000	6000	
75	1250	7000	

LIST PRICES:

1 to 5000 ohms	\$0.95
6000 to 15000 ohms	1.10
20000 to 25000 ohms	1.25
50000 ohms	1.50

Supplied with Mounting Brackets at No Extra Cost.

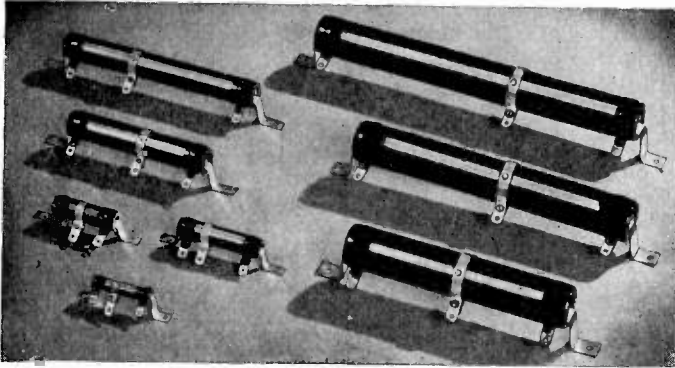
Extra Slider Bands.....\$0.10 each
Standard Packing — Individually Boxed

Ohms	Series K-50-NA	Series K-80-NA	Series K-100-WA	Series K-160-WA	Series K-200-WA	Ohms	Series K-50-NA	Series K-80-NA	Series K-100-WA	Series K-160-WA	Series K-200-WA
	$\frac{3}{8}$ " dia. x 4 $\frac{1}{2}$ " l. 50-watt	$\frac{3}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 80-watt	1 $\frac{1}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 115-watt	1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 160-watt	1 $\frac{1}{8}$ " dia. x 10 $\frac{1}{2}$ " l. 200-watt		Ohms	$\frac{3}{8}$ " dia. x 4 $\frac{1}{2}$ " l. 50-watt	$\frac{3}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 80-watt	1 $\frac{1}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 115-watt	1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 160-watt	1$\frac{1}{8}$" dia. x 10$\frac{1}{2}$" l. 200-watt
5	\$1.50	\$1.75	\$2.00	\$2.50	\$3.00	5,000	\$1.50	\$1.75	\$2.25	\$2.65	\$3.25
10	1.50	1.75	2.00	2.50	3.00	6,000	1.75	2.00	2.25	2.65	3.25
15	1.50	1.75	2.00	2.50	3.00	7,000	1.75	2.00	2.25	2.65	3.25
20	1.50	1.75	2.00	2.50	3.00	7,500	1.75	2.00	2.25	2.65	3.25
25	1.50	1.75	2.00	2.50	3.00	8,000	1.75	2.00	2.25	2.65	3.25
50	1.50	1.75	2.00	2.50	3.00	9,000	1.75	2.00	2.25	2.65	3.25
75	1.50	1.75	2.00	2.50	3.00	10,000	1.75	2.00	2.25	2.65	3.25
100	1.50	1.75	2.00	2.50	3.00	12,000	1.75	2.00	2.25	2.90	3.50
150	1.50	1.75	2.00	2.50	3.00	15,000	1.75	2.00	2.25	3.25	3.75
200	1.50	1.75	2.00	2.50	3.00	20,000	1.75	2.00	2.25	3.25	3.75
250	1.50	1.75	2.00	2.50	3.00	25,000	1.75	2.00	2.85	3.25	3.75
300	1.50	1.75	2.00	2.50	3.00	30,000	2.00	2.25	2.85	3.25	3.75
400	1.50	1.75	2.00	2.50	3.00	35,000	2.00	2.25	2.85	3.25	3.75
500	1.50	1.75	2.00	2.50	3.00	40,000	2.00	2.25	2.85	3.25	3.75
750	1.50	1.75	2.00	2.50	3.00	45,000	2.00	2.25	2.85	3.25	3.75
1,000	1.50	1.75	2.00	2.50	3.00	50,000	2.00	2.25	3.00	3.25	3.75
1,250	1.50	1.75	2.00	2.50	3.00	60,000	2.50	2.50	3.00	3.75	3.75
1,500	1.50	1.75	2.00	2.50	3.00	75,000	2.50	2.50	3.15	3.75	3.75
2,000	1.50	1.75	2.00	2.50	3.00	80,000	2.50	2.50	3.15	3.75	3.75
2,500	1.50	1.75	2.00	2.50	3.00	100,000	2.50	2.50	3.65	3.75	3.75
3,500	1.50	1.75	2.00	2.50	3.00	125,000			4.00	4.25	
4,000	1.50	1.75	2.00	2.50	3.00	150,000			4.25	4.25	
4,500	1.50	1.75	2.25	2.50	3.00						

All resistors furnished with mounting brackets at no extra cost.
Standard Packing — Individually Boxed.

LECTROHM *Vitreous Enameled* RESISTORS

Quality—Accuracy—Dependability—Long Life



WIRE WOUND ADJUSTABLE TYPES

The same high quality and construction are used for LECTROHM Adjustable Resistors as are incorporated in LECTROHM fixed units.

These resistors are used for replacing voltage dividers in radio receivers, for radio transmitter power supply, and for general experimental work.

TYPE 1 3/4 EV—10-WATT

DIMENSIONS 1 1/8" x 1 1/8" x 1 3/4"
 TERMINALS Lug Type
 MAXIMUM RESISTANCE 10,000 ohms
 MOUNTING BRACKET Centers 2 1/4"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	3150	\$0.98	750	115	\$0.98
2	2230	.98	800	111	.98
3	1825	.98	1000	100	.98
5	1415	.98	1250	89	.98
7.5	1155	.98	1500	79	.98
10	1000	.98	2000	69	.98
15	815	.98	2250	64	.98
20	707	.98	2500	61	.98
25	630	.98	3000	56	.98
50	447	.98	3500	51	.98
75	365	.98	4000	47	.98
100	315	.98	4500	44	.98
150	258	.98	5000	40	.98
200	223	.98	6000	36	.98
250	200	.98	7000	33	.98
300	182	.98	7500	32	.98
350	169	.98	8000	31	.98
400	158	.98	8500	30	.98
500	141	.98	10000	24	.98
600	129	.98			

TYPE 25V—25-WATT

DIMENSIONS 1 1/8" x 1 1/8" x 2"
 TERMINALS Solder Lug
 MAXIMUM RESISTANCE 25,000 ohms
 MOUNTING BRACKET Centers 2 7/8"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	5000	\$1.24	1000	158	\$1.24
3	2890	1.24	1250	141	1.24
5	2240	1.24	1500	129	1.24
10	1580	1.24	2000	112	1.24
15	1290	1.24	2500	100	1.24
25	1000	1.24	3000	91	1.24
50	707	1.24	3500	84	1.24
75	575	1.24	4000	79	1.24
100	500	1.24	5000	71	1.24
150	400	1.24	6000	64	1.43
200	353	1.24	7500	57	1.43
250	316	1.24	10000	50	1.43
300	288	1.24	12000	44	1.43
400	250	1.24	15000	26	1.43
500	224	1.24	20000	22	1.56
750	182	1.24	25000	20	1.56

TYPE 4 1/2 MV—50-WATT

DIMENSIONS 3/4" x 1/2" x 4 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 5 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	3160	\$1.95	3000	129	\$1.95
10	2230	1.95	4000	112	1.95
25	1410	1.95	5000	100	1.95
50	1000	1.95	7500	81	2.15
75	816	1.95	10000	70	2.15
100	707	1.95	12000	64	2.15
150	577	1.95	15000	57	2.15
200	500	1.95	20000	50	2.15
250	447	1.95	25000	44	2.15
300	408	1.95	30000	41	2.47
400	354	1.95	40000	35	2.47
500	316	1.95	50000	20	2.47
750	258	1.95	60000	18	2.86
1000	224	1.95	75000	17	2.86
1500	182	1.95	80000	16	2.86
2000	158	1.95	100000	14	2.86
2500	141	1.95			

TYPE 6 1/2 MV—80-WATT

DIMENSIONS 3/4" x 1/2" x 6 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
10	2830	\$2.54	3500	152	\$2.54
15	2310	2.54	5000	126	2.54
25	1790	2.54	7500	103	2.86
50	1265	2.54	10000	89	2.86
100	894	2.54	15000	73	2.86
250	586	2.54	20000	63	2.86
300	517	2.54	25000	57	2.86
400	495	2.54	30000	51	3.25
500	400	2.54	40000	44	3.25
750	327	2.54	50000	25	3.25
1000	283	2.54	60000	23	3.58
1500	231	2.54	75000	21	3.58
2000	200	2.54	80000	20	3.58
2500	179	2.54	100000	18	3.58

TYPE 6 1/2 KV—100-WATT

DIMENSIONS 1 1/8" x 3/4" x 6 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
50	1413	\$2.86	15000	81	\$3.25
100	1000	2.86	20000	70	3.25
500	447	2.86	25000	63	3.25
1000	316	2.86	30000	57	3.58
2000	223	2.86	35000	53	3.58
3000	182	2.86	40000	50	3.58
4000	158	2.86	50000	44	3.58
5000	141	2.86	75000	23	3.90
7500	115	3.25	100000	20	3.90
10000	100	3.25			

TYPE 8 1/2 KV—160-WATT

DIMENSIONS 1 1/8" x 3/4" x 8 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 9 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	5660	\$3.58	10000	126	\$3.58
10	4000	3.58	15000	103	4.16
25	2530	3.58	20000	89	4.16
50	1788	3.58	25000	80	4.16
100	1266	3.58	30000	73	4.16
500	566	3.58	40000	55	4.16
1000	400	3.58	50000	43	4.16
2500	253	3.58	75000	27	4.55
5000	179	3.58	100000	18	4.55

TYPE 10 1/2 KV—200-WATT

DIMENSIONS 1 1/8" x 3/4" x 10 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 11 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
50	2000	\$4.29	10000	141	\$4.29
100	1414	4.29	20000	100	5.00
500	632	4.29	25000	89	5.00
1000	447	4.29	30000	81	5.00
1500	361	4.29	50000	63	5.00
2000	316	4.29	75000	51	5.00
2500	283	4.29	100000	28	5.00
5000	200	4.29			

ADJUSTABLE LUGS

Diameter of Resistor	List Price
	3/8"	$0.13
5/8"	.13
7/8"	.20
1 1/4"	.20

Screw-Driver Type

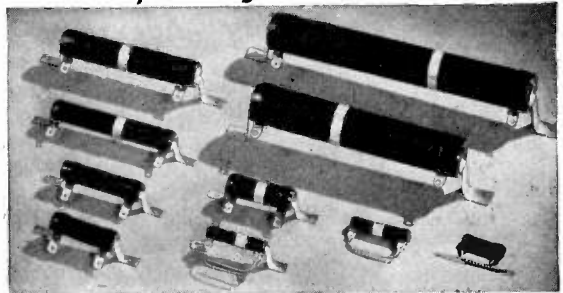
Mounting brackets and one band are furnished with all adjustable types.

LECTROHM *Vitreous* Enameled RESISTORS

Quality—Accuracy—Dependability—Long Life

WIRE WOUND—FIXED TYPES

LECTROHM Resistors are manufactured from the highest quality materials obtainable and are rated according to R.M.A. standards. LECTROHM Resistors are rugged—dependable—accurate—quality components that will give long trouble-free service. (Mounting brackets available for 20, 50, 80, 100, 160 and 200 watt units.)



TYPE 1 1/4L—5-WATT

DIMENSIONS..... 1/4" x 3/8" x 1/4"
TERMINALS..... Pig Tail
MAXIMUM RESISTANCE..... 10,000 ohms
No Mounting Brackets

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	2240	\$0.52	300	129	\$0.52
2	1580	.52	350	119	.52
3	1290	.52	400	111	.52
4	1110	.52	500	100	.52
5	1000	.52	600	91	.52
10	707	.52	700	84	.52
15	575	.52	750	81	.52
20	500	.52	800	79	.52
25	447	.52	900	74	.52
30	408	.52	1000	70	.52
35	374	.52	1100	64	.52
40	346	.52	1200	60	.52
50	316	.52	1250	59	.52
75	258	.52	1500	54	.52
100	225	.52	1750	50	.52
125	200	.52	2000	44	.52
150	182	.52	2500	40	.52
200	158	.52	3000	36	.52
225	149	.52	4000	31	.52
250	141	.52	5000	28	.52

TYPE 2R—20-WATT

DIMENSIONS..... 1/2" x 5/16" x 2"
TERMINALS..... Solder Lug
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 2 3/4"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	2000	\$0.91	1100	131	\$0.91
10	1414	.91	1250	126	.91
15	1153	.91	1500	115	.91
20	1000	.91	2000	100	.91
25	894	.91	2500	89	.91
40	707	.91	3000	81	.91
50	633	.91	4000	70	.91
60	571	.91	5000	63	.91
75	517	.91	6000	57	.91
100	448	.91	7000	53	.91
125	400	.91	7500	51	.91
150	365	.91	8000	50	.91
200	316	.91	10000	43	.91
250	283	.91	12500	39	.91
300	258	.91	15000	30	.91
350	238	.91	20000	24	.91
400	223	.91	25000	21	1.11
500	200	.91	30000	21	1.11
600	182	.91	35000	18	1.11
700	169	.91	40000	17	1.11
750	163	.91	45000	13	1.11
800	158	.91	50000	11	1.11
1000	141	.91			

TYPE 6 1/2K—100-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 6 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
25	2000	\$2.15	3000	180	\$2.15
50	1414	2.15	5000	140	2.15
75	1155	2.15	7500	115	2.54
100	1100	2.15	10000	100	2.54
150	815	2.15	15000	80	2.54
200	633	2.15	20000	70	2.54
500	447	2.15	25000	63	2.54
750	365	2.15	30000	58	2.86
1000	315	2.15	40000	50	2.86
1250	280	2.15	50000	44	2.86
1500	250	2.15	60000	41	3.25
2000	220	2.15	75000	36	3.25
2500	200	2.15	100,000	31	3.58

TYPE 1 3/4—10-WATT

DIMENSIONS..... 3/8" x 1/2" x 1 1/4"
TERMINALS..... Pig Tail
MAXIMUM RESISTANCE..... 40,000 ohms
No Mounting Brackets

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	3150	\$0.59	1500	79	\$0.59
2	2230	.59	1750	74	.59
3	1825	.59	2000	69	.59
5	1415	.59	2250	64	.59
7.5	1155	.59	2500	61	.59
10	1000	.59	3000	56	.59
15	815	.59	3500	51	.59
20	707	.59	4000	47	.59
25	630	.59	4500	44	.59
50	447	.59	5000	40	.59
75	365	.59	6000	36	.59
100	315	.59	7000	33	.59
150	258	.59	7500	32	.59
200	223	.59	8000	31	.59
250	200	.59	8500	30	.59
300	182	.59	10000	24	.59
350	169	.59	12000	20	.65
400	158	.59	12500	20	.65
500	141	.59	15000	18	.65
600	129	.59	17500	17	.65
700	119	.59	18000	16	.65
750	115	.59	20000	15	.65
800	111	.59	22500	15	.65
900	105	.59	25000	14	.65
1000	100	.59	30000	8	.65
200	91	.59	40000	7	.65
250	89	.59			

TYPE 4 1/2M—50-WATT

DIMENSIONS..... 3/4" x 1/2" x 4 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 5 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	3165	\$1.56	6000	85	\$1.82
10	2230	1.56	7000	78	1.82
25	1300	1.56	7500	77	1.82
50	1000	1.56	8000	75	1.82
100	700	1.56	10000	66	1.82
200	500	1.56	12000	63	1.82
250	440	1.56	12500	60	1.82
500	300	1.56	15000	56	1.82
750	250	1.56	20000	48	1.82
1000	215	1.56	25000	43	1.82
1500	175	1.56	30000	39	2.08
2000	155	1.56	40000	34	2.08
2500	135	1.56	50000	30	2.08
3000	120	1.56	60000	28	2.08
4000	105	1.56	75000	25	2.08
5000	95	1.56	100000	21	2.08

TYPE 8 1/2K—160-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 8 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 9 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	5660	\$2.86	4500	185	\$2.86
10	4000	2.86	5000	180	2.86
25	2530	2.86	7500	145	2.86
50	1788	2.86	10000	125	2.86
75	1460	2.86	15000	105	3.45
100	1260	2.86	20000	90	3.45
200	900	2.86	25000	80	3.45
500	570	2.86	30000	67	3.45
1000	400	2.86	35000	57	3.45
1500	330	2.86	40000	50	3.45
2000	280	2.86	50000	40	3.45
2500	250	2.86	60000	33	3.90
3000	230	2.86	70000	28	3.90
3500	215	2.86	80000	25	3.90
4000	200	2.86	100000	20	3.90

TYPE 6 1/2M—80-WATT

DIMENSIONS..... 3/4" x 1/2" x 6 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	4000	\$2.04	5000	122	\$2.04
10	2730	2.04	6000	112	2.41
25	1730	2.04	7500	100	2.41
50	1290	2.04	8000	98	2.41
100	865	2.04	10000	86	2.41
200	612	2.04	15000	70	2.41
250	545	2.04	20000	61	2.41
500	387	2.04	25000	55	2.41
750	316	2.04	30000	50	2.72
1000	274	2.04	50000	43	2.72
1500	223	2.04	50000	39	2.72
2000	193	2.04	60000	37	3.09
2500	173	2.04	75000	31	3.09
3000	158	2.04	100000	27	3.40
4000	137	2.04			

TYPE 10 1/2K—200-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 10 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 11 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	6310	\$3.58	4500	210	\$3.58
10	4470	3.58	5000	200	3.58
25	2830	3.58	7500	165	3.58
50	2000	3.58	10000	140	3.58
75	1635	3.58	15000	115	4.29
100	1400	3.58	20000	100	4.29
250	900	3.58	25000	90	4.29
500	630	3.58	30000	82	4.29
1000	450	3.58	35000	71	4.29
1500	365	3.58	40000	62	4.29
2000	315	3.58	50000	50	4.29
2500	280	3.58	60000	42	4.29
3000	260	3.58	75000	33	4.29
3500	240	3.58	100000	25	4.29
4000	225	3.58			

LECTROHM R. F. PLATE CHOKES (1000 Milliamps.)



Type	RFC-1	RFC-2	RFC-3	RFC-4
Amateur				20, 40
Band Meters	5	10 & 20	20 & 40	80 & 160
Microhenries	5.4	35	95	220
D. C. Ohms	0.85	5.9	6	3
Length, Overall	1 3/8"	3"	6"	6 1/2"
Diameter	1/4"	3/8"	1/2"	3/4"
List Price	\$0.33	\$1.04	\$1.56	\$2.15



LECTROHM INSULATED WIRE-WOUND RESISTORS—1 WATT

Ohms	Max. Current Mills.	Ohms	Max. Current Mills.	Ohms	Max. Current Mills.	Ohms	Max. Current Mills.
100	100	750	36	20	9,000	10	10
125	89	800	35	18	10,000	10	7
150	81	900	33	16	12,500	9	8
200	70	1,000	31	15	15,000	8	7
250	63	1,100	30	14	16,000	8	7
300	57	1,200	28	14	17,500	7	7
350	53	1,250	28	12	18,000	7	7
400	50	1,500	25	11	20,000	7	7
500	44	1,750	23	11	22,500	6	6
600	40	2,000	22	11	25,000	6	6
700	37	2,250	21				
List Price, Each							\$0.33



"CARBOMITE" M-TYPE RESISTORS

(Actual size as Illustrated)



M1-1 WATT



M2-2 WATT



M $\frac{1}{2}$ - $\frac{1}{2}$ WATT

- Meet JAN-R-11 Army-Navy Specification
- Low Noise Level; Low Voltage Coefficient
- Stamped With Value
- Extra Small Size
- High Insulation 1000 volt Breakdown

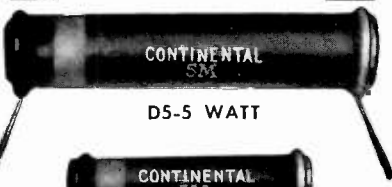
Continental's New "CARBOMITE" bakelite insulated carbon composition resistors are now the standard of Electronic components used in the Radio and Electronic Industries. They meet all specifications of the joint Army-Navy-Jan-R-11 including the toughest of all tests the "Salt water immersion cycling." The "CARBOMITE" M type resistor consists of a solid molded carbon core, outer molded bakelite insulated shell and molded in leads. These resistors being well insulated can be mounted side by side or against any metal surface without shorting or grounding. They are recommended where space limits and insulating quality require a rugged reliable and small resistor capable of withstanding severe service. The lead wires are straight and are tinned with a tin composition heavy enough to give instant soldering with the touch of the heated soldering iron tip. The resistor values are easily identified by the bright non-rubbing off color code bands and the white ink stamped numbers of the value on the body of the resistor. The M2-2 watt, M1-1 watt and the M $\frac{1}{2}$ - $\frac{1}{2}$ watt are made in all the standard preferred RMA values as listed in the table below and are packed in quantities of 10 or 50 of each value to the box. Order in these quantities or multiples thereof.

Type	Size	List Price	Tolerance
M $\frac{1}{2}$	$\frac{5}{8}$ " x $\frac{3}{8}$ " Dia.	\$0.33	5% 10%
M1	$\frac{9}{16}$ " x $\frac{3}{8}$ " Dia.	.50	.25
M2	$\frac{11}{16}$ " x $\frac{3}{8}$ " Dia.	.66	.33

CONTINENTAL D-TYPE



D5ST2-5 WATT



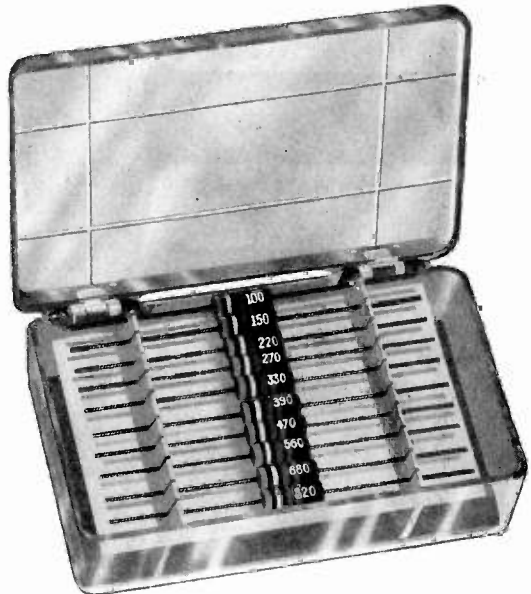
D5-5 WATT



D3-3 WATT

"POCKET-PAC" RESISTOR KITS

- De Luxe Clear Plastic Boxes
- Color Code in Each Kit
- Strongly Hinged Covers
- Values Stamped on Each Resistor



These "Pocket-Pac" Kit-Boxes are made of clear durable plastic. The contents can be easily seen thru the walls of the box. A Color Code Indicator and the Box are furnished free with each Kit.

FORTY RESISTOR "POCKET-PAC" KIT VALUES

Ohms	Ohms	Ohms	Megohms	Megohms
100	1000	10,000		
150	1500	15,000	0.1	1.0
220	2200	22,000	.15	
270	2700	27,000	.22	2.2
330	3300	33,000	.27	
470	4700	47,000	.33	
560	5600	56,000	.47	4.7
680	6800	68,000	.56	
820	8200	82,000	.68	
			.82	10.0

"Pocket-Pac"

Code No.	Quantity and Type	Box Size	List Price
40A	40 M $\frac{1}{2}$ - $\frac{1}{2}$ watt	4 $\frac{1}{2}$ x 2 $\frac{3}{4}$ x 1	\$6.80
40B	40 M1 - 1 watt	4 $\frac{1}{2}$ x 2 $\frac{3}{4}$ x 1	10.00
40C	40 M2 - 2 watt	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	13.20
80D	40 M $\frac{1}{2}$ plus 40 M1	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	16.80
80E	2 ea. 40 values M $\frac{1}{2}$	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	13.60
80F	2 ea. 40 values M1	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	20.00

- Heavy Duty Carbon
- Operate safely on overloads
- Non-inductive

The D-Type resistor with radial leads is made with solid molded carbon rods, copper sprayed on the ends to which are soldered No. 18 copper tinned leads. The soldered contact construction insures a noise-free and stable resistor. They are known as the heavy duty type units because of their size—having a larger radiating area they operate safely on overloads. A baked-on insulation is a protection against shorts to subpanel and wiring.

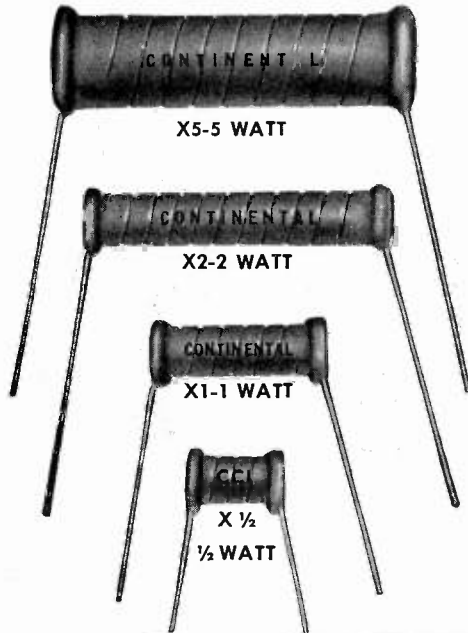
Type	Wattage	Size	List Price	Tolerance
D 3	3 Watt	2" x $\frac{3}{8}$ "	\$0.60	$\pm 5\%$ $\pm 10\%$
D 4	4 Watt	2 $\frac{1}{2}$ " x $\frac{1}{2}$ "	.75	.50
D 5	5 Watt	3" x $\frac{3}{8}$ "	.80	.60
D 5ST2*	5 Watt	3" x $\frac{3}{8}$ "	1.25	1.00

*D5ST2 units have heavy copper eyeletted and soldered strap terminals $\frac{3}{16}$ " wide with holes of 2 $\frac{1}{8}$ " spacing. The outer holes can be used with either 6-32 screw mounting or solder wire loops, while the inner holes are for 8-32 screw mounting. The outer section of the terminal can be cut off or bent to any angle desired.



"Nobleloy" X-Type Resistors

Trade Mark Reg.



- A new Continental Development!
- Not Wire Wound
- Not carbon!
- Stability of Wire Wound and Equivalent

After several years of research work CONTINENTAL engineers have developed a new resistor involving the metal film principle, having the accuracy of a wire wound unit. Absolutely no carbon whatever is used in the fabrication of these resistors. The metallic resistance film is formed on the surface of a low loss ceramic tube using a patented pyrochemic process.

The metal film thus formed is hermetically sealed by a layer of vitreous enamel specially developed and patented by CONTINENTAL. The ceramic tube with its associated film is then spiraled to give a long resistance path and to accurately calibrate the unit to value.

Since the ceramic tubes are hollow they allow a larger surface for heat radiation, thus permitting the resistor to withstand overloads of 200% or better.

The copper-tinned lead terminals are soldered to extremely low resistance metal contact films which in turn are integral with the resistance film, thereby reducing contact resistance to a minimum. This type of construction produces a resistor unit having not only excellent resistance stability but also a negligible noise characteristic.

ELECTRICAL CHARACTERISTICS OF CONTINENTAL "NOBLELOY X" TYPE RESISTORS

Voltage

The recommended voltage rating of Continental "NOBLELOY X" type resistors is the maximum r.m.s. voltage which the resistor is expected to withstand in continuous use and is determined from the formula:

$$E = \sqrt{WR} \text{ Where } E = \text{rated D.C. or r.m.s. A.C. Voltage, } W = \text{watts rating, } R = \text{resistance.}$$

In no case shall the D.C. or r.m.s. A.C. voltage be greater than the maximum voltage shown in the table.

Load Characteristics

Irrespective of value, Continental "NOBLELOY X" type resistors will not change more than 5.0% when the load is increased from 2% of rated wattage to 200% of rated wattage, and on cooling to room temperature returns to the original value. This is practically the temperature coefficient effect.

Voltage Characteristics

Voltage coefficient does not exceed $\frac{1}{10}$ of 1%.

Normal Load Life Characteristics (All Values)

The permanent change in resistance will not be more than 1.0% when the resistor is subjected to a normal life test of 1000 hours.

Overload Life Characteristics (All Values)

The permanent change in resistance will not be more than 2.0% when the resistor is subject to 200% of rated wattage for a period of 1000 hours.

Temperature Coefficient (All Values)

The temperature coefficient of resistance will not exceed 0.0005 (.05 per degree Centigrade) Negative.

Humidity Characteristics (All Values 1.0 Ohm to 15 Megohms)

Continental "NOBLELOY X" type resistors will not change more than 1.5% when conditioned in an atmosphere of 100% relative humidity at 40° C. ambient, for a period of 1000 hours.

Shelf Life

When stored under normal conditions, the resistance will not change more than 0.1% during a period of 2000 hours. This is a negligible change.

Noise Characteristic

When tested for noise according to standard R.M.A. procedure, the inherent noise level will not exceed $\frac{1}{4}$ microvolt per volt, irrespective of resistance value. This level is equal to wire wounds.

Finish

All "X" type resistors possess a smooth, uniform coating of a special rubberized enamel capable of resisting deterioration up to and including 400°F.

Type	Wattage	Size	Values	Recommended Voltage		List Prices	
				500	700	1%	5%
X-1/2	1/2 Watt	3/8" x 5/8"	1/2 ohm to 5 megohm	500	700	\$1.00	\$.85
X-1	1 Watt	3/8" x 1"	1 ohm to 10 megohm	700	1000	1.00	.85
X-2	2 Watt	3/8" x 1 3/4"	2 ohm to 20 megohm	1000	1500	1.20	1.05
X-5	5 Watt	1/2" x 2"	3 ohm to 30 megohm	1250	2000	1.40	1.25

No. 18 tinned copper leads 1 1/2" long.

FILTERNOYS



FILTERNOYS

FILTERNOYS Paper Condensers



EE TYPE



IE TYPE

CONTINENTAL Carbon Model E condensers are high quality, paper dielectric capacitors built in shapes and sizes equivalent to electrolytic capacitors commonly found in radio receivers. They are flash tested at 3 times their d.c. working voltage and have the advantage of low power factor at 60 cycles. They are non-inductive, non-polarized, and are of permanent capacity. No active chemicals are used which could cause corrosion of the foil or leakage. The tabulations below show the actual capacity in microfarads and the rated sizes of electrolytic condensers occupying the same dimensions. Recommended for use on d.c. and rectified a.c. only. Model E, d.c. working volts, 600; peak volts, 1000.

Data and Prices on Type E Condensers

Cardboard Containers
Furnished with Six-Inch Wire Leads

E-Type—600 Volts d.c.

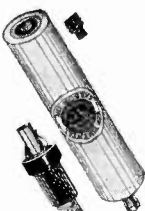
Code	Capacity in Mfds.	Equivalent Electrolytic	Size	List Price
EE2	1.2	2	4 3/8 x 1 3/8 x 1 1/8	\$1.35
EE4	2.4	4	4 3/8 x 1 3/8 x 1 1/8	1.65
EE8	4.8	8	4 3/8 x 1 3/8 x 1 1/8	2.00

Condensers in Metal Cans
Inverted Stud Mounting, Six-Inch Leads
Insulated from Can

IE4	2.4	4	4 3/8 x 1 3/8 Dia.	\$2.00
IE8	4.8	8	4 3/8 x 1 1/2 Dia.	2.35

Oil Burner Suppressor

Filternoys Suppressor OB15, carbon element type, intended for use only with the high tension spark ignition of oil or gas burning heating systems. Must be connected in series with each line to the spark gap. Size of the suppressor 3 1/2" x 3/4" diameter. Universal connections at both ends for solderless contact.



OB15.....List Price \$1.80

FILTERNOYS F02GH Most Popular and Universal Plug-in Type FOR ELECTRIC RAZORS

SUPPRESSION TYPE

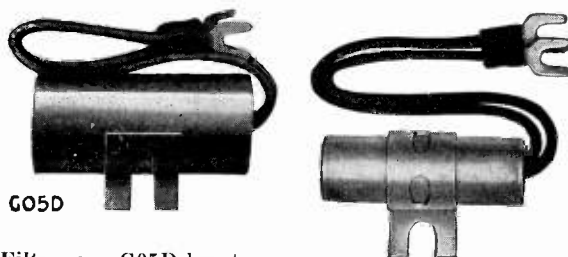
Handy plug-in type suppressor with two r-f chokes, two condensers, and a ground lead for use on electrical devices of 300 watts or less, creating interference of intermittent or temporary character, such as a sewing machine motor, small electric washing machines, electric shavers, drink mixers, cash registers, adding machines, or electric typewriters. Size 2 5/8" by 1 3/8" diameter. 300-Watt capacity on 120 volts, a.c. or d.c.



Filternoys F02GH.....List Price \$2.00

FILTERNOYS G05D, G01D

Designed to Be Mounted Directly on Small Electrical Devices



Filternoys G05D has two 0.5 Mfd. condensers, one connected to each lead and the other ends grounded to the can at a common point. This Filternoys can be connected across each pair of brushes of generators, motors and the line wires of all stationary electric devices. Rating: 115-230 Volts a.c. or d.c.

G05D—Size 2 1/4 x 1,
List Price \$1.50

Filternoys Diverter G01D—Dual capacitors in a grounded container for any size electric motor operating on 120 v. or less. Through making use of the field coils as chokes, this is a most effective method to silence a noisy a.c. or d.c. motor. Size 1 7/8" x 5/8" diameter. Shock Proof.

G01D....List Price \$0.75

FILTERNOYS F18

Filternoys Diverter F18 is a compact 0.1 mfd capacitor in a conveniently small bakelite plug-in coupler for use across domestic power lines in which the neutral wire is grounded. The capacitor diverts interference from the high potential side of the power line to the grounded neutral side. Use on floor or table lamps, cigarette lighters, and the radio.



F18.....List Price \$0.75

SUPPRESSORS



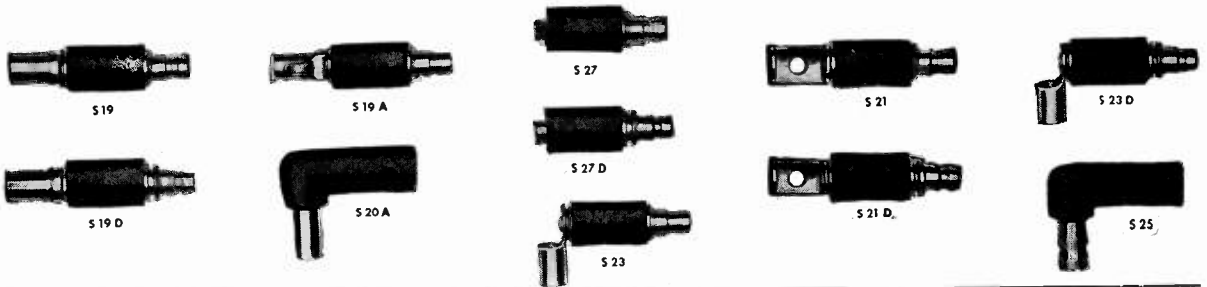
SUPPRESSORS

ALL SPARK PLUG SUPPRESSORS AND DISTRIBUTOR SUPPRESSORS EACH LIST PRICE \$0.30

CONTINENTAL SUPPRESSORS have been subjected to years of laboratory development and actual road service. They effectively remove noise interference from spark discharge at the plugs and high-tension distributor—yet do not in any way affect the motor car ignition system.

They have mechanical strength to stand the most severe service. The resistance value of 10,000 ohms has been scientifically determined. Sparking across the terminals is eliminated by careful shaping of the electrodes and cases.

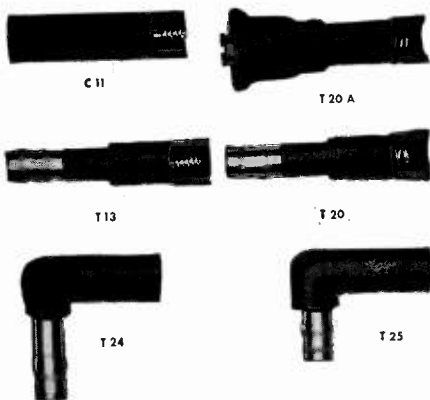
SPARK PLUG SUPPRESSORS



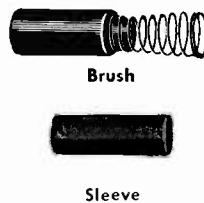
TYPE	SPARK PLUG CONNECTION
S-19	Vertical — Snaps on to spark plug.
S-19-A	Vertical — Rajah special terminal.
S-19-D	Vertical — Snaps on to spark plug same as S-19.
S-27	Vertical — Screws on.
S-27-D	Vertical — Screws on.
S-21	"U" bracket type.
S-21-D	"U" bracket type.
S-23	Elbow — Flexible, snaps on.
S-23-D	Elbow — Flexible, snaps on.
S-20-A	Elbow — Snaps on spark plug.
S-25	Elbow — Snaps on spark plug and also fits distributor. A universal suppressor.

CABLE CONNECTION
Cable terminal snaps on.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable screws into suppressor, making a moisture proof insulated joint.
Cable screws into suppressor, making a moisture proof insulated joint.

DISTRIBUTOR SUPPRESSORS

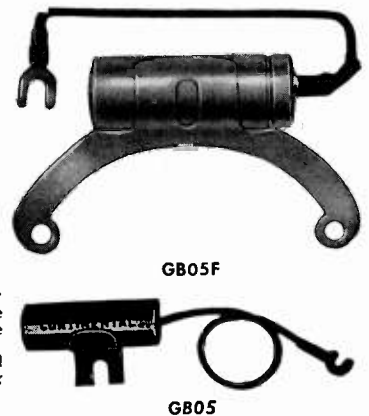


FORD DISTRIBUTOR SUPPRESSOR



T-17: Brush and Sleeve Supplied Together
 Distributor Type Brush Suppressor of the right resistance to suppress interference from the spark at the rotor.
 Universal Type: the brush can be inserted in the bakelite sleeve to fit models using the larger size brush.

GENERATOR CONDENSERS



ALL SPARK PLUG AND DISTRIBUTOR SUPPRESSORS EACH LIST PRICE \$0.30

Type	Application	Capacity	Size	List Price
GB05	Generator and coil	.5 mfd.	2 1/8" x 3/4"	\$0.60
GB05F	Ford V-8 coil	.5 mfd.	2 1/8" x 3/4"	.75

TYPE	DISTRIBUTOR CONNECTION
C-11	
T-13	Vertical — Snaps in distributor well.
T-20	Vertical — Snaps in distributor well.
T-20-A	Vertical — Snaps in distributor well and has a rubber skirt for moisture proof connection.
T-24	Elbow — Snaps in distributor well.
T-25	Elbow — Snaps in distributor well and fits both spark plug or distributor on Chevrolet and other makes.

CABLE CONNECTION
The ignition cable can be cut at any point and the two ends screwed into the suppressor.
Cable screws into suppressor, making a moisture proof insulated joint
Cable with terminal lelip snaps easily into suppressor.
Cable with terminal lelip snaps easily into suppressor.
Cable screws into suppressor.
Cable screws into suppressor.

WIRT

WIRE WOUND FIXED RESISTORS

WIRE WOUND FIXED RESISTORS

To satisfy the most exacting needs of the Radio and Electronic Industries, Wirt Fixed Wire-wound Resistors are regularly furnished in PHENOCOTE protective coatings, developed and steadily improved over a period of many years in the Wirt Laboratories. The resistor wire is space wound on low loss ceramic tubes. The PHENOCOTE covering is an exclusive organic cement coating offering maximum protection to the resistance winding against the detrimental effects of moisture, humidity and electrolysis. Absolutely inert chemically, it will not effect the most delicate windings. It is particularly recommended for fine wire sizes and all applications where the maximum temperature of the unit will not exceed 300° F. These Resistors are universally used in the Radio, Electronic, Instrument, Public Address and Test Equipment fields.

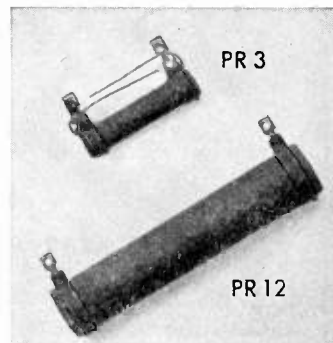


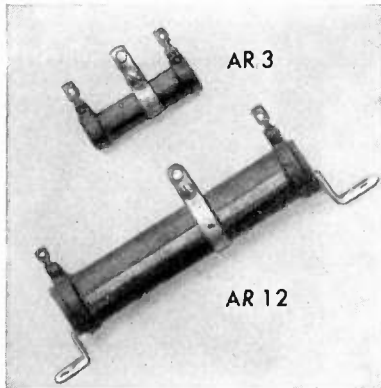
TABLE OF SPECIFICATIONS OF FIXED RESISTORS

Cat. No.	Watts	Sizes Phys.	Resistance Limits (Ohms)	List Price (Ea.)	Accessories Terminals	Mounting Brackets	Mounting Centers	Packing
PR 1	5	3/8"x1"	1 to 10000	\$0.53	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 3	10	3/8"x1 3/4"	1 to 10000 11000 to 25000	.59 .65	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 4	20	1/2"x2"	5 to 15000 16000 to 50000 51000 to 100000	.91 1.11 1.43	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 12	50	3/4"x4"	5 to 5000 5100 to 25000 26000 to 100000	1.56 1.82 2.08	Soldering Lugs	2	5"	Individual
PR 19	100	1 1/8"x6 1/2"	5 to 5000 5100 to 25000 26000 to 50000 51000 to 75000 76000 to 100000	2.15 2.54 2.86 3.25 3.58	Soldering Lugs	2	7"	Individual
PR 22	160	1 1/8"x8 1/2"	5 to 10000 11000 to 50000 51000 to 100000	2.86 3.43 3.86	Soldering Lugs	2	9"	Individual
PR 23	200	1 1/8"x10 1/2"	5 to 10000 11000 to 100000	3.58 4.29	Soldering Lugs	2	11"	Individual

When ordering state: Quantity, Catalogue Number and Resistance Value.

WIRT

WIRE WOUND ADJUSTABLE RESISTORS



WIRE WOUND ADJUSTABLE RESISTORS

WIRT Adjustable Resistors are space wound on low loss ceramic tubes to which the resistance wire is bonded, resulting in dependability and long life. Protection of the windings is afforded by the PHENOCOTE covering which is described fully on the preceding page. One adjustable Slider Band, screw driver type, is furnished as standard. Bakelite knob type bands can be furnished on special order at slightly higher prices as shown below.

These bands are made with small contact buttons located on the inside of the band so that a number of taps may be made without shorting out excessive resistance.

