

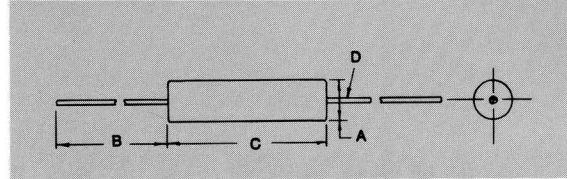
WIREWOUND RESISTORS

Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.

W/AXIAL LEADS: TYPE VL — 3, 5, 10 WATTS/OHM VALUES 1-50,000

Wt. (Lbs.) Ohms	VL3 .002 Max. Amps	VL5 .006 Max. Amps	VL10 .014 Max. Amps	Wt. (Lbs.) Ohms	VL3 .002 Max. Amps	VL5 .006 Max. Amps	VL10 .014 Max. Amps
1	1.80	2.24	3.32	600	.073	.091	
1.5	1.47	1.83	2.71	700	.068	.084	
2	1.27	1.58	2.34	750	.065	.082	.12
3	1.04	1.29	1.92	800	.064	.079	
4	.90	1.11	1.66	820		.078	
5	.81	1.00	1.48	900	.060	.074	
7.5	.65	.82	1.21	1000	.056	.071	.11
10	.56	.71	1.05	1100	.054		
12		.65		1200	.052	.065	
15	.47	.58	.86	1500	.047	.058	.086
20	.40	.50	.74	1800		.053	
25	.36	.45	.66	2000	.040	.050	.074
30	.30	.41	.61	2200	.039	.048	
35	.30	.38	.56	2500	.036	.045	.066
40	.28	.35	.51	3000	.033	.041	.061
47	.26	.33		3300	.031	.039	
50	.25	.32	.47	4000	.028	.035	.052
75	.21	.26	.38	4700	.026		
100	.18	.22	.33	5000	.025	.032	.047
125			.29	6000	.023	.029	.043
150	.15	.18	.27	7000	.021	.027	
200	.13	.16	.23	7500	.021	.026	.038
220	.12	.15	.22	8000		.025	
250	.11	.14	.21	8200	.020		
270	.109	.14		9000	.019	.024	
300	.100	.13	.19	10000	.018	.022	.033
330	.099	.12		12000		.020	
350		.12		15000		.018	.027
390	.091			20000		.016	
400	.090	.11	.16	25000		.014	.021
450	.084	.11	.16	35000			.018
500	.081	.10	.15	50000			.015



	A	B	C	D
VL3	1/2	1 1/2	1 1/2	.032
VL5	5/16	1 1/2	1 1/4	.036
VL10	3/8	1 1/2	1 1/4	.036

FEATURES:

- Lowest cost Wirewound Resistor with vitreous enamel coating.
- Popular small sizes for circuit board, point-to-point, or terminal board applications.
- Welded terminations and lead/end cap assembly assure maximum reliability.
- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing vitreous enamel at temperatures exceeding 1000°F.
- Uniformly tinned leads assure reliable electrical and mechanical connections.
- Uniform winding and coating assure uniform heat dissipation and excellent appearance.
- Low temperature coefficient.
- Available with Non-inductive winding.

SPECIFICATIONS:

- Resistance tolerance $\pm 5\%$. . . Closer tolerance available.
- Temperature coefficient ± 150 PPM . . . Lower TC available.
- Available Resistance Range of 1 to 50,000 Ohm.
- Supplementary insulation is recommended when potential to ground is greater than 500 V.
- Dimensional tolerances $\pm 1/32$ ".

**MEMCOR-
TRUOHM INC.**

Vitreous Enamel: Type VL — 3, 5, 10 Watts/Ohm Values 1-50,000

**WIREWOUND
RESISTORS**

SPECIFICATIONS

APPLICABLE MIL SPECIFICATIONS

MIL-R-26E: This is a military specification designed especially for precision and non-precision power wirewound resistors. The SL series meet the requirements of this specification.

ELECTRICAL

Tolerance: SL Types are available in the following standard tolerances: 5%, 3%, 1%

Dielectric Strength: 1000 volts. Available

Insulation Resistance: 1000 megohms minimum dry, 100 megohms minimum after moisture test.

Short Time Overload: 5 seconds at 5 times rated power=SL-0001; 5 seconds at 10 times rated power=SL-0002—SL-0010.

MECHANICAL

Terminal Strength: 5 lb. pull test=SL-0001; 10 lb. pull test=all others.

Solderability: Continuous, satisfactory coverage when tested in accordance with MIL-R-26E.

Core: Ceramic or Steatite depending on physical size.

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value.

End Caps: Stainless steel.

Coating: Special high temperature silicone.

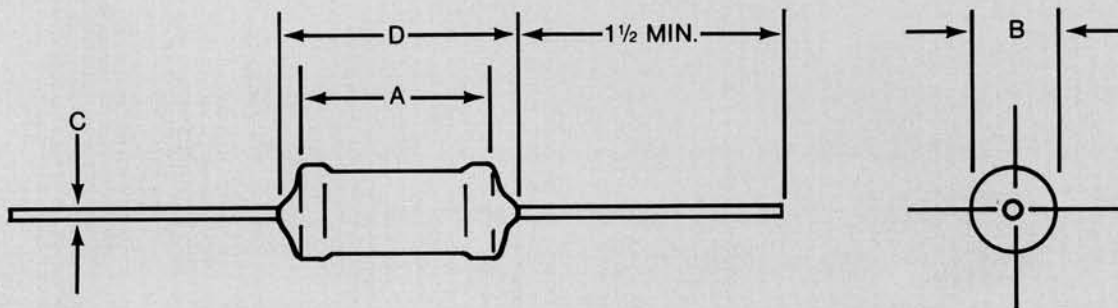
Standard Terminals: Tinned copperweld.

FEATURES

- Complete welded construction
- High temperature silicone coating and molding
- Meets applicable requirements of MIL-R-26
- Available in non-inductive styles with Aryton-Perry winding for lowest reactive components

SPECIAL MODIFICATIONS

- Various elements available for special T.C.
- Special configurations available on request
- Tolerances available to .10% on most types
- Special matching available (T.C. and tolerance)