TABLE OF SPECIFICATIONS OF ADJUSTABLE RESISTORS

Cat. No.	Watts	Sizes Phys.	Resistance Limits (Ohms)	List Price (Ea.)	Accessories			Mounting Centers	Packing
					Terminals	Brackets Mounting	Slider Bands		
AR 3	10	3/8" x 1 3/4"	1 to 10000	\$0.98	Soldering Lugs	None	1	Individual
AR 7	25	3/4" x 2"	1 to 5000	1.24	Soldering Lugs	2	1	3"	Individual
			6000 to 15000	1.43					
			20000 to 25000	1.56					
AR 12	50	3/4" x 4"	5 to 5000	1.95	Soldering Lugs	2	1	5"	Individual
			7000 to 25000	2.15					
			30000 to 50000	2.47					
			60000 to 100000	2.86					
AR 15	75	3/4" x 6"	10 to 5000	2.54	Soldering Lugs	2	1	7"	Individual
			7500 to 25000	2.86					
			30000 to 50000	3.25					
			60000 to 100000	3.58					
AR 19	100	1 1/8" x 6 1/2"	5 to 10000	2.86	Soldering Lugs	2	1	7"	Individual
			15000 to 50000	3.25					
			75000 to 100000	3.90					
AR 22	160	1 1/8" x 8 1/2"	5 to 10000	3.25	Soldering Lugs	2	1	9"	Individual
			15000 to 50000	4.15					
			60000 to 100000	4.65					
AR 23	200	1 1/8" x 10 1/2"	5 to 10000	4.29	Soldering Lugs	2	1	11"	Individual
			15000 to 100000	5.01					

Extra Adjustable Slider Bands are obtainable and priced as follows:

Wattage Size	Screw Driver Type	Bakelite Knob Type
10, 25, 50, 75	\$0.26	List Price Each \$0.39
100, 160, 200	.33	List Price Each .50

When ordering state: Quantity, Catalogue Number and Resistance Value.

WIRT

MINIATURE RHEOSTATS and POTENTIOMETERS

MINIATURE RHEOSTATS AND POTENTIOMETERS

General: WIRT Metal Housed Rheostats and Potentiometers are rugged and compact affording high quality and dependability in operation. Due to size and construction these controls are moderately priced. Housings are made of tinned steel. Highest quality resistance wire is space wound on specially treated laminated phenolic strips. The Phosphor Bronze contact-arm is grounded to the metal casing and all terminals are silver plated. Switches cannot be furnished. These Rheostats and Potentiometers are adaptable to a wide variety of uses in the Radio Instrument, Electronic and Test Equipment fields. The types available are listed below:

Cat. No. WC801—Two Terminal Rheostat, 2 Watt rating. Resistance Range: 5 ohms to 10,000 ohms with linear winding and standard tolerance of $\pm 15\%$. Diameter is $1\frac{1}{8}$ " and thickness $\frac{1}{2}$ ". Shaft is Cadmium plated steel, grounded to housing. $5/32$ " from end of bushing and slotted for screw driver adjustment. Brass mounting bushings, $\frac{3}{8}$ "-32 x $\frac{1}{4}$ " long are standard. Each control is equipped with one $9/16$ " hex mounting nut. **List Price**..... \$0.90 Each

Cat. No. WC802—Three Terminal Potentiometer. 2 Watt rating. Resistance Range: 5 ohms to 10,000 ohms with linear winding and standard tolerance $\pm 15\%$. All other specifications are the same as those listed under the WC801 control shown above. **List Price**..... \$1.25 Each

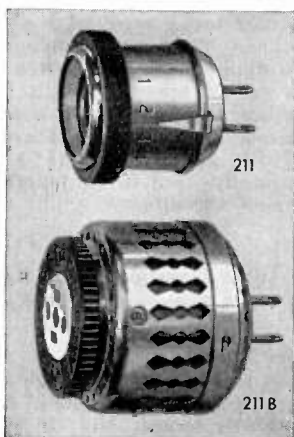
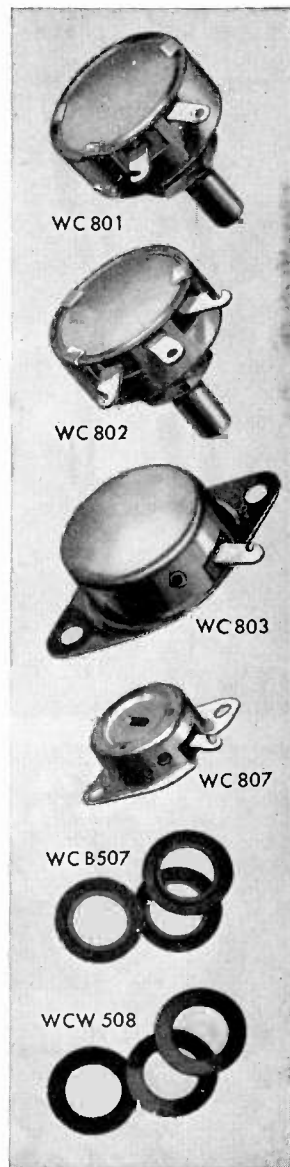
Cat. No. WC803—Sensitivity Control, 2 Watt rating. Resistance Range: 5 ohms to 12,000 ohms with linear winding and standard tolerance of $\pm 15\%$. Diameter is $1\frac{1}{8}$ " and thickness is $\frac{1}{2}$ ". A slot is provided in the Rotor mechanism allowing for screw driver adjustment from front only. **List Price**..... \$0.50 Each

Cat. No. WC804—Sensitivity Control, identical with WC803 Control, except provided with an opening in back of control to permit screw driver adjustment from either front or back. **List Price**..... \$0.55 Each

Cat. No. WC807—Miniature Sensitivity Control, 1.5 Watt rating. Resistance Range: 5 ohms to 3000 ohms with uniform winding and standard tolerance of $\pm 15\%$. A slot is provided in the Rotor mechanism allowing for screw driver adjustment from either front or back. **List Price**..... \$0.50 Each

Cat. No. WCB507—Insulating Bushing for $\frac{3}{8}$ " Brass bushing and used with Cat. Nos. WC801 and WC802 Controls. **List Price**..... \$0.095 Each

Cat. No. WCW508—Insulating Washer for $\frac{3}{8}$ " Brass bushing and used with Cat. Nos. WC801 and WC802 Controls. **List Price**..... \$0.075 Each



VARIABLE VOLTAGE REGULATOR

Cat. No. 211 — Variable Voltage Regulator is wound with high quality alloy wire on an insulated metal core with the winding encased in Di-El-It. It can be used as a Radio Voltage Regulator where the Receiver draws not more than 65 watts. For industrial use it can be wound up to 600 ohms maximum and will dissipate up to 8 watts. It is adjustable to 5 positions.

List Price..... \$3.00 Each

Cat. No. 211-B—Regulator has air-cooling features which promote rapid heat dissipation. When used as a Radio Voltage Regulator the Receiver must not draw more than 150 watts. In industrial use for control of voltage and to regulate speed or heat it can be wound with a maximum resistance of 300 ohms and can dissipate up to 20 watts with maximum resistance setting. It is adjustable to 8 positions. **List**..... \$5.00 Each

UTILITY CABINET

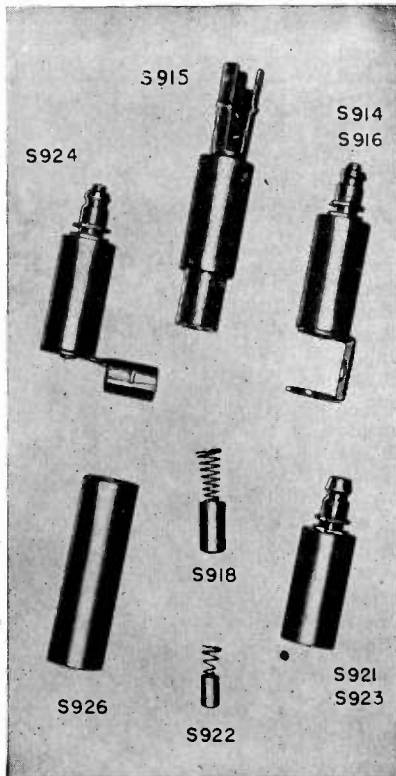
Cat. No. UC—Utility Cabinet is constructed of bass wood with corners dadoed and glued for strength; varnished and rubbed to give a beautiful finish. It has six drawers, each one having three removable partitions. The upper five drawers are 1" deep and the lower one is $1\frac{1}{2}$ " deep. Overall dimensions of the cabinet are 7" wide by $5\frac{5}{8}$ " deep by 9" high. Drawer guides, bottom and partitions are made of three ply laminated wood to prevent warping. Knobs are of wood and securely fastened. It is ideal for the storage of such parts as resistors, condensers, bolts, nuts, washers, small tools, etc. **List**..... \$8.00 Each



WIRT

SUPPRESSORS and SWITCHES

AUTO RADIO IGNITION SUPPRESSORS



Wirt Suppressors are made with moulded black bakelite housings. All metal parts are made of rugged unfinished brass. Terminals are securely fastened to casings and sealed with special moisture and heat resisting dielectric cement. Resistor pills are sprayed with zinc and then double impregnated with a special moisture-proofing compound. Resistance value of all standard types is 10000 ohms $\pm 20\%$; for FV8 types 50000 ohms $\pm 20\%$. The distributed capacity is less than 1.5 mmf. Resistance values will not change more than 7% after being submerged in water for 100 hours. Test by sparking 1800 times per minute at 10,000 volts for 100 hours produces resistance change of not more than 3%. Wirt Suppressors are impervious to heat, oil, moisture and mild acids, and will not change in resistance more than 10% in 50,000 miles of operation.

Cat. No.	Type	List Price
S914	Bracket—Standard	\$0.30 Each
S916	Bracket—For FV-8	.30 Each
S915	Distributor—Slip Fitting	.30 Each
S918	FV-8 Brush—Years 1933-34-35	.30 Each
S922	FV-8 Brush—Years 1936 to 1940	.30 Each
S921	Universal Screw—Standard	.30 Each
S923	Universal Screw—For FV-8	.30 Each
S924	Snap-on Plug	.30 Each
S926	Cable—Screw Fitting	.30 Each

WIRT ROTARY AND SLIDE SWITCHES

Rotary Switches

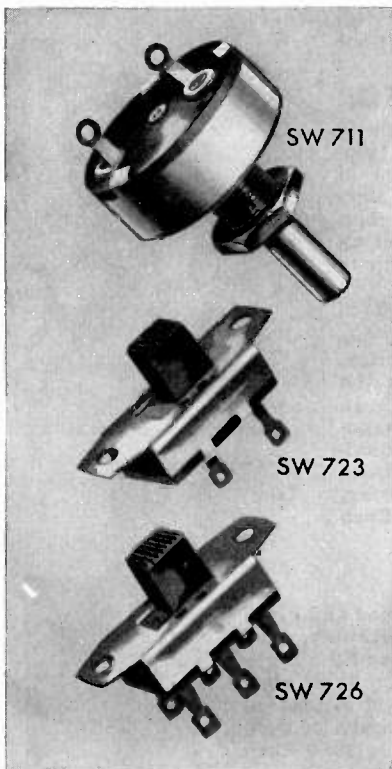
General: Wirt Rotary Switches are of the quick break type, have positive contact, are rugged and neat in appearance. They are constructed with tin plated steel housings. The outside diameter of the switch is $1\frac{1}{8}$ " and thickness $\frac{1}{2}$ ". Standard bushings are of brass, $\frac{3}{8}$ "-32 x $\frac{3}{8}$ " long. Steel shafts are $\frac{5}{8}$ " from end of bushing, and made with a flat. Wiping contacts and terminals are silver plated. Terminals are securely fastened in place. Activating spring is positive in action. One $9/16$ " hex. nut is furnished. These switches are successfully used in conjunction with Radio, Phonograph, Signal and Instrument Circuits.

Cat. No.	Type	List Price
SW711	—SPST Rotary Switch, 3A-125V-AC-DC 2 Terminals	\$0.90 Each
SW711A	—SPDT Rotary Switch, 3A-125V-AC-DC 3 Terminals	1.00 Each

Slide Switches

General: All Wirt Slide Switches are compact and sturdy. Housings are made of steel and are cadmium plated. The physical dimensions of the switches have been standardized, width $35/64$ ", length $1-13/32$ " and mounting centers $1\frac{1}{8}$ ". Standard buttons are of black bakelite. All contacts and terminals are silver plated. Switches SW723 and SW725 are supplied with a dot which indicates the "On" position. These switches are used in the Radio, Signal, Phonograph and Instrument industries.

Cat. No.	Type	List Price
SW723	—SPST Slide Switch, .75A-125V-AC-DC, 2 Terminals	\$0.31 Each
SW724	—SPDT Slide Switch, .75A-125V-AC-DC, 3 Terminals	.37 Each
SW725	—DPST Slide Switch, .50A-125V-AC-DC, 4 Terminals	.44 Each
SW726	—DPDT Slide Switch, .50A-125V-AC-DC, 6 Terminals	.55 Each



MALLORY CONTROLS • LIST PRICES

★ Complete descriptions of these parts will be found on the following pages.

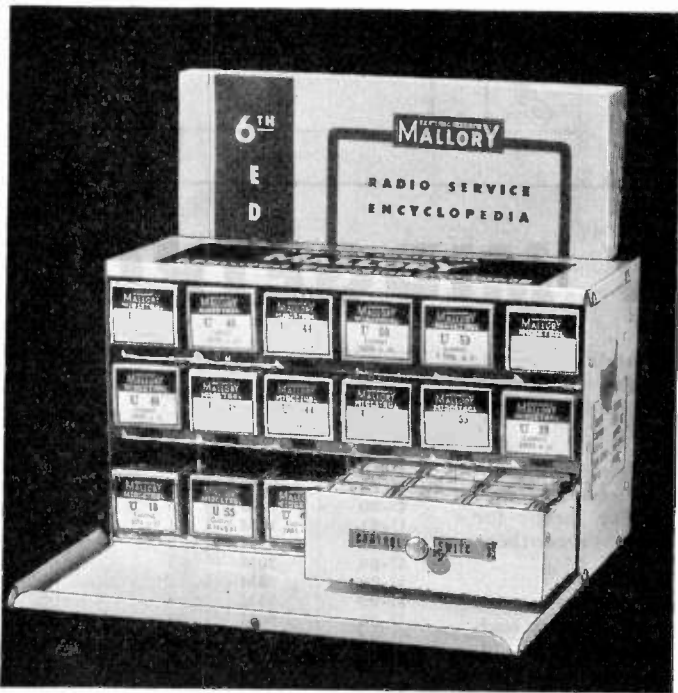
Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price
Mallory Page 3		Mallory Page 5		Mallory Page 6		Mallory Page 7		Mallory Page 9		Mallory Page 10	
Mallory Control Deals		1/8" Dia. • Fixed Shaft Controls		1/8" Dia. • Fixed Shaft • Special Application • Dual Controls		1/8" Dia. • Plug-In Shaft • Double Tapped Controls		1/2" Dia. • Fixed Shaft • Carbon Controls		Special Dual Controls	
U1485	\$24.75	MR14	\$1.25	SMD500	\$3.75	DTM282	\$1.85	F12	\$1.25	SRP282	\$1.85
R1485	24.75	MR18	1.25	SMD501	3.75	DTM283	1.85	H12	1.25	SRP286	1.85
M1485	24.75	MR19	1.25	SMD502	3.75	DTM287	1.85	J	1.25	SRP289	1.85
Mallory Page 4		1/8" Dia. • Fixed Knurled Shaft Controls		1/8" Dia. • Plug-In Shaft Controls		Universal and Special Plug-In Shafts for Use with Types UM, TM, and DTM Controls		1/2" Dia. • Fixed Shaft • Single & Double Tapped Controls		Mallory Page 11	
The Mallory Midgetrol		MK400 \$1.25		UM114 \$1.25		SS1 \$0.30		TRP601 \$1.85		A \$1.25	
U12	\$1.25	MK401	1.25	UM118	1.25	SS2	.30	TRP602	1.85	B	1.25
U14	1.25	MK402	1.25	UM119	1.25	SS3	.45	TRP603	1.85	C	1.25
U18	1.25	MK403	1.25	UM120	1.25	SS4	.30	TRP604	1.85	C12	1.25
U19	1.25			UM121	1.25	SS5	.30	TRP605	1.85	D	1.25
U20	1.25			UM122	1.25	SS6	.30	TRP606	1.85	D7	1.25
U21	1.25			UM124	1.25	SS10	.30	TRP607	1.85	D12	1.25
U22	1.25			UM128	1.25	SS11	.45	TRP608	1.85	E	1.25
U24	1.25			UM129	1.25	SS12	.45	TRP609	1.85	E7	1.25
U28	1.25			UM133	1.25	SS14	.30	TRP610	1.85	F	1.25
U29	1.25			UM134	1.25	SS15	.45	TRP612	1.85	F7	1.25
U33	1.25			UM135	1.25	SS16	.45	TRP613	1.85	G	1.25
U34	1.25			UM137	1.25	SS17	.65	TRP614	1.85	G7	1.25
U35	1.25			UM138	1.25	SS18	.30	TRP615	1.85	H	1.25
U36	1.25			UM140	1.25	SS19	.65	TRP616	1.85	H7	1.25
U39	1.25			UM141	1.25	SS20	.65	TRP617	1.85	Q	1.25
U40	1.25			UM142	1.25	SS21	.45	TRP618	1.85	R	1.25
U41	1.25			UM143	1.25	SS22	.30	TRP619	1.85	S	1.25
U42	1.25			UM144	1.25	SS23	.30	TRP620	1.85	T	1.25
U43	1.25			UM147	1.25	SS24	.30	TRP621	1.85	U	1.25
U44	1.25			UM149	1.25	SS26	.30	TRP622	1.85	V	1.25
U45	1.25			UM150	1.25	SS27	.30	TRP623	1.85	W	1.25
U46	1.25			UM151	1.25	SS28	.65	TRP624	1.85	X	1.25
U48	1.25			UM154	1.25	SS29	.30				
U50	1.25			UM155	1.25	SS30	.30				
U51	1.25			UM157	1.25	SS31	.30				
U53	1.25			UM158	1.25	SS32	.30				
U54	1.25			UM159	1.25	SS33	.45				
U55	1.25			UM160	1.25	SS34	.65				
U56	1.25			UM161	1.25						
U57	1.25			UM162	1.25						
U65	1.25			UM163	1.25						
UT420	1.85			UM165	1.25						
UT425	1.85			UM180	1.25						
UT427	1.85			UM181	1.25						
UT429	1.85										
UT431	1.85										
UT443	1.85										
UT448	1.85										
UT450	1.85										
UT451	1.85										
UT454	1.85										
Attachable Mallory Midgetrol Switches		1/8" Dia. • Fixed Shaft • Single Tapped Controls		1/8" Dia. • Plug-In Shaft • Single Tapped Controls		Attachable Switches for 1/8" Dia. Controls		1/2" Dia. • Fixed Shaft • Special Application Controls		Universal Dual Controls	
US23	\$0.75	MRT420	\$1.85	TM220	\$1.85	M-23	\$0.75	SRP134	\$1.85	CE	\$3.10
US26	.60	MRT425	1.85	TM221	1.85	M-26	.60	SRP142	1.85	GE	3.10
US26T	.75	MRT426	1.85	TM222	1.85	M-26T	.75	SRP152	1.85	GG	3.10
US27	.75	MRT427	1.85	TM223	1.85			SRP153	1.85	GK	3.10
US28	.75	MRT428	1.85	TM224	1.85			SRP154	1.85	LL	3.10
Midgetrol Accessories		Mallory Page 6		Mallory Page 7				Mallory Page 10			
UE50	\$0.25	MRT431	1.85	TM225	1.85			SRP239		A20MP	
UP10	.20	MRT436	1.85	TM226	1.85			SRP241		A5MP	
Mallory Midgetrols for Special Applications		1/8" Dia. • Fixed Shaft • Special Application • Single Controls		1/8" Dia. • Plug-In Shaft • Single Tapped Controls				SRP245		A10MP	
SU29	\$1.50	SM300	\$2.50	TM227	1.85			SRP251		A5MP	
SU41	1.50	SM301	2.50	TM228	1.85			SRP261		A10MP	
SU50	1.50	SM302	2.50	TM229	1.85			SRP262		A20MP	
SU67	1.50	SM303	1.85	TM230	1.85			SRP263			
		SM304	2.50					SRP269			
		SM305	2.50								
		SM306	2.50								
		SM307	1.85								
		SM308	1.85								

MALLORY CONTROLS AND RESISTORS • LIST PRICES

★ Complete descriptions of these parts will be found on the following pages.

Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price
<i>Mallory Page 11</i>		<i>Mallory Page 13</i>		<i>Mallory Page 14</i>		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>	
Attachable Switches 1½" Dia. Controls		4 Watt • Wire-Wound Potentiometers and Rheostats		Adjustable Mounting Brackets		10 Watt • Fixed Vitreous Enamel Resistors		10HJ7500 to 10HJ10000 \$2.34	
6-9	\$0.60	M1P	\$1.25	RB248	\$0.25	1HJ1 to 1HJ1000	\$0.58	10HJ15000 to 10HJ20000	2.40
6T	.75	M3P	1.25	RB249	.25	1HJ1100 to 1HJ5000	.63	10HJ25000 to 10HJ40000	2.76
7	.75	M6P	1.25	Hexagon Shoulder Nuts		1HJ6000 to 1HJ10000	.72	10HJ50000	2.90
8	.75	M10P	1.25	255	\$0.20	1HJ11000 to 1HJ20000	.80	10HJ75000	3.09
13	.75	M15P	1.25	A11260-12	.25	1HJ22500 to 1HJ50000	.86	10HJ100000	3.26
14	.75	M20P	1.25	A11260-2	.30	200 Watt • Fixed Vitreous Enamel Resistors		80 Watt • Adjustable Vitreous Enamel Resistors	
<i>Mallory Page 12</i>		1 Watt • Carbon • Potentiometers		<i>Mallory Page 15</i>		20 Watt • Fixed Vitreous Enamel Resistors		20HJ25 to 20HJ1000 \$2.79	
B5MP	\$1.25	M100P	1.25	Universal Extension Shafts		2HJ5 to 2HJ1000	\$0.75	20HJ1500 to 20HJ5000	2.84
B10MP	1.25	M200P	1.25	RS242	\$0.40	2HJ1250 to 2HJ5000	.78	20HJ7500 to 20HJ10000	3.04
B25MP	1.25	M400P	1.25	RS243	.40	2HJ12500 to 2HJ20000	.94	20HJ20000	3.22
B50MP	1.25	M600P	1.25	RS244	.40	2HJ25000 to 2HJ40000	1.08	20HJ30000 to 20HJ40000	3.34
B100MP	1.25	M800P	1.25	RS245	.45	2HJ50000	1.25	20HJ50000	3.45
B250MP	1.25	M1000P	1.25	RS246	.45	2HJ6000 to 2HJ10000	.88	20HJ75000	3.63
B500MP	1.25	M15MP	1.65	Web Removing Tool		2HJ12500 to 2HJ20000	.94	20HJ100000	3.84
B1000MP	1.25	M20MP	1.65	201	\$0.25	2HJ25000 to 2HJ40000	1.08	10 Watt • Adjustable Vitreous Enamel Resistors	
T & L Pads Attenuators		7 Watt • Wire-Wound Potentiometers		Universal Flexible Coupling Shafts		50 Watt • Fixed Vitreous Enamel Resistors		1AV1 to 1AV1000 \$1.21	
T6	\$4.25	E5MP	\$3.00	FS250	\$0.75	5HJ10 to 5HJ1000	\$1.43	1AV1250 to 1AV5000	1.28
T8	4.25	E10MP	3.00	FS251	.75	5HJ1500 to 5HJ5000	1.51	1AV6000 to 1AV10000	1.36
T15	4.25	E20MP	3.00	FS252	.75	5HJ7500 to 5HJ10000	1.64	25 Watt • Adjustable Vitreous Enamel Resistors	
T50	4.25	E25MP	3.25	FS253	.75	5HJ12500 to 5HJ20000	1.81	2AV1 to 2AV1000	\$1.59
T200	4.25	E50MP	3.25	Dial Plates for Controls, Rheostats, Potentiometers		5HJ25000 to 5HJ40000	2.01	2AV1250 to 2AV5000	1.61
T250	4.25	E75MP	3.25	369	\$0.25	5HJ50000	2.20	2AV6000 to 2AV10000	1.73
T500	4.25	E100MP	3.25	391	.15	100 Watt • Fixed Vitreous Enamel Resistors		2AV12000 to 2AV20000	1.78
T2000	4.25	E125MP	3.25	393	.25	10HJ25 to 10HJ1000	\$2.12	2AV25000	1.92
L6	3.75	E150MP	3.25	395	.25	10HJ1500 to 10HJ5000	2.17	50 Watt • Adjustable Vitreous Enamel Resistors	
L8	3.75	<i>Mallory Page 14</i>		396	.25	<i>Mallory Page 16</i>		<i>Mallory Page 18</i>	
L15	3.75	Shafts • Couplers • Bushings		397	.25	5-Watt • Fixed Vitreous Enamel Resistors		5AV5 to 5AV1000 \$2.06	
L50	3.75	EC240	\$0.30	398	.25	<i>Mallory Page 17</i>		5AV1500 to 5AV5000	
L200	3.75	EC256	.30	399	.25	100 Watt • Fixed Vitreous Enamel Resistors		20AV50 to 20AV1000 \$3.73	
L250	3.75	EC257	.30	<i>Mallory Page 16</i>		<i>Mallory Page 17</i>		20AV1500 to 20AV5000 3.79	
L500	3.75	EB247	.25	5-Watt • Fixed Vitreous Enamel Resistors		<i>Mallory Page 18</i>		20AV10000 4.01	
L2000	3.75	UB241	.95 for 10	100 Watt • Fixed Vitreous Enamel Resistors		<i>Mallory Page 18</i>		20AV20000 4.21	
2 Watt • Wire-Wound • Potentiometers		Wrench for Volume Control Nuts		HHJ1 to HHJ1000 \$0.53		10HJ25 to 10HJ1000 \$2.12		20AV25000 to 20AV30000 4.29	
C6P	\$1.25	178	\$0.25	HHJ1100 to HHJ5000 .58		10HJ1500 to 10HJ5000 2.17		20AV50000 4.39	
C10P	1.25	<i>Mallory Page 14</i>		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>		20AV75000 4.62	
C15P	1.25	Extra Adjustable Clips		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>		No. 1V \$0.37	
C20P	1.25	No. 3V .37		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>		No. 6V .47	
C30P	1.25	No. 6V .47		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C40P	1.25			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C50P	1.25			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C100P	1.25			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C200P	1.25			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C400P	1.25			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C1MP	1.40			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C3MP	1.40			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C5MP	1.65			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C6MP	1.65			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C10MP	1.65			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C15MP	1.65			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C6R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C10R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C15R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C20R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C30R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C40R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C50R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			
C100R	1.00			<i>Mallory Page 16</i>		<i>Mallory Page 17</i>			

MALLORY CONTROL DEALS



FAST-MOVING SELECTIONS OF MALLORY MIDGETROLS AND MALLORY 1 1/8" CONTROLS

MALLORY MIDGETROL SELECTION

(Order by Catalog Number U-1485)

4 U-48	1 U-55	2 UP-10
3 U-53	1 U-39	5 Extra Spring Clips
2 U-50	1 U-41	5 Extra U Clips
2 U-44	9 US-26	1 Web Removing Tool
1 U-18	4 UE-50	

You Get This Cabinet at no Extra Cost When You Purchase the Controls and Switches at Your Regular Discount

● Treat yourself to a neat, heavy-duty stock cabinet, and simplify your inventory at the same time, with a Mallory Control Deal! Here's how:

You buy a carefully selected assortment of 15 fast-moving controls and 9 popular AC switches *all at your regular price*. Then, you get the handsome steel cabinet shown above *at no extra cost to you!* This cabinet contains 15 compartments for your controls, and a roomy drawer to hold your switches, extension shafts, idler pulleys and other accessories. A special built-in rack holds your Mallory Radio Service Encyclopedia which is purchased separately. And a hinged lid snaps shut to hold the controls in place during service calls.

When you use a Mallory Control Deal you get maximum coverage with minimum stock. In more than 9 out of 10 service jobs you will have *on hand* the control you need. And you can see at a glance which controls you immediately need to re-order.

Best of all—the revolutionary new Mallory Midgetrol is now available in a Mallory Control Deal. And a Mallory Midgetrol improves performance in *any* set where a 1 1/8" control was originally used. With your Mallory Midgetrol Deal you get, in addition to the cabinet, extra spring clips, extra U-clips, extra idler pulleys and extra extension shafts. Get started today with the Mallory Midgetrol. Order your deal today!

MALLORY MR SELECTION

(Order by Catalog Number R-1485)

4 MR-48	1 MR-18	5 M-26
3 MR-53	1 MR-55	3 M-27
2 MR-50	1 MR-39	1 M-28
2 MR-44	1 MR-41	

MALLORY UM SELECTION

(Order by Catalog Number M-1485)

4 UM-154	1 UM-118	2 M-27
3 UM-161	1 UM-163	1 M-28
2 UM-147	1 UM-142	5 SS-25
2 UM-156	3 M-26	1 SS-14
1 UM-140		

You will use your
**MALLORY
CONTROL DEALS**
for all of these
Radio Sets

Admiral
Air King
Airline
Allied
Atwater Kent
Belmont
Brunswick-Mersman
Cadillac

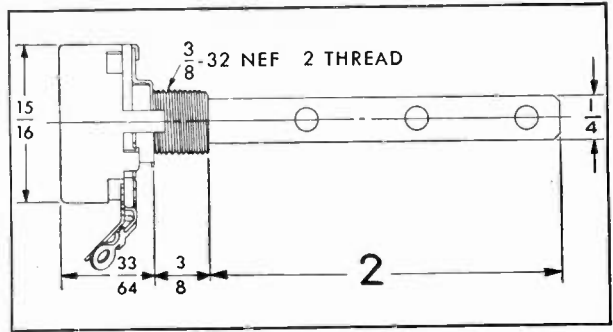
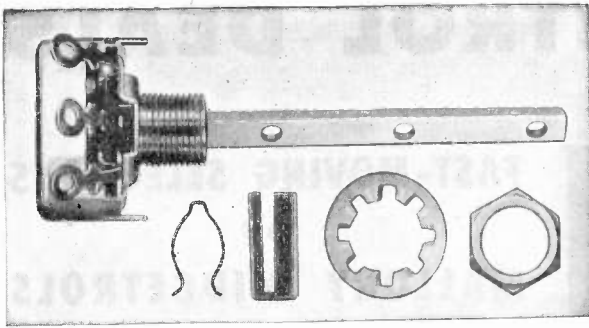
Capehart
Chevrolet
Colonial
Continental
Crosley
Delco
Detrola
Dewald

Emerson
Fada
Fairbanks-Morse
Hallicrafter
Motorola
Patterson
Philco
Pilot

R.C.A.
Scott
Sears-Roebuck
Sentinel
Sonora
Spiegel
Stewart-Warner
Stromberg-Carlson

Traveler
Truetone
United American Bosch
Warwick
Westinghouse
Wilcox-Gay
Zenith
Zephyr

Mallory Page 3 (See Mallory Page 1 for List Prices)



THE MALLORY MIDGETROL

APPLICATION: For volume and tone control in audio circuits. Tapped controls provide tone compensation when required. Special controls are for use as recommended in the Mallory Radio Service Encyclopedia.

DESCRIPTION: A very small diameter control ($15/16$) to service radio sets requiring small parts. Available in full line of resistances, tapers, and taps. Special resistance element gives ample safety factor for current-carrying ability. New type contact makes control smoothest and quietest on market by laboratory tests.

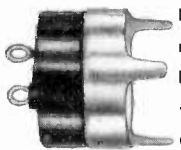
SHAFT DESCRIPTION: New Type flat shaft easily cut to any required length with a pair of side snips. Clips furnished with each control permits its use with all three knob types—Set Screw, Push-On, and Knurled.

ACCESSORIES: One hex nut, one lock washer, one U-clip and one spring steel clip furnished with each control. Idler pulleys, extension shafts and AC switches are available when needed as listed hereon.

PACKAGING: One control plus accessories and complete instructions in each display carton.

Catalog Number	Resistance	Taper*	Tap At
U-12	5M	1	
U-14	5M	4	
U-18	10M	1	
U-19	10M	2	
U-20	10M	4	
U-21	15M	1	
U-22	15M	2	
U-24	20M	1	
U-28	25M	2	
U-29	25M	4	
U-33	50M	1	
U-34	50M	2	
U-35	50M	4	
U-36	75M	1	
U-39	100M	1	
U-40	100M	2	
U-41	100M	4	
U-42	150M	1	
U-43	200M	4	
U-44	250M	1	
U-45	250M	2	
U-46	250M	4	
U-48	500M	1	
U-50	500M	4	
U-51	750M	1	
U-53	1 Meg.	1	
U-54	1 Meg.	4	
U-55	2 Meg.	1	
U-56	2 Meg.	4	
U-57	3 Meg.	1	
U-65	5 Meg.	1	
UT-420	250M		50M
UT-425	350M		70M
UT-427	500M		100M
UT-429	500M		50M
UT-431	500M		225M
UT-443	1 Meg.		450M
UT-450	2 Meg.		125M
UT-448	2 Meg.		250M
UT-454	2 Meg.		400M
UT-451	2 Meg.		900M

Attachable Mallory Midgetrol Switches



Entirely designed and manufactured by Mallory especially for use with Mallory Midgetrols. Can easily and quickly be attached without disassembling control.

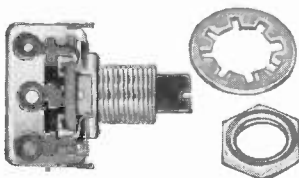
Catalog Number	Description
US-26	Single pole—single throw
US-26T	Single pole—single throw Has dummy terminal
US-27	Double pole—single throw
US-28	Single pole—double throw
US-23	Four pole—single throw, shorting

Accessories

UE-50 Shaft—Extends shaft length on each Mallory Midgetrol an additional 4" with each extension. Two self-tapping screws furnished with each extension.

UP-10 Pulley—Fits over the Mallory Midgetrol flat shaft to permit its use as an idler for the dial cord where necessary.

MALLORY MIDGETROLS FOR SPECIAL APPLICATIONS



● Special Mallory Midgetrols for use as exact replacements. These Midgetrols meet exact physical and electrical requirements for special applications. Except for the shaft, these Midgetrols are of the same basic construction as the standard Midgetrol. A fixed, knurled, and slotted bakelite shaft protrudes $1/4$ " beyond the bushing. The AC switches listed above will fit these Midgetrols.

Cat. No.	Resistance	Taper*
SU-29	25M	4
SU-41	100M	4
SU-50	500M	4
SU-67	5 Meg.	4

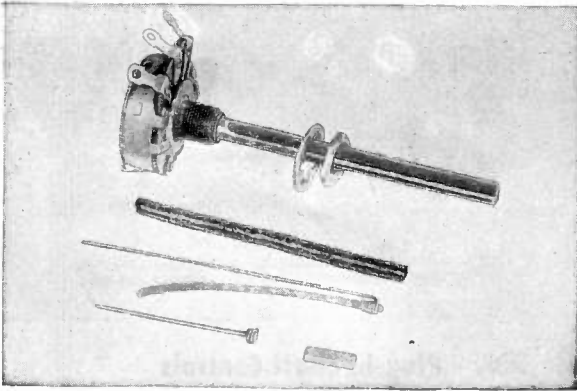
*See taper chart on page 8.

Mallory Page 4 (See Mallory Page 1 for List Prices)

(See Pages R-19 and R-20 for Mallory List Prices)

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MALLORY CARBON CONTROLS



1 1/8" Dia. • Fixed Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1 1/8" carbon control, available in a wide range of resistances and tapers. Has an excellent safety factor in current-carrying capacity. Uses Mallory's special resistance element insuring a long, quiet life.

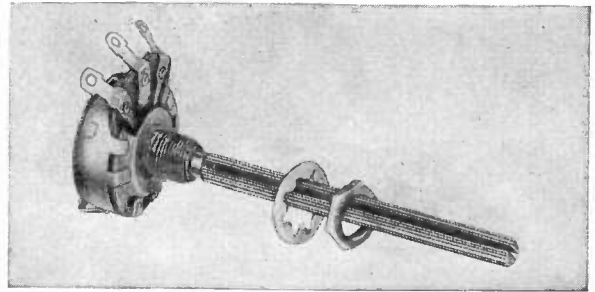
SHAFT DESCRIPTION—An accurately finished channel shaft is permanently attached; measures 3" from lock ring.

ACCESSORIES—One hex nut, one lock washer, and one shim is furnished with each control. An external adjustable resistor is furnished where required, as indicated below. AC switches are available as a special item. (See page 8).

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
MR14	5M	4	MR39	100M	1
MR18	10M	1	MR40	100M	2
MR19	10M	2	MR41	100M	4
MR20	10M	4	MR42	150M	1
MR21	15M	1	MR44	250M	1
MR22	15M	2	MR45	250M	2
MR24	20M	1	MR48	500M	1
MR28	25M	2	MR50	500M	4
MR29	25M	4	MR51	750M	1
MR33	50M	1	MR53	1 Meg.	1
MR34	50M	2	MR55	2 Meg.	1
MR35	50M	4	MR57	3 Meg.	1
MR36	75M	1			
MR37	75M	2			

§External adjustable resistor included



1 1/8" Dia. • Fixed Knurled Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

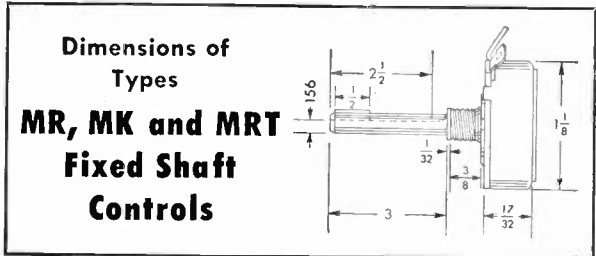
DESCRIPTION—1 1/8" carbon control using same element as type MR.

SHAFT DESCRIPTION—Furnished with a 3" accurately finished, permanently attached knurled shaft for use in replacing original controls of this shaft construction.

ACCESSORIES—One hex nut and one lock washer furnished with each control. AC switches available as a special item. (See page 8).

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper
MK400	250M	1
MK401	500M	1
MK402	1 Meg.	1
MK403	2 Meg.	1



1 1/8" Dia. • Fixed Shaft • Single Tapped Controls

APPLICATION—For control of volume with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with a single tap. Available in a wide range of resistances. Taps are accurately located. Uses Mallory's special resistance element insuring quiet, long life and an excellent safety factor in current-carrying capacity.

SHAFT DESCRIPTION—An accurately finished channel shaft is permanently attached; measures 3" from lock ring.

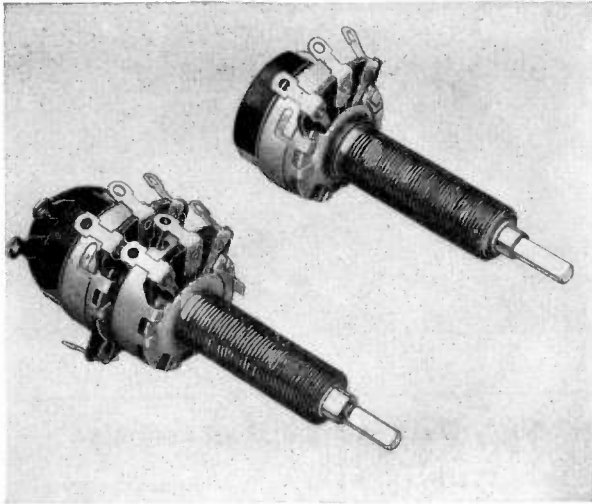
ACCESSORIES—One hex nut, one lock washer and one shim furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance	Catalog Number	Overall Resistance	Tap Resistance
MRT420	250M	50M	MRT460	1 Meg.	500M
MRT425	350M	70M	MRT445	2 Meg.	5M
MRT428	500M	70M	MRT446	2 Meg.	15M
MRT426	500M	5M	MRT447	2 Meg.	60M
MRT427	500M	15M	MRT450	2 Meg.	125M
MRT430	500M	100M	MRT448	2 Meg.	250M
MRT431	500M	150M	MRT454	2 Meg.	400M
MRT436	1 Meg.	125M	MRT449	2 Meg.	600M
MRT440	1 Meg.	200M	MRT451	2 Meg.	900M
MRT438	1 Meg.	300M			
MRT443	1 Meg.	450M			

Mallory Page 5 (See Mallory Page 1 for List Prices)

MALLORY CARBON CONTROLS



1 1/8" Dia. • Fixed Shaft • Special Application • Single & Dual Controls

APPLICATION—Special single and dual controls to be used as recommended in the Mallory Radio Service Encyclopedia.

DESCRIPTION—Type SM are single and type SMD are dual 1 1/8" diameter carbon controls. Both types are made in a wide range of resistances and tapers and with taps for special applications. The controls and their shafts are designed to exactly replace the original equipment control. Switches are provided as indicated.

SHAFT DESCRIPTION—Type SM have fixed shafts while type SMD have fixed concentric shafts. Each shaft varies according to the requirements of the control and its recommended application.

ACCESSORIES—One hex nut and one lock washer furnished with each control.

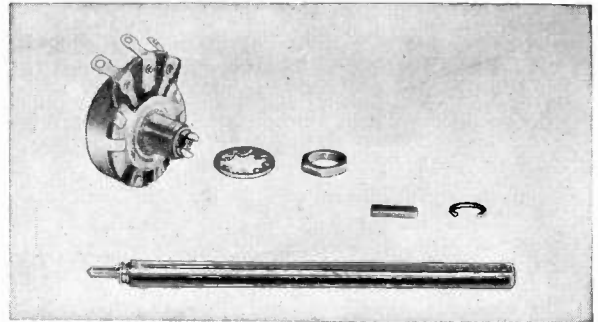
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Tap at
SM300†	350M	75M
SM301†	2 Meg.	500M
SM302†	500M	No Tap
SM303*	6Meg.	No Tap
SM304†	1 Meg.	200M
SM305†	1 Meg.	875M
SM306†	1 Meg.	550M
SM307*	2 Meg.	250M
SM308	1 Meg.	200M
SM309†	2 Meg.	600M
SM310	2 Meg.	125M
SM311†	1 Meg.	300M
SM312†	250M	No Tap
SM313†	250M	No Tap
SM316	350M	35M
SM317†	2.25 Meg.	500M & 1 Meg.

Catalog Number	Res. Front	Res. Rear	Tap At
SMD500†	2 Meg.	2 Meg.	No Tap
SMD501†	2 Meg.	1 Meg.	Front 500M
SMD502†	250M	1 Meg.	Rear 250M
SMD503†	2 Meg.	1 Meg.	Front 500M
SMD504†	250M	500M	Front 50M
SMD505†	250M	1 Meg.	Rear 300M
SMD506†	500M	1 Meg.	Rear 200M
SMD507†	500M	350M	Rear 70M
SMD508†	30M	1 Meg.	Rear 450M
SMD509†	2 Meg.	500M	Front 900M
SMD510†	1 Meg.	500M	Front 300M
SMD511†	1 Meg.	350M	Rear 70M
SMD512†	1 Meg.	350M	Rear 70M

†Includes SPST switch permanently attached to control.

*AC Switch available as special item. (See page 8).



1 1/8" Dia. • Plug-In Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1 1/8" carbon control, available in a wide range of resistances and tapers. Has an excellent safety factor in current-carrying capacity accomplished by the use of Mallory's special resistance element, which also insures a long, quiet life.

SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each UM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one shim, one lock ring, and one SS-1 shaft furnished with each control. An external variable resistance is furnished where required, as indicated below. AC switches available as a special item. (See page 8.)

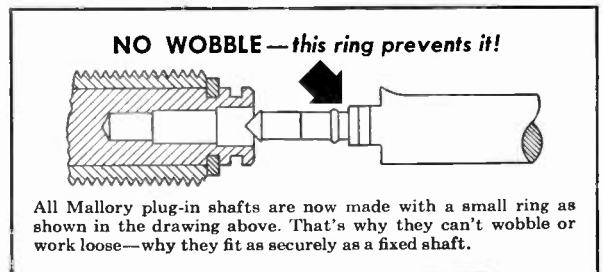
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
UM114	5M	4	UM144	150M	1
UM118	10M	1	UM147	250M	1
UM119	10M	2	UM150*		
UM120	10M	4			
UM121	15M	1	UM149	250M	4
UM122	15M	2	UM151	350M	1
UM124	20M	1	UM154	500M	1
UM128	25M	2	UM157*		
UM129	25M	4			
UM133	50M	1	UM156	500M	4
UM134	50M	2	UM158	750M	1
UM135	50M	4	UM161	1 Meg.	1
UM137	75M	1	UM162*		
UM138	75M	2	UM160	1 Meg.	2
UM140	100M	1	UM159	1 Meg.	4
UM143*			UM181‡	2 Meg.	Spec.
UM141	100M	2	UM163	2 Meg.	1
UM142	100M	4			
UM180‡		Spec.	UM165	3 Meg.	1

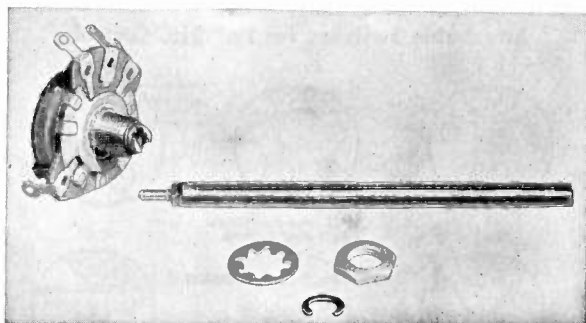
*Clutch type controls—no provision for attachable switch.

‡External adjustable resistor included.

‡Right hand switch action.



MALLORY CARBON CONTROLS



1 1/8" Dia. • Plug-In Shaft • Single Tapped Controls

APPLICATION—For use as a volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with a single tap. Available in a wide range of resistances. Taps are accurately located. Uses Mallory's special resistance element insuring quiet, long life and an excellent safety factor in current-carrying capacity.

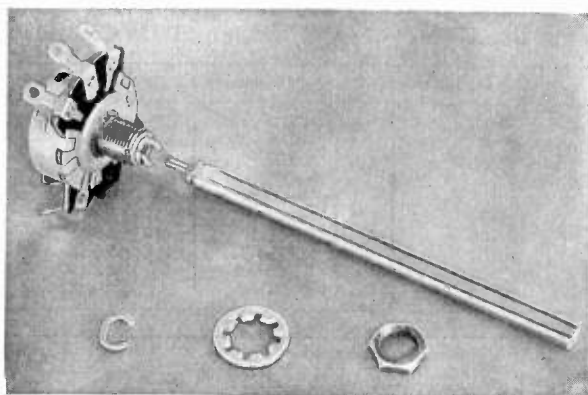
SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each TM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one lock ring, one shim, and one SS-1 shaft furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance
TM220	250M	50M
TM221	250M	110M
TM222*		
TM225	350M	70M
TM223*		
TM228	500M	5M
TM226	500M	15M
TM233	500M	60M
TM224*	500M	100M
TM227		
TM230	500M	150M
TM231	500M	225M
TM232*		
TM234	1 Meg.	65M
TM236	1 Meg.	125M
TM240	1 Meg.	200M
TM241*		
TM238	1 Meg.	300M
TM239*		
TM242*	1 Meg.	450M
TM243		
TM244	1.5 Meg.	200M
TM245	2 Meg.	5M
TM246	2 Meg.	15M
TM247	2 Meg.	60M
TM250	2 Meg.	125M
TM248	2 Meg.	250M
TM254	2 Meg.	400M
TM249	2 Meg.	600M
TM251	2 Meg.	900M
TM252*		
TM259	2 Meg.	1 Meg.
TM257	3 Meg.	900M
TM261	5 Meg.	1 Meg.

*Clutch type controls—no provision for attachable switch.



1 1/8" Dia. • Plug-In Shaft • Double Tapped Controls

APPLICATION—For use as a volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with double taps. The basic resistance element of this control is the same as the element in MR controls. Taps are accurately spaced.

SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each DTM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one lock ring, one SS-1 shaft, and one shim furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance	
		Tap 1	Tap 2
DTM282	250M	50M	100M
DTM283	500M	100M	200M
DTM287	1 Meg.	50M	100M
DTM289	1 Meg.	250M	500M
DTM291	1.5 Meg.	225M	500M
DTM293	2 Meg.	5M	500M
DTM295	2.25 Meg.	225M	500M
DTM296	2.25 Meg.	500M	1 Meg.
DTM298	3 Meg.	100M	1.5 Meg.

SPECIAL! MALLORY LITERATURE DEAL

See Mallory Literature Page
for full information.

MALLORY PLUG-IN SHAFTS • ATTACHABLE SWITCHES

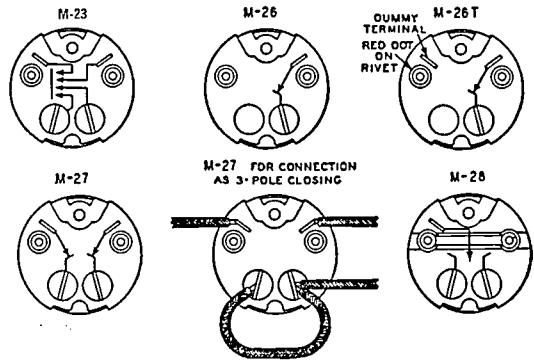
Universal and Special Plug-In Shafts
for Use with Types UM, TM, and DTM Controls

Catalog Number	Catalog Number	Catalog Number
SS1	SS15	SS25
SS2	SS16	SS26
SS3	SS17	SS27
SS4	SS18	SS28
SS5	SS19	SS29
SS6	SS20	SS30
SS10	SS21	SS31
SS11	SS22	SS32
SS12	SS23	SS33
SS14	SS24	SS34

SS 1 •• EXACTLY REPLACES ANY 1/4" ROUND SHAFT OR 1/32 OR 3/32 FLATTED SHAFT UP TO 4" LONG	SS 2 •• RCA UMS AND ANY 3/16" DIAMETER SHAFT UP TO 4" LONG
SS 3 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT UP TO 2" LONG	
SS 4 •• RCA - PART NUMBERS I224D, I236S, ETC.	SS 5 •• PHILCO 36, 37, 38 HOUSEHOLD RECEIVERS
SS 10 •• MOTOROLA-6D, 6D, 36 GOLDEN VOICE, ETC.	SS 6 •• RCA-HUDSON H6, ETC.
SS 11 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT 2" TO 4" LONG	
SS 12 •• PHILCO, UMS ARVIN	SS 14 ••
SS 15 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT 4" TO 6" LONG	
SS 16 •• EXACT FOR SENTINEL, CUT TO LENGTH FOR RCA AND OTHERS	
SS 17 •• EXACTLY REPLACES ANY SLOTTED "INSACUP" SHAFT UP TO 6" LONG	
SS 18 •• BELMONT, STEWART-WARNER, ETC.	SS 19 •• ALL 1937-38 MOTOROLAS
SS 20 •• MOTOROLA MODEL 16C	SS 21 •• MOTOROLA MODEL 17D
SS 22 •• MOTOROLA AND MANY OTHERS	SS 23 •• UNITED AMERICAN BOSC MODELS 159, 149, 169
SS 24 •• CHEVROLET MODEL 985425	SS 25 •• EXACTLY REPLACES STANDARD KNURLED SHAFTS FROM 3/4" TO 4" LONG
SS 26 •• ZENITH	SS 27 •• PHILCO
SS 29 •• MOTOROLA	SS 28 •• MOTOROLA
SS 30 •• MOTOROLA	SS 31 •• PHILCO
SS 32 •• PHILCO	SS 33 •• ZENITH
SS 34 •• ZENITH	

KEY TO SHAFT CHART—*These Plug-In Shafts are designed as exact replacements for applications requiring a given predetermined length with special coupling slots or tongue or an insulated coupler. None of these require any cutting or special adjustment. **These Plug-In Shafts are of universal length and designed for many applications.

Attachable Switches for 1 1/8" Dia. Controls



For Use With MR, MK, UM, TM, MRT, DTM Controls

Catalog Number	Circuit Arrangement
M-26	Single-Pole—Single-Throw
*M-26T	Single-Pole—Single-Throw
M-27	Double-Pole—Single-Throw
M-28	Single-Pole—Double-Throw
M-23	Four-Pole—Single-Throw, Shorting

*Has dummy terminal identified by red dot.

Explanation of Mallory Tapers

● Taper Number 1 is a modified logarithmic left hand taper in the carbon type of control and an approximation to this logarithmic taper in the wire-wound type. This taper should always be used in shunt circuits, as in usual antenna and audio circuits, or where only the center and left hand terminals are used.

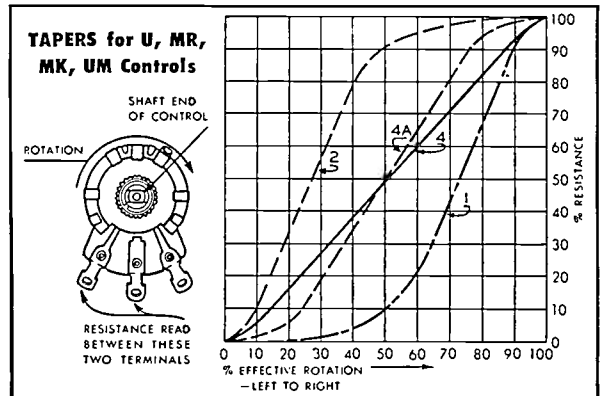
Taper Number 2 is a right hand logarithmic taper in the carbon and an approximation in the wire-wound type. Used in series circuits, as in cathode voltage controls, or where only the center and right hand terminals are used.

Taper Number 3 is a combination left and right hand taper. Has a limited use in circuits where the control must perform both as a shunt and as a series circuit control as in combination antenna shunt plus bias circuits. This is the most common use for such a taper.

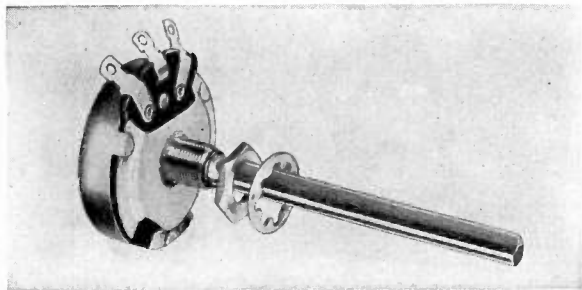
Taper Number 4 is a linear taper. Strictly speaking it is not a "taper" although commonly referred to as such. A linear "taper" is used wherever a control should be such that voltage change is proportional to the degree of rotation.

Taper Number 4A is a modification of the regular linear taper Number 4.

Taper Number 7 is made only in the wire-wound type of control and is a form of left hand taper. This taper is desirable for the antenna shunt plus bias control, wherein greater attenuation is obtained by increasing the bias voltage. The slight left taper then suffices to gradually reduce the signal to zero volume by the shunting action in the antenna circuit.



MALLORY STANDARD CARBON CONTROLS



1 1/2" Dia. • Fixed Shaft • Carbon Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1 1/2" carbon control made available in a range of resistances and tapers to satisfactorily cover the field. Mallory's exclusive element curing process is used in the manufacture of these controls, as well as in the 1 1/8" dia. line.

SHAFT DESCRIPTION—A fixed channel or slotted shaft is provided, measuring 3" from lock ring, except as indicated below.

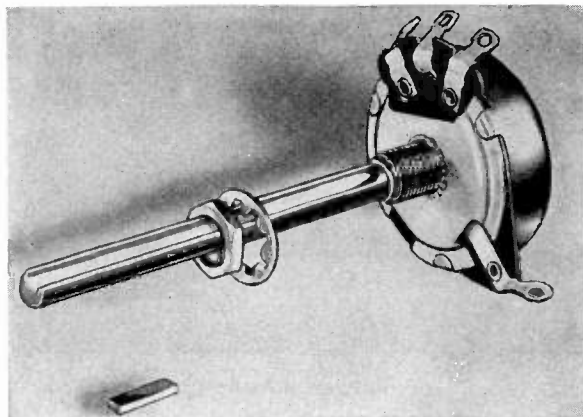
ACCESSORIES—One hex nut, one lock washer, and one shim furnished with each control. An external adjustable resistor is furnished where required, as indicated below. AC Switch available as special item. (See page 11.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
Y5MP	5M	4	Y200MP	200M	4
F12§	7500	1	M	250M	1
UC501§	10M	2	UC511†	250M	2
Y10MP	10M	4	UC509§	250M	2
H12§	15M	1	Y250MP	250M	4
Y§	20M	1	UC503	750M	1
J§	25M	2	UC514†	1 Meg.	1
Y25MP	25M	4	UC504	3 Meg.	1
K12	50M	1	UC505	4 Meg.	1
K§	50M	2	UC506	5 Meg.	1
Z12	75M	1	UC507	5 Meg.	2
Z§	75M	2	UC508	9 Meg.	1
UC510§	100M	2			
UC502	150M	1			

§External adjustable resistor included.

†Has slotted shaft for automobile receivers.



1 1/2" Dia. • Fixed Shaft • Single & Double Tapped Controls

APPLICATION—For volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/2" carbon controls made available in a wide range of resistances, single and double tapped as indicated.

SHAFT DESCRIPTION—An accurately finished shaft is permanently attached, measuring 3" from lock ring.

ACCESSORIES—One hex nut, one lock washer, and one shim furnished with each control. AC switches available as a special item. (See page 11.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Single Tapped

Catalog Number	Overall Resistance	Tap Resistance	Catalog Number	Overall Resistance	Tap Resistance
TRP601	40M	8M	TRP610	1 Meg.	30M
TRP602	60M	4M	TRP608	1 Meg.	200M
TRP617	60M	12M	TRP609††	1 Meg.	500M
TRP623	250M	50M	TRP612	2 Meg.	15M
TRP603	250M	110M	TRP618	2 Meg.	250M
TRP604	350M	20M	TRP613	2 Meg.	400M
TRP605	350M	70M	TRP620	2 Meg.	900M
TRP614†			TRP615	3 Meg.	900M
TRP616	500M	60M			
TRP606	500M	100M			
TRP607	500M	225M			

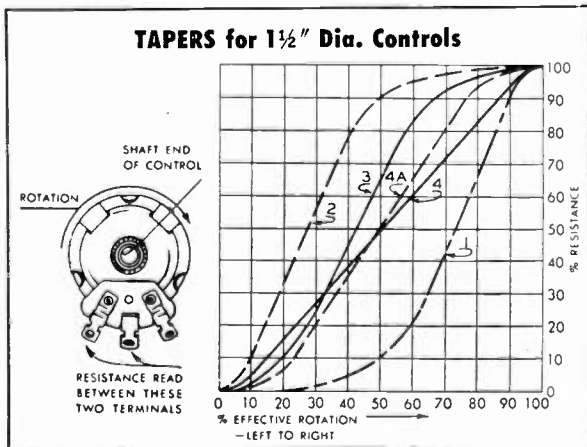
†Has slotted shaft for automobile receivers.

††Special taper for fader service.

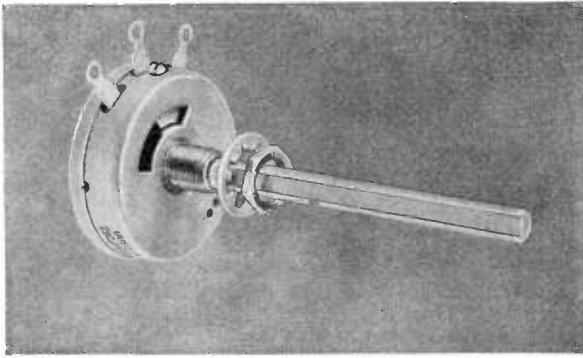
Double Tapped

Catalog Number	Overall Resistances	Tap Resistance	
		Tap 1	Tap 2
TRP622	44M	7M	14M
TRP621†	2.25 Meg.	250M	500M
TRP624			

†No provision for switch.



MALLORY SPECIAL CARBON AND WIRE-WOUND CONTROLS



(SRP262 Illustrated)

1½" Dia. · Fixed Shaft · Special Application Controls

APPLICATION—For special applications, as recommended in Mallory Radio Service Encyclopedia.

DESCRIPTION—1½" carbon or wire-wound controls, as indicated, available in a variety of resistances and constructions to meet the special requirements necessary in replacement, as recommended in Mallory Radio Service Encyclopedia.

SHAFT DESCRIPTION—A special shaft is permanently attached. It is machined to the exact dimensions necessary to meet replacement requirements.

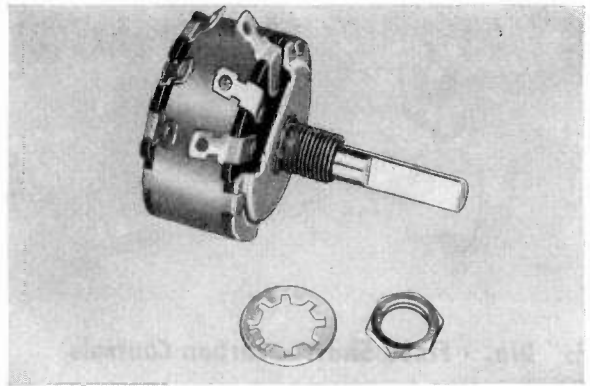
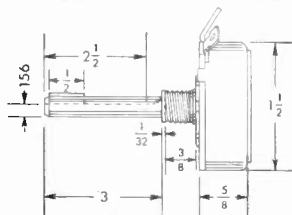
ACCESSORIES—One hex nut, and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Type Element
SRP134	4500	W. W.
SRP142	2900	W. W.
SRP152	60	W. W.
SRP153	13M	W. W.
SRP154	50M	Carbon
SRP179	125M	Carbon
SRP185	1500	Carbon
SRP188	32M	Carbon
SRP213	250M	Carbon
SRP239	450	W. W. Strip
SRP241	6M	W. W. Strip
SRP245	32M	Carbon
SRP251	350M	Carbon
SRP261	100M	Carbon
SRP262	1500	W. W.
SRP263	32M	Carbon
SRP269	10M	Carbon
SRP282	350M	Carbon
SRP286	250M	Carbon
SRP289	50M	Carbon
SRP290	1 Meg.	Carbon
SRP900	20M	Carbon
SRP901	10M	Carbon
SRP960	800	W. W.
SRP961	10M	Carbon

†Right hand switch action.

Drawing Showing Dimensions of 1½" Dia. Carbon Controls



Special Dual Controls

APPLICATION—For special applications, as recommended in Mallory's Radio Service Encyclopedia.

DESCRIPTION—Special controls of wire-wound and/or carbon construction available in a range of resistances and types as required by recommendations of Mallory Radio Service Encyclopedia. They are designed to provide exact physical and electrical characteristics of the original control.

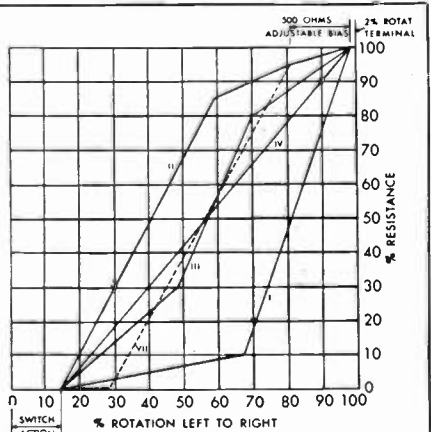
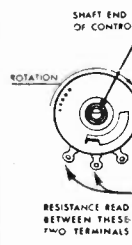
ACCESSORIES—One hex nut and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

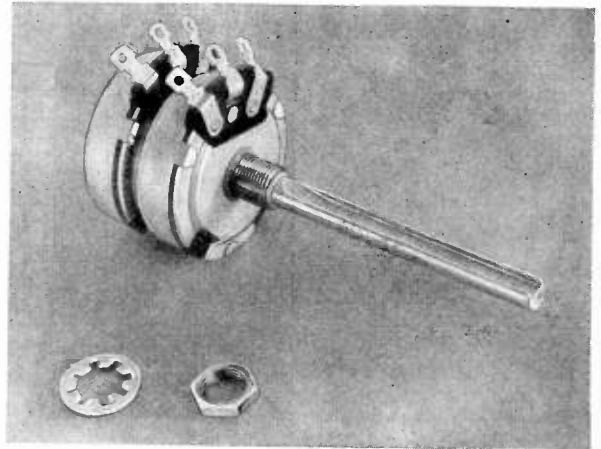
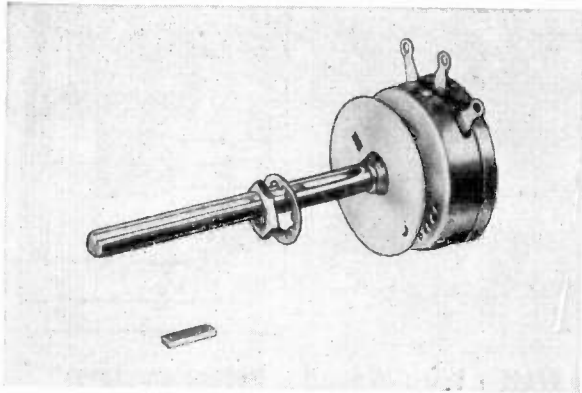
Catalog Number	Ohms Resistance		Type Element	
	Front	Rear	Front	Rear
DRP114	250	5M	W. W.	W. W.
DRP115	3800	3800	Carbon	Carbon
DRP116	25700	10000	W. W.	W. W.
DRP117	500	2500	W. W.	W. W.
DRP119	3M	10M	W. W.	W. W.
DRP122	645	10M	W. W.	W. W.
DRP169	7500	10M	W. W.	W. W.
DRP221	10M	100M	Carbon	Carbon
DRP222	75M	32M	Carbon	Carbon
DRP240	250M	10M	Carbon	Carbon
DRP244	25M	6M	Carbon	Carbon
DRP250	50M	1M	Carbon	Carbon
DRP302	100M	250M	Carbon	Carbon
DRP304	1 Meg.	3 Meg.	Carbon	Carbon
DRP306*	5M	10M	W. W.	Carbon
DRP311	150M	250M tapped 160M	Carbon	Carbon
DRP318	250M	3 Meg.	Carbon	Carbon

*Includes Switch.

Tapers on Wire-Wound Controls



MALLORY WIRE-WOUND CONTROLS • 1½" ATTACHABLE SWITCHES



1½" Dia. • Fixed Shaft • Wire-Wound Controls

APPLICATION—Used as bias controls and voltage dividers in bridge circuits and test instruments.

DESCRIPTION—Rugged resistance strip and contactor assemblies are completely enclosed in a dust-proof case. Will carry 4 watts of power.

SHAFT DESCRIPTION—Furnished with a fixed channel-type shaft, measuring 3" from lock ring.

ACCESSORIES—Mallory Dial Plate No. 396 is available for use with these controls. One hex washer, one lock washer, and one shim furnished with each control. An external variable resistor is furnished where required, as indicated below. Has adjustable stop plate for bias feature, as indicated below. AC switches available as a special item. (See this page.)

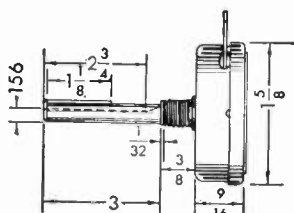
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
Q	2	4	D12 §	3000	1
R	6	4	D §	3000	2
S	10	4	A3MP §	3000	4
T	20	4	D7 §	3000	7
U	30	4	A4MP §	4000	4
V	60	4	E §	5000	2
W	100	4	A5MP §	5000	4
X	200	4	E7 §	5000	7
A400P	400	4	F §	7500	2
A	500	1	F7 §	7500	7
A550P	550	4	G §	10000	2
B	1000	1	A10MP §	10000	4
UC500	1000	2	G7 §	10000	7
A1MP	1000	4	H §	15000	2
C12 §	2000	1	H7 §	15000	7
C §	2000	2	A20MP §	20000	4
A2MP §	2000	4			

§Have exclusive Mallory adjustable bias feature, providing 500 ohms in 100 ohm steps in all values over 1,000 ohms.

Dimensions— 1½" Dia. Wire-Wound Controls

NOTE: Controls having taper numbers 1, 2 and 7 are intended primarily for replacement in radio receivers. Be sure to check the taper curve and its effect (see chart on page 31) before ordering for other uses.



(Type LL Illustrated)

Universal Dual Controls

APPLICATION—See "General Use" column below.

DESCRIPTION—Consists of two 1½" Dia. wire-wound or carbon controls driven by a single shaft.

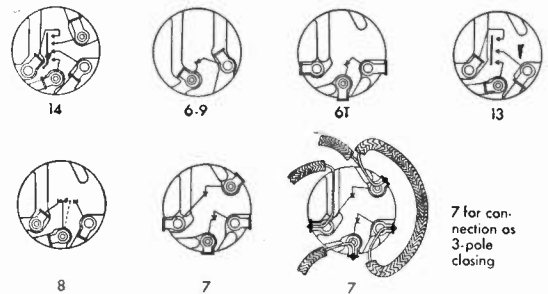
SHAFT DESCRIPTION—Furnished with fixed channel shaft; measuring 2½" from lock ring.

ACCESSORIES—One hex nut and one lock washer furnished with each control. AC switches available as a special item. (See this page.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Cat. No.	Ohms Resistance		Taper		Type Element		General Use
	Front	Rear	Front	Rear	Front	Rear	
CE	2M	5M	I	I	W. W.	W. W.	Ant. Shunt and Bias
GE	10M	5M	VII	IV	W. W.	W. W.	Ant. Shunt Bias or Screen
GG	10M	10M	VII	IV	W. W.	W. W.	Ant. Shunt Bias or Screen
GK	10M	50M	I	IV	Carbon	Carbon	Ant. Shunt Bias or Screen
LL	100M	100M	I	I	Carbon	Carbon	Audio Shunt in Push Pull
LM	100M	250M	I	I	Carbon	Carbon	Audio Shunt, Tone, Screen or RF Shunt
MM	250M	250M	I	I	Carbon	Carbon	Audio Shunt in Push Pull

Attachable Switches (1½" Dia. Controls)

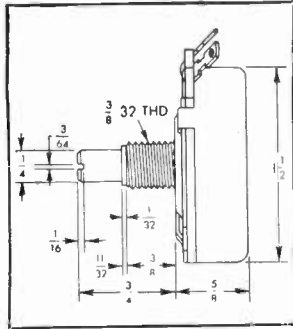
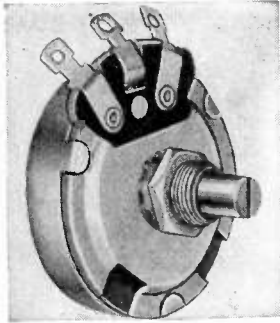


For use with standard Universal Controls, Carbon and Wire-Wound types, TRP Tapped Controls, and Universal Dual Controls.

- Cat. No. 6-9—Single-Pole—Single-Throw
- *6T—Single-Pole—Single-Throw
- 7—Double-Pole—Single-Throw
- 8—Single-Pole—Double-Throw
- 13—Three-Pole—Single-Throw Shorting
- 14—Four-Pole—Single-Throw Shorting

*Has dummy terminal identified by copper rivet.

MALLORY VARIABLE POTENTIOMETERS • T & L PADS



1 Watt • Carbon • Potentiometers

APPLICATION—For use in test and other instruments, and special applications.

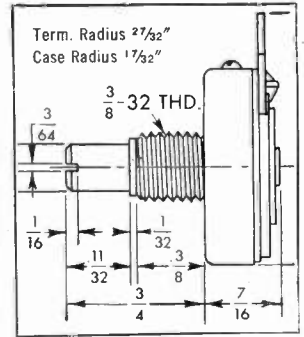
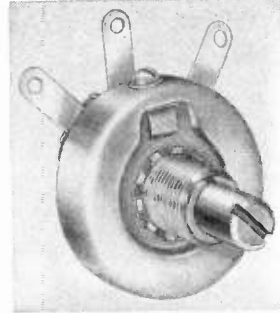
DESCRIPTION—1½" heavy-duty carbon-type control with a nominal one-watt rating. No. 4 linear taper.

SHAFT DESCRIPTION—A short shaft is provided with a milled screw-driver slot for easy and quick adjustment. Shaft will also take standard knobs.

ACCESSORIES—One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance
B5MP	5,000
B10MP	10,000
B25MP	25,000
B50MP	50,000
B100MP	100,000
B250MP	250,000
B500MP	500,000
B1000MP	1 Meg.



2 Watt • Wire-Wound • Potentiometers

APPLICATION—For use in test and special instruments, bias control and bridge circuits, etc.

DESCRIPTION—1½" diameter small resistor that will dissipate 2 watts over the entire element for continuous operation. No. 4 linear taper. Contact arm is grounded. Total rotation 284°; effective electrical rotation 266°.

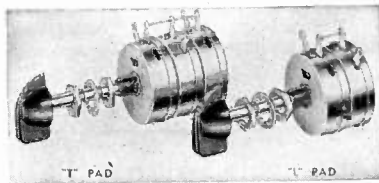
SHAFT DESCRIPTION—A short shaft with a milled screw-driver slot is provided for quick and easy adjustment. Shaft will also take standard knobs.

ACCESSORIES—Dial Plate No. 393 is available for use with these controls. One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Potentiometer Catalog Number	Rheostat* Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
C6P	C6R	6	.58
C10P	C10R	10	.45
C15P	C15R	15	.37
C20P	C20R	20	.32
C30P	C30R	30	.26
C40P	C40R	40	.22
C50P	C50R	50	.2
C100P	C100R	100	.14
C200P		200	.1
C400P		400	.07
C1MP		1M	.045
C3MP		3M	.025
C5MP		5M	.02
C6MP		6M	.018
C10MP		10M	.014
C15MP		15M	.011

T and L Pad Attenuators



APPLICATION—For controlling the level of low impedance audio circuits and for volume control of microphones, talking picture amplifiers, and many varied sound amplifying and audio distribution systems.

DESCRIPTION—A high quality "T" and "L" pad that may be used with audio amplifiers having a peak audio rating of 15 watts. These attenuators have a continuous DC dissipation rating of 4 watts in any position. Bushing ⅜" Dia. by ⅜" long.

SHAFT DESCRIPTION—2" long shaft, grooved at popular lengths for easy cutting.

ACCESSORIES—No. 366 Bar Knob, No. 395 Dial Plate with matched rotation, one nut and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

"T" Pad Attenuators Catalog Number	"L" Pad Attenuators Catalog Number	Ohms Impedance
T6	L6	6
T8	L8	8
T15	L15	15
T50	L50	50
T200	L200	200
T250	L250	250
T500	L500	500
T2000	L2000	2000

*"Open" or "off" position counter-clockwise.

ASK YOUR DISTRIBUTOR ABOUT . . .

"GOOD SERVICE FOR GOOD BUSINESS"

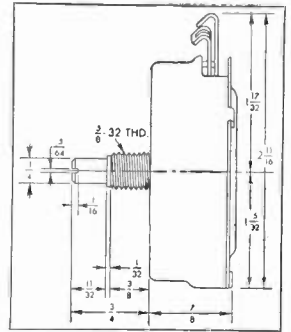
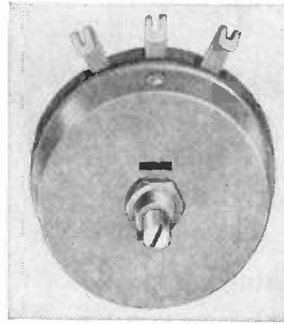
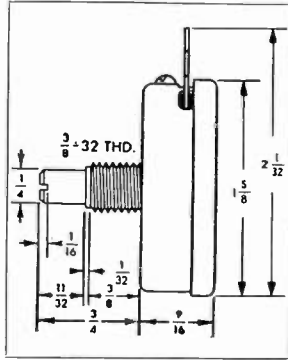
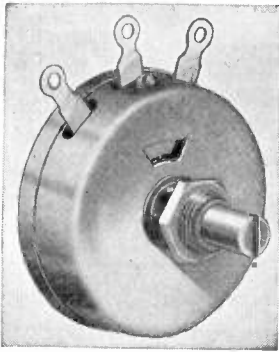
The Mallory Business-Building Plan

that effectively helps you get

new customers and hold

the ones you have!

MALLORY WIRE-WOUND POTENTIOMETERS



4 Watt · Wire-Wound Potentiometers and Rheostats

APPLICATION—Used on bias controls and voltage dividers in bridge circuits and test instruments.

DESCRIPTION—Precision wire-wound potentiometers and rheostats with a 4-watt rating for use in instruments where reliability is paramount. Rugged construction. Rheostats feature “off” position (no connection) type of construction, saving the cost of a switch. Furnished with insulated contact arm. Potentiometers have three terminals. Rheostats have two terminals. Total rotation 294°; effective electrical rotation 279°. No. 4 Linear Taper.

SHAFT DESCRIPTION—A short shaft is provided with a slot for easy screw-driver adjustment. Shafts will take standard knobs.

ACCESSORIES—No. 395 Dial Plate is available for use with these controls. One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

7 Watt · Wire-Wound Potentiometers

APPLICATION—Suitable for precision instruments such as resistance bridges and where a control of medium currents or voltages is required.

DESCRIPTION—Supplied with grounded contact arm. 310° total rotation; 299° effective electrical rotation. Will dissipate 7 watts. No. 4 linear taper.

SHAFT DESCRIPTION—A short shaft with a milled screw-driver slot is provided for easy adjustment. Shafts will also take standard knobs.

ACCESSORIES—No. 399 Dial Plate is available for use with these controls. One hex nut is furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Potentiometer Catalog Number	Rheostat* Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
M1P	M05R	1/2	2.80
	M1R	1	2.00
	M2R	2	1.4
M3P	M3R	3	1.15
	M4R	4	1.00
M6P	M6R	6	.82
M10P	M10R	10	.63
M15P	M15R	15	.52
M20P	M20R	20	.45
M25P	M25R	25	.40
M30P	M30R	30	.37
M40P	M40R	40	.32
M50P	M50R	50	.28
M60P	M60R	60	.26
M75P	M75R	75	.23
M100P	M100R	100	.20
M200P		200	.14
M400P		400	.10
M500P		500	.09
M600P		600	.082
M1MP		1M	.063
M2MP		2M	.045
M3MP		3M	.037
M4MP		4M	.032
M5MP		5M	.028
M10MP		10M	.020
M15MP		15M	.016
M20MP		20M	.014
M25MP		25M	.013
M50MP		50M	.009
M70MP		70M	.0075

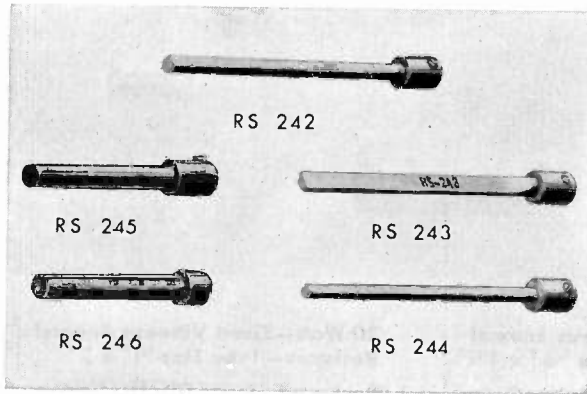
*“Open” or “Off” position counter-clockwise.

Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
E5MP	5M	.042
E10MP	10M	.03
E20MP	20M	.021
E25MP	25M	.019
E50MP	50M	.0135
E75MP	75M	.011
E100MP	100M	.0095
E125MP	125M	.0085
E150MP	150M	.0078

MALLORY TECHNICAL MANUAL

● This simply written, practical book bridges the gap between radio theory and practice. Designed for the radio serviceman, engineer, amateur or experimenter who wants the latest technical information . . . presented so that he can easily apply it to everyday problems. Contains page after page of information profusely illustrated. It's worth far more than its price.

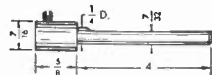
MALLORY CONTROL HARDWARE



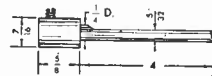
Universal Extension Shafts

Cat. No.	Description
RS242*	4" long x 1/4" dia. x 1/32" flat
RS243*	4" long x 1/4" dia. x 3/32" flat
RS244*	4" long x 3/16" dia. x 1/64" flat
RS245*	2" long x 1/4" dia. with 3/32" slot
RS246*	2" long x 1/4" wide x 3/32" thick

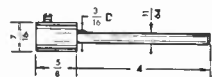
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No. RS 242

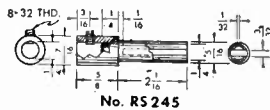


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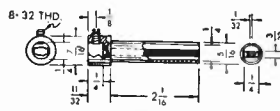


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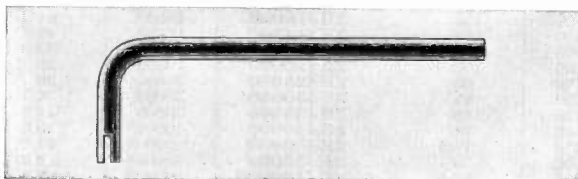
SHAFT DIMENSIONS



No. RS 245

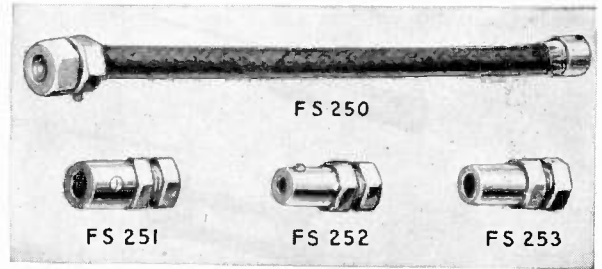


No. RS 246



Web Removing Tool

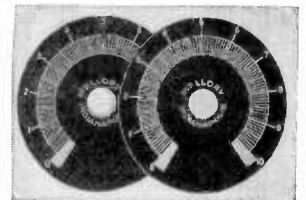
Cat. No.	Description
201	Special tool for removing web from web type knobs to adapt them for use with the Mallory Midgetrol.



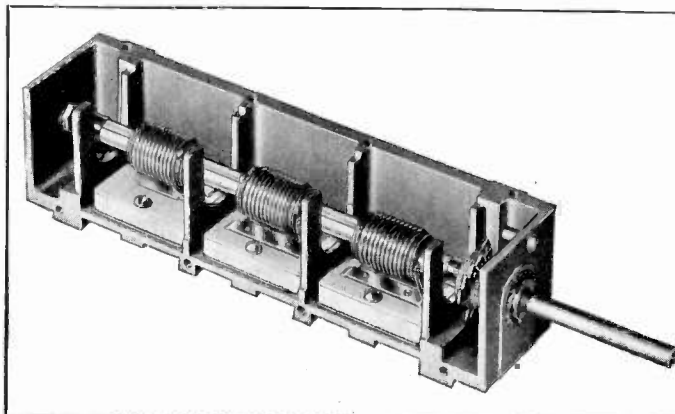
Universal Flexible Coupling Shafts

Cat. No.	Description
FS250	For Universal replacement of all flexible wire shafts, coupling to 1/4" solid shafts.
FS251	Shaft Coupling has 7/32" hole, 1/2" deep, with transverse pin, and is for use (with the correct Mallory control) as a replacement for Philco Models 805, 806, 808, 809 and PHD and PHXD, Studebaker AC266, Pierce-Arrow MT-3, Reo RT-3, etc.
FS252	Shaft Coupling has 5/32" hole, approximately 1/2" deep, and has 2 set screws opposite each other. It is used as a replacement for Philco Model D, Nash AC-989 (Code 122).
FS253	Shaft Coupling has 1/4" dia. hole, 1/2" deep, equipped with 2 screws at 90 degrees. This is to be used with the correct Mallory Control as a replacement for Chevrolet No. 364441.

Dial Plates For Controls, Rheostats and Potentiometers



Cat. No.	Marking	For Type of Control	Dia.
369	0 to 100	All Rheostats and Potentiometers (compromise scale)	2 1/4"
391	Increase Volume	All Rheostats and Potentiometers	1 1/2"
393	0 to 10	For "C" Type Rheostats and Potentiometers	2 1/4"
395	0 to 10	For Standard Wire-Wound Controls with plain cover; also "M" Type Rheostats and Potentiometers	2 1/4"
396	0 to 10	For Standard Wire-Wound Controls with switch type cover.	2 1/4"
397	0 to 10	For Standard Carbon Controls with plain cover	2 1/4"
398	0 to 10	For Standard Carbon Controls with switch type cover.	2 1/4"
399	0 to 10	For "E" Type Potentiometers.	2 1/4"

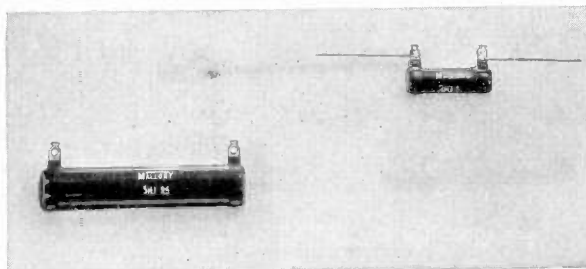
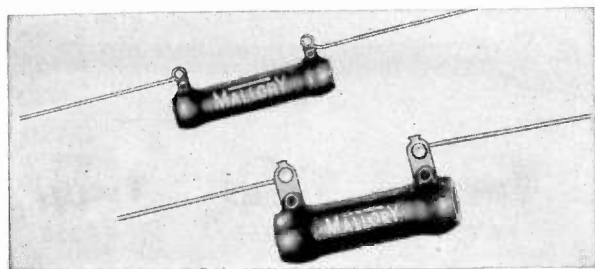


THE MALLORY INDUCTUNER*

A continuously and infinitely variable inductance unit that supplies the need for a method of tuning the wide range of frequencies covered by the television-FM band. Provides unequalled simplicity, performance, and stability in service. For more complete information turn to Page 9, Mallory Special Components, of this catalog.