WIREWOUND RESISTORS, W/AXIAL LEADS

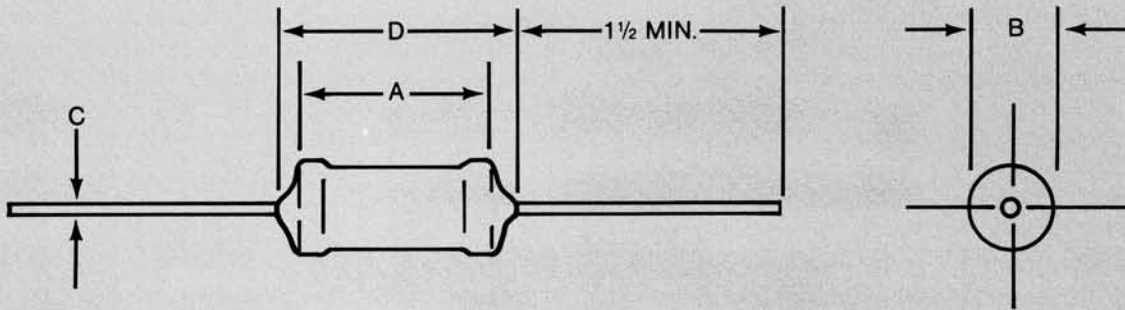
**MEMCOR-
TRUOHM INC.**

WIREWOUND
RESISTORS
W/AXIAL LEADS

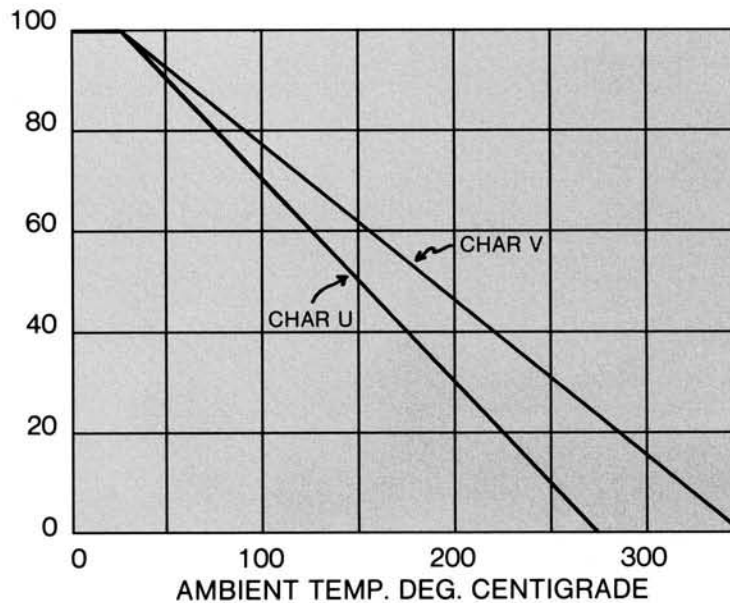
TYPE SL
1-10 WATTS

**MEMCOR-
TRUOHM INC.**

RESISTORS



STYLE	WATTS	A	B	C	MAX. DIM.
SL-0001	1	.363/.383	.100/.115	.020	.395
SL-0002	2	.332/.352	.205/.190	.032	.375
SL-0003	3	.457/.477	.205/.190	.032	.500
SL-0005	5	.895/.915	.305/.290	.040	.950
SL-0005-AM	5	.801/.821	.205/.190	.032	.850
SL-0007	7	.995/1.015	.305/.290	.040	1.050
SL-0010	10	1.707/1.727	.355/.340	.040	1.750



CHARACTERISTIC U: 1.275 C maximum hotspot temperature

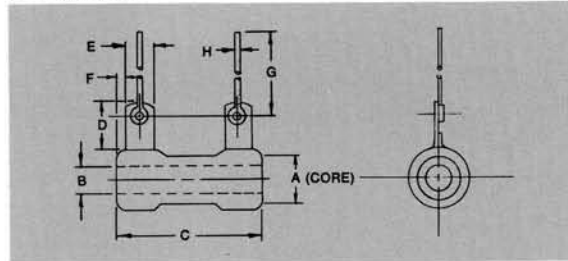
CHARACTERISTIC V: 1.350 C maximum hotspot temperature

**MEMCOR-
TRUOHM INC.**

WIREWOUND RESISTORS, W/AXIAL LEADS

FIXED W/LEADS: TYPE FRL — 5-8, 10-12, 20 WATTS

Mfg. Bracket Mfg. Centers Wt. (Lbs.)	FR5-8			FR10-12			FR20		
	1441-003-001 1 1/2" / .012	1441-003-001 2 1/2" / .019	1441-004-001 2 1/2" / .033	1441-003-001 1 1/2" / .012	1441-003-001 2 1/2" / .019	1441-004-001 2 1/2" / .033	1441-003-001 1 1/2" / .012	1441-003-001 2 1/2" / .019	1441-004-001 2 1/2" / .033
Ohms	Max. Amps	Max. Amps	Max. Amps	Ohms	Max. Amps	Max. Amps	Ohms	Max. Amps	Max. Amps
0.5		4.90	6.32	750	.10	.12	.16		
1	2.29	3.46	4.47	800	.10	.12	.15		
1.5	2.30	2.82		900	.094	.11	.15		
2	2.00	2.45	3.16	1000	.089	.11	.14		
3	1.63	2.00	2.58	1100	.085	.10			
4	1.41	1.73	2.24	1200	.081	.10	.13		
5	1.26	1.54	2.00	1250	.080	.097	.12		
7.5	1.00	1.26		1500	.073	.089	.12		
10	.89	1.09	1.41	1750	.067	.082	.11		
12	.81	1.00		2000	.063	.077	.10		
15	.73	.89		2250	.059	.073	.094		
20	.63	.77		2500	.056	.069	.089		
25	.56	.69	.89	3000	.046	.063	.081		
30	.51	.63		3500	.043	.058	.075		
35	.47	.58		4000	.040	.054	.070		
40	.44	.54		4500	.038	.051	.066		
50	.40	.49	.63	5000	.036	.049	.063		
75	.32	.40	.52	6000	.033	.044	.057		
100	.28	.34	.45	7000	.030	.041	.053		
125	.25	.31		7500	.029	.036	.051		
150	.23	.28	.36	8000	.029	.035	.050		
200	.20	.24	.32	9000	.027	.033	.047		
225	.18	.23		10000	.026	.032	.043		
250	.17	.22	.28	12500	.023	.028	.032		
300	.16	.20	.26	15000	.021	.026	.029		
350	.15	.18	.24	20000	.018	.022	.026		
400	.14	.17	.22	25000	.015	.020	.023		
450	.13	.16		30000					
500	.12	.15	.20	50000		.014	.016		
600	.11	.14		75000			.013		
700	.11	.13	.17	100000			.011		



	A	B	C	D	E	F	G	H
FRL5-8W	3/4	.200	1	3/4	3/4	3/2	1 1/4	.036
FRL10-12W	3/4	.200	1 1/4	3/4	3/4	3/2	1 1/4	.036
FRL20W	3/4	1/4	2	3/4	3/4	3/2	1 1/4	.036

FEATURES:

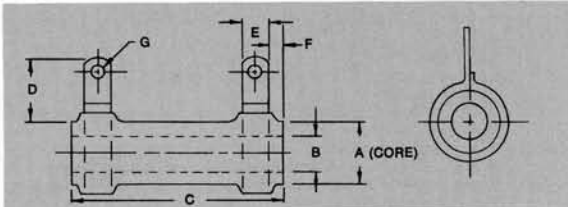
- Tubular construction provides excellent heat dissipation.
- Welded terminals and termination guarantees positive electrical connections.
- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing at temperatures exceeding 1000°F.
- Tinned terminals provide reliable solder or mechanical connections.
- Uniform winding and coating provides uniform heat dissipation and excellent appearance.
- Available in Non-inductive winding.
- Supplied with 1 1/2" solder leads.
- Other hardware available for mounting. See Hardware Section.

SPECIFICATIONS:

- Resistance tolerance $\pm 5\%$... closer tolerance available.
- Temperature coefficient ± 100 PPM ... Lower TC available.
- When dual wattages are shown ... Lower wattages have a maximum "hotspot" of 275°C. Higher wattages have a maximum "hotspot" of 350°C.
- Available resistance range 0.5 ohm to 100,000 ohm.
- Meets or exceeds applicable specifications of MIL-R-26.
- Dimensional Tolerances $\pm 1/2$ ".

FIXED W/TABS: TYPE FR — 5-8, 10-12, 20, 25, 50, 100, 160-175, 200-225 WATTS

Mounting Brackets Mounting Centers Wt. (Lbs.)	FR25		FR50		FR100		FR160-175		FR200-225	
	1441-005-001 2 3/4" / .051	1441-005-001 4 3/4" / .082	1441-006-001 7 3/4" / .2	1441-007-001 9 3/4" / .445	1441-007-001 11 3/4" / .74	Ohms	Max. Amps	Max. Amps	Max. Amps	Max. Amps
1	5	7.07	10	13.2	15					
2	3.54	5	7.07		10.60					
3	2.88	4.07								
4	2.50	3.53								
5	2.24	3.16	4.47	5.92	6.72					
10	1.58	2.23	3.16	4.18	4.74					
15	1.29			3.24						
25	1	1.41	2	2.64	3					
50	.71	1	1.41	1.87	2.12					
75	.58	.82	1.15		1.73					
100	.50	.71	1	1.32	1.50					
150	.41	.58	.82	1.08						
200	.35	.50								
250	.32	.45	.63	.84	.95					
500	.22	.32	.45	.59	.67					
750	.18	.26	.37							
1000	.16	.22	.32	.42	.47					
1500	.13	.18		.34						
2000	.12	.16	.22	.30	.34					
2500	.10	.14								
3000	.091									
3500	.084									
4000	.079									
5000	.070	.10	.14	.19	.21					
6000	.064									
7500	.057	.081			.17					
10000	.050	.071	.10	.13	.15					
15000	.036	.057		.11						
20000	.031	.050	.071	.094	.11					
25000	.028	.045	.063	.083						
50000	.019	.026	.045	.059	.067					
75000		.021	.032	.048						
80000	.012									
100000	.0094	.018	.028	.042	.047					



	A	B	C	D	E	F	G
FR5-8	3/4	.200	1	3/4	3/4	3/2	.104
FR10-12	3/4	.200	1 1/4	3/4	3/4	3/2	.104
FR20	3/4	1/4	2	3/4	3/4	3/2	.104
FR25	3/4	3/4	2	3/4	3/4	3/2	.104
FR50	3/4	3/4	4	3/4	3/4	3/2	.144
FR100	3/4	1/2	6 1/2	3/4	3/4	3/2	.144
FR160-175	1 1/4	3/4	8 1/2	3/4	3/4	3/2	.177
FR200-225	1 1/4	3/4	10 1/2	3/4	3/4	3/2	.177

FEATURES:

- Tubular construction provides excellent heat dissipation.
- Welded terminals and termination guarantees positive electrical connections.
- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing at temperatures exceeding 1000°F.
- Tinned terminals provide reliable solder or mechanical connections.
- Uniform winding and coating provides uniform heat dissipation and excellent appearance.
- Available in Non-inductive winding.
- Quick disconnect terminal available as optional feature.
- Standard units supplied with push-in mounting brackets.
- Other hardware available for mounting. See Hardware Section.

SPECIFICATIONS:

- Resistance tolerance $\pm 5\%$... closer tolerance available.
- Temperature coefficient ± 100 PPM ... Lower TC available.
- When dual wattages are shown ... Lower wattages have a maximum "hotspot" of 275°C. Higher wattages have a maximum "hotspot" of 350°C.
- Available resistance range 0.5 ohm to 100,000 ohm.
- Meets or exceeds applicable specifications of MIL-R-26.
- Dimensional Tolerances $\pm 1/2$ " ... except $\pm 1/4$ " on length of FR100W, FR160-175W and FR200-225W.

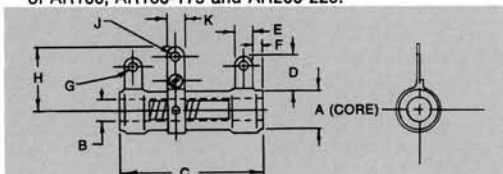
ADJUSTABLE: TYPE AR — 10-12, 25, 50, 75, 100, 160-175, 200-225 WATTS

Mounting Bracket Wt. (Lbs.)	AR10	AR25	AR50	AR75	AR100	AR160-175	AR200-225
	1441-003-001 .02	1441-005-001 .05	1441-009-001 .09	1441-015-001 .15	1441-020-001 .20	1441-050-001 .50	1441-067-001 .62
Ohms	Max. Amps	Max. Amps	Max. Amps	Max. Amps	Max. Amps	Max. Amps	Max. Amps
1	3.46	5.0	7.07	8.66	10	13.2	15
2	2.45	3.54	5.00				
3	2.00	2.88					
5	1.54	2.24	3.16	3.87	4.47	5.92	6.72
7.5	1.26	1.82					
10	1.09	1.58	2.23	2.74	3.16	4.18	4.74
15	.89	1.29		2.24			
20	.77	1.12					
25	.69	1.00	1.41	1.73	2.00	2.64	3.00
50	.49	.71	1.00	1.22	1.41	1.87	2.12
75	.40	.58	.82	.86	1.00	1.32	1.50
100	.34	.50	.71				
150	.28	.41	.58				
200	.24	.35	.50	.61			
250	.22	.32	.45	.55	.63	.84	.95
300	.20	.29	.41				
400	.17	.25	.35				
500	.15	.22	.32	.39	.45	.59	.67
750	.13	.18	.25				
1000	.11	.16	.22	.27	.32	.42	.47
1500	.089	.13	.18				
2000	.077	.12	.16	.19			
2500	.069	.10	.14		.20	.26	.30
3000	.603	.01	.13				
3500	.058						
4000		.079					
5000	.049	.070	.10	.12	.14	.19	.21
7500	.040	.057	.081	.10			
10000	.035	.050	.071	.086	.10	.13	.15
12000		.042					
15000		.036	.057	.070			
20000		.031			.063	.083	.095
25000		.028	.045	.054	.063	.083	.095
50000			.026	.033	.045	.059	.067
75000					.032	.048	.055
100000					.028	.042	.047

- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing at temperatures exceeding 1000°F.
- Tinned terminals provide reliable solder or mechanical connections.
- Uniform winding and coating provide uniform heat dissipation and excellent appearance.
- Quick disconnect terminals available as optional features.
- Standard units supplied with push-in mounting brackets.
- Other hardware available for mounting. See Hardware Section.

SPECIFICATIONS:

- Resistance tolerance $\pm 10\%$... Closer tolerance available.
- Temperature coefficient ± 100 PPM ... Lower TC available.
- When dual wattages are shown ... Lower wattages have a maximum "hotspot" of 275°C. Higher wattages have a maximum "hotspot" of 350°C.
- Available resistance range 1.0 to 100,000 Ohms.
- Meets or exceeds applicable specifications of MIL-R-19365.
- Dimensional tolerances $\pm \frac{1}{32}$ " ... except $\pm \frac{1}{16}$ " on length of AR100, AR160-175 and AR200-225.



	A	B	C	D	E	F	G	H	J	K
AR10-12	$\frac{3}{16}$	.200	1 $\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.104	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{3}{16}$
AR25	$\frac{3}{16}$	$\frac{3}{16}$	2	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	.144	1 $\frac{3}{16}$	.173	$\frac{3}{16}$
AR50	$\frac{3}{16}$	$\frac{3}{16}$	4	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{3}{16}$	.144	1 $\frac{3}{16}$	.173	$\frac{3}{16}$
AR75	$\frac{3}{16}$	$\frac{3}{16}$	6	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	.144	1 $\frac{3}{16}$	.173	$\frac{3}{16}$
AR100	$\frac{3}{16}$	$\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	.144	1 $\frac{1}{4}$	.141	$\frac{3}{16}$
AR160-175	1 $\frac{1}{8}$	$\frac{3}{4}$	8 $\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{3}{16}$	.177	1 $\frac{3}{16}$	.170	$\frac{3}{16}$
AR200-225	1 $\frac{1}{8}$	$\frac{3}{4}$	10 $\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	.177	1 $\frac{3}{16}$	.170	$\frac{3}{16}$

FEATURES:

- Tubular construction provides excellent heat dissipation.
- Welded terminals and termination guarantees positive electrical connections.

OVAL/MINIATURE OVAL: TYPE ZR (Oval) 30, 40, 55 W./TYPE MZ (Min. Oval) 10, 20 W.

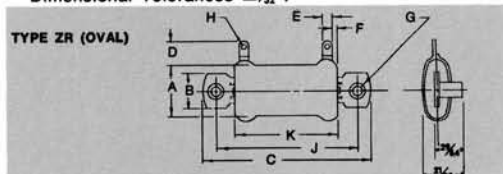
FEATURES:

- Miniaturized oval for maximum power dissipation with lowest profile.
- Welded terminals and termination guarantee positive electrical connections.
- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing at temperatures exceeding 1000°F.
- Tinned terminals provide reliable solder or mechanical connections.
- Uniform winding and coating provides uniform heat dissipation and excellent appearance.
- Available with Non-inductive winding.