Inductuner*—Registered trade mark for Mallory variable inductance tuning devices. Manufactured and sold under one or more of the following Paul Ware and Mallory patents: 2,163,644, 2,163,645, 2,163,646, 2,163,647, 2,260,877, 2,377,789, 2,377,790. Other patents applied for.

MALLORY FIXED RESISTORS



5 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{5}{16}$ " x 1"

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
HHJ1	1	2230
HHJ1.5	1.5	1820
HHJ2	2	1580
HHJ3	3	1290
HHJ4	4	1117
HHJ5	5	1000
HHJ7.5	7.5	811
HHJ10	10	707
HHJ12	12	644
HHJ15	15	577
HHJ20	20	500
HHJ25	25	450
HHJ30	30	408
HHJ35	35	378
HHJ40	40	353
HHJ50	50	316
HHJ75	75	257
HHJ100	100	223
HHJ125	125	200
HHJ150	150	182
HHJ200	200	158
HHJ250	250	141
HHJ300	300	129
HHJ350	350	119
HHJ400	400	112
HHJ450	450	105
HHJ500	500	100
HHJ600	600	91
HHJ700	700	84
HHJ750	750	81
HHJ800	800	79
HHJ900	900	74
HHJ1000	1000	70
HHJ1100	1100	67
HHJ1200	1200	64
HHJ1250	1250	63
HHJ1500	1500	57
HHJ1750	1750	53
HHJ2000	2000	50
HHJ2250	2250	47
HHJ2500	2500	45
HHJ3000	3000	40
HHJ3500	3500	37
HHJ4000	4000	35
HHJ4500	4500	33
HHJ5000	5000	31

10 Watt Fixed Vitreous Enamel Resistors—Tube Size $\frac{5}{16}$ " x $1\frac{3}{4}$ "

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
1HJ1	1	3150
1HJ2	2	2200
1HJ3	3	1800
1HJ4	4	1580
1HJ5	5	1400
1HJ7.5	7.5	1150
1HJ10	10	1000
1HJ12	12	910
1HJ15	15	812
1HJ20	20	707
1HJ25	25	630
1HJ30	30	575
1HJ35	35	530
1HJ40	40	500
1HJ50	50	447
1HJ75	75	360
1HJ100	100	315
1HJ125	125	280
1HJ150	150	260
1HJ200	200	220
1HJ225	225	210
1HJ250	250	200
1HJ300	300	180
1HJ350	350	170
1HJ400	400	158
1HJ450	450	150
1HJ500	500	141
1HJ600	600	130
1HJ700	700	120
1HJ750	750	115
1HJ800	800	112
1HJ900	900	105
1HJ1000	1000	100
1HJ1100	1100	95
1HJ1200	1200	91
1HJ1250	1250	89
1HJ1500	1500	81
1HJ1750	1750	75.5
1HJ2000	2000	70
1HJ2250	2250	66.5
1HJ2500	2500	63
1HJ3000	3000	56
1HJ3500	3500	53
1HJ4000	4000	50
1HJ4500	4500	47
1HJ5000	5000	45
1HJ6000	6000	40
1HJ7000	7000	38
1HJ7500	7500	36
1HJ8000	8000	35
1HJ8500	8500	34
1HJ10000	10000	31.6
1HJ11000	11000	30
1HJ12000	12000	29
1HJ12500	12500	28
1HJ13500	13500	26
1HJ14300	14300	24.5
1HJ15000	15000	23
1HJ16000	16000	22
1HJ17500	17500	20
1HJ18000	18000	19.5
1HJ20000	20000	17.5
1HJ22500	22500	15.5
1HJ25000	25000	14
1HJ30000	30000*	11.5
1HJ35000	35000*	10.5
1HJ40000	40000*	10
1HJ45000	45000*	9.5
1HJ50000	50000*	9

20 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{1}{2}$ " x 2"

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
2HJ5	5	2000
2HJ10	10	1415
2HJ15	15	1153
2HJ25	25	895
2HJ50	50	633
2HJ75	75	517
2HJ100	100	447
2HJ150	150	365
2HJ200	200	316
2HJ250	250	283
2HJ300	300	258
2HJ400	400	224
2HJ500	500	200
2HJ750	750	163
2HJ1000	1000	141
2HJ1250	1250	126
2HJ1500	1500	115
2HJ1750	1750	107
2HJ2000	2000	100
2HJ2250	2250	94
2HJ2500	2500	89
2HJ2750	2750	85
2HJ3000	3000	81
2HJ3500	3500	75
2HJ4000	4000	71
2HJ4500	4500	66
2HJ5000	5000	63
2HJ6000	6000	57
2HJ7500	7500	51
2HJ10000	10000	44
2HJ12500	12500	40
2HJ15000	15000	33
2HJ20000	20000	25
2HJ25000	25000	20
2HJ30000	30000	16.7
2HJ35000	35000*	14.3
2HJ40000	40000*	13.3
2HJ50000	50000*	11.8
2HJ75000	75000*	9.7
2HJ100000	100000*	8.3

50 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{3}{4}$ " x $4\frac{1}{2}$ "

One Resistor to a Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
5HJ10	10	2240
5HJ25	25	1415
5HJ50	50	1000
5HJ100	100	707
5HJ250	250	447
5HJ500	500	316
5HJ750	750	258
5HJ1000	1000	224
5HJ1500	1500	183
5HJ2000	2000	158
5HJ2500	2500	141
5HJ5000	5000	100
5HJ7500	7500	81
5HJ10000	10000	70
5HJ12500	12500	63
5HJ15000	15000	57
5HJ20000	20000	50
5HJ25000	25000	40
5HJ30000	30000	33
5HJ40000	40000	25
5HJ50000	50000	20
5HJ75000	75000	13
5HJ100000	100000	10

*We stock these high resistance

values only in the more eco-

nomical low temperature

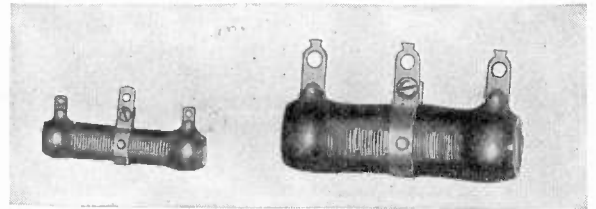
enamel coating because oper-

ating voltages normally

encountered rarely exceed the

values listed.

MALLORY FIXED AND ADJUSTABLE RESISTORS



100 Watt—Fixed Vitreous Enamel Resistors—Tube Size 1/8" x 6 1/2"
One Resistor to a Display Carton

200 Watt—Fixed Vitreous Enamel Resistors—Tube Size 1/8" x 10 1/2"
One Resistor to a Display Carton

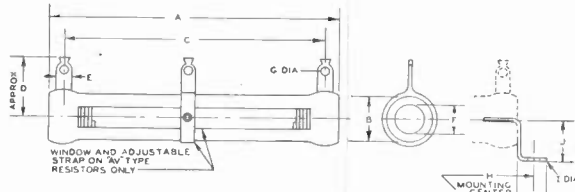
10 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/16" x 1 3/4"
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
10HJ25	25	2000
10HJ50	50	1414
10HJ75	75	1155
10HJ100	100	1000
10HJ150	150	815
10HJ250	250	632
10HJ500	500	447
10HJ750	750	365
10HJ1000	1000	316
10HJ1500	1500	258
10HJ2000	2000	223
10HJ2500	2500	200
10HJ5000	5000	141
10HJ7500	7500	115
10HJ10000	10000	100
10HJ15000	15000	80
10HJ20000	20000	70
10HJ25000	25000	60
10HJ30000	30000	50
10HJ40000	40000	37
10HJ50000	50000	30
10HJ75000	75000	20
10HJ100000	100000	15

Catalog Number	Resistance Ohms	Current Milli-amperes
20HJ25	25	2830
20HJ50	50	2000
20HJ75	75	1635
20HJ100	100	1414
20HJ250	250	894
20HJ500	500	632
20HJ750	750	515
20HJ1000	1000	447
20HJ1500	1500	365
20HJ2000	2000	316
20HJ2500	2500	283
20HJ3000	3000	258
20HJ5000	5000	200
20HJ7500	7500	163
20HJ10000	10000	141
20HJ20000	20000	100
20HJ30000	30000	80
20HJ40000	40000	62
20HJ50000	50000	50
20HJ75000	75000	33
20HJ100000	100000	25

Catalog Number	Resistance Ohms	Current Milli-amperes
1AV1	1	3150
1AV2	2	2200
1AV3	3	1800
1AV5	5	1400
1AV7.5	7.5	1100
1AV10	10	1000
1AV15	15	812
1AV20	20	707
1AV25	25	630
1AV50	50	447
1AV75	75	360
1AV100	100	315
1AV150	150	260
1AV200	200	220
1AV250	250	200
1AV300	300	180
1AV350	350	170
1AV400	400	158
1AV500	500	141
1AV600	600	130
1AV750	750	115
1AV800	800	112
1AV1000	1000	100
1AV1250	1250	89
1AV1500	1500	81
1AV2000	2000	70
1AV2250	2250	66.5
1AV2500	2500	63
1AV3000	3000	56
1AV3500	3500	53
1AV4000	4000	50
1AV4500	4500	47
1AV5000	5000	45
1AV6000	6000	40
1AV7000	7000	38
1AV7500	7500	36
1AV8000	8000	35
1AV8500	8500	34
1AV9000	9000	33
1AV10000	10000	32

Dimensional Drawing of all Types of Resistors



Key to Resistor Dimensions

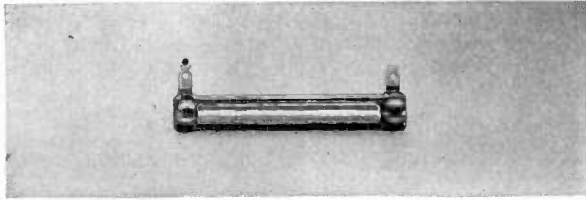
Rtg. Watts	Type	A	B	C	D	E	F	G	H	I	J	K
5	*HHJ	1	5/16	1 1/2	7/16	1/8	3/16	.070	.....	.....	.....	.....
10	*1HJ	1 3/4	5/16	1 1/2	7/16	1/8	3/16	.070	.....	.....	.....	.....
20	*2HJ	2	1/2	1 1/2	1 3/16	1/4	7/16	.144	.....	.....	.....	.....
50	5HJ	4 1/2	3/4	4	1 5/16	1/4	1/2	.144	5	.203	3/4	1/2
100	10HJ	6 1/2	1 1/8	5 3/4	1 1/8	1/4	3/8	.144	7 1/4	.265	1 1/4	1 1/16
200	20HJ	10 1/2	1 1/8	9 3/4	1 1/8	1/4	3/8	.144	11 1/4	.265	1 1/4	1 1/16
10	1AV	1 3/4	5/16	1 1/2	7/16	1/8	3/16	.070	2 5/16	.142	5/8	7/16
25	2AV	2 1/2	3/8	2	7/8	1/4	7/16	.144	3	.203	3/4	1/2
50	5AV	4 1/2	3/8	4	7/8	1/4	7/16	.144	5	.203	3/4	1/2
80	8AV	6 1/2	3/8	6	7/8	1/4	7/16	.144	7	.203	3/4	1/2
100	10AV	6 1/2	1 1/8	5 3/4	1 1/8	1/4	3/8	.144	7 1/4	.265	1 1/4	1 1/16
200	20AV	10 1/2	1 1/8	9 3/4	1 1/8	1/4	3/8	.144	11 1/4	.265	1 1/4	1 1/16

*Types HHJ, 1HJ and 2HJ furnished with lugs and wire leads.
 Types 5HJ, 10HJ, and 20HJ furnished with lugs.

25 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/8" x 2 1/2"
One Resistor Per Display Carton

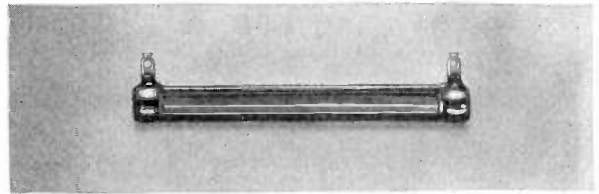
Catalog Number	Resistance Ohms	Current Milli-amperes
2AV1	1	5000
2AV3	3	2890
2AV5	5	2240
2AV10	10	1580
2AV15	15	1290
2AV25	25	1000
2AV50	50	707
2AV75	75	575
2AV100	100	500
2AV150	150	400
2AV200	200	353
2AV250	250	316
2AV300	300	288
2AV400	400	250
2AV500	500	224
2AV750	750	182
2AV1000	1000	158
2AV1250	1250	141
2AV1500	1500	129
2AV2000	2000	112
2AV2500	2500	100
2AV3000	3000	91
2AV3500	3500	84
2AV4000	4000	79
2AV5000	5000	71
2AV6000	6000	64
2AV7500	7500	57
2AV10000	10000	50
2AV12000	12000	42
2AV15000	15000	33
2AV20000	20000	25
2AV25000	25000	20

MALLORY ADJUSTABLE RESISTORS



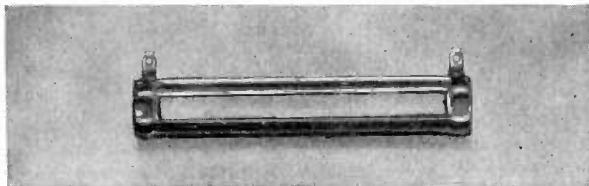
50 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/8" x 4 1/2"
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
5AV5	5	3160
5AV10	10	2230
5AV25	25	1410
5AV50	50	1000
5AV75	75	816
5AV100	100	707
5AV150	150	577
5AV200	200	500
5AV250	250	447
5AV300	300	408
5AV400	400	354
5AV500	500	316
5AV750	750	258
5AV1000	1000	224
5AV1500	1500	182
5AV2000	2000	158
5AV2500	2500	141
5AV3000	3000	129
5AV4000	4000	112
5AV5000	5000	100
5AV7500	7500	81
5AV10000	10000	70
5AV12000	12000	64
5AV15000	15000	57
5AV20000	20000	50
5AV25000	25000	40
5AV30000	30000	33
5AV40000	40000	25
5AV50000	50000	20



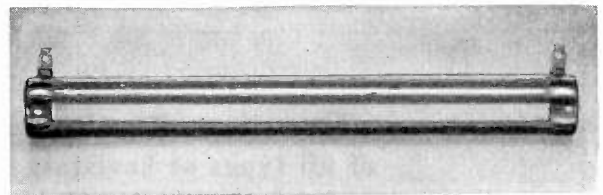
100 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 1 1/8" x 6 1/2"
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
10AV50	50	1413
10AV100	100	1000
10AV500	500	447
10AV1000	1000	316
10AV2000	2000	223
10AV2500	2500	200
10AV3000	3000	182
10AV4000	4000	158
10AV5000	5000	141
10AV7500	7500	115
10AV10000	10000	100
10AV15000	15000	80
10AV20000	20000	70
10AV25000	25000	60
10AV30000	30000	50
10AV35000	35000	43
10AV40000	40000	37
10AV50000	50000	30
10AV75000	75000	20



80 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/8" x 6 1/2"
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
8AV10	10	2830
8AV15	15	2310
8AV25	25	1790
8AV50	50	1265
8AV100	100	894
8AV250	250	566
8AV300	300	517
8AV400	400	495
8AV500	500	400
8AV750	750	327
8AV1000	1000	283
8AV1500	1500	231
8AV2000	2000	200
8AV2500	2500	179
8AV3500	3500	152
8AV5000	5000	126
8AV7500	7500	103
8AV10000	10000	89
8AV15000	15000	73
8AV20000	20000	63
8AV25000	25000	50
8AV30000	30000	42
8AV40000	40000	31
8AV50000	50000	25
8AV60000	60000	21
8AV75000	75000	16.5
8AV80000	80000	15.5
8AV100000†	100000	12.5



200 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 1 1/8" x 10 1/2"
One Resistor Per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
20AV50	50	2000
20AV100	100	1414
20AV500	500	632
20AV1000	1000	447
20AV1500	1500	365
20AV2000	2000	316
20AV2500	2500	283
20AV5000	5000	200
20AV10000	10000	141
20AV20000	20000	100
20AV25000	25000	80
20AV30000	30000	62
20AV50000	50000	50
20AV75000	75000	33

Extra Adjustable Clips

Type No. 1V— For 10-Watt Variohms*

Type No. 3V— For 25, 50, and 80-Watt Variohms

Type No. 6V— For 100 and 200-Watt 1 1/8" Variohms

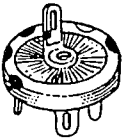
*Reg. U.S. Pat. Off.

†Will be discontinued when present stocks are exhausted.

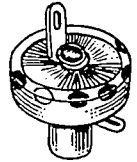


ERIE BUTTON STYLE SILVER MICA CAPACITORS

These are midget silver-mica capacitors, for use where compact size, minimum external inductance, and high internal series resistance are essential. Erie button silver-mica capacitors are unmatched for V.H.F. and U.H.F. work. "Q" at 1 MC is not less than 1000 above 100 mmf; not less than 700 between 50 and 100 mmf; not less than 500 below 50 mmf. Type 370-CB has ring type metal shell with three soldering ears. High potential terminal at either end for feed-thru connection. Type 370-FA is fastened to chassis with 3-48 screw.



STYLE
CB



STYLE
FA

SPECIFICATION CHART

Style	Capacity	Tolerance	List Price
370CB and 370FA	15	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	25	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	50	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	100	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	150	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	200	20%	.90
		10%	1.00
		5%	1.45
370CB and 370FA	250	20%	1.00
		10%	1.10
		5%	1.65
370CB and 370FA	300	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	400	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	500	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	750	20%	1.75
		10%	2.00
		5%	2.90
370CB and 370FA	1000	20%	2.20
		10%	2.50
		5%	3.50

ERIE

ERIE RESISTOR CORPORATION—ERIE, PA.

ERIE CERAMICONS®

STYLE K



STYLE M



STYLE 335



STYLE 334



STYLE L



ERIE CERAMICONS* are small fixed capacitors consisting essentially of a ceramic dielectric with silver electrodes which are fired on at a very high temperature. Erie Ceramicons are outstanding because of their excellent high frequency characteristics, small size, rugged construction and availability in a wide range of capacity values.

Physical dimensions of styles illustrated are:

Style K length .562" diameter .250" Style 334 length 1.213" diameter .415"
 Style L length .812" diameter .250" Style 335 length 1.650" diameter .415"
 Style M length 1.328" diameter .340"

"GP" General Purpose CERAMICONS®

"GP" general purpose Ceramicons are ideally suited for such applications as coupling and by-passing, in circuits where temperature coefficient is not important — in other words for all receiver applications except in frequency determining circuits. Working voltage — 500 volts D.C. Use Erie "GP" Ceramicons as replacements for molded mica and paper tubular capacitors.

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
GP1K	10	20%	.25
GP1K	12	20%	.25
GP1K	15	20%	.25
GP1K	18	20%	.25
GP1K	22	20%	.25
GP1K	25	20%	.25
GP1K	27	20%	.25
GP1K	33	20%	.25
GP1K	39	20%	.25
GP1K	47	20%	.25
GP1K	50	20%	.25
GP1K	56	20%	.25
GP1K	68	20%	.25
GP1K	75	20%	.25
GP1K	100	20%	.25
GP2K	120	20%	.25
GP2K	150	20%	.25
GP2K	180	20%	.25
GP2K	200	20%	.25
GP2K	220	20%	.25
GP2K	250	20%	.25
GP2K	270	20%	.25
GP2K	300	20%	.25

Style	Capacity (MMF)	Tolerance	List Price
GP2K	330	20%	.25
GP2K	390	20%	.25
GP2K	470	20%	.25
GP2K	500	20%	.25
GP2K	560	20%	.25
GP2K	680	20%	.25
GP2K	750	20%	.25
GP2L	1,000	20%	.25
GP2L	1,200	20%	.25
GP2L	1,500	20%	.25
GP2M	1,800	20%	.25
GP2M	2,000	20%	.25
GP2M	2,200	20%	.25
GP2M	2,500	20%	.25
GP2M	2,700	20%	.25
GP2M	3,000	20%	.25
GP2M	3,300	20%	.25
GP2M	4,700	20%	.30
GP2M	5,000	20%	.30
GP2M	5,600	20%	.30
GP2-334	6,800	20%	.30
GP2-335	7,500	20%	.30
GP2-335	10,000	20%	.30

NPO Zero Temperature Coefficient CERAMICONS®

NPO zero temperature coefficient Ceramicons are highly recommended for frequency applications where no capacity change with change in temperature is desired. "Q" for NPO Ceramicons above 30 mmf is 1000 or higher. Below 30 mmf "Q" decreases slightly as capacity decreases. Working voltage — 500 volts D.C. Can be used as replacements for silver mica condensers.

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
NPOK	1.5	10%	.50
NPOK	3	10%	.50
NPOK	3.3	10%	.50
NPOK	4.7	10%	.50
NPOK	5	10%	.50
NPOK	6.8	10%	.50
NPOK	8.2	10%	.50
NPOK	10	10%	.50

Style	Capacity (MMF)	Tolerance	List Price
NPOL	20	10%	.50
NPOL	25	10%	.50
NPOL	33	10%	.50
NPOM	50	10%	.55
NPOM	75	10%	.55
NPOM	100	10%	.55
NPO-334	150	10%	.60
NPO-334	175	10%	.60

*"Ceramicon" and "GP" are registered trade names and refer to ceramic dielectric condensers manufactured by Erie Resistor Corp.



Negative Temperature Coefficient CERAMICONS®

N080 and N750 units provide temperature compensation to eliminate drift.

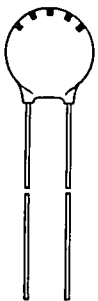
SPECIFICATION CHART

ERIE TUBULAR TYPE N750 CERAMICONS

Style	Capacity (MMF)	Tolerance	List Price
N750K	5	10%	.50
N750K	10	10%	.50
N750L	47	10%	.50
N750L	75	10%	.50
N750L	100	10%	.50

ERIE TUBULAR TYPE N080 CERAMICONS

Style	Capacity (MMF)	Tolerance	List Price
N080-331	10	10%	.60
N080-331	22	10%	.60
N080-338	33	10%	.60
N080-338	47	10%	.60
N080-338	62	10%	.60



ERIE DISC CERAMICONS®

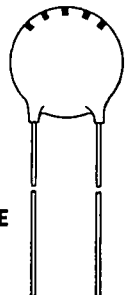
Erie Disc Ceramicons consist of a flat Hi-K ceramic dielectric with silver fired on to the dielectric. Lead wires are firmly soldered to the silver electrodes, and the unit is given a protective coating of phenolic. Very efficient at high frequencies.

SPECIFICATION CHART

STYLE
811

Style	Size	Value	List Price
811	19/32" Dia.	.005 min.	.25
821	3/4" Dia.	.01 min.	.30

STYLE
821



ERIE STAND-OFF CERAMICONS®

Stand-Off Ceramicons, an original Erie development, are now widely used for the dual purposes of by-passing R.F. current to ground, and of mechanically supporting other circuit elements. They are especially suited for V.H.F. and U.H.F. applications, due to their low-inductance electrical paths and resultant high resonant frequency.

SPECIFICATION CHART

STYLE
324

Style	Capacity (MMF)	Tolerance	List Price
323	50	20%	.60
323	100	20%	.60
323	500	20%	.60
324	1,000	20%	.60
324	1,500	20%	.60

STYLE
323



ERIE FEED-THRU CERAMICONS®

This very practical feed-thru capacitor is highly recommended for by-passing R.F. to ground in feed-thru applications. Wire terminals are sufficiently rugged to serve as tie points for several connections, for supporting other circuit elements, and long enough for point to point wiring.

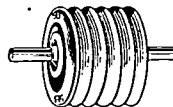


STYLE
362

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
362	1500	20%	1.00

ERIE HIGH VOLTAGE CERAMICONS®



STYLE
410

15 KV Ceramicon specially designed for television receiver power supply filter application. The only ceramic condenser on the market with these two extra features: (1) Ridges on all surfaces to give extra creepage path, and (2) ceramic dielectric with built-in corona shields for extra protection against internal flashover. Capacity range — 500 mmf minimum. 1 1/8" diameter x 1/8" long. Approved by leading television manufacturers for original equipment.

SPECIFICATION CHART

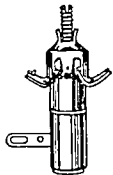
Style	Capacity (MMF)	Tolerance	List Price
410	500	20%	2.25

ERIE

ERIE RESISTOR CORPORATION—ERIE, PA.

ERIE TUBULAR TRIMMERS

Here is a compact, economical tubular trimmer that is ideal for applications calling for a low minimum capacity and a high ratio of maximum to minimum capacity. Has molded plastic dielectric. Can be mounted on panels having a thickness of .040" to .065"



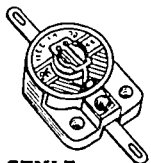
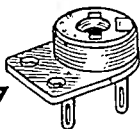
STYLE 532

SPECIFICATION CHART

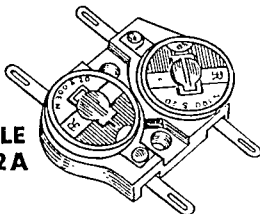
Style	Capacity Range (MMF)	List Price
532-08	0.5-5	.55
532	1-8	.55

ERIE CERAMICON TRIMMERS

Erie Ceramicon trimmers give maximum stability and ease of adjustment. Capacity change is constant per degree of rotation. Silver electrodes are fired on to ceramic rotor and base. 360 degree rotor completely covers entire track on stator thus preventing dust and other foreign matter from affecting characteristics of the unit.

STYLE
TS2A

STYLE 557

STYLE
TD2A

SPECIFICATION CHART

Style	Capacity Range (MMF)	Temperature Coefficient	List Price
TS2A	1.5-7	NPO	1.50
	3-12	NPO	1.50
	4-30	NS00	1.50
	7-45	NS00	1.50
TD2A	1.5-7 each section	NPO	2.50
	3-12 " "	NPO	2.50
	4-30 " "	NS00	2.50
	7-45 " "	NS00	2.50
557	3-12	NPO	1.25
	5-25	NPO	1.25
	8-50	N750	1.25

ERIE SUPPRESSORS

Erie Suppressors use a special resistance element that is superior because of its low voltage coefficient. These suppressors effectively eliminate ignition interference in auto radios, and in nearby F.M. and Television home sets. Erie Suppressors have a resistance value of 10,000 ohms. Style L-4 fits spark plugs, style L-7 for distributor cables.



STYLE L-4



STYLE S-5

SPECIFICATION CHART

Style	List Price
S-5	.30
L-4	.30

INSULATED RESISTORS

Preferred for Performance



TYPE BTS INSULATED FILAMENT RESISTOR

(1/2 watt)

1 3/32" x 1/8"—470 ohms to 22 meg
350 volts max.

List 17¢

TYPE BTA INSULATED FILAMENT RESISTOR

(1 watt)

2 3/32" x 1/4"—330 ohms to 22 meg
500 volts max.

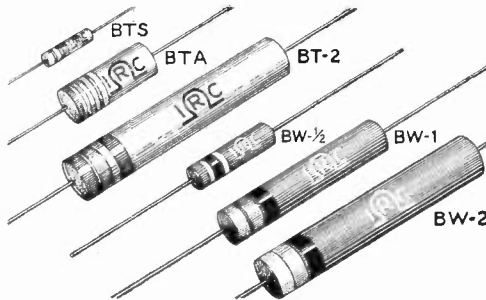
List 25¢

TYPE BT-2 INSULATED FILAMENT RESISTOR

(2 watt)

1 3/4" x 2 1/64"—470 ohms to 22 meg
500 volts max.

List 50¢



Type BW-1/2 Insulated Wire Wound Resistor

(1/2 watt)

5/8" x 3/16"—0.47 to 820 ohms

List 17¢

Type BW-1 Insulated Wire Wound Resistor

(1 watt)

1 1/4" x 1/4"—0.47 to 4,700 ohms

List 25¢

Type BW-2 Insulated Wire Wound Resistor

(2 watt)

1 3/4" x 2 1/64"—1.0 to 6,800 ohms

List 50¢

TYPE BT INSULATED FILAMENT RESISTORS are completely insulated with bakelite and unexcelled for stability, low-noise level, low voltage coefficient and mechanical strength. Insulation breakdown of Type BTS is 750 volts to ground; all other Type BT's, 1000 volts. Standard tolerance $\pm 10\%$. Special tolerance $\pm 5\%$ at slightly higher cost.

TYPE BW INSULATED WIRE WOUND RESISTORS are furnished with the same bakelite insulation as BT resistors. The wire resistance element is wound tightly around a special insulated core. Standard tolerance $\pm 10\%$. Special tolerance $\pm 5\%$ at slightly higher cost.

STANDARD RANGES

Standardization pays dividends! It can be an important profit factor for you, too.

The great majority of radio parts manufacturers were quick to see the advantages in standardization and adopted the RMA Preferred Ranges some years ago. IRC has pioneered standardization of resistors because close contact with the radio industry has convinced us that such standardization is not only desirable but absolutely essential to carry out the tremendous development and production program of the industry.

This IRC policy will help servicemen prepare for better, faster and more profitable business.

Type BT and BW Resistors, in 10% tolerance, are carried in stock in the RMA ranges listed below. Figures in heavy type are the standard RMA 10% tolerance values. Using 10% tolerance BT's and BW's, these 93 ranges give complete coverage of all values with the smallest resistor stock. Standardization of your stock on these values is recommended for economical, complete coverage, faster turnover . . . more profit for you!

However, the intermediate values listed below also are carried in the IRC stockroom, so that every RMA value is available to servicemen when desired.

JOBBERS' STOCK IN PREFERRED RMA RANGES

Subject to the minimum and maximum values for each of the various types of BT and BW Resistors.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	Megs
0.47	3.0	18	110	680	4,300	27,000	0.1	0.62	5.9
0.51	3.3	20	120	750	4,700	30,000	0.11	0.68	4.3
0.56	3.6	22	130	820	5,100	33,000	0.12	0.75	4.7
0.62	3.9	24	150	910	5,600	36,000	0.13	0.82	5.1
0.68	4.3	27	160	1,000	6,200	39,000	0.15	0.91	5.6
0.75	4.7	30	180	1,100	6,800	43,000	0.16	1.0	6.2
0.82	5.1	33	200	1,200	7,500	47,000	0.18	1.1	6.8
0.91	5.6	36	220	1,300	8,200	51,000	0.20	1.2	7.5
1.0	6.2	39	240	1,500	9,100	56,000	0.22	1.3	8.2
1.1	6.8	43	270	1,600	10,000	62,000	0.24	1.5	9.1
1.2	7.5	47	300	1,800	11,000	68,000	0.27	1.6	10.0
1.3	8.2	51	330	2,000	12,000	75,000	0.30	1.8	11.0
1.5	9.1	56	360	2,200	13,000	82,000	0.33	2.0	12.0
1.6	10	62	390	2,400	15,000	91,000	0.36	2.2	13.0
1.8	11	68	430	2,700	16,000		0.39	2.4	15.0
2.0	12	75	470	3,000	18,000		0.43	2.7	16.0
2.2	13	82	510	3,300	20,000		0.47	3.0	18.0
2.4	15	91	560	3,600	22,000		0.51	3.3	20.0
2.7	16	100	620	3,900	24,000		0.56	3.6	22.0



INSULATED RESISTORS

Preferred for Performance

BASIC KIT

Designed to meet your day-to-day resistor requirements, the IRC Basic Kit provides a wide variety stock in carefully selected values. Assortments are so arranged that a shortage of stock in one range can usually be compensated for by using two other ranges in series or parallel. Additional adjustable bands are included for use in making up bleeder sections.

The Basic Kit is sturdily constructed of heavy-gauge steel, and beautifully finished in blue and yellow. Hung on your wall or set on your service bench, the Basic Kit saves countless trips for supplies and provides your shop with a neat, carefully selected general purpose resistor stock.

The IRC Basic Kit is factory-packed with the following wide-variety resistor stock:

- BTS —10 each—1,000, 2,200, 4,700, 10,000, 15,000, 22,000, 27,000, 47,000, 75,000 ohm; 0.1 meg., 0.22 meg., 0.47 meg., 1.0 meg., 2.2 meg., 10.0 meg. 15.0 meg.
- BTA —5 each—470, 1,000, 1,500, 2,200, 3,600, 4,700, 22,000, 36,000, 75,000 ohm.
10 each—10,000, 15,000, 47,000 ohm; 0.1 meg., 0.24 meg. 0.47 meg., 1 meg.
- BW-1/2 —10 each—100, 150, 220, 330, 470, 560 ohm.
- BT-2 —5 each—1,000, 2,200, 4,700, 10,000, 22,000, 47,000 ohm; 0.1 meg.
- BW-1 —5 each—47, 82, 100, 270 ohm.
- BW-2 —5 each—47, 82, 100, 270 ohm.
- AB —2 each—100, 250, 500, 750, 1,000, 1,500, 2,500, 5,000, 10,000 ohm.
2 each—15,000, 25,000 ohm.
- ABA —2 each—100, 250, 500, 1,000, 1,500, 2,500, 5,000, 10,000 ohm.
- EPA —1 each—1,000, 1,500, 2,500, 5,000 ohm.
1 each—10,000, 25,000 ohm.
- ESA —1 each—1,000, 1,500, 2,500, 5,000 ohm.
1 each—10,000, 25,000, 50,000 ohm.
6 "X-3" Bands.
- MW-2J—2 each—10, 20, 50, 100 ohm.
- M1034—2 each.

All-Metal Cabinet Furnished at No Extra Cost
List Price: \$160.53



Serviceman's Special Assortment Available in Basic Kit

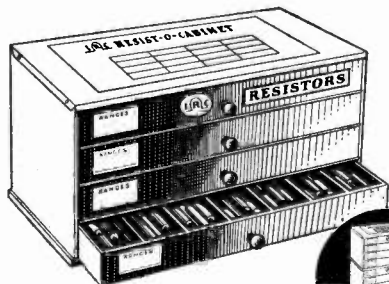
The Basic Kit is also available stocked with a special "Serviceman's Assortment." This assortment contains a complete stock of 1/2, 1 and 10 watt resistors, plus a selection of controls, shafts and switches. The heavy-duty power wire-wound resistors are not furnished in this assortment—leaving space in the compartments and drawers for capacitors, lamp bulbs, solder, small tools and spare parts.

The "Serviceman's Assortment" is factory-packed with the following:

- 160—BTS resistors
- 115—BTA resistors
- 60—BW 1/2 resistors
- 20—BW-1 resistors
- 22—AB power resistors
- 2—# 41 switches
- 1—# 42 switch
- 4—D13-133 controls
- 1—D13-133X control
- 1—D13-137 control
- 1—D13-137X control
- 1—D13-139 control
- 2—"E" shafts
- 1—"H" shaft

List Price: \$99.54

RESIST-O-CABINET



**End Cigar Box Confusion—
Keep Your Resistors in Order!**

The sturdy, IRC Resist-O-Cabinet is specifically designed to hold resistors systematically and safely without the bending of leads. It puts an end to "cigar box confusion!" Its four "non-spill" drawers have seven ample-sized compartments in each which readily accommodate resistor sizes from 1/2 to 10 watts.

Attractively finished in blue, yellow and silver. Ohm's Law formulas neatly and permanently lithographed on top of cabinet for handy reference. Cabinet measures 11" long, 5 1/2" high and 5 1/2" deep. Bases of Resist-O-Cabinets are arranged for stacking so that several cabinets may be used to increase stock capacity. This handy Resist-O-Cabinet is FREE with the purchase of any of the three well-balanced IRC resistor assortments listed. (Cabinet is not sold separately.)

ASSORTMENT No. 1—59 Resistors

Type BTS—One each 1,000, 4,700, 10,000, 27,000, 47,000 ohms; 0.1 meg, 0.27, 0.47 meg.

Type BTA—One each 39,000, 68,000 ohms; 0.15, 0.22 meg. Two each 1,000, 1,500, 2,200, 2,700, 4,700, 15,000, 27,000 ohms; 1.0, 2.2 meg. Three each 10,000, 47,000 ohms; 0.1 meg, 0.27, 0.47 meg.

Type AB 10 Watt—One each 1,000, 1,500, 2,500, 5,000 ohms. Two each 10,000 and 25,000 ohms.

Type ABA, 10 Watt Adjustable—One each 1,000, 2,500, 5,000, 10,000.

List price of Resistors, \$22.87
(Cabinet furnished at no extra charge)

ASSORTMENT No. 2—100 Resistors

Type BW-1/2—Two each 47, 100, 270 ohms.

Type BTS—Two each 3,300, 6,800, 33,000, 68,000, 82,000 ohms; 0.22, 0.33 meg. Three each 470, 1,500, 15,000, 22,000, 39,000 ohms; 0.15, 1.0, 2.2 meg. Five each 2,200, 2,700, 27,000 ohms; 0.27 meg. Six each 1,000, 4,700, 10,000, 47,000 ohms; 0.1, 0.47 meg.

List price of Resistors, \$17.00
(Cabinet furnished at no extra charge)

ASSORTMENT No. 3—83 Resistors

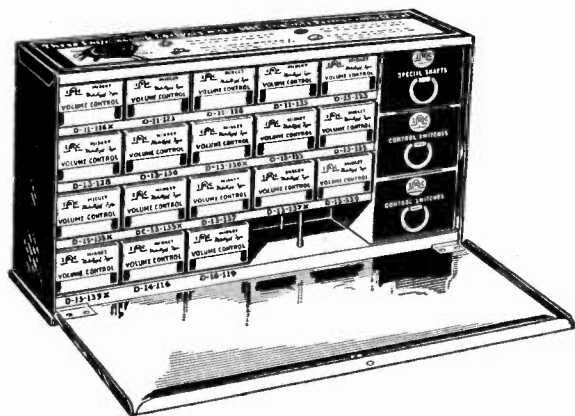
Type BW-1—Two each 47, 100, 270 ohms.

TYPE BTA—Two each 470, 1,500, 2,700, 3,300, 6,800, 33,000, 39,000, 68,000, 82,000 ohms; 0.15, 0.22, 0.33, 1.0, 2.2 meg. Three each 15,000, 22,000, 27,000 ohms. Five each 1,000, 2,200, 4,700, 10,000, 47,000 ohms; 0.1, 0.27, 0.47 meg.

List price of Resistors, \$20.75
(Cabinet furnished at no extra charge)

VOLUME CONTROLS

Preferred for Performance



IRC VOLUME CONTROL CABINET

For the Modern Service Shop

This handy stock of IRC Type D Universal Controls, quickly attached switches and easily installed shafts is factory-packed in an attractive all-metal cabinet. Proved by IRC Service Records to be a selection of the most popular controls—you can actually service over 87% of all replacements right from this cabinet. Here is your answer to speedier, more efficient servicing—reduction of costly exact-duplicate inventories—and modern appearance for your shop.

Cabinet measures 14½" long, 7⅞" high and 4½" wide. It is handsomely finished in yellow, blue and silver and provides separate compartments for controls and three handy drawers for switches, special shafts and spare parts. Each compartment and drawer is individually marked for identification. The hinged front cover snaps securely shut. The cabinet is furnished at no extra charge when factory-packed with the IRC controls, switches and shafts listed on the left. It is not sold separately.

Check this fast-selling stock!

The IRC Volume Control Cabinet is factory-packed with the following 18 Type D All-Purpose Controls, switches and special shafts.

IRC Control Type No.	Resistance	Purpose	IRC Control Type No.	Resistance	Purpose
2-D13-133	500,000	A	1-D13-133X	500,000	F
1-D11-116	10,000	B	1-DC13-133X	500,000	G
1-D11-123	50,000	C	1-D13-137	1.0	A
1-D11-128	100,000	C	1-D13-137X	1.0	F
1-D11-133	500,000	C	1-D13-139	2.0	A
1-D13-123	50,000	D	1-D13-139X	2.0	F
1-D13-128	100,000	A	1-D14-116	10,000	H
1-D13-130	250,000	A	1-D16-119	20,000	B
1-D13-130X	250,000	E			

A—Tone or Audio Circuit Control
 B—Antenna Grid Bias Control
 C—Potentiometer Voltage Divider
 D—Tone Control

E—Tapped for A. V. C.
 F—Tapped for Tone Compensation
 G—Friction Clutch Auto Radio Type
 H—Antenna Grid Bias of 2 Tubes

Switches: 5—No. 41 S.P.S.T.; 1—No. 42 D.P.S.T.
 Shafts: 1—Type B Auto Radio; 4—Type E knurled and slotted—with thin web

ORDER YOUR IRC VOLUME CONTROL CABINET TODAY

List Price: \$30.90

NEW IRC ALL-PURPOSE KIT

Here's how to sharpen the appearance of your shop without an additional outlay of cash! 9 "hot-number" IRC ½, 1 and 2 meg. controls are available pre-packed in the All-Purpose Kit with 4 switches and 4 special shafts. Every one a fast mover . . . and you pay only the standard net cost of the merchandise. At no extra cost you receive this attractive 12 compartment utility cabinet.

Buy your "hot-number" controls this way each week and accumulate a shelf of these neat cabinets—each pre-packed with the following IRC merchandise:

IRC Control Type No.	Resistance	Purpose
5 D13-133	500,000	A
1 D13-133X	500,000	B
1 D13-137	1.0	A
1 D13-137X	1.0	B
1 D13-139	2.0	A

SWITCHES

3 #41 S.P.S.T.
 1 #42 D.P.S.T.

SHAFTS

1 Type "A" double-flatted tap-in shaft is included with each control—plus:

3 Type "E" with universal knurl for special type push-on knobs.
 1 Type "H" with universal groove for many Delco, RCA, Sears-Roebuck and Westinghouse models.

Sturdy utility cardboard cabinet measures 7¼"x7¾"x4½". It is attractively finished in yellow, blue and silver, and provides 4 drawers with 12 compartments. Ideal stocking arrangement for miscellaneous parts—hardware, knobs, capacitors, shafts and dial fittings.



Cabinet furnished at no extra cost.