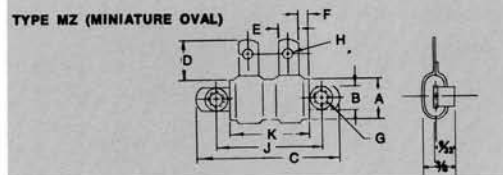
- Standard hardware allows stacking of units.
- Quick disconnect terminals available as optional features.

SPECIFICATIONS:

- Resistance tolerance $\pm 5\%$... Closer tolerance available.
- Temperature coefficient ± 100 PPM ... Lower TC available.
- Available resistance range 1 Ohm to 25,000 Ohm.
- Meets or exceeds applicable specifications of MIL-R-26.
- Dimensional Tolerances $\pm \frac{1}{32}$ ".



	A	B	C	D	E	F	G	H	J	K
ZR30	1	1 $\frac{1}{16}$	2 $\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.196	.104	2	1 $\frac{1}{4}$
ZR40	1	1 $\frac{1}{16}$	3 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.196	.104	2 $\frac{3}{4}$	2
ZR55	1	1 $\frac{1}{16}$	4 $\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.196	.104	4 $\frac{1}{4}$	3 $\frac{1}{2}$



	A	B	C	D	E	F	G	H	J	K
MZ10	$\frac{3}{16}$	$\frac{1}{4}$	1 $\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{16}$.128	.062	1	$\frac{3}{4}$
MZ20	$\frac{3}{16}$	$\frac{1}{4}$	2 $\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{16}$.128	.062	2	$\frac{3}{4}$

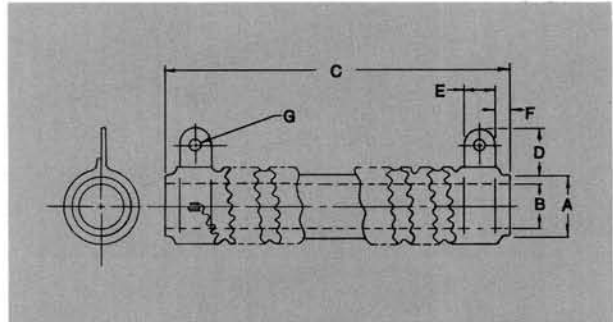
WIREWOUND RESISTORS

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Huntington, Indiana 46750
Telephone (219) 356-4300

MEMCOR- TRUOHM INC.

EDGEWOUND — TYPE TRU-RIB — 40 TO 1500 WATT

A	B	C	D	E	F	G	Wattage
3/16	3/16	2	1 1/16	3/16	1/8	.187	RR-0040
3/16	3/16	4	3/4	1/2	1/4	.196	RR-0090
3/4	1/2	3 1/2	3/4	1/2	1/4	.196	RR-0100
3/4	1/2	4	3/4	1/2	1/4	.196	RR-0105
1	5/8	4	3/4	1/2	1/4	.196	RR-0125
3/4	1/2	5	3/4	1/2	1/4	.196	RR-0135
1	5/8	5	3/4	1/2	1/4	.196	RR-0150
3/4	1/2	6	3/4	1/2	1/4	.196	RR-0160
3/4	1/2	6 1/2	3/4	1/2	1/4	.196	RR-0180
1 1/8	3/4	5	3/4	1/2	1/4	.196	RR-0185
1	5/8	6	3/4	1/2	1/4	.196	RR-0190
1 1/8	3/4	6	3/4	1/2	1/4	.196	RR-0220
1 1/2	1 1/8	5	3/4	1/2	1/4	.196	RR-0270
1 1/8	3/4	8 1/2	3/4	1/2	1/4	.196	RR-0300
1	5/8	10	3/4	1/2	1/4	.196	RR-0315
1 1/8	3/4	10 1/2	3/4	1/2	1/4	.196	RR-0375
1 5/8	1 1/8	8 1/2	3/4	1/2	1/4	.196	RR-0400
1 1/8	3/4	11 1/4	3/4	1/2	1/4	.196	RR-0420
1 5/8	1 1/8	10 1/2	3/4	1/2	1/4	.196	RR-0500
1 5/8	1 1/8	11 3/4	3/4	1/2	1/4	.196	RR-0550
2 1/2	1 3/4	12	3/4	1/2	1/4	.196	RR-0750
2 1/2	1 3/4	15	3/4	1/2	1/4	.196	RR-1000
2 1/2	1 3/4	20	3/4	1/2	1/4	.196	RR-1500



FEATURES:

- Heavy duty unit designed for application demanding maximum power dissipation in minimum space.
- Heavy ceramic tubular core provides heat sink for short term overloads.
- Available from 40 to 1500 watts.
- Available with tap or adjustable lug.
- A variety of mounting hardware available. See Hardware section.
- Welded terminals and termination guarantee positive electrical connections.
- Tinned terminals provide reliable solder or mechanical connections.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$.
- Temperature coefficient ± 100 ppm.
- Maximum Hotspot equal 415°C .
- Available resistance range $.01\Omega$ to 198Ω .
- Meets or exceeds applicable specifications of MIL-R-26.
- Dimensional tolerances $\pm \frac{1}{32}''$. . . except $\pm \frac{1}{16}''$ on length of 6" and above.

MILITARY — MADE TO MIL-R-26

Type		Rated Wattage V Characteristic	Min. Ohms	Max. Ohms
FERRULE	RW10	203	.20	180,000
	RW11	168	.10	160,000
	RW12	125	.10	110,000
	RW13	72	.10	51,000
	RW14	58	.10	43,000
	RW15	29	.10	15,000
	RW16	20	.10	8,200
OVAL	RW20	21	.10	8,200
	RW21	31	.10	16,000
	RW22	53	.10	36,000
	RW23	68	.10	51,000
	RW24	91	.10	75,000
TUBULAR	RW29	11	.10	5,600
	RW30	11	.10	2,700
	RW31	14	.10	6,800
	RW32	17	.10	10,000
	RW33	26	.10	18,000
	RW35	55	.10	43,000
	RW36	78	.10	56,000
	RW37	113	.10	91,000
	RW38	159	.10	150,000
	RW47	210	.10	180,000
AXIAL	RW55	7	.10	5,100
	RW56	14	.10	9,100
	RW57	6.5	.10	3,600
	RW58	11	.10	8,200
	RW59	3	.10	910
	RW67	6.5	.10	3,600
	RW68	11	.10	8,200
	RW69	3	.10	910

MEMCOR- TRUOHM INC.

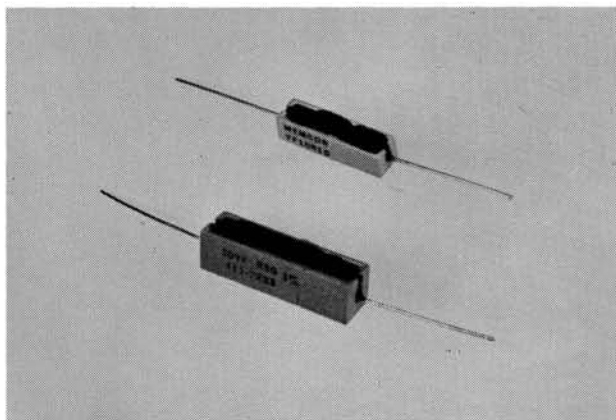
Edgewound — Type TRU-RIB — 40 to 1500 Watt
Military — Made to MIL-R-26

WIREWOUND RESISTORS

MEMCOR- TRUOHM INC.

Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

WIREWOUND RESISTORS

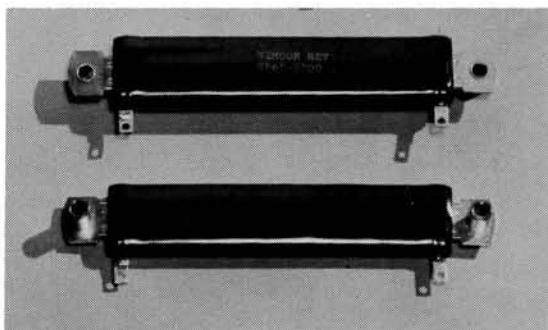
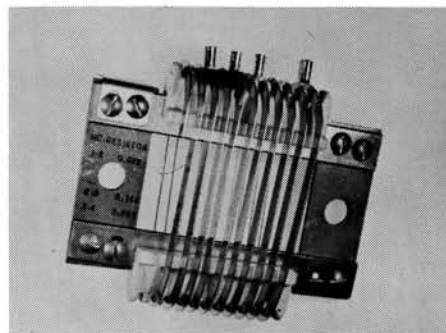


TYPE VF/VITREOUS-FIXED

AVAILABLE RESISTANCE RANGE .01-0.5 OHMS

AVAILABLE WATTAGE 3-25 WATTS

TYPE HC/HIGH CURRENT
.05-5.1 OHMS AVAILABLE RESISTANCE RANGE
300-2700 WATTS AVAILABLE WATTAGE

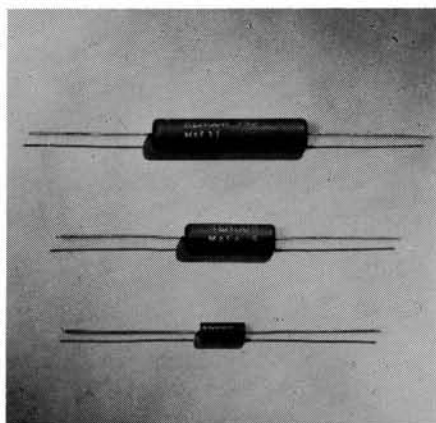


TYPE ML/MOLDED SILICONE
0.1-50,000 OHMS AVAILABLE RESISTANCE RANGE
5-11 WATTS AVAILABLE WATTAGE

TYPE ZR/OVALS

AVAILABLE RESISTANCE RANGE 0.1-50,000 OHMS

AVAILABLE WATTAGE 65 & 75 WATTS



TYPE RW/FERRULE

AVAILABLE RESISTANCE RANGE 1-100,000 OHMS

AVAILABLE WATTAGE 25-200 WATTS

WIREWOUND RESISTORS

Type VF/Vitreous-Fixed
Type HC/High Current

Type ZR/Ovals

Type ML/Molded Silicone
Type RW/Ferrule

MEMCOR- TRUOHM INC.

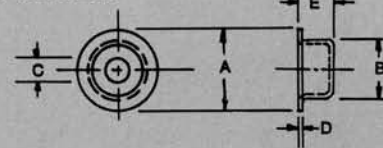
RESISTOR HARDWARE

Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.

WASHERS — CENTERING/MICA

CENTERING WASHERS



MICA WASHERS

Part No. 1321-010-	I.D.	O.D.	Thickness
003	.187	.750	.025
005	.250	.625	.031
007	.312	.750	.025
012	.500	1.000	.031
013	.562	1.125	.031
014	.750	1.375	.031
019	1.125	1.875	.031
020	1.812	3.000	.045

Part No. 1431-026-	A	B	C	D	E	Recommended for Resistors with I.D. of
001	.437	.295	.175	.025	.130	5/16
004	.500	.230	.165	.024	.093	1/4
009	.750	.484	.196	.025	.078	1/2
011	.750	.563	.190	.031	.188	5/8
015	1.125	.719	.265	.032	.187	3/4
017	1.375	1.063	.265	.031	.187	1 1/8
019	2.375	1.688	.265	.026	.187	1 3/4

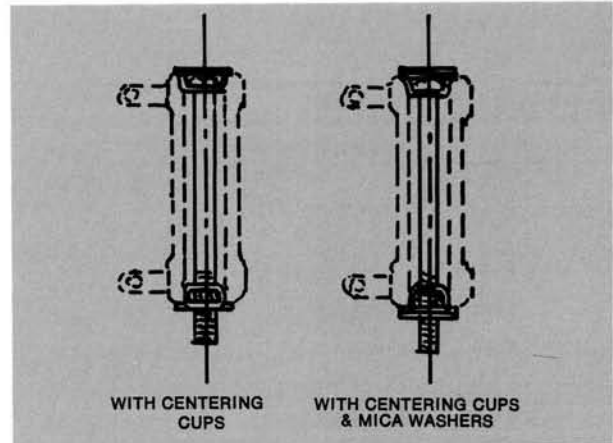
VERTICAL THRU-BOLT MOUNTING

Without Mica Washer Order 1245-004-XXX		With Mica Washer Order 1245-005-XXX	
Resistor Type	XXX	Resistor Type	XXX
FR-AR-5	-001	FR-AR-5	-001
FR-AR-10	-002	FR-AR-10	-002
FR-20	-003	FR-20	-003
FR-AR-25	-004	FR-AR-25	-004
FR-AR-50	-005	FR-AR-50	-005
FR-AR-75	-007	FR-AR-75	-007
FR-AR-100	-012	FR-AR-100	-012
FR-AR-160	-021	FR-AR-160	-020
FR-AR-200	-022	FR-AR-200	-021
RR-40	2" LG. -004	RR-40	2" LG. -004
RR-90	4 -005	RR-90	4 -005
RR-105	5 -006	RR-105	5 -006
RR-135	6 -007	RR-135	6 -007
RR-100	3 1/2 -008	RR-100	3 1/2 -008
RR-105	4 -009	RR-105	4 -009
RR-135	5 -010	RR-135	5 -010
RR-160	6 -011	RR-160	6 -011
RR-180	6 1/2 -012	RR-180	6 1/2 -012
RR-125	4 -013	RR-125	4 -013
RR-150	5 -014	RR-150	5 -014
RR-190	6 -015	RR-190	6 -015
RR-315	10 -017	RR-315	10 -017
RR-185	5 -018	RR-185	5 -018
RR-220	6 -019	RR-220	6 -019
RR-300	8 1/2 -020	RR-300	8 1/2 -020
RR-375	10 1/2 -021	RR-375	10 1/2 -021
RR-420	11 1/4 -022	RR-420	11 1/4 -022
RR-270	5 -023	RR-270	5 -023
RR-400	8 1/2 -024	RR-400	8 1/2 -024
RR-500	10 1/2 -025	RR-500	10 1/2 -025
RR-5	11 3/4 -026	RR-5	11 3/4 -026
RR-375	6 -027	RR-375	6 -027
RR-750	12 -028	RR-750	12 -028
RR-1000	15 -029	RR-1000	15 -029
RR-1500	20 -030	RR-1500	20 -030
RR-1500	20 -031	RR-1500	20 -030

Two styles of vertical Mounting Hardware are available for all Tubular Resistors. Mica Washers are available where it is desirable to electrically isolate the mounting bolt.

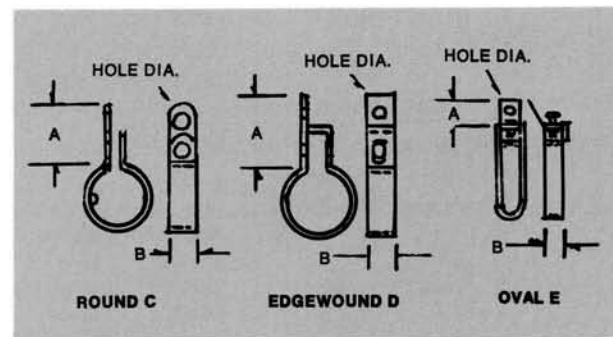
This method of mounting saves horizontal mounting space and in addition provides a "heat sink" for the resistor.

Length of bolts provided are for 1/4" panel mounting — extra length bolts can be supplied per customer request.



ADJUSTABLE LUGS

Part No.	Core Dia.	A	B	C	D	E	Hole Dia.	Silver Cont.	Gauge
1401-075-001	3/16	1 1/2	3/4	X			1/8	X	.020
1401-022-001	3/16	1 1/2	1/4	X			.138	X	.035
1401-076-001	3/16	2 1/2	1/4	X			.173	X	.035
1401-035-002	3/8	2 1/2	1/4	X			.173	X	.035
1401-077-001	3/8	2 1/2	1/4	X			.173	X	.035
1401-078-001	1 1/8	1 1/2	3/8	X			3/32	X	.035
1401-917-001	3/8 x 1	3/8	1/4			X	.171		.025
1401-026-001	2 1/2	1 1/8	1/2	X			.190		.031
1401-030-001	3/8	1	3/8		X		.190		.082
1401-030-002	3/8	1	3/8		X		.190		.082
1401-030-003	1	1	3/8		X		.190		.082
1401-030-004	1 1/8	1	3/8		X		.190		.082
1401-030-007	2 1/2	1	3/8		X		.190		.082
1401-030-005	1 1/2	1	3/8		X		.190		.082
1401-030-006	1 5/8	1	3/8		X		.190		.082



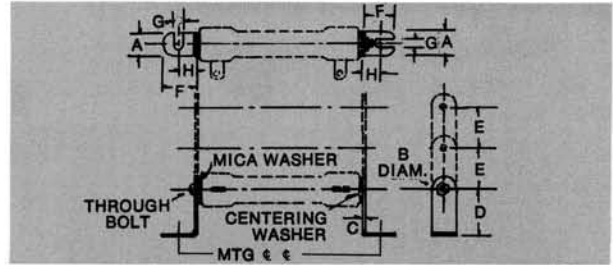
MEMCOR- TRUOHM INC.

Washers — Centering/Mica
Vertical Thru-Bolt Mounting
Adjustable Lugs

RESISTOR HARDWARE

HORIZONTAL THRU-BOLT MOUNTING

	Mtg. CL-CL	Core I.D.	A	B	C	D	E	F	G	H
FR-AR-25	3	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
FR-AR-50	5	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
FR-AR-75	7	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
FR-AR-100	7	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
FR-AR-160	10 1/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
FR-AR-200	12 1/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-40	3	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
RR-90	5	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
RR-105	6	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
RR-135	7	3/16	3/4	.187	.047	25/32	15/16	7/8	.250	3/16
RR-100	4 1/2	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
RR-105	5	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
RR-135	6	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
RR-160	7	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
RR-180	7 1/2	1/2	3/4	.187	.047	25/32	1 1/8	7/8	.250	3/16
RR-125	5 3/4	5/8	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-150	6 3/4	5/8	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-190	7 3/4	5/8	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-315	11 3/4	5/8	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-185	6 3/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-220	7 3/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-300	10 1/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-375	12 1/4	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-420	13	3/4	1 1/8	.215	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-500	12 1/4	1 1/8	1 1/8	.218	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-550	13 1/2	1 1/8	1 1/8	.218	.062	1	1 3/4	1 1/8	.312	1 1/4
RR-750	14 1/8	1 3/4	2 1/2	.193	.062	2 3/4	2 1/4	2 1/4	.375	1.0
RR-150	22 1/8	1 3/4	2 1/2	.193	.062	2 3/4	2 1/4	2 1/4	.375	1.0



	Single	Double	Triple
FR-AR-25	-001	-002	-003
FR-AR-50	-004	-005	-006
FR-AR-75	-010	-011	-012
FR-AR-100	-025	-026	-027
FR-AR-160	-049	-050	-051
FR-AR-200	-052	-053	-054
RR-40	-001	-002	-003
RR-90	-004	-005	-006
RR-105	-007	-008	-009
RR-135	-010	-011	-012
RR-100	-013	-014	-015
RR-105	-016	-017	-018
RR-135	-019	-020	-021
RR-160	-022	-023	-024
RR-180	-025	-026	-027
RR-125	-028	-029	-030
RR-150	-031	-032	-033
RR-190	-034	-035	-036
RR-315	-040	-041	-042
RR-185	-043	-044	-045
RR-220	-046	-047	-048
RR-300	-049	-050	-051
RR-375	-052	-053	-054
RR-420	-055	-056	-057
RR-500	-064		
RR-550	-067		
RR-750	-073		
RR-1500	-079		

Horizontal Thru-bolt Hardware is available for customer installation or factory assembly.

Resistors may be stacked 2 and 3 high — using this hardware.

Order as 1245-002-XXX

(for example FR-AR-25 SINGLE — order as 1245-002-001)

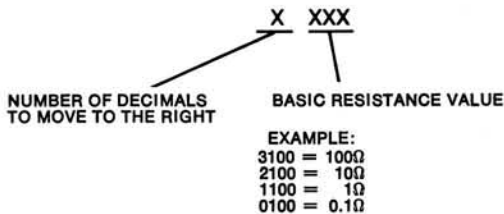
HOW TO ORDER MEMCOR RESISTORS

1. Give Memcor type and wattage
i.e. VL3 = Vitreous axial lead 3 watt
2. Give ohmic value and resistance tolerance required

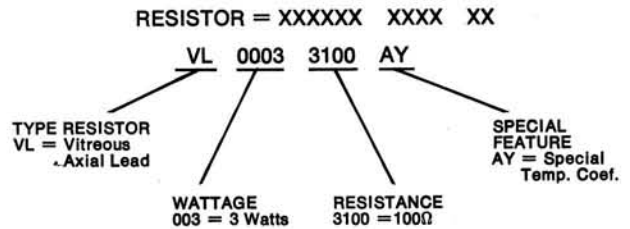
3. Specify if any mounting hardware is required
4. Specify if any other special features are required
i.e. Non-inductive winding for resistors

If there are special requirements, a two or three digit alpha call out will appear after the ohmic value; these digits will be assigned by the factory.

RESISTANCE VALUE CODE



EXAMPLE MEMCOR PART NUMBER



RESISTOR HARDWARE

Ceramic Bushings
Horizontal Thru-Bolt Mounting
How to Order Memcor Resistors

MEMCOR- TRUOHM INC.

WIREWOUND RHEOSTATS

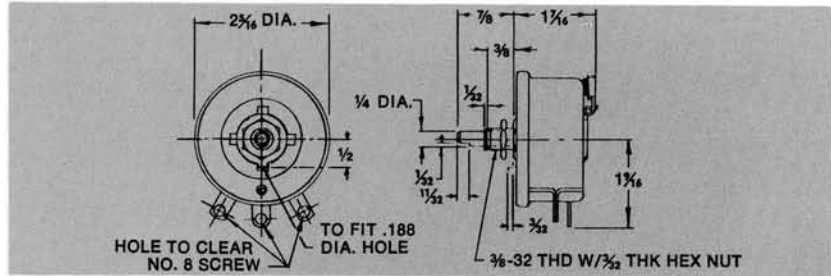
Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.