List Price \$16.20

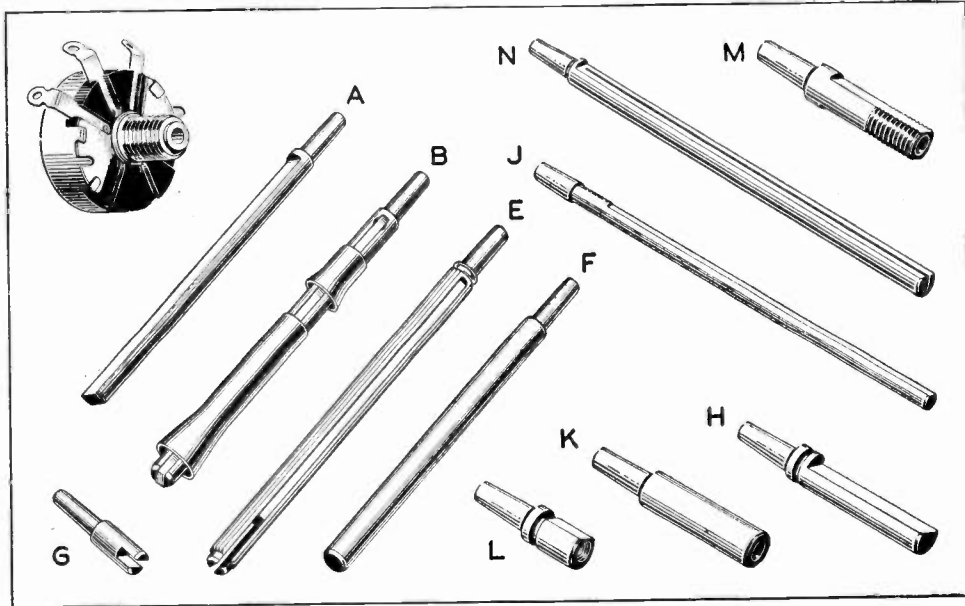


VOLUME CONTROLS

Preferred for Performance

THE IRC "CENTURY" LINE

114 IRC CONTROLS THAT SOLVE 90% OF YOUR REPLACEMENT PROBLEMS



For miscellaneous service needs, 71 all-purpose controls are available for use with the popular IRC tap-in shafts. An A shaft is included with each control and shafts B, E, F, G, H, J, K, L, M and N may be had at slight extra cost. Each D Control accommodates any of the eleven Tap-in Shaft types shown. Shaft flats may be located in any position. A few extra shafts greatly increase the utility of your D Control stock at a small investment. Of unusual convenience is the "Double-Flatted" A shaft, included with each D Control. Accommodates popular push-on knobs

requiring either $\frac{1}{8}$ " or $\frac{3}{16}$ " flats and all set-screw knobs without filing of shaft or use of inserts. Dimensions: $1\frac{1}{8}$ " x $\frac{1}{16}$ ".
 Single Control—Without switch List \$1.25
 Tapped Control—Without switch List 1.85
 Prices include Shaft A packed with each control

Easily Installed "Tap-in" Shafts

Type B, M—List \$0.45
 Types E, F, G, H, J, K, L, N—List \$0.30

70 UNIVERSAL TYPE D CONTROLS with 11 easily installed Tap-In Shafts

Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application	Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application
500	—	D11-103	A	Potentiometer Voltage Divider	250M	60M-120M	D18-130XX	Spec.	Audio Control with 2 Tone Taps
1M	—	D11-108	A	Potentiometer Voltage Divider	350M	—	D13-132	C	Tone or Audio Circuit Control
2M	—	D11-110	A	Potentiometer Voltage Divider	350M	35M	D17-132X	Spec.	Audio Control with Tone Tap
3M	—	D11-112	A	Potentiometer Voltage Divider	75M	75M	D18-132X	H	Audio Control with Tone Tap
4M	—	D11-113	A	Potentiometer Voltage Divider	500M	—	D11-133	A	Potentiometer Voltage Divider
5M	—	D11-114	A	Potentiometer Voltage Divider	500M	—	D13-133	C	Tone or Audio Circuit Control
5M	—	D13-114	C	Antenna Control	500M	125M	D13-133X	H	Audio Control with Tone Tap
5M	—	D14-114	D	*Antenna C Bias Control	500M	—	D14-133	D	R.F. Plate Control
7,500	—	D11-115	A	Potentiometer Voltage Divider	500M	25M	D17-133X	Spec.	Audio Control with Tone Tap
10M	—	D11-116	A	*Antenna Grid Bias Control	500M	50M	D18-133X	Spec.	Audio Control with Tone Tap
10M	—	D13-116	C	Antenna Control	500M	250M	D19-133X	Spec.	Audio Control with Tone Tap
10M	—	D14-116	D	*Antenna Grid Bias of 2 Tubes	500M	100M-200M	D18-133XX	Spec.	Audio Control with 2 Tone Taps
10M	—	D16-116	F	*Antenna Grid Bias of 1 Tube	1.0 meg.	—	D11-137	A	Potentiometer Voltage Divider
13M	3M	D18-117X	H	I. F. Shunting Control	1.0 meg.	—	D13-137	C	Tone or Audio Circuit Control
15M	—	D14-118	D	*Antenna Grid Bias Control	1.0 meg.	250M	D13-137X	H	Audio Control with Tone Tap
15M	—	D16-118	F	*Antenna Grid Bias Control	1.0 meg.	—	D14-137	D	Tone Control
20M	—	D16-119	F	*Antenna Grid Bias Control	1.0 meg.	35M	D17-137X	Spec.	Audio Control with Tone Tap
25M	—	D11-120	A	Potentiometer Voltage Divider	1.0 meg.	50M-100M	D17-137XX	Spec.	Audio Control with 2 Tone Taps
25M	—	D14-120	D	*Grid Bias Control	1.0 meg.	160M	D18-137X	Spec.	Audio Control with Tone Tap
25M	—	D16-120	F	Antenna Control	1.0 meg.	250M-500M	D18-137XX	Spec.	Audio Control with 2 Tone Taps
30M	6M	D18-122X	H	Audio Control with Tone Tap	1.0 meg.	500M	D19-137X	Spec.	Audio Control with Tone Tap
44M	7M-14M	D18-123XX	Spec.	Audio Control with 2 Tone Taps	1.0 meg.	500M	DVC-539X	Spec.	Fader control for fading one circuit into another
50M	—	D11-123	A	Potentiometer Voltage Divider	2.0 meg.	—	D13-139	C	Tone or Audio Circuit Control
50M	—	D13-123	C	Tone Control	2.0 meg.	500M	D13-139X	H	Audio Control with Tone Tap
50M	—	D14-123	D	*Antenna Grid Bias Control	2.0 meg.	5M	D15-139X	Spec.	Audio Control with Tone Tap
75M	—	D13-125	C	Tone Control	2.0 meg.	500M-1.0 meg.	D13-139XX	Spec.	Audio Control with 2 Tone Taps
75M	—	D14-125	D	*Grid Bias Control	2.0 meg.	150M	D17-139X	Spec.	Audio Control with Tone Tap
100M	—	D11-128	A	Potentiometer Voltage Divider	2.0 meg.	1.0 meg.	D18-139X	Spec.	Audio Control with Tone Tap
100M	—	D13-128	C	Tone or Audio Circuit Control	2.0 meg.	250M-500M	D18-139XX	Spec.	Audio Control with 2 Tone Taps
200M	—	D11-129	A	Potentiometer Voltage Divider	2.0 meg.	50M	D19-139X	Spec.	Audio Control with Tone Tap
200M	—	D14-129	D	*Grid Bias Control	2.0 meg.	—	D13-140	C	Audio Control
250M	—	D11-130	A	Potentiometer Voltage Divider	3.0 meg.	—	D11-141	A	Potentiometer Voltage Divider
250M	—	D13-130	C	Tone or Audio Circuit Control	5.0 meg.	—	D11-142	A	Potentiometer Voltage Divider
250M	125M	D13-130X	Spec.	Audio Control with A.V.C. Tap	7.0 meg.	—	D11-143	A	Potentiometer Voltage Divider
250M	—	D14-130	D	*Grid Bias Control	10.0 meg.	—			
250M	25M	D17-130X	Spec.	Audio Control with Tone Tap					
250M	60M	D18-130X	H	Audio Control with Tone Tap					

* Supplied with 270 ohm BW $\frac{1}{2}$ ($\frac{1}{2}$ Watt) Insulated Wire Wound Resistor.

VOLUME CONTROLS

Preferred for Performance



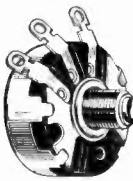
THE IRC "CENTURY" LINE

114 QUALITY CONTROLS THAT OFFER YOU THESE EXCLUSIVE FEATURES

- METALLIZED ELEMENT — harder, smoother, moisture-proof, permanent.
- FIVE FINGER CONTACTOR—assures positive, more uniform contact.
- SILENT SPIRAL CONNECTOR—a positive connection between contactor and its terminal.
- STEEL COIL SPRING THRUST WASHER — eliminates shaft wobble and end-play.

16 POPULAR DS TYPES

With Fixed Shafts



These sixteen numbers have been the most frequently called for and are furnished with fixed shaft for convenient, easy use. Dimensions: $1\frac{1}{8}''$ x $\frac{1}{2}''$.

Single Control—Without switch.....List \$1.25
Tapped Control—Without switch.....List \$1.85

Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application
10M	—	DS11-116	A	Antenna Grid Bias Control
10M	—	DS14-116	D	*Antenna Grid Bias of 2 Tubes
25M	—	DS14-120	D	*Grid Bias Control
50M	—	DS11-123	A	Potentiometer Voltage Divider
100M	—	DS11-128	A	Potentiometer Voltage Divider
100M	—	DS13-128	C	Tone or Audio Circuit Control
250M	—	DS11-130	A	Potentiometer Voltage Divider
250M	—	DS13-130	C	Tone or Audio Circuit Control
250M	125M	DS13-130X	Spec.	Audio Control with AVC Tap
250M	60M	DS18-130X	H	Audio Control with Tone Tap
500M	—	DS13-133	C	Tone or Audio Circuit Control
500M	125M	DS13-133X	H	Audio Control with Tone Tap
1.0 meg.	—	DS13-137	C	Tone or Audio Circuit Control
1.0 meg.	250M	DS13-137X	H	Audio Control with Tone Tap
2.0 meg.	—	DS13-139	C	Tone or Audio Circuit Control
2.0 meg.	500M	DS13-139X	H	Audio Control with Tone Ta

*Supplied with 270 ohm BW- $\frac{1}{4}$ ($\frac{1}{4}$ Watt) Insulated Wire Wound Resistor.

9 TYPE J CONTROLS FOR SPECIAL APPLICATIONS

For a wide variety of sets with specific requirements, you'll find these nine numbers extremely useful. To play safe your stock should include at least one of each.

8 DUAL CONTROLS



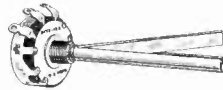
Eight popular Dual Controls are included in IRC's new Century Line. Here is a small but carefully selected group of "duals" that will speed many an important repair job! Standard No. 20 series switches can be attached. $1\frac{1}{4}''$ x $1\frac{1}{4}''$.

List Price \$3.10 each

IRC Stock No.	Unit	Resistance Ohms	Taper
35-1620	Panel	10,000	C
	Rear	25,000	E
61-1623	Panel	10,000	F
	Rear	50,000	A
33-2828	Panel	0.1 meg.	C
	Rear	0.1 meg.	C
33-3030	Panel	0.25 meg.	C
	Rear	0.25 meg.	C
33-3333	Panel	0.5 meg.	C
	Rear	0.5 meg.	C
33-3737	Panel	1.0 meg.	C
	Rear	1.0 meg.	C
33-3939	Panel	2.0 meg.	C
	Rear	2.0 meg.	C
31-4141	Panel	5.0 meg.	A
	Rear	5.0 meg.	A

8 CLUTCH-TYPE DC CONTROLS

With Tap-in Shafts



Practical for auto radio use and many other applications. Controls have friction clutch drive-arm and are equipped with a special shaft for use where either a slotted or tongued type shaft is required. Instructions tell how to cut shaft for either application. Switches cannot be used with friction clutch controls. Size same as Type D.

List Price \$1.85 each

IRC Stock No.	Resistance Ohms	Resistance to Tap
DC13-130	250M	—
DC18-130X	250M	Tap 50M
DC13-133	500M	—
DC13-133X	500M	Tap 125M
DC13-137	1.0 meg.	—
DC13-137X	1.0 meg.	Tap 250M
DC13-139	2.0 meg.	—
DC13-139X	2.0 meg.	Tap 500M

2 TYPE S SPECIAL POWER CONTROLS

With Tap-in Shafts

Designed for power requirements of plate circuit tone controls, Type S Controls should be used where the audio output exceeds 2 watts. $1\frac{1}{4}''$ in diameter, they employ the Tap-in Shaft feature. Use No. 20 series switches listed below.

List Price \$1.25 each

IRC Stock No.	Resistance Ohms	Taper
S11-128	0.1 meg.	A
S13-128	0.1 meg.	C

QUICKLY ATTACHED SWITCHES

	For D and DS Controls	For S and Dual Controls	List
SP., ST.	No. 41	No. 21	\$0.60
DP., ST.	No. 42	No. 22	0.75
SP., DT.	No. 43	No. 23	0.75
Three Point	—	No. 24	0.75
Four Point	No. 45	No. 25	0.75
SP., DT. at clockwise position.	—	No. 26	0.75
SP., ST. with dummy lug.	No. 47	No. 27	0.75

8 STANDARD TAPERS

A—Used as potentiometer or rheostat in any circuit where uniform resistance change is required.

B—A semi-logarithmic curve used as tone control or audio circuit control.

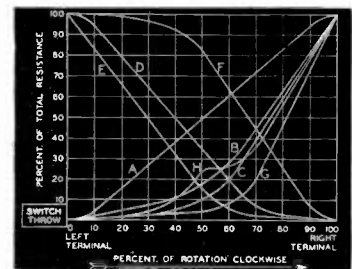
C—A logarithmic curve. Used as audio circuit control or antenna shunt control.

D—Tapered at both ends to provide control of grid bias and antenna circuit.

Used where control of grid bias is of prime importance in controlling volume.

E—Used as a rheostat in cathode circuit to control grid bias.

F—Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is essential in controlling volume. Generally used where the control changes the



grid bias of only one or two tubes. Must not be used with heavy currents.

G—A logarithmic curve with very gradual change in resistance from left terminal. Used as audio circuit control or antenna shunt control.

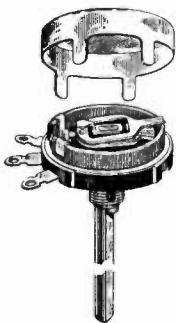
H—A tapped logarithmic curve used as audio level control for automatic bass compensation.

IRC

VOLUME CONTROLS

Preferred for Performance

TYPE W WIRE WOUND CONTROLS



A dependable wire wound control of uniform resistance change for power requirements up to 2 watts. Tight, uniform windings assure utmost accuracy. Spiral Spring Connector between rotor arm and center terminal eliminates noise. Diameter $1\frac{1}{4}$ " ; depth behind panel $\frac{9}{16}$ " ; shaft length $2\frac{1}{8}$ " from control face. Illustration shows cover removed, although covers are supplied with controls.

List without switch, \$1.25

IRC Control No.	Resistance Ohms	Max. Current (Amps.)	IRC Control No.	Resistance Ohms	Max. Current (Amps.)
W-2	2	1.000	W-100	100	.142
W-3	3	.815	W-200	200	.100
W-5	5	.630	W-300	300	.083
W-6	6	.560	W-400	400	.071
W-8	8	.500	W-500	500	.063
W-10	10	.450	W-750	750	.052
W-15	15	.370	W-1000	1000	.045
W-20	20	.320	W-2000	2000	.032
W-25	25	.285	W-3000	3000	.026
W-30	30	.260	W-4000	4000	.022
W-40	40	.225	W-5000	5000	.020
W-50	50	.200	W-7500	7500	.016
W-60	60	.183	W-10000	10000	.014
W-75	75	.164			

Television Focusing Controls

W20X10	20 ohms—center tap	List \$1.85
W10X5	10 ohms—center tap	

Type W Switches

No. 51—S. P., S. T.	List \$0.60
No. 52—D. P., S. T.	.75
No. 53—S. P., D. T.	.75
No. 54—Three Point	.75
No. 55—Four Point	.75
No. 56—S. P., D. T. at clockwse postion	.75
No. 57—S. P., S. T., with dummy lug	.75

Plain and Insulated Shaft Couplers

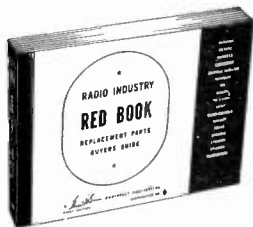
For use with standard controls to meet special shaft requirements. Two set screws give rigid connection.

TYPE C2—Insulated coupler for use with square type shaft used by Motorola. List \$0.30

TYPE C3—Plain coupler to couple $\frac{1}{4}$ " shafts; insert allows coupling of $\frac{1}{4}$ " shaft to $\frac{3}{8}$ " shaft. List \$0.30

INDUSTRY RED BOOK

IRC control replacements are fully listed in the new "Radio Industry Red Book of Replacement Parts." The correct IRC control replacement for any receiver manufactured from 1938 to 1948 is included. Installation notes are given where necessary.



9 IRC TYPE J CONTROLS FOR MANY SPECIAL REQUIREMENTS!

IRC sales records show that these 9 most popular special controls will handle nearly one-third of your requirements for exact duplicate controls. The group includes concentric duals, and special shaft units. For a more complete stock, carry at least one of each:

DJ-4—2.0 meg (tap 500M ohms)/1.0 meg. RCA: RC-351, A, B, C, D, E, F, M, R, RC-352, A, B, C, RC-386, B ch. Sears-Roebuck: 126.208 Ch. Westinghouse Elec. Supply: WR-264. List \$3.75

DJ-5—2.0 meg/1.0 meg. Zenith: 5637, 5803 Chassis (Dual Control). List \$3.75

J-15—32M ohms. Stewart-Warner: R-100A, B, E, (AC), 950 series (AC). List \$1.85

J-107—10M/50M ohms. General Electric: T-41. Graybar: GB-878. Pilot: K-117. RCA: R14, R15. RE17, 42 (Radiola), 48 (Radiola). Westinghouse Elec. & Mfg.: WR-4. List \$3.10

J-127—3800/3800 ohms. RCA: R32, RE45, R52, RE75, 145. List \$3.10

J-296—225M/5M ohms. Philco: 70, 70A below B22,000, 90, 90A (Two 45's), 270, 270A, 370, 470, 470A, 570. List \$3.10

J-777—350M ohms. Chrysler: C1423. Ford: T9, FT9, FT9X, F1440, F1442. Graham: G1418, G1435. Lincoln: L1420, L1424, L1425, L1427, L1429, L1460. Nash: T12-NT 12X, NT 12 X2, T15 NT 15, NT15N, N1418, N1433 H, N1434 H, N1514. Packard: P1417, P1517. Philco: 811 PA, PB, PV, 816, 817, 818, 821P, 821PV, 826, 827, 827K, 828, 828K. Reo: R1415. Studebaker: T12-ST12, T15-ST15, S1431, S1437, S1516. Willys Overland: W1419. List \$1.85

J-823—150M/250M ohms (Tap 125M ohms). General Elec: A-82, A-86, A-87. List \$3.10

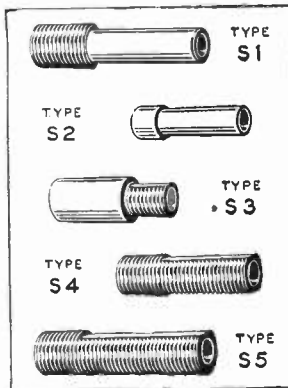
J-843—350M ohms (tap 75M ohms). Chrysler T10-CT10, T11-CT11, C1450, C1452. DeSoto: T10-CT10, T11-CT11. Dodge: T11-CT11. Hupmobile: HT11X. Lincoln: LT 14X3. Packard: T14-PT14, P1422, P1430, P1432 H, P1439. Pierce-Arrow: T14-MT14X4. Reo: T11-CT11, T14-R14X. List \$1.85

EXTENSION SHAFTS

These shafts attach to regular shafts, thus extending length to any needed size, and frequently make it possible to use standard controls for "special" jobs.

Shaft No. 441—4" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat	\$0.40
Shaft No. 442—4" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat	.40
Shaft No. 443—4" x $\frac{3}{8}$ " dia. x $\frac{3}{8}$ " flat	.40
Shaft No. 444—8" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat for 4" length	.40

SLEEVE BUSHINGS



TYPE S1—For use with standard controls.

TYPE S2—To provide bearing for switching mechanism.

List S1 S2 \$0.45 \$0.30

TYPE S3—For use with standard controls to set control back from chassis or mounting bracket. $1\frac{1}{2}$ "— $\frac{1}{8}$ " dia. for 1" unthd— $\frac{9}{8}$ " dia. for $\frac{1}{2}$ " 32 thd— $3\frac{1}{4}$ flat. List \$0.60

TYPE S4—For use with standard controls to provide $\frac{3}{8}$ " dia. bushing. $1\frac{5}{8}$ "—thd $\frac{1}{8}$ "—28 full length—1.375 dbl flat. List \$0.60

TYPE S5—For use with standard controls to provide $\frac{1}{2}$ " dia. bushing. $2\frac{1}{4}$ "— $\frac{1}{2}$ "—28 full length—.437 flat. List \$0.60

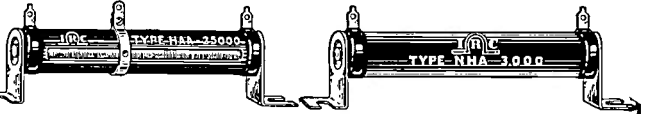
POWER RESISTORS

Preferred for Performance



"PREFERRED FOR PERFORMANCE"

Not only do these famous resistors excel electrically, but their "climate-proofed" cement coating provides the most dependable protection yet devised for resistors for heavy duty work. Both fixed and adjustable types are available. Mounting Brackets are packed with all resistors from 25 watts and up. One Adjustable Band is furnished with each adjustable resistor. The new Type X Band (described below) is included as standard on units of 25 watts and above. Extra bands supplied at prices indicated.



FIXED TYPES

10 WATTS Type AB 1 3/4" x 5/16" List \$0.58		20 WATTS Type DG (Continued) List \$0.78		50 WATTS Type EP (Continued) List \$1.58		100 WATTS Type HA 6 1/2" x 1 1/8" List \$2.03	
Ohms	Max. m. a.	Ohms	Max. m. a.	Ohms	Max. m. a.	Ohms	Max. m. a.
1	3150	150	365	3,000	120	25	2000
2	2210	200	316	4,000	105	50	1414
3	1830	250	282	5,000	95	75	1155
5	1420	300	258	6,000	85	100	1000
7.5	1150	350	238	7,000	78	150	815
10	1000	400	224	7,500	77	250	632
15	820	500	200	8,000	75	500	447
20	720	600	183	8,000	75	750	365
25	640	700	168	10,000	66	1,000	315
50	440	1,000	153	12,000	63	1,250	280
75	360	1,200	141	12,500	60	1,500	250
100	315	1,250	129	15,000	56	2,000	220
150	260	1,500	126	20,000	48	2,500	200
200	220	1,750	115	25,000	43	3,000	180
250	200	2,000	107	30,000	39	4,000	140
300	175	2,250	104	40,000	34	5,000	115
350	169	2,500	100	50,000	30	7,500	80
400	167	2,750	94	60,000	28	10,000	70
500	140	3,000	89	75,000	25	15,000	50
600	125	3,500	81	80,000	24	20,000	40
700	116	4,000	75	100,000	21	25,000	30
800	112	4,500	70	30,000	63	30,000	58
900	100	5,000	66	40,000	50	40,000	50
1,000	100	5,000	63	50,000	44	50,000	41
1,250	90	6,000	57	60,000	41	60,000	36
1,450	83	7,000	53	75,000	38	75,000	31
1,500	82	7,500	51	80,000	37	80,000	30
2,000	71	8,000	50	8,000	48	8,000	44
2,250	67	8,500	48	9,000	46	9,000	42
2,500	63	9,000	46	10,000	43	10,000	40
3,000	57	10,000	43	11,000	41	11,000	39
3,500	53	11,000	41	12,000	40	12,000	38
4,000	50	12,000	40	12,500	39	12,500	37
4,500	47	12,500	39	15,000	35	15,000	34
5,000	45	15,000	35	15,000	35	15,000	34
6,000	41	20,000	30	20,000	30	20,000	30
7,000	37	25,000	28	250	545	25	2830
7,500	36	30,000	28	500	387	50	2000
8,000	35	35,000	26	750	316	100	1414
8,500	34	35,000	23	1,000	274	250	804
9,000	33	40,000	22	1,500	223	500	632
10,000	31	50,000	20	2,000	193	750	515
11,000	30			2,500	173	1,000	447
12,000	28			3,000	158	1,500	365
12,500	28			4,000	137	2,000	316
14,800	26			5,000	122	2,500	283
15,000	25			6,000	112	3,000	258
20,000	22			7,500	100	4,000	200
25,000	20			8,000	98	5,000	163
				10,000	86	7,500	141
				15,000	70	10,000	115
				20,000	61	15,000	100
				25,000	55	20,000	90
				30,000	50	30,000	81
				40,000	43	40,000	70
				50,000	41	50,000	63
				60,000	39	60,000	57
				75,000	35	75,000	51
				100,000	31	100,000	44
				150,000	27	150,000	40
				200,000	24	200,000	37
				300,000	21	300,000	34
				400,000	19	400,000	31
				500,000	17	500,000	29
				750,000	15	750,000	27
				1,000,000	14	1,000,000	26
				1,500,000	13	1,500,000	25
				2,000,000	12	2,000,000	24
				3,000,000	11	3,000,000	23
				4,000,000	10	4,000,000	22
				5,000,000	9	5,000,000	21
				7,500,000	8	7,500,000	20
				10,000,000	7	10,000,000	19
				15,000,000	6	15,000,000	18
				20,000,000	5	20,000,000	17
				30,000,000	4	30,000,000	16
				40,000,000	3	40,000,000	15
				50,000,000	2	50,000,000	14
				75,000,000	1	75,000,000	13
				100,000,000	1	100,000,000	12

ADJUSTABLE TYPES

10 WATTS Type ABA 1 3/4" x 5/16" List \$1.20		25 WATTS Type DHA (Continued) List \$1.58		50 WATTS Type EPA (Continued) List \$2.36		100 WATTS Type HAA 6 1/2" x 1 1/8" List \$2.97	
Ohms	Max. m. a.	Ohms	Max. m. a.	Ohms	Max. m. a.	Ohms	Max. m. a.
1	3150	300	289	12,000	63	100	1000
2	2210	400	250	15,000	56	200	710
3	1830	500	224	20,000	48	400	500
5	1420	750	182	25,000	43	500	447
7.5	1150	1,000	158	30,000	39	750	365
10	1000	1,250	141	40,000	34	1,000	315
15	820	1,500	129	50,000	30	1,500	250
20	720	2,000	112	60,000	28	2,500	200
25	640	2,500	105	75,000	25	3,000	180
50	440	3,000	100	100,000	21	4,000	155
75	360	4,000	91	1,000,000	17	5,000	140
100	315	5,000	84	1,250,000	16	6,000	130
150	260	6,000	79	1,500,000	15	7,500	115
200	220	7,500	71	2,000,000	14	8,000	110
250	200	8,000	64	2,500,000	13	10,000	100
300	175	9,000	58	3,000,000	12	15,000	80
350	160	10,000	53	4,000,000	11	20,000	70
400	157	1,000,000	50	5,000,000	10	25,000	63
500	140	12,000	45	6,000,000	9	30,000	58
600	125	15,000	41	7,500,000	8	40,000	50
750	115	20,000	35	8,000,000	7	50,000	44
800	112	25,000	32	9,000,000	6	60,000	41
1,000	100	30,000	28	10,000,000	5	75,000	36
1,250	99	40,000	25	1,000,000	4	80,000	35
1,450	83	50,000	21	1,250,000	3	100,000	31
1,500	82	60,000	18	1,500,000	2	150,000	27
2,000	71	75,000	15	2,000,000	1	200,000	24
2,250	67	80,000	14	2,500,000	1	250,000	22
2,500	63	8,000	41	3,000,000	1	300,000	21
3,000	57	9,000	37	4,000,000	1	400,000	20
4,000	47	10,000	36	5,000,000	1	500,000	19
5,000	45	15,000	31	6,000,000	1	600,000	18
6,000	41	20,000	28	7,500,000	1	750,000	17
7,000	37	25,000	26	8,000,000	1	800,000	16
7,500	36	30,000	25	9,000,000	1	1,000,000	15
8,000	35	35,000	23	10,000,000	1	1,250,000	14
8,500	34	40,000	22	1,250,000	1	1,500,000	13
9,000	33	50,000	20	1,500,000	1	2,000,000	12
10,000	31	60,000	18	2,000,000	1	2,500,000	11
11,000	30	75,000	15	2,500,000	1	3,000,000	10
12,000	28	80,000	14	3,000,000	1	4,000,000	9
12,500	28	8,000	41	4,000,000	1	5,000,000	8
14,800	26	9,000	37	5,000,000	1	6,000,000	7
15,000	25	10,000	36	6,000,000	1	7,500,000	6
20,000	22	15,000	31	7,500,000	1	8,000,000	5
25,000	20	20,000	28	8,000,000	1	10,000,000	4
		25,000	26	9,000,000	1	12,500,000	3
		30,000	25	10,000,000	1	15,000,000	2
		40,000	23	1,000,000	1	20,000,000	1
		50,000	22	1,250,000	1	25,000,000	1
		60,000	20	1,500,000	1	30,000,000	1
		75,000	18	2,000,000	1	40,000,000	1
		80,000	17	2,500,000	1	50,000,000	1
		100,000	15	3,000,000	1	60,000,000	1
		150,000	14	4,000,000	1	75,000,000	1
		200,000	13	5,000,000	1	100,000,000	1
		300,000	11	6,000,000	1	150,000,000	1
		400,000	10	7,500,000	1	200,000,000	1
		500,000	9	8,000,000	1	300,000,000	1
		750,000	8	9,000,000	1	400,000,000	1
		1,000,000	7	10,000,000	1	500,000,000	1
		1,250,000	6	1,000,000	1	750,000,000	1
		1,500,000	5	1,250,000	1	1,000,000,000	1
		2,000,000	4	1,500,000	1	1,500,000,000	1
		2,500,000	3	2,000,000	1	2,000,000,000	1
		3,000,000	2	2,500,000	1	3,000,000,000	1
		4,000,000	1	3,000,000	1	4,000,000,000	1
		5,000,000	1	4,000,000	1	5,000,000,000	1
		7,500,000	1	5,000,000	1	7,500,000,000	1
		10,000,000	1	6,000,000	1	10,000,000,000	1
		15,000,000	1	7,500,000	1	15,000,000,000	1
		20,000,000	1	8,000,000	1	20,000,000,000	1
		30,000,000	1	9,000,000	1	30,000,000,000	1
		40,000,000	1	10,000,000	1	40,000,000,000	1
		50,000,000	1	1,000,000	1	50,000,000,000	1
		75,000,000	1	1,250,000	1	75,000,000,000	1
		100,000,000	1	1,500,000	1	100,000,	



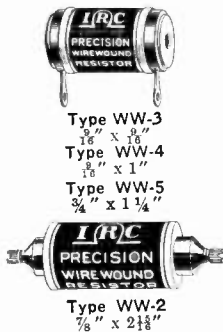
RESISTORS

Preferred for Performance

PRECISION Wire Wound RESISTORS

IRC Precision Wire Wound Resistors are scientifically designed and constructed of highest quality materials to combine the utmost in accuracy with dependability. Winding forms are of a non-hygroscopic ceramic having high insulation qualities, high mechanical strength and low-coefficient of expansion. Because of the special sectional construction which permits the winding of adjacent sections in opposite directions, a noninductive winding is made possible. Minimum temperature coefficient of .002% per degree C. now available on all IRC Resistors at no extra cost.

These units are used by the leading instrument manufacturers for dependable precision meter multipliers and shunts, decade boxes and calibrated gain controls. 1% accuracy is standard. Closer tolerances available at slightly higher prices as follows: and for 1/2% tolerance, add 10%; for 1/4% accuracy, add 15%; and for 1/10 of 1%, add 25% to list prices. Tolerances of 1/10 of 1% are measured to new International Ohm, and so indicated on label.



Type WW-3
3/8" x 3/8"

Type WW-4
1/8" x 1"

Type WW-5
3/4" x 1 1/4"

Type WW-2
7/8" x 2 1/8"

TYPES WW3, WW4, WW5

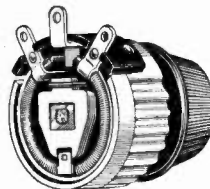
	List Price
0.1, 0.2 and 1. ohm	\$1.75
10, 25, 50, 100, 200, 250, 300, 500, 1,000, 1,500, 2,000 and 2,500 ohms	1.70
4,000, 5,000, 7,500, 10,000, 12,500 and 15,000 ohms	1.75
20,000, 22,500, 25,000, 30,000, 40,000 and 50,000 ohms	1.90
60,000 and 75,000 ohms	2.25
0.1 megohm	2.45
0.125 and 0.15 megohms	2.80
0.175 and 0.2 megohms	3.20
0.225 and 0.25 megohms	3.50
0.3 megohms	3.80
0.4 megohms	4.70
0.5 megohms	5.00
0.6 megohms	6.35
0.75 megohms	7.50
0.9 megohms	8.65
1.0 megohms	9.35

Note—Minimum stock range: WW3—1 ohm WW5—0.6 megohms.
Maximum stock range: WW3—0.15 megohms;
WW4—0.5 megohms.

TYPE WW2

	List Price
0.6 megohms	\$ 7.00
0.75 megohms	7.65
0.9 megohms	9.00
1.0 megohms	9.65
1.5 megohms	15.35
2.0 megohms	20.00
2.5 megohms	24.20

ALL-METAL RHEOSTATS



PR-25 (25 Watts)
1 1/4" diam. Depth
behind panel, 3/4"

PR-50 (50 Watts)
2 3/8" diam. Depth
behind panel, 1 3/8"

Operating temperatures are cut almost in half by the unique, all-metal aluminum construction of these new IRC Rheostats. They dissipate heat more rapidly—give ample safety factor. Ratings based on hottest spot temp. rise of only 140 degrees C. with max. load distributed over entire element. With full load applied to as little as 25% of element, rise is only 160 degrees C. Exclusive IRC Spiral Connector gives positive contact between rotor arm and center terminal.

PR-25—25 Watts

Ohms	Max. m.a.	List Price
1	5,000	\$5.85
2	3,450	5.20
3	2,880	5.20
6	2,040	5.20
8	1,770	5.20
10	1,580	5.20
15	1,290	5.20
25	1,000	5.20
35	845	5.20
50	709	5.20
75	575	5.20
100	500	5.20
125	445	5.20
175	375	5.20
250	315	5.20
350	267	5.20
500	222	5.20
750	173	5.20
1,000	155	5.85
1,500	129	5.85
2,500	100	5.85
3,500	84	6.18
5,000	70	6.18

PR-50—50 Watts

Ohms	Max. m.a.	List Price
0.5	10,000	\$6.50
1	7,070	6.50
2	5,000	5.85
4	3,520	5.85
6	2,880	5.85
8	2,500	5.85
12	2,040	5.85
16	1,770	5.85
22	1,500	5.85
35	1,190	5.85
50	1,000	5.85
80	790	5.85
125	630	5.85
150	575	5.85
225	470	5.85
300	407	5.85
500	315	5.85
800	250	6.18
1,000	223	6.18
1,800	177	6.18
2,500	140	6.18
3,500	120	6.50
5,000	100	6.50
8,000	79	6.50
10,000	70	6.50

Type NAB Parasitic Suppressors

IRC Type NAB Non-Inductive Wire Wound Resistors are designed for use, one in each grid of audio driver or power amplifier tubes when paralleled, to prevent parasitic oscillations. 10 watts.



Type NAB—50 ohms.
List \$1.20 each

Bleeder Resistor

Type M-1034—25,000 ohms, overall resistance, tapped at 7,500, 10,000, 12,500 and 15,000 ohms. 18 watts rating attached flat to chassis, 9 watts free air rating. Used as bleeder in any power supply up to 500 volts. Sealed in bakelite and insulated for 1,000 volts to ground. Bracket supplied.



M-1034—IRC Bleeder Resistor..... List \$1.25 each

Center Tap Insulated Wire Wounds

Completely enclosed in molded bakelite and capable of standing high temperatures. Due to high power rating, these resistors may be used in balancing circuits for radio receivers or transmitters. They will carry up to five watts if mounted on chassis, using the detachable mounting bracket and heat-dissipating metal strip; or two and one-half watts if mounted in open air. May be mounted anywhere without danger to units from heat or grounding. Dimensions: Length of molded unit 2". With bracket mounting centers 2 1/2". Six standard ranges: 10 ohms, 0 ohms, 50 ohms, 75 ohms, 100 ohms and 200 ohms.



Type MW-2J—Center Tap Resistors..... List 35c each

Type MC and MCB Suppressors



IRC Suppressors are designed for the elimination of ignition noise in automobile and motorboat radio installations—and oil burner interference in home receivers.

Either Type List 30c

Printed in U.S.A.

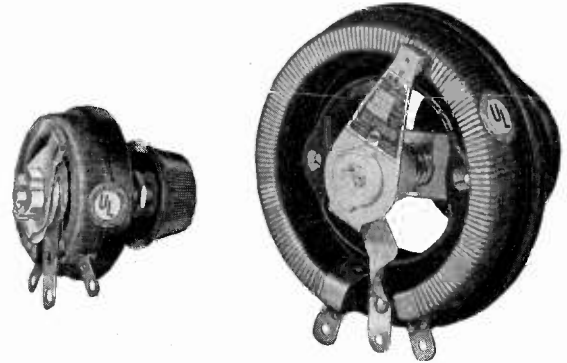
BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE RHEOSTATS

All-Porcelain — Vitreous-Enameled

The design and construction of these sturdy, compact Ohmite Rheostats insure permanently smooth, gradual, close control. The wire is wound over a porcelain core, bonded to porcelain base, and permanently locked in place by special Ohmite Vitreous Enamel. Nothing to smoke, char, shrink, or shift. Dissipates heat rapidly. Insulated shafts and bushings. Copper graphite contacts. Ratings are for "free air" use. Time-proved through long trouble-free service in countless installations the world over. Underwriters' Laboratories Listed.



MODEL "H" 25 Watt
Diameter 1 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0140	1	5,000	\$5.85	0152	125	445	\$5.20
0141	2	3,540	5.20	0153	175	375	5.20
0142	3	2,880	5.20	0154	250	316	5.20
0143	6	2,040	5.20	0155	350	267	5.20
0144	8	1,770	5.20	0156	500	222	5.20
0145	10	1,580	5.20	0157	750	182	5.20
0146	15	1,290	5.20	0158	1,000	155	5.85
0147	25	1,000	5.20	0159	1,500	129	5.85
0148	35	845	5.20	0160	2,500	100	5.85
0149	50	707	5.20	0161	3,500	84	6.18
0150	75	575	5.20	0162	5,000	70	6.18
0151	100	500	5.20				

MODEL "J" 50 Watt
Diameter 2 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0308	0.5	10,000	\$6.50	0321	150	575	\$5.85
0309	1	7,070	6.50	0322	225	470	5.85
0310	2	5,000	6.50	0323	300	408	5.85
0311	4	3,530	5.85	0324	500	316	5.85
0312	6	2,880	5.85	0325	800	250	6.18
0313	8	2,500	5.85	0326	1,000	221	6.18
0314	12	2,040	5.85	0327	1,600	176	6.18
0315	16	1,760	5.85	0328	2,500	141	6.18
0316	22	1,500	5.85	0329	3,500	119	6.50
0317	35	1,190	5.85	0330	5,000	100	6.50
0318	50	1,000	5.85	0331	8,000	79	6.50
0319	80	790	5.85	0332	10,000	70	6.50
0320	125	630	5.85				

DIRECTION INDICATOR POTENTIOMETER—MODEL RB-2



A compact, low cost unit which is used in a simple 6 volt potentiometer circuit as a transmitting element, to indicate, remotely the position of a rotary beam antenna, or other device. The indicating meter can be any ordinary 0-1 M.A., 0-1.5 M.A. or 0-2 M.A. direct current milliammeter (with marked scale). The potentiometer is 2-5/16" in diameter and extends 1 3/8" behind the mounting surface. Single hole mounted by means of a 3/8-32 threaded bushing. Complete 360° rotation.

Stock No. RB-2, Potentiometer

List Price\$8.13

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

MODEL "K" 100 Watt
Diameter 3 1/8". Depth behind panel 1 3/4"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0440	0.5	14,100	\$9.75	0452	200	707	\$9.10
0441	1	10,000	9.75	0453	300	575	9.10
0442	2	7,070	9.75	0454	400	500	9.10
0443	3	5,750	9.75	0455	500	447	9.10
0444	5	4,470	9.75	0456	750	365	9.10
0445	7.5	3,650	9.10	0457	1,000	316	9.75
0446	10	3,160	9.10	0458	1,500	258	9.75
0447	16	2,500	9.10	0459	2,000	224	9.75
0448	25	2,000	9.10	0460	2,500	200	9.75
0449	50	1,410	9.10	0461	5,000	141	10.40
0450	75	1,150	9.10	0462	7,500	115	11.05
0451	100	1,000	9.10	0463	10,000	100	11.70

MODEL "L" 150 Watt
Diameter 4". Depth behind panel 2"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0524	0.5	17,300	\$12.35	0537	150	1,000	\$11.70
0525	1	12,300	12.35	0538	200	865	11.70
0526	2	8,650	12.35	0539	250	775	11.70
0527	3	7,070	12.35	0540	350	655	11.70
0528	5	5,480	12.35	0541	500	548	11.70
0529	7.5	4,470	12.35	0542	750	447	12.35
0530	10	3,880	11.70	0543	1,250	346	12.35
0531	15	3,163	11.70	0544	1,800	288	13.00
0532	25	2,450	11.70	0545	2,250	259	13.00
0533	35	2,070	11.70	0546	3,000	224	13.00
0534	50	1,735	11.70	0547	4,500	182	13.65
0535	75	1,415	11.70	0548	7,500	141	14.30
0536	100	1,225	11.70	0549	10,000	122	15.60

MODEL "N" 300 Watt
Diameter 6". Depth behind panel 2 3/8"

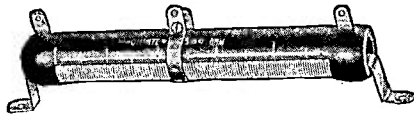
Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0650	1	17,320	\$17.55	0661	100	1,730	\$17.55
0651	2	12,240	17.55	0662	150	1,410	17.55
0652	3	10,000	17.55	0663	200	1,220	17.55
0653	4	8,660	17.55	0664	300	1,000	17.55
0654	5	7,750	17.55	0665	400	866	17.55
0655	7.5	6,320	17.55	0666	700	655	17.55
0656	10	5,480	17.55	0667	900	578	17.55
0657	15	4,470	17.55	0668	1,200	500	17.55
0658	25	3,460	17.55	0669	1,500	447	17.55
0659	50	2,450	17.55	0670	1,750	414	17.55
0660	75	2,000	17.55	0671	2,500	346	17.55

OTHER OHMITE RHEOSTATS

Ohmite Rheostats are also available in Model G, 75 Watt; Model P, 225 Watt; Model R, 500 Watt; Model T, 750 Watt; and Model U, 1,000 Watt units, in many resistance values. Special Rheostats with tapered windings, etc., can be supplied; also Special Rheostats for Model Train Control. Cages and other accessories also available.

OHMITE DIVIDOHM RESISTORS

OHMITE FIXED RESISTORS



All-Porcelain
Vitreous-Enameled



You can adjust the resistance or secure odd resistance values quickly with these Dividohms; easily put on more taps where needed. Ideal voltage dividers. With one adjustable lug and with mounting brackets.

Extra-sturdy, wire-wound, all-porcelain resistors with the permanent protection of Ohmite Vitreous Enamel. Widely used for heavy duty applications to assure continuous trouble-free service. With mounting brackets.

10 WATTS					
Core Size 1 3/4" x 3/8"			Mounting Centers 2 1/4"		
Adjustable Res.			Adjustable Res.		
Res. Ohms	Max. Mils.	Stock No.	Res. Ohms	Max. Mils.	Stock No.
1	3,150	1001	750	115	1021
2	2,235	1002	800	111	1022
3	1,825	1003	1,000	100	1023
5	1,415	1004	1,250	89	1024
7.5	1,155	1005	1,500	79	1025
10	1,000	1006	2,000	69	1026
15	816	1007	2,250	64	1027
20	707	1008	2,500	63	1028
25	632	1009	3,000	56	1029
50	447	1010	3,500	51	1030
75	365	1011	4,000	47	1031
100	316	1012	4,500	45	1032
150	258	1013	5,000	43	1033
200	223	1014	6,000	38	1034
250	200	1015	7,000	34	1035
300	182	1016	7,500	33	1036
350	169	1017	8,000	31	1037
400	158	1018	8,500	29	1038
500	141	1019	9,000	28	1039
600	129	1020	10,000	26	1040

List Price, 1 to 1000 ohms \$1.20
List Price, 1,250 to 5,000 ohms 1.25
List Price, 6,000 to 10,000 ohms 1.33

25 WATTS					
Core Size 2" x 3/8"			Mounting Centers 2 3/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
1	5,000	0200J	\$0.80	0360	\$1.56
2	3,535	0200K	.80	0360B	1.56
3	2,885	0200L	.80	0361	1.56
5	2,235	0200A	.80	0362	1.56
7.5	1,825			0362B	1.56
10	1,580	0200B	.80	0363	1.56
15	1,290	0200R	.80	0364	1.56
20	1,117			0364B	1.56
25	1,000	0200C	.80	0365	1.56
50	707	0200D	.80	0366	1.56
75	577	0200E	.80	0367	1.56
100	500	0200F	.80	0368	1.56
150	408	0200G	.80	0369	1.56
200	353	0200H	.80	0370	1.56
250	316	0201	.80	0371	1.56
300	288			0371B	1.56
400	250			0371C	1.56
500	223	0202	.80	0372	1.56
750	182	0203	.80	0373	1.56
800	176	0204	.80	0374	1.56
1,000	158	0205	.80	0375	1.56
1,250	141			0375B	1.58
1,500	129	0206	.86	0376	1.58
2,000	111	0207	.86	0377	1.58
2,250	105			0377B	1.58
2,500	100	0208	.86	0378	1.58
3,000	91	0209	.86	0379	1.58
3,500	84	0210	.86	0380	1.58
4,000	79	0211	.86	0381	1.58
4,500	74			0381B	1.58
5,000	70	0212	.86	0382	1.58
6,000	64	0213	.94	0383	1.70
7,000	60			0383B	1.70
7,200	59			0383C	1.70
7,500	57	0214	.94	0384	1.70
8,000	55			0384B	1.70
9,000	52			0384C	1.70
10,000	50	0215	.94	0385	1.70
12,000	42	0216	1.00	0386	1.75
15,000	34	0217	1.00	0387	1.75
20,000	26	0218	1.00	0388	1.75
25,000	21	0219	1.13	0389	1.89
40,000	14	0222	1.13		
50,000	12	0224	1.30		
100,000	7	0229	1.74		

50 WATTS					
Core Size 4" x 3/8"			Mounting Centers 4 3/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	3,160	0400A	\$1.37	0560	\$1.97
10	2,235	0400B	1.37	0561	1.97
25	1,414	0400C	1.37	0562	1.97
50	1,000	0400D	1.37	0563	1.97
75	816	0400E	1.37	0564	1.97
100	707	0400F	1.37	0565	1.97
150	577	0400G	1.37	0566	1.97
200	500	0400H	1.37	0567	1.97
250	447	0401	1.37	0568	1.57
300	408			0568B	1.97
400	353			0568C	1.97
500	316	0402	1.37	0569	1.97
750	258	0403	1.37	0570	1.97
1,000	223	0405	1.37	0572	1.97
1,250	200			0572B	2.05
1,500	182	0406	1.45	0573	2.05
2,000	158	0407	1.45	0574	2.05
2,500	141	0408	1.45	0575	2.05
3,000	129	0409	1.45	0576	2.05
3,500	119			0576B	2.05
4,000	111	0410	1.45	0577	2.05
4,500	105			0577B	2.05
5,000	100	0411	1.45	0578	2.05
6,000	91			0578B	2.19
7,000	84			0578C	2.19
7,500	81	0412	1.58	0579	2.19
8,000	79	0413	1.58	0580	2.19
9,000	74			0580B	2.19
10,000	70	0414	1.58	0581	2.19
12,000	64	0415	1.75	0582	2.36
15,000	57	0416	1.75	0583	2.36
20,000	48	0417	1.75	0584	2.36
25,000	41	0418	1.95	0585	2.55
30,000	36			0586	2.55
35,000	32	0419	1.95		
40,000	28			0587	2.55
50,000	23	0420	2.14	0588	2.75
60,000	19			0589	2.75
75,000	16	0421	2.45		
80,000	15			0590	3.06
100,000	12	0422	2.65	0591	3.25

List Price, 5 to 1,000 ohms \$2.27
List Price, 1,250 to 5,000 ohms 2.36
List Price, 6,000 to 10,000 ohms 2.50
List Price, 12,000 to 20,000 ohms 2.65
List Price, 25,000 to 40,000 ohms 2.92
List Price, 45,000 to 60,000 ohms 3.00
List Price, 80,000 ohms 3.28
List Price, 100,000 ohms 3.61

75 WATTS					
Core Size 6" x 3/8"			Mounting Centers 6 3/4"		
Res. Ohms	Max. Mils.	Adjustable Res.		Adjustable Res.	
		Stock No.	List Price	Stock No.	List Price
5	3,870	0769	5,000	122	0783
10	2,735	0770	6,000	111	0783B
15	2,236	0771	7,000	103	0783C
25	1,732	0772	7,500	100	0784
50	1,224	0773	8,000	96	0784B
100	866	0774	9,000	91	0784C
200	612	0774B	10,000	86	0785
250	547	0775	12,000	79	0785B
300	500	0775B	15,000	70	0786
400	433	0775C	20,000	61	0787
500	387	0776	25,000	49	0788
750	316	0777	30,000	42	0789
1,000	273	0778	35,000	36	0790
1,250	245	0778B	40,000	32	0791
1,500	223	0779	45,000	29	0792
2,000	193	0780	50,000	26	0793
2,500	173	0781	60,000	22	0794
3,000	158	0781B	80,000	17	0795
3,500	146	0782	100,000	13	0796
4,000	136	0782B			

List Price, 5 to 1,000 ohms \$2.27
List Price, 1,250 to 5,000 ohms 2.36
List Price, 6,000 to 10,000 ohms 2.50
List Price, 12,000 to 20,000 ohms 2.65
List Price, 25,000 to 40,000 ohms 2.92
List Price, 45,000 to 60,000 ohms 3.00
List Price, 80,000 ohms 3.28
List Price, 100,000 ohms 3.61

100 WATTS					
Core Size 6 1/2" x 3/4"			Mounting Centers 7 3/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	4,470	0600A	\$2.03	0956	\$2.97
10	3,160	0600B	2.03	0957	2.97
25	2,000	0601	2.03	0958	2.97
50	1,414	0602	2.03	0959	2.97
75	1,153	0603	2.03		
100	1,000	0604	2.03	0960	2.97
150	816	0605	2.03		
250	632	0606	2.03	0960B	2.97
500	447	0607	2.03	0961	2.97
750	365	0608	2.03		
1,000	316	0609	2.03	0962	2.97
1,500	258	0610	2.08	0962B	3.05
2,000	223	0611	2.08		
2,500	200	0612	2.08	0963	3.05
3,000	182	0613	2.08		
5,000	141	0614	2.08	0964	3.05
7,500	115	0615	2.25		
10,000	100	0616	2.25	0965	3.22
15,000	81	0617	2.47	0966	3.42
20,000	70	0618	2.47	0967	3.42
25,000	53	0619	2.67	0968	3.64
30,000	47	0620	2.67	0969	3.64
40,000	36	0621	2.67	0970	3.64
50,000	29	0622	2.81	0971	3.78
60,000	24	0623	2.81		
75,000	19	0624	3.00	0972	3.97
100,000	15	0625	3.17	0973	4.13

160 Watt Resistors—Core Size 8 1/2" x 1 1/2". Mounting Centers 9 3/4" available in same resistances as the 200 Watt Resistors.		
Ohms	Fixed Res. List Price	Adj. Res. List Price
5	\$3.47	\$4.45
10 to 1,000	2.48	3.45
1,500 to 5,000	2.53	3.50
7,500 & 10,000	2.75	3.70
15,000 & 20,000	2.95	3.92
20,000 to 40,000	3.03	4.00
50,000 & 60,000	3.13	4.12
75,000	3.36	4.30
100,000	3.55	4.53

200 WATTS					
Core Size 10 1/2" x 1 1/2"			Mounting Centers 11 3/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	6,320	0900A	\$3.75	1356	\$4.72
10	4,470	0900B	2.70	1357	3.64
25	2,828	0901	2.70	1358	3.64
50	2,000	0902	2.70	1359	3.64
75	1,635	0903	2.70		
100	1,414	0904	2.70	1360	3.64
150	1,153	0905	2.70		
250	894	0906	2.70	1360B	3.61
500	632	0907	2.70	1361	3.64
750	516	0908	2.70		
1,000	447	0909	2.70	1362	3.64
1,500	365	0910	2.75	1362B	3.70
2,000	316	0911	2.75		
2,500	283	0912	2.75	1363	3.70
3,000	258	0913	2.75		
5,000	200	0914	2.75	1364	3.70
7,500	163	0915	2.95		
10,000	141	0916	2.95	1365	

RHEOSTATS • RESISTORS • TAP SWITCHES

Popular OHMITE "BROWN DEVIL" RESISTORS



5 Watt—1" x 5/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	2,236	125	200	1,250	63
1.5	1,820	150	182	1,500	57
2	1,580	200	158	1,750	53
3	1,290	225	149	2,000	49
4	1,120	250	141	2,250	46
5	1,000	300	129	2,500	44
7.5	818	350	120	3,000	39
10	707	400	112	3,500	36
12	645	450	105	4,000	33
15	575	500	100	4,500	31
20	500	600	91	5,000	29
25	447	700	84	6,000	26
30	408	750	81	7,000	24
35	378	800	79	7,500	22
40	353	900	74	8,000	21
50	316	1,000	70	9,000	19
75	258	1,100	67	10,000	18
100	224	1,200	64		

List Price, 1 to 1,000 ohms \$0.53
 List Price, 1,100 to 5,000 ohms57
 List Price, 6,000 to 10,000 ohms61

10 Watt—1 3/4" x 5/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	3,160	350	169	6,000	38
2	2,235	400	158	7,000	34
3	1,825	450	149	7,500	32
4	1,580	500	141	8,000	31
5	1,414	600	129	8,500	29
7.5	1,155	700	119	10,000	26
10	1,000	750	115	11,000	24
12	910	800	111	12,000	23
15	816	900	105	12,500	22
20	707	1,000	100	13,500	21
25	632	1,100	95	14,300	20
30	575	1,200	91	15,000	19
35	535	1,250	89	16,000	18
40	500	1,500	79	17,500	17
50	447	1,750	74	18,000	17
75	365	2,000	69	20,000	16
100	316	2,250	64	22,500	15
125	283	2,500	63	25,000	14
150	258	3,000	56	*30,000	8
200	223	3,500	51	*35,000	7
225	217	4,000	47	*40,000	7
250	200	4,500	45	*45,000	6
300	182	5,000	43	*50,000	6

List Price, 1 to 1,000 ohms \$0.58
 List Price, 1,100 to 5,000 ohms63
 List Price, 6,000 to 10,000 ohms72
 List Price, 11,000 to 20,000 ohms80
 List Price, 22,500 & 25,000 ohms86
 List Price, 30,000 to 50,000 ohms97

*The units marked with an asterisk are coated with a low temperature enamel.

RITEOHM SERIES "84" PRECISION RESISTORS

Ohms	Max. Voltage	Ohms	Max. Voltage	Ohms	Max. Voltage
*0.1	.316	4,000	44.70	.125 Meg.	200
0.5	.500	5,000	50.00	.150 Meg.	200
1	.707	7,500	61.20	.175 Meg.	200
10	2.24	10,000	70.70	.200 Meg.	200
25	3.54	12,500	79.00	*.225 Meg.	400
50	5.00	15,000	86.60	*.250 Meg.	400
100	7.07	20,000	100	*.300 Meg.	400
200	10.00	22,560	106	*.400 Meg.	400
250	11.20	25,000	112	†.500 Meg.	400
300	12.20	30,000	122	†.600 Meg.	400
500	15.80	40,000	141	†.750 Meg.	400
1000	22.40	50,000	158	†.900 Meg.	400
1500	27.40	60,000	173	†1.0 Meg.	400
2000	31.60	75,000	194	†1.5 Meg.	400
2500	35.40	1 Meg.	200		

*Type 844-A 4 Pie—1 Watt Size 3/8" x 1 3/8"
 †Type 844-B 4 Pie—1 Watt Size 3/4" x 1 3/8"
 All others Type 842-A 2 Pie—1/2 Watt Size 3/8" x 3/8"

High quality, small size, wire-wound resistors ideal for voltage dropping, bias units, bleeders, etc. They're extra-sturdy, all-ceramic, vitreous enameled. They give time-proved protection against shock, vibration, heat and humidity. Their long record of continuous trouble-free service—their wide use in all climates of the world—prove their complete reliability and economy. All units can be conveniently mounted by means of their 1 1/2" tinned wire leads. The standard resistance tolerance is ±10%.

The all-welded construction of the 5 watt unit makes it possible to extend the resistance range to 10,000 ohms, an unusually high value for a vitreous enameled stock unit.

20 Watt—2" x 7/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
5	2,000	1,250	126	15,000	30
10	1,414	1,500	115	20,000	24
25	894	1,750	107	25,000	20
50	632	1,850	104	30,000	17
75	516	2,000	100	35,000	15
100	447	2,250	94	40,000	14
150	365	2,400	91	45,000	13
200	316	2,500	89	50,000	12
250	283	2,750	85	*55,000	8.0
300	258	3,000	81	*60,000	8.0
350	239	3,500	75	*65,000	7.0
400	223	4,000	70	*70,000	7.0
500	200	4,500	66	*75,000	7.0
650	175	5,000	63	*80,000	7.0
700	169	6,000	57	*85,000	6.0
750	163	7,000	53	*90,000	6.0
800	158	7,500	51	*95,000	6.0
850	153	8,000	50	*100,000	6.0
1,000	141	10,000	43		
1,200	129	12,500	35		

List Price, 5 to 1,000 ohms \$0.75
 List Price, 1,200 to 5,000 ohms78
 List Price, 6,000 to 10,000 ohms88
 List Price, 12,500 to 20,000 ohms94
 List Price, 25,000 to 40,000 ohms 1.08
 List Price, 45,000 to 60,000 ohms 1.25
 List Price, 65,000 to 80,000 ohms 1.46
 List Price, 85,000 to 100,000 ohms 1.69

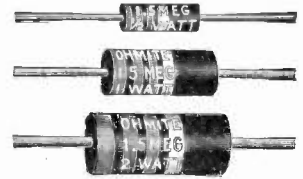


High quality, 1% tolerance, 1 watt, non-inductive, pie-wound units for meter multipliers, lab. equipment, etc.

Ohms	List Price	Ohms	List Price
0.1 to 500	\$1.11	.225 to .25 Meg.	\$3.38
1,000 to 2,500	1.17	.3 megohm	3.71
4,000 to 10,000	1.30	.4 megohm	3.90
12,500 to 15,000	1.43	.5 megohm	4.42
20,000 to 50,000	1.76	.6 megohm	5.53
60,000 to 75,000	2.08	.75 megohm	5.85
.1 megohm	2.41	.9 megohm	6.18
.125 megohm	2.73	1.0 megohm	6.83
15 to .2 megohm	3.06	1.5 megohm	9.75

Complete Listings in Bulletin 126

OHMITE "LITTLE DEVIL" RESISTORS



Ohmite "LITTLE DEVILS" are full 1/2 Watt, 1 Watt and 2 Watt Insulated Composition Resistors and can be used at their full wattage ratings at 70° C. (158° F.) ambient temperature. They meet requirements of specification JAN-R-11. All units are color coded. Each resistor is marked with the resistance value, wattage rating and the Ohmite trade-mark. "LITTLE DEVILS" are available from stock in 1/2, 1 and 2 watt sizes with ±10% or ±5% tolerance. The standard RMA values, 10 ohms to 22 megohms can be furnished.

±10% Tolerance — RMA Values

Ohms	Ohms	Ohms	Ohms	Megohms
*2.7	68	1,800	47,000	1.2
*3.3	82	2,200	56,000	1.5
*3.9	100	2,700	68,000	1.8
*4.7	120	3,300	82,000	2.2
*5.6	150	3,900	0.1 Meg.	2.7
*6.8	180	4,700	0.12 Meg.	3.3
*8.2	220	5,600	0.15 Meg.	3.9
10	270	6,800	0.18 Meg.	4.7
12	330	8,200	0.22 Meg.	5.6
15	390	10,000	0.27 Meg.	6.8
18	470	12,000	0.33 Meg.	8.2
22	560	15,000	0.39 Meg.	10.0
27	680	18,000	0.47 Meg.	12.0
33	820	22,000	0.56 Meg.	15.0
39	1,000	27,000	0.68 Meg.	18.0
47	1,200	33,000	0.82 Meg.	22.0
56	1,500	39,000	1.00 Meg.	

*1 Watt Size Only.

Type	Size Length Diam.	Maximum Volts	List Price
1/2 Watt	3/8" x 3/8"	350	\$0.17
1 Watt	1" x 3/8"	500	.25
2 Watt	1 1/8" x 1/2"	1000	.33

New! 125 "LITTLEDEVILS" IN PLASTIC CABINET



Serviceman's assortment of 125 Ohmite "Little Devil," 1/2-watt, insulated composition resistors, in the 40 values (10 ohms to 10 megohms) most frequently used by servicemen. The assortment is offered at the price of the resistors alone—the cabinet is furnished without extra cost!

Stock No. CAB-1 Net Price, \$12.50

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

2 WATT MOLDED COMPOSITION POTENTIOMETER—TYPE AB

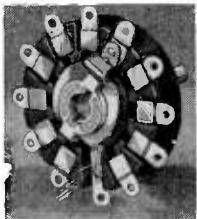


The Type AB Potentiometer is an exceptionally high quality unit designed especially for industrial, laboratory, radio service and other uses where reliability is particularly important. Because the resistor element is molded, the unit has an exceptionally large safety factor. The power rating of 2 watts is unusual for a unit of such small size. The unit has a very low noise level and low voltage coefficient. It will pass the Army-Navy 200 hour salt spray test, specification AN-QQ-S-91. The unit is 1 1/16" diameter and extends 9/16" behind the panel. The standard shaft length is 2" including the 3/8" long mounting bushing. A SPST switch, to be attached to the back of the control, can be supplied extra.

Total Resistance ±10% Except as Noted	Resistance Rotation Characteristics (Taper)		
	Type U Linear Stock No.	Type A Clockwise Log. Stock No.	Type B Counterclock. Log. Stock No.
50 Ohms	CU 5001		
100 Ohms	CU 1011		
250 Ohms	CU 2511		
500 Ohms	CU 5011		
1,000 Ohms	CU 1021		
2,500 Ohms	CU 2521		
5,000 Ohms	CU 5021		
10,000 Ohms	CU 1031		CB 1031
25,000 Ohms	CU 2531		CB 2531
50,000 Ohms	CU 5031		CB 5031
.10 Meg.	CU 1041	CA 1041	
.25 Meg.	CU 2541	CA 2541	
.5 Meg.	CU 5041	CA 5041	
1.0 Meg. ±20%	CU 1052	CA 1052	
2.5 Meg. ±20%	CU 2552	CA 2552	
5.0 Meg. ±20%	CU 5052		

Type AB Potentiometer..... List Price \$3.00
Stock No. CS-1, Switch only for above unit (supplied unmounted)..... List Price .90

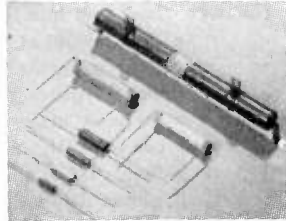
NON-SHORTING TYPE ROTARY POWER TAP SWITCH



Single-pole, multi-position switch with all-ceramic insulation, silver-to-silver contacts and "slow-break" action designed especially for alternating current. Switch shaft is electrically "dead". A.C. rating 10 amps., 150 volts. Diameter 1 3/4" —Depth behind panel 1 1/8" —Shaft diameter 1/4" — Recommended knob, stock number 4500 (round type) or 4516 (bar type).

Number of Taps	Total Rotation	Stock Number	List Price Less Knob
11	300°	111-11	3.90
10	270°	111-10	3.77
9	240°	111-9	3.77
8	210°	111-8	3.64
7	180°	111-7	3.64
6	150°	111-6	3.51
5	120°	111-5	3.51
4	90°	111-4	3.38
3	60°	111-3	3.38
2	30°	111-2	3.38

OHMITE R.F. PLATE CHOKES



The new series of seven Ohmite single layer wound solenoid radio frequency plate chokes covers the entire frequency range of 3 to 520 megacycles. The new chokes replace the former series of chokes, Z-0, Z-1, Z-2, and Z-3 with units that accomplish

the same results but are much smaller in physical size with one exception, the new Z-7 choke, which is identical to the former Z-3, the number only having been changed.

The four highest frequency chokes are wound on low power factor plastic cores while the other three units are wound on steatite tubes. Windings are insulated and protected by a moisture-proof coating. The single layer winding is designed to avoid adverse harmonic effects within the recommended operating range and also prevents breakdown from high r.f. potentials.

Stock Number	Operating Range Megacycles	Micro-henries	Core Dimension	List Price
Z-7	3 to 20 Mc.	84.0	6" x 3/16"	\$1.56
Z-14	7 to 35 Mc.	44.0	2" x 1/16"	.68
Z-28	20 to 60 Mc.	21.0	1 3/4" x 3/16"	.44
Z-50	35 to 110 Mc.	7.0	1 1/2" x 3/32"	.33
Z-144	80 to 200 Mc.	1.8	3/4" x 3/16"	.33
Z-235	160 to 350 Mc.	0.84	3/4" x 3/16"	.33
Z-460	320 to 520 Mc.	0.20	1/2" x 5/32"	.33

Non-magnetic Brackets Furnished with Z-7.

All chokes 1000 ma. rating except Z-14 and Z-28. These are rated at 600 ma.

OHMITE POWER LINE CHOKES



Prevents high-frequency currents of radio transmitters, diathermy and therapeutic equipment from going out over the power lines and interfering with nearby radio receiving sets. Used as a filter in connection with two grounding condensers of 0.1 microfarad capacity each. The Z-20 Choke is also used at radio receivers to keep out interference. All chokes consist of two single-layer windings on a single ceramic core—insulated and protected by moisture-proof coating. Recommended for use in suppressing radio (not audio) frequency interference.

Stock No.	Micro-henries	Current Rating	Total D.C. Resistance Ohms	Tube Lgth.	Tube Dia.	List Price
Z-20	14	5 Amperes	0.15	4"	1 1/8"	\$2.15
Z-21	15	10 Amperes	0.07	6 1/2"	3/4"	3.58
Z-22	18	20 Amperes	0.045	8 1/2"	1 1/8"	5.20

NEW OHM'S LAW CALCULATOR

Pocket Size



Solves Ohm's Law problems with only one setting of the slide. No decimal points to cause confusion—all values are direct reading. Requires no slide rule knowledge.

Ohmite Ohm's Law Calculator... NET Price \$0.25

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

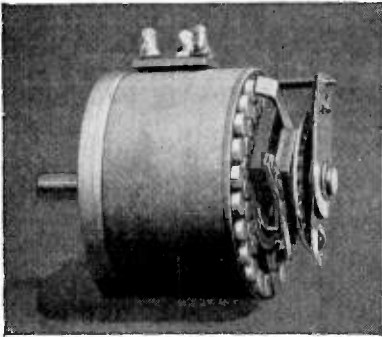
ELECTRICAL
INSTRUMENTS

RESISTORS
VARIABLE
ATTENUATORS
SWITCHES

SHALLCROSS MANUFACTURING CO.

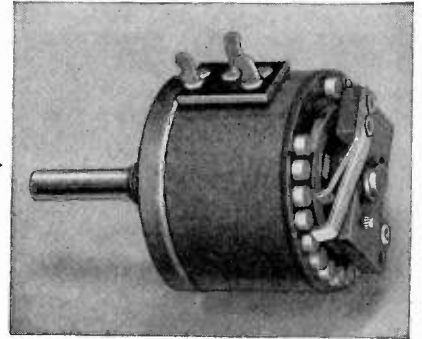
COLLINGDALE, PENNSYLVANIA

SHALLCROSS AUDIO ATTENUATORS



SHALLCROSS
ATTENUATOR
NO.
420-2B2

SHALLCROSS
ATTENUATOR
NO.
C720-2A3



These Shallcross Features Mean

- ✓ BETTER PERFORMANCE
- ✓ BIGGER VALUE

- ✓ Off position attenuation well in excess of 100 db.
- ✓ 25% to 50% fewer soldered joints.
- ✓ Noise level ratings that are factual. (130 db or more below zero level).
- ✓ Non-inductive Shallcross precision resistors used throughout assure flat attenuation to and beyond 30 kc.
- ✓ Types and sizes engineered for all needs. Attenuation accuracies of 1%, resistor accuracies of 0.1%, on special order.

Shallcross Audio Attenuators are available in either variable or fixed units, the former often being referred to as a "control" and the latter, as a "pad".

Controls are available with as few as 5 steps or as many as 52 steps with an attenuation as small as 0.1 db per step. The total attenuation for a single control does not exceed about 125 db since such high attenuation approaches the noise level of the switching mechanism.

The complete story of Shallcross attenuators may be found in Shallcross Engineering Bulletin #4, copies of which are available on request. Specifications and prices are given below for a few of the most popular variable attenuators.

IMPEDANCE: 150, 500, 250/500, 600 ohms, except potentiometers, which are 100,000 and 250,000 ohms.

RESISTORS: All non-inductively wirewound, $\pm 5\%$ tolerance, except types preceded with "C", which are composition selected to $\pm 5\%$.

ATTENUATION: Increases for counter-clockwise rotation of knob end of shaft.

FREQUENCY RESPONSE: Flat over entire audio range.

SWITCH MECHANISM: Multi-leaf wiper arms collector rings and contacts available in tarnish resistant silver alloy or brass. Noise level -130 db.

DETENT: Indexing mechanism available on any unit for \$0.50 list. Back of panel depth is then increased 5/16".

DIALS: \$1.00 list each additional.

KNOBS (VA-16906): \$0.50 list each additional.

120-2A3
\$8.00 silver
7.00 brass
Ladder attenuator, 20 steps, 2 db per step, tapered on last 3 steps to off. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing or two hole, 6-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $1\frac{3}{4}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

C720-2A3
\$8.00 silver
7.00 brass
Potentiometer, 20 steps, 2 db per step, tapered on last 3 steps to off. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing or two hole, 6-32 screws, $1\frac{3}{4}$ " centers. DIMENSIONS: $1\frac{3}{4}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

132-1.5B3
\$13.50 silver
12.00 brass

430-1C1
\$21.00 silver
19.00 brass

432-1.5C3
\$21.00 silver
19.00 brass

420-2B2
\$16.00 silver
14.00 brass

C820-2B2
\$16.00 silver
14.00 brass

Ladder attenuator, 32 steps, 1.5 db per step, tapered on last 3 steps to off. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 10°.

Bridged T attenuator, 30 steps, 1 db. per step, 30 db total. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 11 $\frac{1}{4}$ °.

Bridged T attenuator, 32 steps, 1.5 db per step, tapered on last 5 steps to off. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-5/16" back of panel depth. CONTACT SPACING: 10°.

Bridged T attenuator, 20 steps, 2 db per step, attenuation linear with off on last step. MOUNTING: two hole, 8-32 or 6-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

Dual potentiometer, each section 20 steps, 2 db per step, attenuation linear with off on last step. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

SHALLCROSS V.U. METER RANGE EXTENDING ATTENUATORS

IMPEDANCE: Available with input impedances of 3900-7100-7500 ohms. Output impedance is 3900 ohms to match Weston Type 30B or General Electric Type DO 61 V.U. meters.

TOLERANCE: $\pm 1\%$ except "C" types which are $\pm 5\%$.

INSERTION LOSS: Zero.

DETENT: All units supplied with indexing mechanism; back of panel depth includes detent.

C35-4A4
\$12.00 silver
11.00 brass

T attenuator, +4 to +24 V.U., 5 steps, 4 V.U. per step. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing. DIMENSIONS: $1\frac{3}{4}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 30°.

C35-4A5
\$12.00 silver
11.00 brass

T attenuator, +4 to +20 V.U. and OFF, 5 steps, 4 V.U. per step. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing. DIMENSIONS: $1\frac{3}{4}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 30°.

320-2C4
\$21.50 silver
20.50 brass

T attenuator, +4 to +44 V.U., 20 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 15°.

320-2C5
\$21.50 silver
20.50 brass

T attenuator, +4 to +42 V.U. and OFF, 20 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 15°.

412-2B4
\$16.50 silver
14.50 brass

Bridged T attenuator, +4 to +28 V.U., 12 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 12°.

412-2B5
\$16.50 silver
14.50 brass

Bridged T attenuator, +4 to +26 V.U. and OFF, 12 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 12°.

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

**ELECTRICAL
INSTRUMENTS
RESISTORS
VARIABLE
ATTENUATORS
SWITCHES**

SHALLCROSS AKRA-OHM RESISTORS

LIST PRICES—Standard BX Types, $\pm 1\%$ Tolerance

Resistance Range to and including	Types BX110, BX116, BX160	Types BX196	Types BX183A	Types BX100, BX140, BX193
0.5 ohms to				
1000 ohms	\$2.15	\$1.65	\$1.00	\$1.40
Up to 5000 ohms	2.30	1.75	1.05	1.50
Up to 10,000 ohms	2.40	1.85	1.15	1.60
Up to 15,000 ohms	2.50	1.85	1.25	1.60
Up to 30,000 ohms	2.60	2.00	1.40	1.75
Up to 50,000 ohms	2.70	2.00	1.55	1.75
Up to 75,000 ohms	2.90	2.25	1.75	2.00
Up to 100M	3.20	2.50	2.00	2.25
Up to 125,000	3.35	2.60	2.15	2.35
Up to 150,000	3.55	2.75	2.15	2.50
Up to 200,000	3.85	3.05	2.40	2.75
Up to 250,000	4.15	3.35	2.65	3.00
Up to 300,000	4.45	3.65	2.90	3.25
Up to 400,000	5.10	4.20	3.15	3.75
Up to 500,000	5.70	4.75	3.65	4.25
Up to 600,000	6.00	5.05	4.40	4.50
Up to 700,000	6.15	5.20	4.50	4.60
Up to 750,000	6.35	5.40	4.65	4.75
Up to 900,000	6.65	5.70	4.90	5.00
Up to 1 megohm	6.95	6.00	5.15	5.25
Up to 1.5 megohms	9.80	8.25		
Up to 2 megohms	14.15	11.25		
Up to 2.5 megohms	16.40	14.00		
Up to 3 megohms	18.40	16.75		
Up to 4 megohms	22.40	21.25		
Up to 5 megohms	26.40	25.75		
Up to 6 megohms	30.40			
Up to 7 megohms	35.40			
Up to 8 megohms	40.40			
Up to 9 megohms	45.40			
Up to 10 megohms	50.40			

SPECIAL TOLERANCE
Resistors to closer tolerances can be supplied at higher prices. Add to list prices as follows:

$\pm 1/2\%$, add 5%	$\pm 1/10\%$, add 25%
$\pm 1/4\%$, add 10%	$\pm .05\%$, add 50%
$\pm 2/10\%$, add 15%	

BX impregnated resistors will be furnished unless order specifies "without BX". Following price reductions will be made from the list price for resistors furnished without vacuum impregnation:

Type 110, 116 & 160	\$40
" 196	25
" 183	15
" 100, 140 & 193	25

Prices shown are for Manganin Wire used in resistances to 1,000 ohms and for Nickel-Chromium-Iron Wire used in resistances above 1,000 ohms.

TYPES BX183A AND BX193— $\pm 1\%$ IN COMMON VALUES—IN STOCK

In addition to the popular standard types listed here, Shallcross Akra-Ohm Resistors are made in a complete line of standard and special designs for precise electronic equipment demanding great stability and long life even under difficult conditions of temperature and humidity.

Shallcross achievements include the development of really practical hermetically-sealed

units; BX processed resistors "tropicalized" against moisture and fungus; the use of spun glass insulated wire for applications where considerable power must be dissipated; bifilar wound resistors, 1000 ohms or less, for exacting instrument use; heavy-duty surge resistors; accurate heavy-duty power resistors, and various others. Write for the Shallcross "Engineering Data" wall and file Chart.

ACCURATE FIXED WIRE-WOUND TYPES (JAN R93) PRICES ON REQUEST.

Shallcross Type	** JAN Style	Wattage	* Maximum Ohms	Std. Terminal	Mounting	Dimensions Length—Diam.
100	RB21	1	750,000	#8 screw	5 amp. fuse clip	2 1/16" x 9/16"
110	RB22	2	2 Meg.	#8 screw	5 amp. fuse clip	2 7/8" x 3/4"
116	RB14	1	2 Meg.	Solder lugs	#6 screw	2 3/8" x 3/4"
140	RB41	0.5	350,000	Solder lugs	#6 screw	1 1/4" x 11/16"
160	RB42	1	500,000	Solder lugs	#6 screw	1 9/16" x 11/16"
183A	RB11	0.5	300,000	Solder lugs	#6 screw	5/8" x 1/2"
193	RB12	1	400,000	Solder lugs	#6 screw	1" x 1/2"
196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 3/4"
△1196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 1/2"

* Based on use of .0014" diameter nickel chromium wire.
** JAN style refers to Joint Army-Navy Specification R93.
△ Hermetically sealed. Other sizes available.

Smaller wire sizes will greatly increase maximum allowable resistance on any form. Price depends on wire size and specification.

SEND FOR RESISTOR ENGINEERING CHART FOR COMPLETE DATA

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

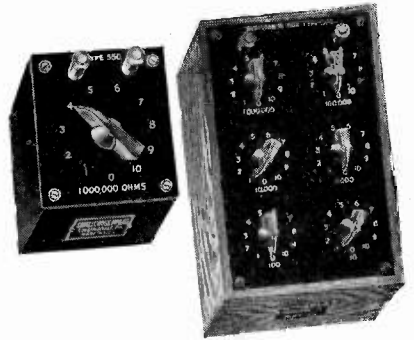
ELECTRICAL INSTRUMENTS
RESISTORS
VARIABLE ATTENUATORS
SWITCHES

SHALLCROSS DECADE RESISTANCE BOXES

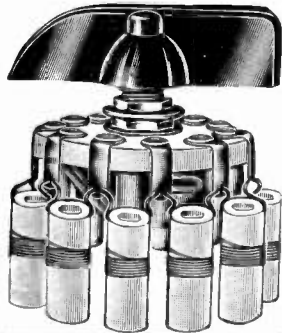
The large assortment and wide range of resistance available makes the Shallcross line of Resistance Boxes unique in the instrument field. They are used extensively as laboratory standards, AC and DC Bridge and ratio arms, voltage dividers, etc.

Accuracy adjustment of Resistors as follows:
 0.1 ohm..... 1% 1. ohm..... 0.25% all others..... 0.1%

No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price	No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price
543	1	0.1	1	\$13.50	821	3	10	11.100	\$39.50
544	1	1.0	10	13.50	822	3	100	111.000	44.50
545	1	10	100	13.50	823	3	1,000	1,110.000	58.00
546	1	100	1,000	13.50	824	3	10,000	11,100.000	91.00
547	1	1,000	10,000	16.50	825	4	1	11,110	51.00
548	1	10,000	100,000	19.50	826	4	10	111,100	56.00
549	1	100,000	1,000,000	27.00	827	4	100	1,111,000	69.50
550	1	1,000,000	10,000,000	50.00	828	4	1,000	11,110,000	105.50
817	3	.01	11.1	45.00	8285	5	0.1	11,111	62.50
817A	4	.01	111.1	56.50	829	5	1	111,110	67.50
817B	5	.01	1,111.1	71.00	830	5	10	1,111,100	81.00
818	3	0.1	111	86.50	831	5	100	11,111,000	117.00
819	4	0.1	1,111	48.00	832	6	1	1,111,110	91.50
820	3	1	1,110	36.50	833	6	10	11,111,100	127.50



UNMOUNTED DECADE RESISTANCES



In response to a demand from engineers, manufacturers and physicists who design and construct their own electrical measuring instruments, we have made the Shallcross Unmounted Decade Resistances available. They are of the same construction as those used in the popular Shallcross Resistance Decades described above and consist of ten Shallcross Resistors mounted on a ceramic instrument switch.

SPECIFICATIONS

Type No.	Total Resistance Ohms	Unit Resistance Ohms	Switch No.	Accuracy	Price
435	1.0	.1	536	1.0%	\$9.00
436	10	1.0	531	0.25%	9.00
437	100	10	531	0.1	9.00
438	1,000	100	531	0.1	9.00
439	10,000	1,000	531	0.1	12.00
440	100,000	10,000	531	0.1	14.00
441	1 Meg.	100,000	531	0.1	22.50
442	10 Meg.	1 Meg.	531	0.1	45.00

Mounting: Single 3/8" Hole Mounting—Panels Up to 3/16" Thick. Any of the above may be obtained with aluminum dust cover and shield at \$1.50 additional cost.

SHALLCROSS AKRA-OHM PRECISION RESISTORS

for "Miniaturization" applications
UNUSUAL ACCURACY IN SMALL SPACE

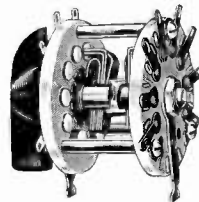


These new Shallcross Okra-Ohm Wire-Wound Precision Resistors have been designed to meet the needs of modern, miniature equipment. Standard tolerance is 1%. Closer tolerances can be furnished on special order.

The units offer unusually high and accurate resistance values in small space and are light enough to be suspended by their own tinned copper leads, or may be secured with mounting screw.

Type	Sections	Size	Watts	Maximum Resistance per section Ohms	Minimum Resistance per section Ohms
136	1	18/64" x 1/4"	0.25	150,000	1.
137	2	45/64" x 1/4"	0.25	150,000	1.
133	3	11/32" x 3/8"	0.25	550,000	1.
134	4	1/2" x 3/8"	0.25	375,000	1.

Prices on application.



SHALLCROSS ROTARY SELECTOR SWITCHES

Like other Shallcross instrument components, these Rotary Selector Switches are designed to cover a very wide field of application in both shorting and non-shorting types, and can be modified to control a variety of circuits. Details on any type for practically any application on request. Suffixes B and S denote Brass and Silver contacts and contact arms.

SWITCH PRICES

Poles	Positions	Contact Plate Material	Shorting	Non-Shorting	List Price
1	11	Stearite	4605-B	4610-B	\$3.10
1	11	Stearite	4620-B	4615-B	6.95
2	11	Stearite	4605-S	4610-S	3.40
2	11	Stearite	4620-S	4615-S	7.55
1	12	Bakelite	5550-B	5620-B	3.60
1	12	Bakelite	5550-S	5620-S	3.90
2	15	Stearite	5010-B	4225-B	4.00
1	15	Stearite	5015-B	4980-B	7.45
2	15	Stearite	5010-S	4225-S	4.50
1	15	Stearite	5015-S	4980-S	8.45
1	18	Bakelite	5155-B	5625-B	4.85
1	18	Bakelite	5155-S	5625-S	5.40
1	24	Bakelite	5630-B	5570-B	6.20
1	24	Bakelite	5630-S	5570-S	6.80
1	36	Bakelite	4815-B	4850-B	*
1	36	Bakelite	4815-S	4850-S	*
1	48	Bakelite	4640-B	*	*
1	48	Bakelite	4640-S	*	*
1	60	Bakelite	*	5935-B	*
1	60	Bakelite	*	5935-S	*

Large Rotating Tap Switch—12 Brass Contacts—number 2240-2 Shorting only

* Prices on application.

**ELECTRICAL
INSTRUMENTS**

RESISTORS

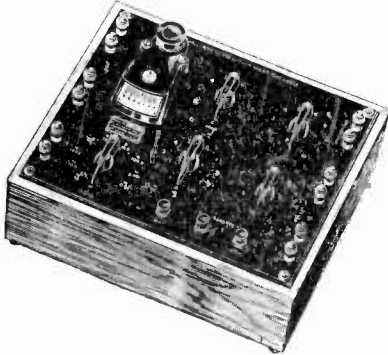
**VARIABLE
ATTENUATORS**

SWITCHES

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

SHALLCROSS D-C BRIDGES



**No. 638-2-4
KELVIN
WHEATSTONE
BRIDGE**

Resistance range 0.0001 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—0.3% between 1.0 ohm and .1111 megohms. Below and above this range—2%.

GALVANOMETER—Built-in—sensitivity 1 micro-ampere per millimeter division.

RHEOSTAT ARM—Four decades—1.0 ohm steps in Wheatstone and 1.0 micro-ohm steps in Kelvin ranges.

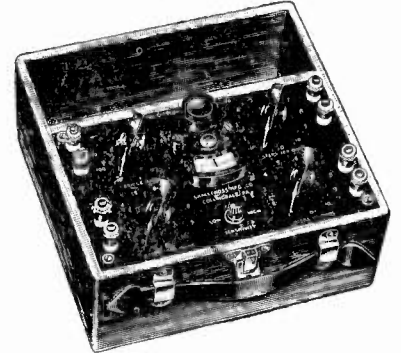
RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.

SEPARATE KEYS—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover (not illustrated) and compartment for 4½ volt battery (not supplied) for Wheatstone range measurements.

DIMENSIONS—Length 12¼", width 10½", height 6½".

WEIGHT—Approx. 9 lbs. Price \$195.00.



**No. 630
WHEATSTONE
BRIDGE**

Resistance range from 0.1 ohm to 11.1 megohms

SPECIFICATIONS

ACCURACY—1.0% between 10 ohms and 1.0 megohm—2% over 1 megohm.