50 WATTS/STD. RESISTANCE 1-10,000 OHMS

WT. 0.32 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	7.070	44
2	5.000	44
4	3.530	44
6	2.880	74
8	2.500	82
12	2.040	85
16	1.760	89
22	1.500	98
35	1.190	126
50	1.000	111
80	.790	143
125	.630	177
150	.575	175
225	.470	203
300	.408	215
500	.316	286
800	.250	286
1000	.224	360
1600	.176	368
2500	.141	463
3500	.119	510
5000	.100	442
8000	.079	560
10000	.070	567



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

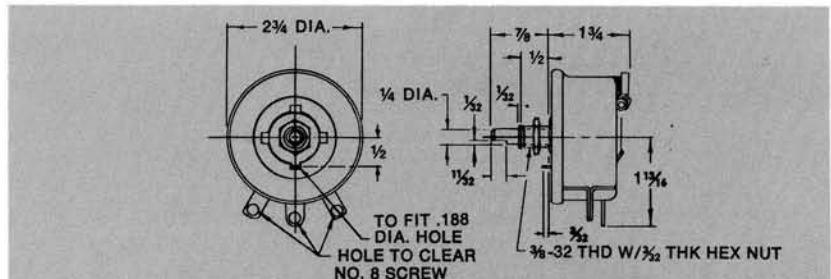
SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - .25 To 2 Inch Pound.
- Standard Resistance 1 - 10,000 Ohm.
- Rotation $300^\circ \pm 5\%$.
- Mounting For Panels Up To $1/4"$.

75 WATTS/STD. RESISTANCE 1-10,000 OHMS

WT. 0.52 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	8.660	27
2	6.120	28
5	3.880	54
7.5	3.160	51
16	2.170	131
25	1.730	113
50	1.230	143
75	1.000	134
100	.866	180
200	.612	186
300	.500	217
400	.433	230
500	.388	291
750	.316	345
1000	.274	351
1500	.224	434
2000	.194	450
2500	.173	448
5000	.123	590
7500	.100	544
10000	.087	568



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - .5 To 2 Inch Pound.
- Standard Resistance 1 - 10,000 Ohm.
- Rotation $300^\circ \pm 5\%$.
- Mounting For Panels Up To $1/4"$.

MEMCOR-
TRUOHM INC.

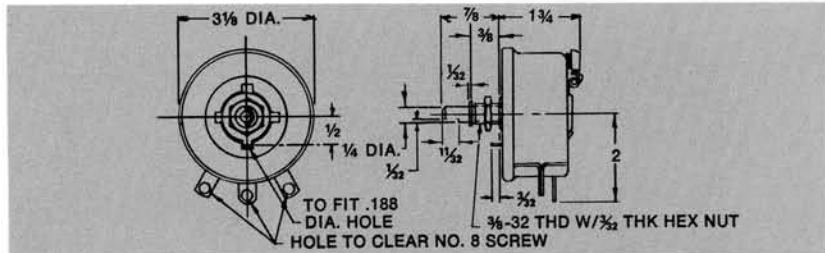
50 Watts/Std. Resistance 1-10,000 Ohms
75 Watts/Std. Resistance 1-10,000 Ohms

WIREWOUND
RHEOSTATS

100 WATTS/STD. RESISTANCE 1-10,000 OHMS

WT. 0.64 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	10.000	33
2	7.070	33
3	5.750	30
5	4.470	57
7.5	3.650	60
10	3.160	57
16	2.500	124
25	2.000	107
50	1.410	135
75	1.150	158
100	1.000	168
200	.707	213
300	.575	259
400	.500	270
500	.447	269
750	.365	319
1000	.316	330
1500	.258	402
2000	.224	417
2500	.200	515
5000	.141	560
7500	.115	495
10000	.100	673



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

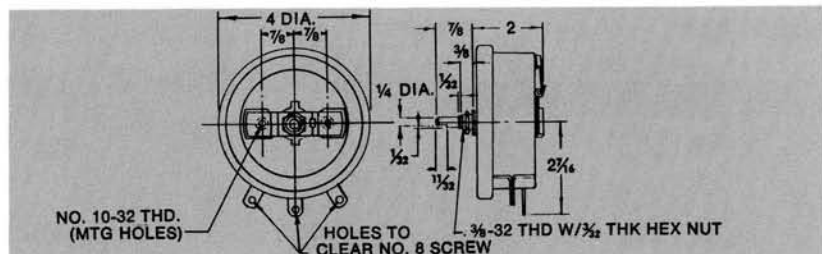
SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - .5 To 2 Inch Pound
- Rotation $300^\circ \pm 5\%$.
- Mounting For Panels Up To $1/4"$.
- Standard Resistance 1 - 10,000 Ohm.

150 WATTS/STD. RESISTANCE 1-10,000 OHMS

WT. 1.1 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	12.300	44
2	8.650	43
3	7.070	74
5	5.480	78
7.5	4.470	81
10	3.880	77
15	3.163	130
25	2.450	114
35	2.070	125
50	1.735	142
75	1.415	170
100	1.225	177
150	1.000	215
200	.865	229
250	.775	285
350	.655	315
500	.548	366
750	.447	335
1250	.346	453
1800	.288	497
2250	.259	511
3000	.224	526
4500	.182	630
7500	.141	894
10000	.122	929



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - .5 to 3 Inch Pound.
- Rotation $300^\circ \pm 5\%$.
- Mounting For Panels Up To $1/4"$ Or By Means Of F.H. Screws.
- Standard Resistance 1 - 10,000 Ohm.

**WIREWOUND
RHEOSTATS**

100 Watts/Std. Resistance 1-10,000 Ohms
150 Watts/Std. Resistance 1-10,000 Ohms

**MEMCOR-
TRUOHM INC.**

WIREWOUND RHEOSTATS

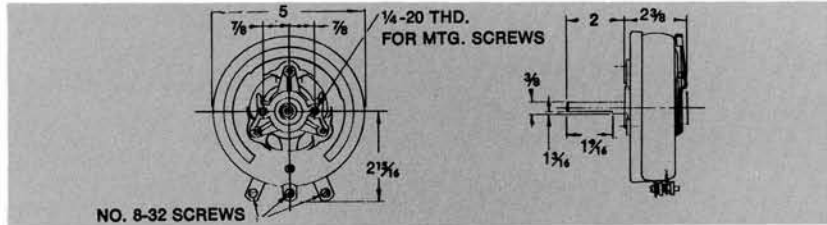
Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.

225 WATTS/STD. RESISTANCE 1-2500 OHMS

WT. 2 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	15.000	42
2	10.600	42
3	8.660	43
4	7.500	57
5	6.710	57
7.5	5.490	61
10	4.740	103
15	3.870	109
25	3.000	115
50	2.120	183
75	1.730	192
100	1.500	268
150	1.220	256
200	1.060	337
300	.866	323
400	.750	343
700	.567	484
900	.500	493
1200	.433	520
1500	.387	647
1750	.358	603
2000	.336	650
2500	.300	652



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

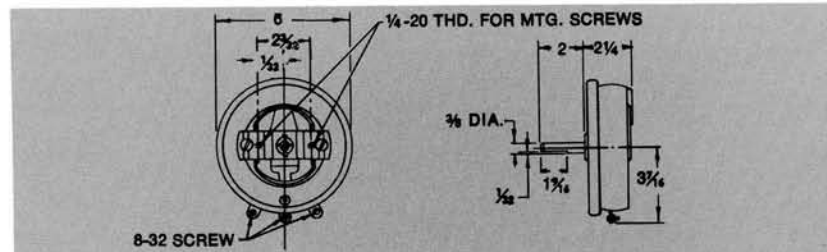
SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - 2.5 To 4 Inch Pound.
- Rotation $310^\circ \pm 5\%$.
- Mounting For Panels Up To 1 1/4". Two 1/4"-20 By 1 1/2" Flat Head Screws Are Supplied.
- Standard Resistance 1 - 2500 Ohm.

300 WATTS/STD. RESISTANCE 1-2500 OHMS

WT. 2.6 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	17.320	50
2	12.240	52
3	10.000	52
4	8.660	78
5	7.750	78
7.5	6.320	72
10	5.480	78
15	4.470	144
25	3.460	135
50	2.450	218
75	2.000	225
100	1.730	285
150	1.410	342
200	1.220	363
300	1.000	424
400	.866	454
700	.655	504
900	.578	528
1200	.500	546
1500	.447	678
1750	.414	626
2000	.387	700
2500	.346	708



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque - 2.5 To 5 Inch Pound.
- Rotation $370^\circ \pm 5\%$.
- Mounting For Panels Up To 1 1/4". Two 1/4"-20 By 1 1/2" Flat Head Screws Are Supplied.
- Standard Resistance 1 - 2500 Ohm.