COMPONENT RESISTORS—0.1% accurate except 1 ohm, which are 0.25%.

RHEOSTAT ARM—Three decades—variable in 10.0 ohm steps.

RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.

CAM SWITCH—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover and compartment for batteries and leads (not supplied).

DIMENSIONS—Length 10", width 9¾", height 5¼".

WEIGHT—Approx. 6 lbs. Price \$110.00.



**No. 637
KELVIN
WHEATSTONE
BRIDGE**

Resistance range 0.001 ohm to 11.1 megohms

SPECIFICATIONS—Same as No. 638-2 except:

ACCURACY—1.0% between 1.0 ohm and 1.0 megohm; 2.0% above 1.0 megohm; and 3.0% below 0.1 ohm.

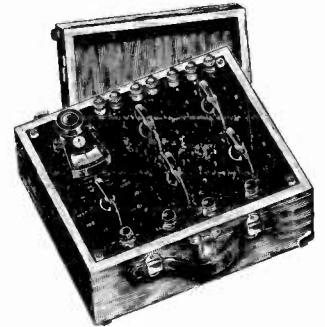
GALVANOMETER—Sensitivity 1.0 micro-ampere per millimeter division. Built-in.

RHEOSTAT ARM—Three decades—10 ohm steps in Wheatstone and 10 micro-ohm steps in Kelvin ranges.

CANNOT be used as Resistance Box.

DIMENSIONS—Length 10", width 9¾", height 5¼".

WEIGHT—Approx. 7 lbs. Price \$140.00.



**No. 629
FAULT
LOCATION
BRIDGE**

Resistance range 0.1 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—**COMPONENT RESISTORS**—0.1% accurate except 1.0 ohm, which are 0.25%.

GALVANOMETER—Built-in—sensitivity 1.0 micro-ampere per mm. division.

RHEOSTAT ARM—Four decades—11.110 ohms—variable in 1 ohm steps.

RATIO DIAL—Marked 0.001, 0.01, 0.1, 1.0, 10.0, 100 and 1000 for resistance measurements and Varley tests. M1, M 10, M 100 and M 1000 for Murray tests.

SEPARATE KEYS—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover, concealed compartment for 1½ volt battery (not supplied).

BINDING POSTS—Provided for use of external galvanometer where required.

DIMENSIONS—Length 10½", width 8½", height 5½".

WEIGHT—Approx. 7 lbs. Price \$130.00.

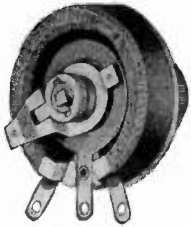
VOLTAGE DIVIDERS (DECADE POTENTIOMETERS)

No.	Dials	Total Resistance	Price	No.	Dials	Total Resistance	Price
835	4	10,000 ohms	\$100.00	845	3	1,000 ohms	\$74.00
836	4	100,000 ohms	110.00	846	3	10,000 ohms	79.50
837	4	1,000 ohms	95.00	850	3	100,000 ohms	92.50



WARD LEONARD · VITROHM RESISTORS and RHEOSTATS

VITROHM RING TYPE RHEOSTATS



The core and base of Ward Leonard Ring Type Rheostats are made of the highest grade ceramic materials. The resistance wire is wound toroidally on the core, and is coated with a tough, heat resistant, acid resistant, crazeless vitreous enamel.

The contact is a special alloy and is of large area to avoid sticking, pitting, local heating, or oxidation when setting remains fixed for a long period of time.

Watt Ratings

Based on continuous operation in free air with a temperature rise not to exceed 300° C, which is within the limits specified by Underwriters' Laboratories and NEMA.

25 WATTS Type 25R

Dimensions
A — 1¹/₁₆"
B — 1¹/₁₆"
C — 1"
D — 1¹/₈"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	7070	27	\$5.85
1	5000	27	5.85
2	3540	27	5.20
3	2880	27	5.20
6	2040	81	5.20
8	1770	90	5.20
10	1580	90	5.20
15	1280	103	5.20
25	1000	103	5.20
35	840	108	5.20
50	707	137	5.20
75	574	137	5.20
100	500	171	5.20
150	407	171	5.20
250	316	240	5.20
350	267	274	5.20
500	223	308	5.20
750	181	308	5.20
1000	158	390	5.85
1500	128	376	5.85
2500	100	520	5.85
3500	84	520	6.18
5000	70	520	6.18

50 WATTS Type 50R

Dimensions
A — 2³/₁₆"
B — 1³/₁₆"
C — 1¹/₈"
D — 1¹/₂"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	10000	30	\$6.50
1	7070	49	6.50
2	5000	49	6.50
4	3540	59	5.85
6	2880	108	5.85
8	2500	113	5.85
10	2230	150	5.85
15	1810	150	5.85
25	1415	188	5.85
35	1190	119	5.85
50	1000	188	5.85
75	812	188	5.85
100	707	225	5.85
150	574	225	5.85
250	447	300	5.85
350	374	338	5.85
500	316	375	5.85
750	256	450	6.18
1000	223	450	6.18
1500	181	570	6.18
2500	141	570	6.18
3500	119	713	6.50
5000	100	713	6.50
7500	81	855	6.50
10000	70	998	6.50

Heavy Duty Rheostats Pressed steel plate type.

300 watts — 1 to 2500 ohms, 20 steps, 6" diameter.
500 watts — 1 to 5000 ohms, 33 steps, 8" diameter.

100 WATTS Type 100R

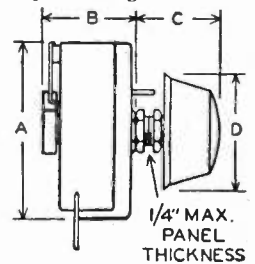
Dimensions
A — 3³/₁₆"
B — 1³/₄"
C — 1¹/₂"
D — 1¹/₂"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	14100	41	\$9.75
1	10000	41	9.75
2	7070	41	9.75
3	5740	72	9.75
5	4470	82	9.75
7.5	3640	82	9.10
10	3160	72	9.10
15	2560	156	9.10
25	2000	196	9.10
50	1415	274	9.10
75	1150	313	9.10
100	1000	274	9.10
200	707	313	9.10
300	574	353	9.10
400	500	392	9.10
500	447	392	9.10
750	364	464	9.10
1000	316	470	9.75
2000	223	595	9.75
2500	200	744	9.75
5000	141	893	10.40
7500	115	893	11.05
10000	100	1041	11.70

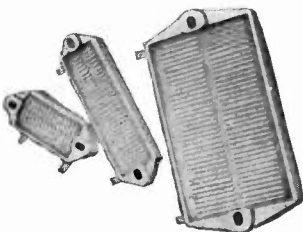
150 WATTS Type 150R

Dimensions
A — 3³/₁₆"
B — 2"
C — 1¹/₈"
D — 1¹/₂"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	17320	43	\$12.35
1	12240	43	12.35
2	8660	43	12.35
3	7070	54	12.35
5	5470	107	12.35
7.5	4470	107	12.35
10	3870	107	11.70
15	3160	107	11.70
25	2440	204	11.70
50	1730	245	11.70
75	1415	286	11.70
100	1224	367	11.70
200	866	326	11.70
300	707	408	11.70
400	612	408	11.70
500	547	489	11.70
750	447	489	12.35
1000	387	620	12.35
2000	273	775	13.00
2500	244	775	13.00
5000	173	930	13.65
7500	141	1240	14.30
10000	122	1240	15.60



VITROHM PLAQUE RESISTORS



Vitrohm Plaque Resistors are flat in form. The resistance wire is arranged on a rectangular ceramic base to give the lowest obtainable values of inductance and distributed capacitance. Inductance at frequencies up to 1000 kilocycles and distributed capacitance up to 5 megacycles are so low in value that they are negligible.

Vitrohm Plaque Resistors are rated 20, 40, and 125 watts with full ventilation.

Since full ventilation is usually impossible to attain, the watt rating should be decreased to compensate for the reduction in ventilation. A single plaque resistor mounted on a panel should operate safely about 80% of the full watt rating.

Copyright by U. C. P., Inc.

20 WATTS TYPE 20P 40 WATTS TYPE 40P 125 WATTS TYPE 125P

Ohms	20 WATTS TYPE 20P		40 WATTS TYPE 40P		125 WATTS TYPE 125P	
	Current m. a.	List Price	Current m. a.	List Price	Current m. a.	List Price
0.64	5590	\$1.95	7910	\$2.80	14000	\$3.80
1.00	4470	1.95	6320	2.80	11200	3.90
1.6	3540	1.95	5000	2.80	8800	3.80
2.5	2830	1.95	4000	2.60	7050	3.90
4.0	2240	1.95	3160	2.80	5600	3.90
6.4	1770	1.95	2500	2.60	4400	3.80
10	1415	1.95	2000	2.60	3500	3.90
16	1120	1.95	1580	2.80	2800	3.90
25	895	1.95	1260	2.80	2200	3.80
40	705	1.95	1000	2.80	1770	3.90
50	630	1.95	895	2.80	1580	3.80
64	560	1.95	790	2.80	1400	3.90
100	445	1.95	630	2.80	1120	3.90
160	355	1.95	500	2.80	880	3.80
250	285	1.95	400	2.80	705	3.90
400	225	1.85	315	2.80	560	3.90
640	175	1.95	250	2.80	440	3.80
1,000	140	1.95	200	2.80	350	3.90
1,600	110	1.95	160	2.80	280	3.90
2,500	90	1.85	125	2.80	220	3.90
4,000	70	1.85	100	2.80	177	3.90
5,000	65	1.95	90	2.80	158	3.90
6,400			80	2.80	140	3.90
10,000			65	2.80	112	3.90



WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

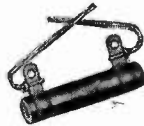
VITROHM FIXED RESISTORS

5 WATTS

Type 5F

Size 1" x 1/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	2230	\$0.52	350	119	\$0.52
1.5	1820	.52	400	112	.52
2	1580	.52	450	105	.52
3	1290	.52	500	100	.52
4	1117	.52	600	91	.52
5	1000	.52	700	84	.52
7.5	811	.52	750	81	.52
10	707	.52	800	79	.52
12	644	.52	900	74	.52
15	577	.52	1000	70	.52
20	500	.52	1100	67	.52
25	450	.52	1200	64	.52
30	408	.52	1250	63	.52
35	378	.52	1500	57	.52
40	353	.52	1750	50	.52
50	316	.52	2000	50	.52
75	257	.52	2250	47	.52
100	223	.52	2500	45	.52
125	200	.52	3000	40	.52
150	182	.52	3500	37	.52
200	158	.52	4000	35	.52
250	141	.52	4500	33	.52
300	129	.52	5000	31	.52



5-watt, 10-watt, 20-watt

Types 5F, 10F, and 20F are furnished with wire terminal leads — no brackets.

Order by Type Number and Resistance Value.

10 WATTS

Type 10F

Size—1 3/4" x 3/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	3160	\$0.59	150	258	\$0.59	4500	47	\$0.59
1.5	2580	.59	200	224	.59	5000	45	.59
2	2235	.59	225	211	.59	6000	41	.59
3	1825	.59	250	200	.59	7000	38	.59
4	1580	.59	300	182	.59	7500	36	.59
5	1415	.59	350	169	.59	8000	35	.59
7.5	1155	.59	400	158	.59	8500	34	.59
10	1000	.59	450	149	.59	9000	33	.59
12	913	.59	500	142	.59	10000	30	.59
15	815	.59	600	129	.59	11000	27	.65
20	707	.59	700	120	.59	12000	25	.65
25	630	.59	750	115	.59	12500	24	.65
30	577	.59	800	110	.59	13500	22	.65
35	534	.59	900	105	.59	14300	21	.65
40	500	.59	1000	100	.59	15000	20	.65
50	450	.59	1100	95	.59	16000	19	.65
75	365	.59	1200	91	.59	17500	17	.66
100	316	.59	1250	89	.59	18000	16	.65
125	283	.59	1500	81	.59	20000	15	.65
			1750	75	.59	22500	13	.65
			2000	70	.59	25000	12	.65
			2250	66	.59	30000*	13	.65
			2500	63	.59	35000*	12	.85
			3000	58	.59	40000*	11	.65
			3500	53	.59	45000*	10.5	.85
			4000	50	.59	50000*	10	.65

*Operated at Low Temperature. Rated 5 Watts.

20 WATTS

Type 20F

Size 2" x 1/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	4480	\$0.91	2500	90	\$0.91
3	2580	.91	2750	85	.91
5	2000	.91	3000	80	.91
10	1410	.91	3500	76	.91
15	1150	.91	4000	70	.91
25	900	.91	4500	67	.91
50	630	.91	5000	63	.91
75	510	.91	6000	55	.91
100	450	.91	7000	53	.91
150	365	.91	7500	51	.91
175	340	.91	8000	50	.91
200	320	.91	10000	40	.91
250	285	.91	12500	32	.91
300	258	.91	15000	27	.91
350	240	.91	20000	20	1.11
400	220	.91	25000	16	1.11
500	200	.91	30000	13	1.11
650	175	.91	35000	11	1.11
700	169	.91	40000	10	1.11
750	160	.91	45000	9	1.11
800	155	.91	50000	8	1.11
850	153	.91	55000	7	1.43
1000	141	.91	60000*	10.8	1.43
1200	130	.91	65000*	10.5	1.43
1250	125	.91	70000*	10.0	1.43
1500	115	.91	75000*	9.5	1.43
1750	107	.91	80000*	9.3	1.43
1850	104	.91	85000*	9.1	1.43
2000	100	.91	90000*	8.8	1.43
2250	94	.91	95000*	8.6	1.43
2400	91	.91	100000*	8.4	1.43

*Operated at Low Temperature. Rated 7 Watts.

Mounting brackets and lug type terminals



25 WATTS

Type 25F

Size—2" x 3/8" Mounting Centers—2 3/8"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	5000	\$1.04	2000	112	\$1.04
2	3535	1.04	2500	100	1.04
3	2890	1.04	3000	90	1.04
4	2500	1.04	3500	85	1.04
5	2235	1.04	4000	80	1.04
10	1580	1.04	5000	70	1.04
15	1290	1.04	6000	65	1.17
25	1000	1.04	7500	53	1.17
50	710	1.04	8500	47	1.17
75	580	1.04	10000	40	1.17
100	500	1.04	12000	37	1.17
150	410	1.04	15000	27	1.17
200	354	1.04	20000	20	1.43
250	315	1.04	25000	16	1.43
300	289	1.04	30000	13	1.43
400	250	1.04	35000	11	1.43
500	224	1.04	40000	10	1.43
750	182	1.04	50000	8	1.43
800	177	1.04	60000	6.7	1.63
850	170	1.04	70000	5.7	1.76
1000	158	1.04	75000	5.3	1.95
1250	140	1.04	80000	5	1.95
1500	129	1.04	100000	4	2.47

50 WATTS

Type 50F

Size—3 1/2" x 3/4" Mounting Centers—4 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	7070	\$1.56	5000	100	\$1.56
2	5000	1.56	6000	91	1.82
3	4080	1.56	7500	82	1.82
4	3535	1.56	8000	79	1.82
5	3160	1.56	10000	70	1.82
10	2235	1.56	12000	64	1.82
25	1415	1.56	12500	56	1.82
50	1000	1.56	15000	47	1.82
75	815	1.56	20000	35	1.82
100	707	1.56	25000	28	1.82
150	575	1.56	30000	23	2.08
300	500	1.56	35000	20	2.08
250	445	1.56	40000	18	2.08
300	408	1.56	45000	17	2.08
400	353	1.56	50000	14	2.08
500	316	1.56	75000	9	2.08
750	258	1.56	100000	7	2.08
800	250	1.56	125000	5	2.86
1000	224	1.56	150000	4.6	3.25
1500	180	1.56	175000	4.0	3.25
2000	160	1.56	200000*	3.5	3.58
2500	141	1.56	225000*	3.1	3.58
3000	130	1.56	250000*	2.8	3.90
4000	110	1.56			

*Operated at Low Temperature. Rated 17 Watts.

100 WATTS

Type 100F

Size—6 1/2" x 1 3/8" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	10000	\$2.15	2500	200	\$2.15
2	7070	2.15	3000	180	2.15
3	5770	2.15	3500	170	2.15
4	5000	2.15	4000	160	2.15
5	4470	2.15	4500	150	2.15
10	3160	2.15	5000	141	2.15
25	2000	2.15	7500	115	2.54
50	1410	2.15	10000	100	2.54
75	1150	2.15	15000	80	2.54
100	1000	2.15	20000	70	2.54
125	895	2.15	25000	60	2.54
150	815	2.15	30000	50	2.86
250	630	2.15	35000	43	2.86
500	447	2.15	40000	37	2.86
750	365	2.15	50000	30	2.86
1000	316	2.15	60000	25	3.25
1250	285	2.15	70000	21	3.25
1500	260	2.15	75000	20	3.25
2000	225	2.15	100000	15	3.58

160 WATTS

Type 160F

Size—8 1/2" x 1 3/8" Mounting Centers—9 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	12650	\$3.77	2500	252	\$2.86
2	8940	3.45	3000	230	2.86
3	7300	3.25	3500	215	2.86
4	6320	3.06	4000	200	2.86
5	5650	2.86	4500	185	2.86
10	4000	2.86	5000	178	2.86
15	3265	2.86	7500	146	2.86
25	2525	2.86	10000	126	2.86
50	1785	2.86	15000	105	3.45
75	1460	2.86	20000	90	3.45
100	1265	2.86	25000	80	3.45
150	1035	2.86	30000	67	3.45
200	894	2.86	35000	57	3.45
250	800	2.86	40000	50	3.45
500	565	2.86	50000	40	3.45
750	460	2.86	60000	33	3.90
1000	400	2.86	75000	26	3.90
1500	326	2.86	80000	25	3.90
2000	280	2.86	100000	20	3.90

200 WATTS

Type 200F

Size—10 1/2" x 1 3/8" Mounting Centers—11 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	14140	\$4.68	3500	240	\$3.58
2	10000	4.36	4000	225	3.58
3	8162	4.03	4500	210	3.58
4	7070	3.77	5000	200	3.58
5	6325	3.58	7500	163	3.58
10	4470	3.58	1		

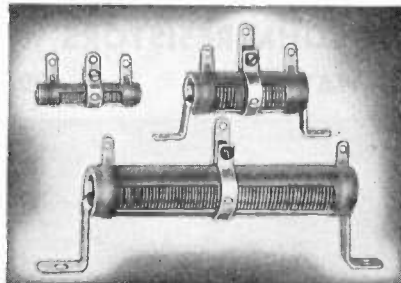


WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

ADJUSTABLE RESISTORS -- ADJUSTOHMS

Adjustohm Resistors are for use in any application where it is necessary or desirable to have one or more intermediate resistance values; or in circuits that need to be changed from time to time to meet varying electrical conditions.

Adjustohm Resistors are built of the highest grade low temperature coefficient materials, and are coated with Ward Leonard's tough crazeless Vitreous Enamel.



10 WATTS Type 10A

Size—1 3/4" x 5/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	3160	\$0.98	750	115	\$0.98
2	2235	.98	800	110	.98
3	1825	.98	1000	100	.98
5	1415	.98	1250	89	.98
7.5	1155	.98	1500	81	.98
10	1000	.98	2000	70	.98
15	815	.98	2500	63	.98
20	707	.98	3000	58	.98
25	630	.98	3500	53	.98
50	450	.98	4000	50	.98
75	365	.98	4500	47	.98
100	316	.98	5000	45	.98
150	258	.98	6000	41	.98
200	224	.98	7000	38	.98
250	200	.98	7500	36	.98
300	182	.98	8000	35	.98
350	169	.98	8500	34	.98
400	158	.98	9000	33	.98
500	142	.98	10000	30	.98
600	129	.98			

25 WATTS Type 25A

Size—2" x 5/8" Mounting Centers—2 3/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	5000	\$1.24	1250	140	\$1.24
2	3535	1.24	1500	129	1.24
3	2890	1.24	2000	112	1.24
5	2230	1.24	2250	105	1.24
7.5	1825	1.24	2500	100	1.24
10	1580	1.24	3000	90	1.24
15	1290	1.24	3500	85	1.24
20	1115	1.24	4000	80	1.24
25	1000	1.24	4500	74	1.24
50	710	1.24	5000	70	1.24
75	580	1.24	6000	65	1.43
100	500	1.24	7000	57	1.43
150	410	1.24	7200	56	1.43
200	354	1.24	7500	53	1.43
250	315	1.24	8000	50	1.43
300	289	1.24	8500	47	1.43
400	250	1.24	9000	44	1.43
500	224	1.24	10000	40	1.43
750	182	1.24	12000	33	1.43
800	177	1.24	15000	27	1.43
850	170	1.24	20000	20	1.56
1000	158	1.24	25000	16	1.56

WATT RATINGS

Nominal watt ratings for Adjustohm Resistors apply when the entire resistor is in the circuit. For most practical purposes the watt rating for each part of the resistor is approximately proportional to the amount of the resistance that is in the circuit.

Mounting brackets are furnished with all Adjustohm Resistors, except the 10-watt size, Type 10A.

Price of resistor includes brackets and one adjustable band.

50 WATTS Type 50A

Size—4 1/2" x 3/4" Mounting Centers—5 1/2"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	7070	\$1.95	3000	130	\$1.95
2	5000	1.95	3500	120	1.95
3	4080	1.95	4000	110	1.95
4	3535	1.95	4500	105	1.95
5	3160	1.95	5000	100	1.95
10	2235	1.95	6000	91	2.15
25	1415	1.95	7000	85	2.15
50	1000	1.95	7200	83	2.15
75	815	1.95	7500	82	2.15
100	707	1.95	8000	79	2.15
150	575	1.95	9000	75	2.15
200	500	1.95	10000	71	2.15
250	445	1.95	12000	64	2.15
300	408	1.95	15000	58	2.15
400	353	1.95	20000	48	2.15
500	316	1.95	25000	40	2.15
750	258	1.95	30000	33	2.47
800	250	1.95	40000	25	2.47
1000	224	1.95	50000	20	2.47
1250	200	1.95	60000	17	2.86
1500	180	1.95	75000	13	2.86
2000	160	1.95	80000	12	2.86
2250	150	1.95	100000	10	2.86
2500	141	1.95			

75 WATTS Type 75A

Size—6 1/2" x 3/4" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	8660	\$2.54	3000	158	\$2.54
2	6120	2.54	3500	146	2.54
3	5000	2.54	4000	137	2.54
4	4330	2.54	4500	129	2.54
5	3870	2.54	5000	122	2.54
10	2740	2.54	6000	111	2.86
15	2235	2.54	7000	103	2.86
25	1730	2.54	7200	102	2.86
50	1220	2.54	7500	100	2.86
75	1000	2.54	8000	97	2.86
100	866	2.54	9000	91	2.86
200	612	2.54	10000	87	2.86
250	550	2.54	15000	71	2.86
300	500	2.54	20000	61	2.86
400	433	2.54	25000	55	2.86
500	387	2.54	30000	50	3.25
750	315	2.54	35000	43	3.25
800	305	2.54	40000	37	3.25
1000	274	2.54	45000	33	3.25
1250	245	2.54	50000	30	3.25
1500	224	2.54	60000	25	3.58
2000	195	2.54	70000	21	3.58
2250	183	2.54	80000	19	3.58
2500	173	2.54	100000	15	3.58

100 WATTS Type 100A

Size—6 1/2" x 1 1/8" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	10000	\$2.86	2500	200	\$2.86
2	7070	2.86	3000	180	2.86
3	5770	2.86	4000	160	2.86
4	5000	2.86	4500	150	2.86
5	4470	2.86	5000	144	2.86
10	3160	2.86	6000	130	3.25
25	2000	2.86	7500	115	3.25
50	1410	2.86	10000	100	3.25
100	1000	2.86	15000	80	3.25
200	707	2.86	20000	70	3.25
250	630	2.86	25000	60	3.25
400	500	2.86	30000	50	3.58
500	447	2.86	40000	37	3.58
750	365	2.86	50000	30	3.58
1000	316	2.86	60000	25	3.90
1500	260	2.86	75000	20	3.90
2000	225	2.86	100000	15	3.90

ADJUSTABLE BANDS

Each Adjustohm Resistor is furnished with one Screw-Driver Type Adjustable Band Terminal (at right in illustration).



Additional band terminals are available. See list in the accompanying table.

160 WATTS Type 160A

Size—8 1/2" x 1 1/8" Mounting Centers—9 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	12650	\$4.68	3000	230	\$3.58
2	8940	4.36	3500	215	3.58
3	7300	4.03	4000	200	3.58
4	6320	3.77	4500	185	3.58
5	5650	3.58	5000	178	3.58
10	4000	3.58	7500	146	3.58
15	3265	3.58	10000	126	3.58
25	2525	3.58	15000	105	4.16
50	1785	3.58	20000	90	4.16
100	1265	3.58	25000	80	4.16
200	894	3.58	30000	67	4.16
250	800	3.58	40000	50	4.16
500	565	3.58	50000	40	4.16
1000	400	3.58	60000	33	4.55
1500	326	3.58	75000	26	4.55
2000	280	3.58	80000	25	4.55
2500	259	3.58	100000	20	4.55

200 WATTS Type 200A

Size—10 1/2" x 1 1/8" Mounting Centers—11 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	14140	\$5.59	4000	225	\$4.29
2	10000	5.20	4500	210	4.29
3	8160	4.88	5000	200	4.29
4	7070	4.55	7500	163	4.29
5	6320	4.29	10000	141	4.29
10	4470	4.29	15000	115	5.01
25	2825	4.29	20000	100	5.01
50	2000	4.29	25000	90	5.01
100	1414	4.29	30000	82	5.01
250	900	4.29	40000	62	5.01
500	632	4.29	50000	50	5.01
1000	447	4.29	60000	42	5.01
1500	365	4.29	75000	33	5.01
2000	315	4.29	100000	25	5.01
2500	282	4.29	125000	20	5.33
3000	260	4.29	150000	16	5.33
3500	240	4.29			

Size of Resistor	Screw Driver Type		Bakelite Knob Type	
	Cat. No.	Price	Cat. No.	Price
10 Watts	507-685	\$0.13	507-691	.....
25 Watts	507-688	.13	507-692	\$.20
50 Watts	507-688	.13	507-693	.20
75 Watts	507-688	.13	507-693	.20
100 Watts	507-680	.20	507-695	.33
160 Watts	507-690	.20	507-695	.33
200 Watts	507-690	.20	507-695	.33

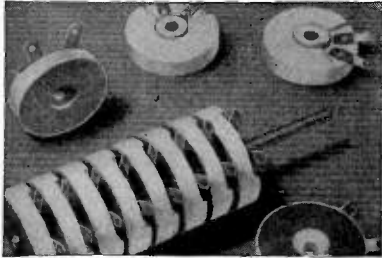


WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

DISCOHM RESISTORS

18 WATTS

Type 18D



Discohms are flat refractory discs having resistance wire arranged to minimize the values of inductance and distributed capacitance.

Discohm Resistors are especially useful in equipments where space is limited and where a power resistor having low value of inductance and distributed capacitance is required.

They are mounted by means of a No. 8 wood screw or bolt through the countersunk hole cast in the refractory base. Two or more units can be mounted together to obtain various resistance values and watt ratings.

Discohm Resistors are rated at 18 watts with free ventilation. A single Resistor mounted on a panel should operate safely at 80% of the full watt rating or 90% of the full current rating.

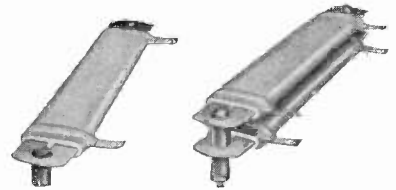
Ohms	Current m. a.	List Price
1.0	4240	\$1.95
1.6	3350	1.95
2.5	2680	1.95
4.0	2120	1.95
6.4	1680	1.95
10	1340	1.95
16	1060	1.95
25	850	1.95
40	670	2.21
64	530	2.21
100	420	2.21
160	335	2.34
250	268	2.34
400	212	2.34
640	168	2.34
1000	134	2.34
1600	106	2.34
2500	85	2.34
4000	67	2.34

VITROHM STRIP RESISTORS

Vitrohm Strip Resistors lend themselves readily to applications where space is limited, such as aircraft control circuits, radio instruments, and similar apparatus.

Vitrohm Strip Resistors are built on a strong flat reinforced core that has no sharp angular surfaces, providing a smooth continuous form of the resistance winding. The resistors are vitreous enamel coated.

Each unit is fitted with a self-sustained mounting bracket and spacer, the end pieces being riveted to a metal strip that passes through the core and serves as a conductor for the internal heat generated while the resistor is in service.



LENGTH (Inches)		RESISTANCE		Watt Rating
Resistor Body	Mounting Holes	Min. Ohms	Max. Ohms	
1 1/4	2	0.45	6,300	30
2	2 3/4	0.50	15,800	40
3 1/2	4 1/4	0.70	35,000	55
4 3/4	5 1/2	1.00	50,000	65
6	6 3/4	1.40	66,000	75

FLUORESCENT LAMP RESISTORS



Ward Leonard Fluorescent Lamp Resistors are designed for use in fluorescent lamps operating on direct current. They meet the requirements of lamp and fixture manufacturers and are listed as standard

by the Underwriters' Laboratories, Inc., and by the New York City Department of Water Supply, Gas and Electricity.

Ward Leonard Fluorescent Lamp Resistors are mounted in well-ventilated metal enclosures for installation on standard fixtures. They are made for use on 115-volt, 120-volt and 220-volt circuits and in various resistance values to meet the requirements of the lamps with which they are to be used.

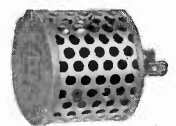
Long, flexible asbestos covered leads facilitate connections.

Plug-In Type

For Portable Fixtures

Ward Leonard also provides a Fluorescent Lamp Resistor in a metal enclosure for use with portable lamps operating on 120-volt circuits. It is fitted with a plug on one end for inserting into the line receptacle and a receptacle on the other end into which the plug on the figure is placed.

The Plug-In Resistor is made for use on 15-watt and 20-watt lamp fixtures.

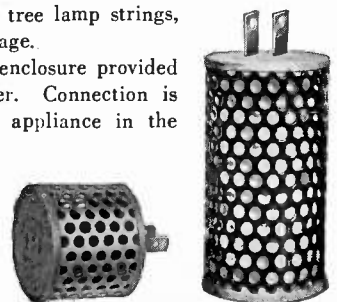


LINE VOLTAGE REDUCERS

Ward Leonard Line Voltage Reducers protect radio sets, soldering irons, Christmas tree lamp strings, and other electrical appliances within the ratings of the Reducers, from high line voltage.

Line Voltage Reducers consist of a resistor network encased in a perforated metal enclosure provided with standard parallel prongs on one end and a standard receptacle on the other. Connection is made by plugging the Reducer into a receptacle and then inserting the plug on the appliance in the receptacle on the enclosure.

Catalog Number	Length Inches	Resis. Ohms	Load	List Price
507-109	1 1/2	25.	For 35-65 watt 115 volt radio set on 115-140 volts. . .	\$2.28
507-109A	1 1/2	10.	For 65-130 watt 115 volt radio set on 115-140 volts. . .	2.28
507-109B	2 1/4	4.5	For 130-285 watt 115 volt radio set on 115-140 volts. . .	2.73
507-109H	5 1/4	300.	For 60-watt 115 volt radio set on 230 volts.	3.58



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AUTOMATIC

AMPERITE

REGULATOR



BALLAST TUBE FOR AUTOMATIC REGULATION OF CURRENT AND VOLTAGE



AMPERITE is an automatic rheostat designed to keep the current in a circuit at a definite value, for example, 0.5 amps. Should the supply voltage increase, the Amperite will automatically increase in resistance enough to take up the increase in supply voltage — keeping the voltage on the load constant.

PRICES: The proper AMPERITE Replacement may be determined by looking up the number under column "FOR" and noting corresponding Amperite in the column "USE AMPERITE". Numbers in "FOR" column run consecutively and then alphabetically.

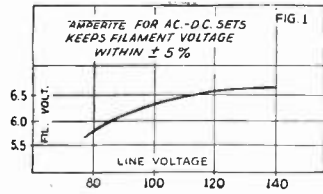
★The letter code in the center column is interpreted as follows:

- a—For 110V. A.C.-D.C. Sets..... List Price \$1.25
- b—For 2V. Battery Sets..... 2.25
- c—For 110V. A.C. Sets..... 2.25
- h—For 220V. A.C.-D.C. Sets..... 2.25
- r—For 110V. A.C. Sets having 70-95V. Primary..... 1.25
- s—For special apparatus..... 3.00

A C. - D. C. SETS

For A.C.-D.C. Sets

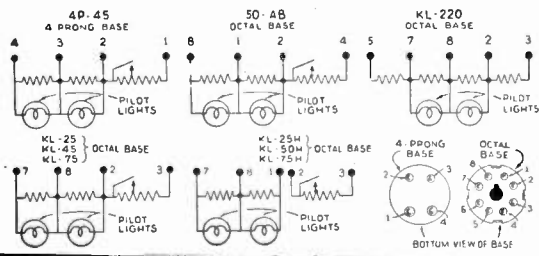
The Amperite Regulators are designed to pass only 0.3A through tube filaments. Filament voltages will be kept within $\pm 5\%$ with line voltage variations of 85 to 140 volts. Due to the fact that Amperite is a real regulator, 2 types of Amperite with four prongs and 2 with octal bases will replace 150—90% of all—



so-called ballasts or resistors used in AC.-D.C. sets. No extra resistor required.

Pilot Lights—None, one or two of either 0.150A or 0.250A can be used with same Amperite. Should a pilot light burn out, the set will continue to operate properly without any damage to the Amperite, tubes or other parts. The patented starting resistor in the Amperite prevents overloading and premature burning-out of tubes and pilot lights. In some sets the ballast socket is purposely wired in such a way that the Pilot Light Resistors of standard ballasts would be burned out if inserted. In such sets special Amperites are required, as shown in table. Avoid burnouts—use proper Amperite.

BASE WIRING OF AMPERITES FOR A.C.-D.C. SETS



AMPERITES FOR 2-VOLT BATTERY SETS

Two-volt tube filaments are delicate and easily overloaded. Keeping the tube filaments at their proper voltage with a real regulator like Amperite invariably results in considerably more battery and tube life. The same Amperite can be used for dry cell, air cell, or 2 volt storage battery operation. The proper Amperite is determined by the total filament-current drain of the set, e.g.—for 0.5A use Amperite 5E1, etc.

REPLACEMENT REGULATORS—A.C.-D.C. SETS List \$1.25

Amperite No.	Amperite Numbers Shown Replace All A.C.-D.C. Ballasts		
	Starting With Letter	With Numbers From	Ending In
KL 25 #		10 to 36	A, B, C, or D
KL 45	K, L, M or BK	36 " 67	"
KL 75	BL or BM	67 " 105	"
KL 25H		11 to 28	F, G, or H
KL 50H	K, L, M, or BK	36 " 67	"
KL 75H	"	67 " 105	"
KL 50S1		40 to 100	S1
KL 50S2	K or L	"	S2
KL 50S3	"	"	S3
KL 50E	"	36 " 67	E

Except K18B, use Amperite K18B—4 Prong Base.

For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite
.0C2	a R300	3MR-253	a 3MR-253	9A10	c 9A10	397021	c 397021
03G	a 03G	3MZ-419	a 3MZ-419	9-20	r 9-20	40	a 3-40
038	r 11-20	3MZ419A	a 3MZ419A	9-150	c 9-150	40W	a 3-40
.042	b 5E1			9-220	c 9-220	40A2	a 4P45
		4	4	9M15822	c 9M15822	40B2	a 4P45
1-1	r 1-1	4-1	a 1G1	9M16534	c 9M16534	40X390	a 4P45
1A1	b 5E1	4A1	b 4A1	9V10	c 8A5	41-7E	s 41-7E
1A2	b 30	4A 10	b 4A10			42A	a 3-40
1A-10	s 1A-10	4-20	c 4-20	10-1	b 10-1	42A1	a 50AB
		4-150	r 4-150	10-4	s 10-4	42A2	a 50AB
1B1	b 3H1			10A 10	c 10A10	42B2	a 50AB
1B2	b 31	4-220	c 4-220	10A	a 10A	42HA	a
1C1	b 7H1	4H-1	b 4H-1	10AB	b 5H-1		
1C2	b 52			10V10	c 10V10		
1D1	b 2H-1	4SR311	a 4SR311	10-20	r 10-20	45W	a 4P45
1D2	b 1D2	4-TU-9	a KL-45	10-23A	a KL-25		
1E1	b 5E1			10-25	c 10-25	46A1	a 46A1
1E2	b 1E2	5	a 5	10-150	c 10-150	46B1	a 46B1
1F1	b 7-1	5B	a 3-40	10-220	c 10-220	49A	a 4P45
1G1	b 4-1	5-1	b 5E1	10-610	a 10-610	49A1	a 50AB
1H-1	b 1H-1	5A10	c 5A10			49A2	a 50AB
1J1	b 6-1	5-10	r 5-10	11A10	c 11A10	49B2	a 50AB
1K1	b 5H-1	5-16	c 5-16	11-20	r 11-20	50MG	a KL50S1
1L1	b 1L1	5-20	r 5-20			50W	a 4P45
1N1	b 1N1	5-150	c 5-150	12A10	c 12A10	50A2	a 4P45
1P1	b 1P1	5-220	c 5-220	12-20	r 12-20	50A2MG	a KL50S2
1Q1	b 1Q1			12-150	c 12-150	50B2	a 4P45
1R1	b 1R1	5E1	b 5E1	12-220	c 12-220	50B2MG	a KL50S1
1S1	b 1S1	5H-1	b 5H-1			50X3	a 4P45
1T1	b 1T1	5H-3	s 5H-3	13-4	s 13-4	50X3T	a 4P45
1U1	b 1U1	5H-10	c 5H-10	13A10	c 13A 10	50X300	a 4P45
1V1	b 5H-1	5H-20	r 5H-20	13-20	r 13-20		
1W1	b 1W1	5H-150	c 5H-150	14A10	c 14A 10	52	b 1C2
1Y1	b	5H-220	c 5H-220	14-20	r 14-20		
1Z1	b 9-1						
		6	b 1F1	15A10	c 15A 10	55A	a KL45
2	a 2	6-1	b 1J1	15-10	r 15-10	55H	a KL50H
2-1	b 2-1	6-3	s 6-3	15-20	r 15-20	55LB	a L55B
2A10	c 2A10	6-4	s 6-4			55KB	a KL-45
2CR-241	a KL-45	6-4	s 6-4	16A10	c 16A 10	60-92A	a KL-75
2LR-212	a 50AB	6H6	c 6H6	17-2	s 17-2	60R30	a 60R30G
2M2	s 2M2	6A10	c 6A10	17-3	s 17-3	60R30G	a 60R30G
2UR-215	a KL-45	5-11	s 6-11	17A470-	c 17A470-	64.23	
2UR-224	a KL-45	6-20	c 6-20	303	303	67A	a KL45
2H-1	b 1D1	6-150	c 6-150	17A485-	c 17A485-	69-2027	a 3-40
2H-2E	b 2H-2E	6-220	c 6-220	49	49	69-2028	b 3-220
2H-10	c 2H-10			17A485-	c 17A485-	69-2033	a KL-45
2H-20	r 2H-20	6AA	b 5E1	459	c 459	66-2037	a KL-45
2R67	b 2R67	6B	a 4P45	18-10	r 18-10		
		6.125	a KL-45J			70	r 70
3	a 4P45	6.126	a KL-45J	20-1	s 20-1	75	a KL-75
3-1	b 3-1	6-128	a KL-45J	20-4	s 20-4	77-109	a 77-109
3-4	s 3-4	6-129	a KL-45J	20A5	c 20A5	77-126	a 77-126
3T4	s 3T4	6-130	a 6-130	20-10	r 20-10	77-127	a 77-127
3A10	c 3A10	6-133	a KL-45J	22-10	r 22-10	77-128	a 77-128
3-16	s 3-16	6-134	a	23-55A	a KL-45	77-181	a 77-181
3A20	s 3A20	6-135	a KL-45J	23-55F	a KL-50H	80	a 4P45
3-25	a 3-25			23-3	s 23-3	80R	a 80R
3-40	a 3-40	7	a 7	23-55A	a KL25	85L75CC	a 85L75CC
3-100	s 3-100	7-1	b 1F1	23-55B	a KL45		
3-150	c 3-150	7A10	c 7A10	23-55C	a KL45	90	r 90
3-220	h 3-220	7-20	c 7-20	23-55D	a KL45	95K2	a KL-45
				24-4	s 24-4	98	r 9-20
3CR-241	a KL-45	8	a 4P45			100	r 9-20
3ER-248	a KL-45J	8-1	b 8-1	30	b 1A2	100 R8	a 4P45
3FR-249	b 3ER-249	8A10	c 8A10	30A	a 3-25	100-33	a KL-50H
3H-1	b 1H1	8-20	r 8-20	31	b 1B2	100-37	a KL-45J
3H-2E	b 3H-2E	8-150	c 8-150	32	a KL-50H	100-38	a KL-45J
3H-10	b 3H-10	8-220	c 8-220	33AG	a KL-25	100-46	a 100-46
3H-20	c 3H-20			33-310	a 3,6D5	100-47	a 100-47
3H-150	c 3H-150	9	a 4P45	36A	a KL-25		
3H-220	c 3H-220	9-1	b 1Z1				

(Continued on next page)

PRICES

The proper AMPERITE Replacement may be determined by looking up the number under column "FOR" and noting corresponding Amperite in the column "USE AMPERITE". Numbers in "FOR" column run consecutively and then alphabetically.

*The letter code in the center column is interpreted as follows:

- a—For 110V. A.C.-D.C. Sets \$1.25
- b—For 2V. Battery Sets 2.25
- c—For 110V. A.C. Sets 2.25
- d—For 220V. A.C.-D.C. Sets 2.25
- r—For 110V. A.C. Sets having 70-95V. 1.25
- Primary 3.00
- s—For special apparatus. 3.00

List Price

For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite
100-48	b 3ER249	165KC	a 4P45	808-4	a 808-4	K22A	a KL-25	K22B	a KL-25	K72B	a KL-75	KX49A	a 4P45
100-49	b 3ER-249	165LB	a 4P45	808-5	a 808-5	K22B2	a KL-25	K22B2	a KL-25	K74A	a KL-75	KX49B	a 4P45
100-52	b 1D2	165LC	a 4P45	838	r 9-20	K22C	a KL-25	K74B	a KL-75	K74B	a KL-75	KX49C	a 4P45
100-53	b 1E2	165L4	a 4P45	874-R48	a 874-R48	K22E	a KL-25	K74B2	a 50AB	K74B2	a 50AB	KX49C	a 4P45
100-55	a 100-55	165L8	a 4P45	878R48	a 878R48	K22E1	a KL-25E	K74C	a KL-75	L11A	a KL-25	KX49C	a 4P45
100-56	a 100-56	165L44	a 4P45	1916	a 1916	K22E2	a KL-25E	K74D	a KL-75	L11B	a KL-25	KX49C	a 4P45
100-57	b 3ER-249	165M4	a 4P45			K22F	a KL-25H	K74E	a KL-50E	L11B2	a 25B2	KX49C	a 4P45
100-58	b 3ER-249	165M8	a 4P45	3271	a 3271	K22G	a KL-25H	K74E1	a KL-50E	L11C	a KL-25	KX49C	a 4P45
100-59	b 3ER-249	165R	a 4P45	3313	a KL-45	K22H	a KL-25H	K74F	a KL-50H	L11D	a KL-25	KX49C	a 4P45
100-60	b 3ER-249	165R4	a 4P45	3326	a KL-45	K22J	a KL-25J	K74G	a KL-50H	L11E	a KL-25E	KX49C	a 4P45
100-61	a 100-61	165R8	a 4P45	3334	a KL-45	K23E	a KL-25E	K74H	a KL-50H	L11E1	a KL-25E	KX49C	a 4P45
100-62	a 100-62	165R44	a 4P45	3334A	a KL-45	K23AJ	a KL-45J	K74J	a KL-50J	L11F	a KL-25H	KX49C	a 4P45
100-63	a 100-63			3614	a KL-45	K23C	a KL-25	K74S1	a KL-50S1	L11H	a KL-25H	KX49C	a 4P45
100-64	b 3ER-249	169	c 10A5			K26J218	a KL-25	K74S2	a KL-50S2	L11H	a KL-25H	KX49C	a 4P45
100-65	b 3ER-249	185A	a 4P45	5184	a 5184	K30B	a KL-25	K74S3	a KL-50S3	L11J	a KL-25J	KX49C	a 4P45
100-66	b 3ER-249	185KB	a 4P45	5459	c 5459	K30B2	a 2B2	K75B	a KL-75			KX49C	a 4P45
100-70	a KL-45J	185KC	a 4P45			K30C	a KL-25	K75B	a KL-75	L18A	a KL-25	KX49C	a 4P45
100-71	a KL-45J	185L4	a 4P45	8593	a KL-45	K30D	a KL-25	K75B	a KL-75	L18B	a KL-25	KX49C	a 4P45
100-76	a 100-76	185L8	a 4P45	8595	a L55B	K30E	a KL-25E	K75B	a KL-75	L18B2	a 25B2	KX49C	a 4P45
100-77	a 100-77	185L44	a 4P45	8598	a KL-45	K30E1	a KL-25E	K75B	a KL-75	L18C	a KL-25	KX49C	a 4P45
100-79	a 100-79	185L8	a 4P45	8600	a KL-25	K30F	a KL-25H	K80A	a KL-75	L18D	a KL-25	KX49C	a 4P45
100-81	a 100-81	185LC	a 4P45	8601	a KL-50E	K30G	a KL-25H	K80B	a KL-75	L18E	a KL-25E	KX49C	a 4P45
101	r 9-20	185M4	a 4P45	8664	a KL-50E	K30H	a KL-25H	K80C	a KL-75	L18E1	a KL-25E	KX49C	a 4P45
105	r 9-20	185M8	a 4P45			K30J	a KL-25J	K80D	a KL-75	L18F	a KL-25H	KX49C	a 4P45
110	r 11-20	185R	a 4P45	81963	a 81963			K80E	a KL-50E1	L18G	a KL-25H	KX49C	a 4P45
115-14	a KL-75	185R4	a 4P45	81966	a KL-45	K36A	a KL-45	K80E1	a KL-50E1	L18H	a KL-25H	KX49C	a 4P45
115-17	a 115-17	185R44	a 4P45	81973	a 81973	K36B	a KL-45	K80F	a KL-75H	L18J	a KL-25J	KX49C	a 4P45
115-18	a 115-18	192A	a MT-650	84152	a 84152	K36B2	a 50AB	K80G	a KL-75H	L22A	a KL-25	KX49C	a 4P45
115-18	a 115-18	200R	a 200R	86892-9	a 86892-9	K36C	a KL-45	K80H	a KL-75H	L22B	a KL-25	KX49C	a 4P45
115-19	a 115-19	200R4	a 4P45	26871	a 26871	K36D	a KL-45	K80J	a KL-75H	L22B	a KL-25	KX49C	a 4P45
115-20	a 115-20	200R8	a 4P45	35000	a 35000	K36E	a KL-50E	K80K	a KL-75H	L22C	a 25B2	KX49C	a 4P45
115-22	a KL-45			84428	a 84428	K36E1	a KL-50E	K80L	a KL-75H	L22C2	a KL-25	KX49C	a 4P45
115-24	a 115-24	203	c 12A5	397021	c 397021	K36F	a KL-50H	K80M	a KL-75H	L22D	a KL-25	KX49C	a 4P45
115-25	a 115-25	216	c 11A5	922337-1	a 922337-1	K36G	a KL-50H	K80N	a KL-75H	L22E	a KL-25E	KX49C	a 4P45
115-26	a 115-26	218	r 18-10			K36H	a KL-50H	K80O	a KL-75H	L22F	a KL-25E	KX49C	a 4P45
115-27	a 115-27	245A	a 4P45	BBR	c BBR	K36J	a KL-50J	K80P	a KL-75H	L22F1	a KL-25E	KX49C	a 4P45
115-28	a KL-45	245KC	a 4P45	B9M16-822	c B9M16-822			K80Q	a KL-75H	L22G	a KL-25E	KX49C	a 4P45
115-40	a KL-45	250A	a 4P45			K38B2	a K38B2	K80R	a KL-75H	L22G1	a KL-25E	KX49C	a 4P45
115-41	a KL-45	250KC	a 4P45	BK42D	a KL-45	K40B	a KL-45	K80S1	a KL-50S1	L22H	a KL-25H	KX49C	a 4P45
115-42	a KL-25	250KC	a 4P45	BK49B	a BK49B	K40C	a KL-45	K80S2	a KL-50S2	L22H2	a KL-25H	KX49C	a 4P45
115-42A	a 115-42A	250LA	a 4P45	BK49D	a KL-45	K40X	a 4P45	K80S3	a KL-50S3	L22I	a KL-25	KX49C	a 4P45
115-43	b 3ER-249	250L8	a 4P45	BK49B	a KL-45	K40Y	a 4P45	K80T	a KL-75H	L22J	a KL-25	KX49C	a 4P45
115-44	b 3ER-249	250M4	a 4P45	BK49D	a KL-45	K40Z	a 4P45	K80U	a KL-75H	L22J2	a KL-25	KX49C	a 4P45
115-46	a 115-46	250M8	a 4P45	BK55B	a KL-45	K42A	a KL-45	K80V	a KL-75H	L22J3	a KL-25	KX49C	a 4P45
115-47	a 115-47	250R	a 250R	BK55D	a KL-45	K42B	a KL-45	K80W	a KL-75H	L22J4	a KL-25	KX49C	a 4P45
115-49	a 115-49	250R4	a 4P45	Bk551dj	a Bk551dj	K42B2	a 50AB	K80X	a KL-75H	L22J5	a KL-25	KX49C	a 4P45
115-53	a KL-45	250R8	a 4P45			K42B2-K4	a 50AB	K80Y	a KL-75H	L22J6	a KL-25	KX49C	a 4P45
118	c 11A5	260		BL42B	a KL-45	K42C	a 50AB	K80Z	a KL-75H	L22J7	a KL-25	KX49C	a 4P45
120R8	a 4P45	250T		BL42C	a KL-45	K42E	a KL-50E	K80A1	a KL-75H	L22J8	a KL-25	KX49C	a 4P45
125	c 10A5	270L4	a 4P45	BL42D	a KL-45	K42F	a KL-50H	K80A2	a KL-75H	L22J9	a KL-25	KX49C	a 4P45
126	r 12-20	270L8	a 4P45	BL49B	a KL-45	K42G	a KL-50H	K80A3	a KL-75H	L22J10	a KL-25	KX49C	a 4P45
130R	a 4P45	270M4	a 4P45	BL49D	a KL-45	K42H	a KL-50H	K80A4	a KL-75H	L22J11	a KL-25	KX49C	a 4P45
130R8	a 4P45	270R4	a 4P45	BL55D	a KL-45	K42I	a KL-50H	K80A5	a KL-75H	L22J12	a KL-25	KX49C	a 4P45
130-35	a 4P45	270R8	a 4P45			K42J	a KL-50H	K80A6	a KL-75H	L22J13	a KL-25	KX49C	a 4P45
135K1A	a KL-45	275				K42K	a KL-50H	K80A7	a KL-75H	L22J14	a KL-25	KX49C	a 4P45
135K1A	a KL-45	300R	a 4P45			K42L	a KL-50H	K80A8	a KL-75H	L22J15	a KL-25	KX49C	a 4P45
135T380	a 4P45	300R4	a 4P45			K42M	a KL-50H	K80A9	a KL-75H	L22J16	a KL-25	KX49C	a 4P45
140	a 4P45	313	r 13-20			K42N	a KL-50H	K80A10	a KL-75H	L22J17	a KL-25	KX49C	a 4P45
140R4	a 4P45	314	r 14-20			K42O	a KL-50H	K80A11	a KL-75H	L22J18	a KL-25	KX49C	a 4P45
140R8	a 4P45	315	r 15-20			K42P	a KL-50H	K80A12	a KL-75H	L22J19	a KL-25	KX49C	a 4P45
140L4	a 4P45	320R	a 4P45			K42Q	a KL-50H	K80A13	a KL-75H	L22J20	a KL-25	KX49C	a 4P45
140L44	a 4P45	320R4	a 4P45			K42R	a KL-50H	K80A14	a KL-75H	L22J21	a KL-25	KX49C	a 4P45
140M4	a 4P45	350R	a 4P45			K42S	a KL-50H	K80A15	a KL-75H	L22J22	a KL-25	KX49C	a 4P45
140M8	a 4P45	380	c 380			K42T	a KL-50H	K80A16	a KL-75H	L22J23	a KL-25	KX49C	a 4P45
140KB	a 4P45	400R	a 400R			K42U	a KL-50H	K80A17	a KL-75H	L22J24	a KL-25	KX49C	a 4P45
140KC	a 4P45	410				K42V	a KL-50H	K80A18	a KL-75H	L22J25	a KL-25	KX49C	a 4P45
		415	r 11-20			K42W	a KL-50H	K80A19	a KL-75H	L22J26	a KL-25	KX49C	a 4P45
145A	a 145A	424-90	r 6-20			K42X	a KL-50H	K80A20	a KL-75H	L22J27	a KL-25	KX49C	a 4P45
150	c 15A5	425	r 13-20			K42Y	a KL-50H	K80A21	a KL-75H	L22J28	a KL-25	KX49C	a 4P45
155	c	430	r 3H-20			K42Z	a KL-50H	K80A22	a KL-75H	L22J29	a KL-25	KX49C	a 4P45
158	r 18-10	444-90	r 3-20			K42A1	a KL-50H	K80A23	a KL-75H	L22J30	a KL-25	KX49C	a 4P45
		449	r 14-20			K42B1	a KL-50H	K80A24	a KL-75H	L22J31	a KL-25	KX49C	a 4P45
160-32	a KL-45	454	r 5-20			K42C1	a KL-50H	K80A25	a KL-75H	L22J32	a KL-25	KX49C	a 4P45
160-36	a L55B	460	r 13-20			K42D1	a KL-50H	K80A26	a KL-75H	L22J33	a KL-25	KX49C	a 4P45
160-37	a 160-37	464-90	r 8-20			K42E1	a KL-50H	K80A27	a KL-75H	L22J34	a KL-25	KX49C	a 4P45
160-40	a KL-45	464-200	r 3H-20			K42F1	a KL-50H	K80A28	a KL-75H	L22J35	a KL-25	KX49C	a 4P45
160-41	a	484-90	r 16-20			K42G1	a KL-50H	K80A29	a KL-75H	L22J36	a KL-25	KX49C	a 4P45
160-42	a	484-200	r 4P45			K42H1	a KL-50H	K80A30	a KL-75H	L22J37	a KL-25	KX49C	a 4P45
160-43	a	495K1	r 7-20			K42I1	a KL-50H	K80A31	a KL-75H	L22J38	a KL-25	KX49C	a 4P45
16													

RESISTORS by RESISTORS, INC.



Chicago 16, Illinois

Resistors by RESISTORS, INC. — the choice of engineers and hams alike — enjoy wide acceptance because they are wound right — rated right — merchandised right. The complete range of fixed and adjustable resistors assures you maximum profits and service. Resistors are attractively

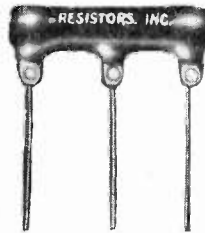
packaged for eye appeal, a decided sales aid. Silver soldered connections — selected materials — precision fabrication. RESISTORS' Resistors are designed and produced under close personal supervision.

FIXED RESISTORS



5 WATT
TYPE 1 1/4 F - FIXED
1 thru 10,000 Ohms
\$.50

10 WATT
TYPE 1 3/4 M - FIXED
1 thru 50,000 Ohms
\$.56



10 WATT
TYPE 1 3/4 M - CENTER TAPPED
10 to 200 Ohms
\$.72

Prices do not include mounting brackets



20 WATT - TYPE 2K - FIXED
1 thru 15,000 Ohms..... \$.91
20,000 thru 50,000 Ohms..... 1.07
*60,000 thru 100,000 Ohms..... 1.42

25 WATT - TYPE 2B - FIXED
1 thru 5,000 Ohms..... \$1.04
6,000 thru 15,000 Ohms..... 1.17
20,000 thru 50,000 Ohms..... 1.42
*60,000 Ohms..... 1.63
*70,000 thru 80,000 Ohms..... 1.82
*100,000 Ohms..... 2.47

50 WATT - TYPE 4 1/2 C - FIXED
1 thru 5,000 Ohms..... \$1.56
6,000 thru 25,000 Ohms..... 1.77
30,000 thru 80,000 Ohms..... 2.05
100,000 Ohms..... 2.08

80 WATT - TYPE 6 1/2 C - FIXED
1 thru 5,000 Ohms..... \$1.95
6,000 thru 25,000 Ohms..... 2.28
30,000 thru 50,000 Ohms..... 2.60
60,000 thru 100,000 Ohms..... 2.93

100 WATT - TYPE 6 1/2 R - FIXED
1 thru 5,000 Ohms..... \$2.13
6,000 thru 25,000 Ohms..... 2.48
30,000 thru 50,000 Ohms..... 2.85
60,000 thru 80,000 Ohms..... 3.20
100,000 Ohms..... 3.55

160 WATT - TYPE 8 1/2 R - FIXED
1 Ohm..... \$3.77
2 Ohm..... 3.41
3 Ohm..... 3.02
4 Ohm..... 3.06
5 thru 10,000 Ohms..... 2.85
12,000 thru 50,000 Ohms..... 3.41
60,000 thru 100,000 Ohms..... 3.84

200 WATT - TYPE 10 1/2 R - FIXED
1 Ohm..... \$4.68
2 Ohm..... 4.33
3 Ohm..... 3.98
4 Ohm..... 3.77
5 thru 10,000 Ohms..... 3.58
12,000 thru 100,000 Ohms..... 4.26

*Supplied with low temperature coating. Vitreous enamel coating at higher prices.

20 WATT to 200 WATT inclusive, listed above, supplied with mounting brackets.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ADJUSTABLE RESISTORS

(Supplied with mounting brackets)



10 WATT - TYPE 1 3/4 MA - ADJUSTABLE

1 thru 10,000 Ohms.....	\$.85
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25 WATT - TYPE 2BA - ADJUSTABLE

1 thru 5,000 Ohms.....	\$1.21
6,000 thru 15,000 Ohms.....	1.35
20,000 thru 25,000 Ohms.....	1.56

50 WATT - TYPE 4 1/2 CA - ADJUSTABLE

1 thru 5,000 Ohms.....	\$1.91
6,000 thru 25,000 Oms.....	2.13
30,000 thru 50,000 Ohms.....	2.42
60,000 thru 100,000 Ohms.....	2.86

80 WATT - TYPE 6 1/2 CA - ADJUSTABLE

1 thru 5,000 Ohms.....	\$2.48
6,000 thru 25,000 Ohms.....	2.85
30,000 thru 50,000 Ohms.....	3.20
60,000 thru 100,000 Ohms.....	3.55

100 WATT - TYPE 6 1/2 RA - ADJUSTABLE

1 thru 5,000 Ohms.....	\$2.85
6,000 thru 25,000 Ohms.....	3.20
30,000 thru 50,000 Ohms.....	3.55
60,000 thru 100,000 Ohms.....	3.90

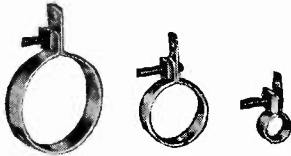
160 WATT - TYPE 8 1/2 RA - ADJUSTABLE

1 Ohm.....	\$4.68
2 Ohm.....	4.33
3 Ohm.....	3.98
4 Ohm.....	3.77
5 thru 10,000 Ohms.....	3.55
12,000 thru 50,000 Ohms.....	4.12
60,000 thru 100,000 Ohms.....	4.55

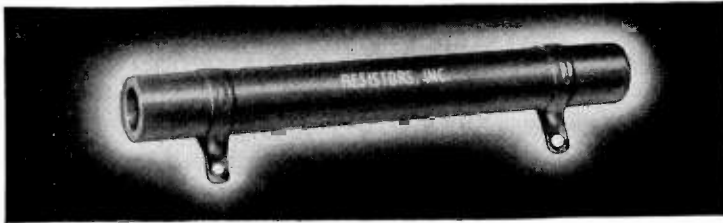
200 WATT - TYPE 10 1/2 RA - ADJUSTABLE

1 Ohm.....	\$5.47
2 Ohm.....	5.19
3 Ohm.....	4.84
4 Ohm.....	4.55
5 thru 10,000 Ohms.....	4.26
12,000 thru 100,000 Ohms.....	4.98

STANDARD ADJUSTABLE LUG — SCREW DRIVER TYPE



For 10 Watt.....	\$.13
For 25 Watt.....	.13
For 50 and 80 Watt.....	.20
For 100, 160 and 200 Watt.....	.20

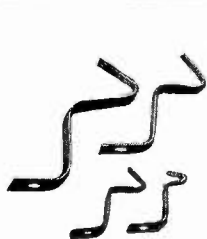
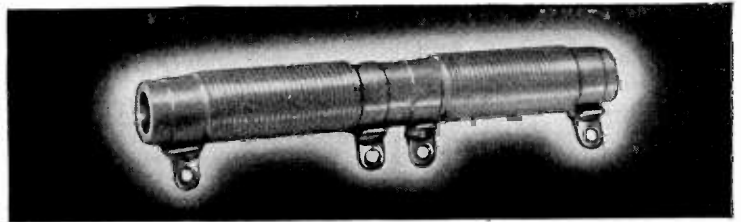


R. F. PLATE CHOKES

Type L-1.....	\$.33
Type L-2.....	1.04
Type L-3.....	1.56
Type L-4.....	2.15

POWER LINE CHOKES

Type L-10.....	\$2.15
Type L-11.....	3.58
Type L-12.....	5.20



MOUNTING BRACKETS

No.	Use with Resistor Type	I. D. of Tube
2	M	3/16"
4	E, K, B, BG	5/16"
6	C	1/2"
8	H. R	3/4"



CENTERING WASHERS

Type No.	I. D. of Tube
1	3/16"
2	5/16"
3	1/2"
4	3/4"

Manufactured by RESISTORS, INC., Chicago 16, Illinois



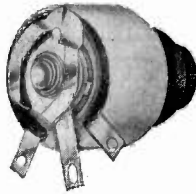
HARDWICK-HINDLE INC.



VITREOUS ENAMELED RHEOSTATS INSULATED SHAFTS and MOUNTING BUSHINGS



TYPE 2462-F—Designed for relatively low wattage requirements. Resistance wire is wound upon a heat resisting phenolic strip. The wound strip is rigidly attached to a refractory base. Contact arm of beryllium copper—gives uniform pressure, smooth action and long life.



TYPE M (Style 2879-3TC)—Rugged and compact. Has exceptional heat dissipation. Resistance wire is wound on a pure mica form, in a refractory base and embedded in vitreous enamel, bonding winding and base together. A small area of winding is free of enamel for contact purposes. Smooth action metallic contactor.



TYPES B-50, C-100, D-150, E-300 and F-500 embody the latest developments. Contact system separates current handling and contact pressure. Copper-graphite contact brush in porcelain holder travels on inside of winding. Wound ring and contact system assembled to metal base—gives great rigidity, lower panel temperatures.

TABLES OF SIZES AND RATINGS OF RHEOSTATS

TYPE 2462-F—10 W. RHEOSTAT				TYPE M—25 WATT RHEOSTAT				TYPE B—50 WATT RHEOSTAT				TYPE C—100 WATT RHEOSTAT			
Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price
0101	1	3.16	\$3.85	0201	0.50	7.06	\$4.90	0301	0.50	10.0	\$6.50	0401	0.50	14.2	\$9.75
0102	1.5	2.58	3.85	0202	0.75	5.77	4.90	0302	0.75	8.16	6.50	0402	0.75	11.6	9.75
0103	2.5	2.00	3.85	0203	1.0	5.00	4.90	0303	1.0	7.06	6.50	0403	1.0	10.0	9.75
0104	5	1.42	3.85	0204	1.5	4.08	4.20	0304	1.5	5.77	6.50	0404	1.5	8.16	9.75
0105	7.5	1.16	3.85	0205	2.5	3.16	4.20	0305	2.5	4.48	5.85	0405	2.5	6.34	9.75
0106	10	1.00	3.85	0206	5.0	2.22	4.20	0306	5.0	3.16	5.85	0406	5.0	4.48	9.75
0107	15	0.815	3.85	0207	7.5	1.82	4.20	0307	7.5	2.58	5.85	0407	7.5	3.66	9.10
0108	25	0.634	3.85	0208	10	1.58	4.20	0308	10	2.22	5.85	0408	10	3.16	9.10
0109	50	0.448	3.85	0209	15	1.29	4.20	0309	15	1.82	5.85	0409	15	2.58	9.10
0110	75	0.366	3.85	0210	25	1.00	4.20	0310	25	1.41	5.85	0410	25	2.00	9.10
0111	100	0.316	3.85	0211	50	0.706	4.20	0311	50	1.00	5.85	0411	50	1.42	9.10
0112	150	0.258	3.85	0212	75	0.577	4.20	0312	75	0.816	5.85	0412	75	1.16	9.10
0113	250	0.200	3.85	0213	100	0.500	4.20	0313	100	0.706	5.85	0413	100	1.00	9.10
0114	500	0.142	3.85	0214	150	0.408	4.20	0314	150	0.577	5.85	0414	150	0.816	9.10
0115	750	0.116	3.85	0215	250	0.316	4.20	0315	250	0.488	5.85	0415	250	0.634	9.10
0116	1000	0.100	3.92	0216	500	0.222	4.20	0316	500	0.316	5.85	0416	500	0.448	9.10
0117	1500	0.081	3.92	0217	750	0.182	4.20	0317	750	0.258	6.18	0417	750	0.366	9.10
0118	2500	0.073	3.92	0218	1000	0.158	4.90	0318	1000	0.222	6.18	0418	1000	0.316	9.75
				0219	1500	0.129	4.90	0319	1500	0.182	6.18	0419	1500	0.258	9.75
				0220	2500	0.100	4.90	0320	2500	0.141	6.18	0420	2500	0.200	9.75
				0221	5000	0.070	4.90	0321	5000	0.100	6.50	0421	5000	0.141	10.40
								0322	7500	0.082	6.50	0422	7500	0.115	11.05
								0323	10000	0.070	6.50	0423	10000	0.100	11.70

*Thru all or any part of winding. Diameter: 1 3/4". Depth Behind Panel: 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 1 3/8". Depth Behind Panel: 1 3/8". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 2 1/4". Depth Behind Panel: 1". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 3 1/8". Depth Behind Panel: 1 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 1/4".

TYPE D—150 WATT RHEOSTAT				TYPE E—300 WATT RHEOSTAT				TYPE F—500 WATT RHEOSTAT			
Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price
0501	0.50	15.00	\$12.35	0601	1.0	17.25	\$17.55	0701	1.0	22.3	\$25.35
0502	0.75	14.10	12.35	0602	1.5	14.15	17.55	0702	1.5	18.2	25.35
0503	1.00	12.25	12.35	0603	2.5	10.95	17.55	0703	2.5	14.1	25.35
0504	1.5	10.00	12.35	0604	5.0	7.75	17.55	0704	5.0	10.0	25.35
0505	2.5	7.75	12.35	0605	7.5	6.32	17.55	0705	7.5	8.17	25.35
0506	5.0	5.48	12.35	0606	10	5.48	17.55	0706	10	7.07	25.35
0507	7.5	4.47	12.35	0607	15	4.47	17.55	0707	15	5.77	25.35
0508	10	3.88	11.70	0608	25	3.46	17.55	0708	25	4.47	25.35
0509	15	3.16	11.70	0609	50	2.45	17.55	0709	50	3.16	25.35
0510	25	2.45	11.70	0610	75	2.00	17.55	0710	75	2.58	25.35
0511	50	1.73	11.70	0611	100	1.73	17.55	0711	100	2.23	25.35
0512	75	1.41	11.70	0612	150	1.41	17.55	0712	150	1.82	25.35
0513	100	1.22	11.70	0613	250	1.09	17.55	0713	250	1.41	25.35
0514	150	1.00	11.70	0614	500	0.775	17.55	0714	500	1.00	25.35
0515	250	0.775	11.70	0615	750	0.633	17.55	0715	750	.817	25.35
0516	500	0.548	11.70	0616	1000	0.548	17.55	0716	1000	.707	25.35
0517	750	0.447	12.35	0617	1500	0.449	17.55	0717	1500	.577	25.35
0518	1000	0.388	12.35	0618	2500	0.346	17.55	0718	2500	.447	25.35
0519	1500	0.316	12.35								
0520	2500	0.245	13.00								
0521	5000	0.173	13.65								
0522	7500	0.141	14.30								
0523	10000	0.122	15.60								

*Thru all or any part of winding. Diameter: 4". Depth Behind Panel: 1 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 1/4" or 2 6-32 Screws, Each 7/8" from Center of Shaft.

*Thru all or any part of winding. Diameter: 6". Depth Behind Panel: 2 1/4". Mounting: 2 1/4-20 Screws, Each 1-3/16" from Center of Shaft.

*Thru all or any part of the winding. Diameter: 8". Depth Behind Panel: 2 1/2". Mounting: 2 1/4-20 Screws, Each 1 1/2" from Center of Shaft.

RATING—CURRENT RATINGS SHOWN FOR ALL RHEOSTATS ARE FOR USE IN FREE AIR. WHEN UNITS ARE ENCLOSED VALUES SHOULD BE REDUCED ABOUT 50%.

DATA ON NON-STOCK RHEOSTATS—SPECIAL SHAFTS AND BUSHINGS; VALUES INTERMEDIATE TO THOSE LISTED; TAPERED WINDINGS; TANDEM ASSEMBLIES, ETC., FURNISHED UPON REQUEST.



HARDWICK-HINDLE INC.



FIXED VITREOUS ENAMELED RESISTORS WITH MOUNTING BRACKETS



Five stock sizes fill a great variety of applications.

Ratings are in accordance with NEMA standards, being based on a temperature rise of 250° C. in free air.

Data on types, sizes and values not listed herein, and for resistors with intermediate taps, special mountings, etc., furnished upon request.

TABLE OF RATINGS

25 WATT SIZE Type 2P5 2" Long x 5/8" O.D. Mounting Centers 2 1/2"			40 WATT SIZE Type 3 1/2 L5 3 1/2" Long x 3/4" O.D. Mounting Centers 4"			80 WATT SIZE Type 6 1/2 L5 6 1/2" Long x 3/4" O.D. Mounting Centers 7"			160 WATT SIZE Type 8 1/2 FX5 8 1/2" Long x 1 1/8" O.D. Mounting Centers 9 3/8"			200 WATT SIZE Type 10 1/2 FX5 10 1/2" Long x 1 1/8" O.D. Mounting Centers 11 3/8"		
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
1001	5	\$.80	2001	5	\$1.37	3001	5	\$2.03	4001	5	\$3.47	5001	5	\$3.75
1002	10	.80	2002	10	1.37	3002	10	2.03	4002	10	2.48	5002	10	2.70
1003	25	.80	2003	25	1.37	3003	25	2.03	4003	25	2.48	5003	25	2.70
1004	50	.80	2004	50	1.37	3004	50	2.03	4004	50	2.48	5004	50	2.70
1005	75	.80	2005	75	1.37	3005	75	2.03	4005	75	2.48	5005	75	2.70
1006	100	.80	2006	100	1.37	3006	100	2.03	4006	100	2.48	5006	100	2.70
1007	150	.80	2007	150	1.37	3007	250	2.03	4007	150	2.48	5007	150	2.70
1008	200	.80	2008	200	1.37	3008	500	2.03	4008	250	2.48	5008	250	2.70
1009	250	.80	2009	250	1.37	3009	1000	2.03	4009	500	2.48	5009	500	2.70
1010	500	.80	2010	500	1.37	3010	1500	2.08	4010	750	2.48	5010	750	2.70
1011	750	.80	2011	750	1.37	3011	2000	2.08	4011	1000	2.48	5011	1000	2.70
1012	1000	.80	2012	1000	1.37	3012	2500	2.08	4012	1500	2.53	5012	1500	2.75
1013	1500	.86	2013	1500	1.45	3013	3000	2.08	4013	2000	2.53	5013	2000	2.75
1014	2000	.86	2014	2000	1.45	3014	4000	2.08	4014	2500	2.53	5014	2500	2.75
1015	2500	.86	2015	2500	1.45	3015	5000	2.08	4015	3000	2.53	5015	3000	2.75
1016	3000	.86	2016	3000	1.45	3016	7500	2.25	4016	5000	2.53	5016	5000	2.75
1017	3500	.86	2017	4000	1.45	3017	10000	2.25	4017	7500	2.75	5017	7500	2.95
1018	4000	.86	2018	5000	1.45	3018	15000	2.47	4018	10000	2.75	5018	10000	2.95
1019	5000	.86	2019	7500	1.58	3019	20000	2.47	4019	15000	2.95	5019	15000	3.13
1020	6000	.94	2020	10000	1.58	3020	25000	2.67	4020	20000	2.95	5020	20000	3.13
1021	7500	.94	2021	12500	1.75	3021	30000	2.67	4021	25000	3.03	5021	25000	3.25
1022	10000	.94	2022	15000	1.75	3022	35000	2.67	4022	30000	3.03	5022	30000	3.25
1023	12000	1.00	2023	20000	1.75	3023	40000	2.67	4023	40000	3.03	5023	40000	3.25
1024	15000	1.00	2024	25000	1.95	3024	50000	2.81	4024	50000	3.13	5024	50000	3.36
1025	20000	1.00	2025	35000	1.95	3025	60000	2.81	4025	75000	3.36	5025	75000	3.55
1026	25000	1.13	2026	50000	2.14	3026	75000	3.00	4026	100000	3.55	5026	100000	3.75

ADJUSTABLE VITREOUS ENAMELED RESISTORS WITH MOUNTING BRACKETS

Embodying features originated by Hardwick, Hindle, Inc., resulting in a Resistor possessing the many advantages of Vitreous Enamel Construction, plus an adjustable feature.

The winding is closely and evenly spaced, assuring ample insulation between turns. Where the winding appears exposed in the track, its underside is tightly embedded in the enamel, the upper surface only being exposed for contact with the adjustable band.

All sizes of Adjustable Resistors listed herein are furnished complete with mounting brackets and with one adjustable contact band.

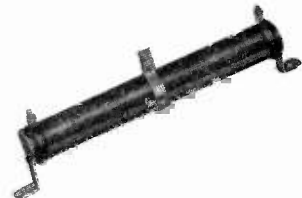


TABLE OF RATINGS

25 WATT SIZE Type K-25 2" Long x 5/8" O.D. Mount. Centers 2 1/2"			50 WATT SIZE Type K-50 4 1/2" Lng. x 5/8" O.D. Mount. Centers 5"			75 WATT SIZE Type K-75 6" Long x 5/8" O.D. Mount. Centers 6 1/2"			100 WATT SIZE Type K-100 6 1/2" Lng. x 1 1/8" O.D. Mount. Centers 7 3/8"			160 WATT SIZE Type K-160 8 1/2" Lng. x 1 1/8" O.D. Mount. Centers 9 3/8"			200 WATT SIZE Type K-200 10 1/2" Lng. x 1 1/8" O.D. Mount. Centers 11 3/8"		
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
6001	1	\$1.56	7001	5	\$1.97	8001	5	\$2.27	9001	5	\$2.97	9030	5	\$4.45	9060	5	\$4.72
6002	2	1.56	7002	10	1.97	8002	10	2.27	9002	10	2.97	9031	10	3.45	9061	10	3.64
6003	3	1.56	7003	25	1.97	8003	15	2.27	9003	25	2.97	9032	25	3.45	9062	25	3.64
6004	5	1.56	7004	50	1.97	8004	25	2.27	9004	50	2.97	9033	50	3.45	9063	50	3.64
6005	10	1.56	7005	75	1.97	8005	50	2.27	9005	100	2.97	9034	100	3.45	9064	100	3.64
6006	20	1.56	7006	100	1.97	8006	100	2.27	9006	250	2.97	9035	250	3.45	9065	250	3.64
6007	25	1.56	7007	200	1.97	8007	200	2.27	9007	500	2.97	9036	500	3.45	9066	500	3.64
6008	50	1.56	7008	250	1.97	8008	300	2.27	9008	1000	2.97	9037	1000	3.45	9067	1000	3.64
6009	75	1.56	7009	300	1.97	8009	400	2.27	9009	1500	3.05	9038	1500	3.50	9068	2500	3.70
6010	100	1.56	7010	400	1.97	8010	500	2.27	9010	2500	3.05	9039	2500	3.50	9069	5000	3.70
6011	200	1.56	7011	500	1.97	8011	750	2.27	9011	5000	3.05	9040	5000	3.50	9070	10000	3.92
6012	300	1.56	7012	750	1.97	8012	1000	2.27	9012	10000	3.22	9041	10000	3.70	9071	15000	4.12
6013	400	1.56	7013	800	1.97	8013	1500	2.36	9013	15000	3.42	9042	15000	3.92	9072	20000	4.12
6014	500	1.56	7014	1000	1.97	8014	2000	2.36	9014	20000	3.42	9043	20000	3.92	9073	25000	4.20
6015	750	1.56	7015	1500	2.05	8015	2500	2.36	9015	25000	3.64	9044	25000	4.00	9074	30000	4.20
6016	800	1.56	7016	2000	2.05	8016	3000	2.36	9016	30000	3.64	9045	30000	4.00	9075	40000	4.20
6017	1000	1.56	7017	2500	2.05	8017	4000	2.36	9017	40000	3.64	9046	40000	4.00	9076	50000	4.30
6018	1250	1.58	7018	3000	2.05	8018	5000	2.36	9018	50000	3.78	9047	50000	4.12	9077	75000	4.53
6019	1500	1.58	7019	4000	2.05	8019	6000	2.50	9019	75000	3.97	9048	75000	4.30	9078	100000	4.72
6020	2000	1.58	7020	5000	2.05	8020	7000	2.50	9020	100000	4.13	9049	100000	4.53			
6021	2500	1.58	7021	6000	2.19	8021	7500	2.50									
6022	3000	1.58	7022	7000	2.19	8022	10000	2.50									
6023	3500	1.58	7023	7500	2.19	8023	15000	2.65									
6024	4000	1.58	7024	8000	2.19	8024	20000	2.65									
6025	5000	1.58	7025	9000	2.19	8025	25000	2.92									
6026	6000	1.70	7026	10000	2.19	8026	30000	2.92									
6027	7000	1.70	7027	12000	2.36	8027	40000	2.92									
6028	8000	1.70	7028	15000	2.36	8028	50000	3.00									
6029	10000	1.70	7029	20000	2.36	8029	60000	3.00									
6030	15000	1.75	7030	25000	2.55	8030	80000	3.28									
6031	20000	1.75	7031	30000	2.55	8031	100000	3.61									
6032	25000	1.89	7032	40000	2.55												
			7033	50000	2.75												

ADJUSTABLE CONTACT BANDS

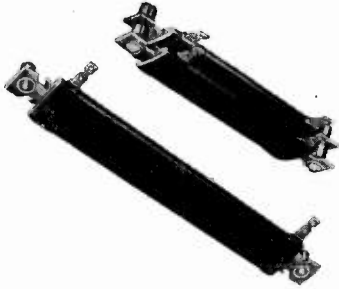
SCREW TYPE	Diameter of Resistor	Stock No.	List Price
	5/8"	1791-6	.20
	1 1/8"	1793-4	.25
BAKELITE TYPE KNOB	5/8"	1791-6-X	.30
	1 1/8"	1793-4-X	.40



HARDWICK-HINDLE INC.



BLUE RIBBON RESISTORS



The standard method of mounting Blue Ribbon Resistors is by means of an aluminum thru-bar, which is in intimate contact with the entire internal surface of the ceramic core. The presence of this thru-bar distributes the heat generated by the Resistor uniformly along its entire length, substantially spreading the hot spot normally encountered in tubular resistors with conventional mounting. Mounting studs riveted to the ends of the thru-bar further tend to conduct the heat to the mounting surfaces. These mounting studs are also designed to act as spacers when two or more units are stacked.

In comparison with tubular units of equivalent wattage rating Blue Ribbon Resistors have the following advantages: Higher wattage rating per unit space requirement. Substantial reduction in depth behind mounting surface. Ease and economy of mounting—either singly or stacked. Lower inductance. Light weight. Resistor and mounting integral unit; cannot rotate or become loose.

TABLE OF RATINGS

TYPE 1 1/4" B 30 Watt Rating* Mounting Centers 2"			TYPE 2" B 40 Watt Rating* Mounting Centers 2 3/4"			TYPE 3 1/2" B 55 Watt Rating* Mounting Centers 4 1/4"			TYPE 6" B 75 Watt Rating* Mounting Centers 6 3/4"		
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
B101	5	\$1.53	B201	5	\$1.61	B301	5	\$1.85	B601	5	\$2.30
B102	10	1.53	B202	10	1.61	B302	10	1.85	B602	10	2.30
B103	15	1.53	B203	15	1.61	B303	15	1.85	B603	15	2.30
B104	25	1.53	B204	25	1.61	B304	25	1.85	B604	25	2.30
B105	50	1.53	B205	50	1.61	B305	50	1.85	B605	50	2.30
B106	100	1.53	B206	100	1.61	B306	100	1.85	B606	100	2.30
B107	150	1.53	B207	150	1.61	B307	150	1.85	B607	150	2.30
B108	250	1.53	B208	250	1.61	B308	250	1.85	B608	250	2.30
B109	500	1.53	B209	500	1.61	B309	500	1.85	B609	500	2.30
B110	1000	1.53	B210	1000	1.61	B310	1000	1.85	B610	1000	2.30
B111	1500	1.53	B211	1500	1.61	B311	1500	1.85	B611	1500	2.30
B112	2500	1.53	B212	2500	1.61	B312	2500	1.85	B612	2500	2.30
B113	5000	1.65	B213	5000	1.72	B313	5000	1.96	B613	5000	2.41
B114	10000	1.65	B214	10000	1.93	B314	10000	2.17	B614	10000	2.61
			B215	15000	2.02	B315	15000	2.26	B615	15000	2.70
						B316	25000	2.48	B616	25000	2.93
									B617	50000	3.30

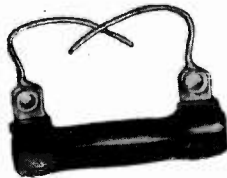
*This rating based on a maximum temperature rise of 250 degrees C. with the Resistor mounted horizontally on a 10" x 10" x .040" steel plate supported horizontally 1/2" above a wooden surface.

When Resistors are mounted on a non-metallic base the nominal watt rating should be reduced by approximately 15%.

All stock numbers in each type listed above are available with adjustable feature complete with one movable contact band.

10 and 20 WATT FIXED VITREOUS ENAMELED RESISTORS

Designed particularly for radio service and replacement use—conservatively rated—wound upon Steatite Tube—combination lug and pigtail terminal connections—Hardwick, Hindle vitreous



enamel insulation, insuring permanence of value and proof against moisture. 10 watt and 20 watt sizes available in the range of resistance values shown.

TABLE OF RATINGS

10 WATT 1 3/4" Long x 3/8" O.D.			20 WATT 2" Long x 1/2" O.D.								
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
A101	1	\$.58	A119	1500	\$.63	A201	5	\$.75	A219	4000	\$.78
A102	3	.58	A120	2000	.63	A202	10	.75	A220	5000	.78
A103	5	.58	A121	2500	.63	A203	25	.75	A221	6000	.88
A104	7.5	.58	A122	3000	.63	A204	50	.75	A222	7500	.88
A105	10	.58	A123	4000	.63	A205	75	.75	A223	10000	.88
A106	15	.58	A124	5000	.63	A206	100	.75	A224	12500	.94
A107	25	.58	A125	7500	.72	A207	150	.75	A225	15000	.94
A108	50	.58	A126	10000	.72	A208	200	.75	A226	25000*	1.08
A109	75	.58	A127	12500*	.80	A209	250	.75	A227	35000*	1.08
A110	100	.58	A128	15000*	.80	A210	400	.75	A228	40000*	1.08
A111	150	.58	A129	20000*	.80	A211	500	.75	A229	50000*	1.25
A112	200	.58	A130	25000*	.86	A212	750	.75	A230	60000*	1.25
A113	250	.58	A131	30000*	.97	A213	1000	.75	A231	70000*	1.46
A114	400	.58	A132	35000*	.97	A214	1250	.78	A232	75000*	1.46
A115	500	.58	A133	40000*	.97	A215	1500	.78	A233	80000*	1.46
A116	750	.58	A134	45000*	.97	A216	2000	.78	A234	90000*	1.69
A117	1000	.58	A135	50000*	.97	A217	2500	.78	A235	100000*	1.69
A118	1250	.63				A218	3000	.78			

* Low Temperature Enamel.

* Low Temperature Enamel.

MADE TO ORDER PRODUCTS

In addition to the standard line of resistor and rheostat products, which are in stock for immediate shipment, Hardwick, Hindle, Inc., is always pleased to receive orders for made to order products, such as, Non-inductive vitreous enameled resistors, Radio frequency chokes, Power line chokes and Soldering Iron controls. Non-inductive resistors are available in three standard sizes; 25,

50 and 100 watt.

Radio frequency chokes and Power line chokes are also available in three standard sizes.

Soldering iron controls and Photographic lamp controls are made to order in ten different sizes.

Data on the above products can be furnished upon request.