MEMCOR- TRUOHM INC.

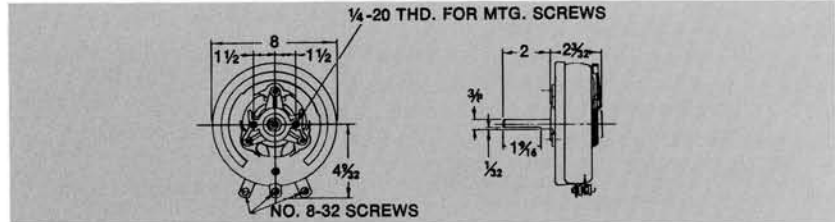
225 Watts/Std. Resistance 1-2500 Ohms
300 Watts/Std. Resistance 1-2500 Ohms

WIREWOUND RHEOSTATS

500 WATTS/STD. RESISTANCE 1-2500 OHMS

WT. 4 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	22.300	69
2	15.800	75
3	12.900	78
4	11.200	73
5	10.000	103
8	7.900	103
12.1	6.300	103
16	5.600	188
25	4.470	204
50	3.160	206
80	2.520	327
125	2.000	327
175	1.690	423
250	1.410	488
325	1.240	500
500	1.000	609
750	.817	727
1000	.707	771
1500	.577	935
2000	.500	980
2500	.447	968



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$. . . Closer Tolerances Available.
- Running Torque - 4.5 To 7 Inch Pound.
- Rotation $325^\circ \pm 3\%$.
- Mounting For Panels Up To $1\frac{1}{4}$ ". Two $\frac{1}{4}$ "-20 By $1\frac{1}{2}$ " Flat Head Screws Are Supplied.
- Standard Resistance 1 - 2500 Ohm.

**WIREWOUND
RHEOSTATS**

500 Watts/Std. Resistance 1-2500 Ohms
750 Watts/Std. Resistance 1-2500 Ohms

**MEMCOR-
TRUOHM INC.**

WIREWOUND RHEOSTATS

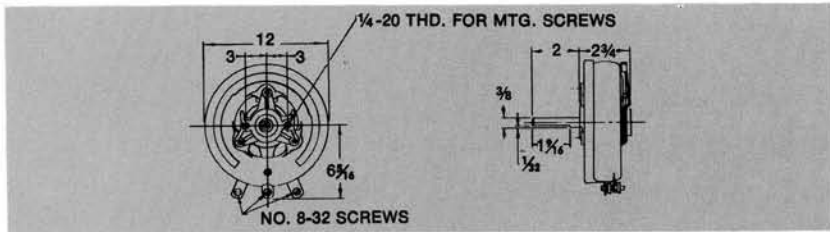
Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.

1000 WATTS/STD. RESISTANCE 1-2000 OHMS

WT. 10 LBS.

Ohms	Max. Amps	Steps (Approx.)
1	31.600	86
2	22.400	115
3	18.300	125
5	14.100	122
8	11.200	116
10	10.000	114
16	7.900	164
25	6.330	181
50	4.470	321
75	3.650	301
100	3.160	321
160	2.500	328
225	2.110	608
300	1.830	640
400	1.580	685
500	1.410	687
750	1.150	806
1000	1.000	855
1500	.816	1026
2000	.630	1080



FEATURES:

- Vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity.
- Wiper tracks are buffed and polished to assure smooth rotation and uniform wiper contact.
- High strength ceramic hub is used to insulate the shaft and bushing from live parts.
- Wiper design assures minimum backlash.
- The cores on larger rheostats are enameled prior to winding to increase core strength and improve bond between wire and core.
- Rheostats are provided with three terminals to allow use as potentiometers.
- UL approved.
- All wattage sizes are available to MIL-R-22.
- Welded terminals and termination guarantees positive electrical connections.
- Available with quick connect terminals.

SPECIFICATIONS:

- Resistance Tolerance $\pm 10\%$... Closer Tolerances Available.
- Running Torque 3.5 To 7 Inch Pound.
- Rotation $335^\circ \pm 3\%$.
- Mounting For Panels Up To $1\frac{1}{4}$ ". Two $\frac{1}{4}$ "-20 By $1\frac{1}{2}$ " Flat Head Screws Are Supplied.
- Standard Resistance 1 - 2000 Ohm.

SPECIAL RHEOSTATS

TAPER WINDINGS



DUST PROOF 50 WATT



TANDEM ASSEMBLY



WITH TOGGLE SWITCH



DUST PROOF 12.5 WATT



"OFF" POSITION & MICRO-SWITCH



SPECIAL TAPS



360° ROTATION



RE



THE FOLLOWING UNITS ARE AVAILABLE FOR MIL-R-22

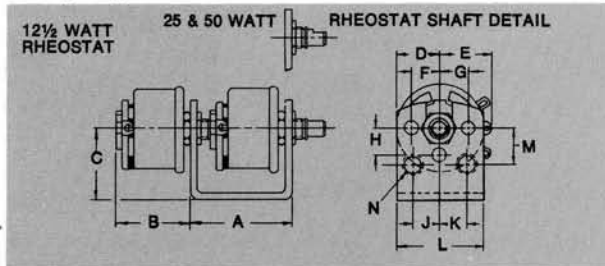
Part No.	Military Style	Description	Wattage	Shaft Diameter
RP-0012	M22/01	Unenclosed	12½	1/8
RD-0012	M22/02	Enclosed	6½	1/8
RP-0025	M22/03	Unenclosed	25	1/4
RD-0025	M22/04	Enclosed	12½	1/4
RP-0050	M22/05	Unenclosed	50	1/4
RD-0050	M22/06	Enclosed	25	1/4
RP-0075	M22/07	Unenclosed	75	1/4
RP-0100	M22/08	Unenclosed	100	1/4
RP-0150	M22/09	Unenclosed	150	1/4
RP-0225	M22/10	Unenclosed	225	3/8
RP-0300	M22/11	Unenclosed	300	3/8
RP-0500	M22/12	Unenclosed	500	3/8
RP-0750	M22/13	Unenclosed	750	3/8
RP-1000	M22/14	Unenclosed	1000	3/8

MEMCOR-
TRUOHM INC.

1000 Watts/Std. Resistance 1-2000 Ohms
Special Rheostats

WIREWOUND
RHEOSTATS

TANDEM MOUNTING KITS AND HARDWARE 12½, 25, 50 WATT

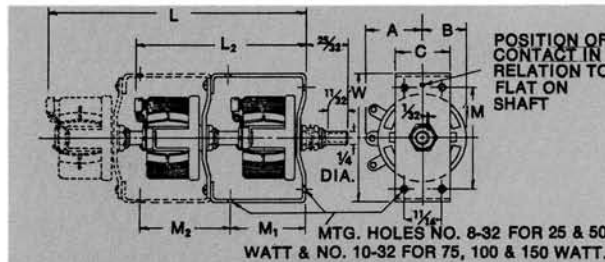


THE FOLLOWING KITS ARE AVAILABLE FOR CUSTOMER/FACTORY ASSEMBLY.*

A	B	C	D	E	F	G	H	J	K	L	M	N	Tandem Rheostats
1½	¼	¾	¾	1½	.250	.250	.250	—	—	¾	—	—	TR2-12½ Watt
2½	1¾	1¾	¾	1	—	—	—	1½	1¼	¾	—	10-32	TR2-25 Watt
2½	1¾	1¾	¾	1½	—	—	—	1½	1½	1¼	¾	10-32	TR2-50 Watt

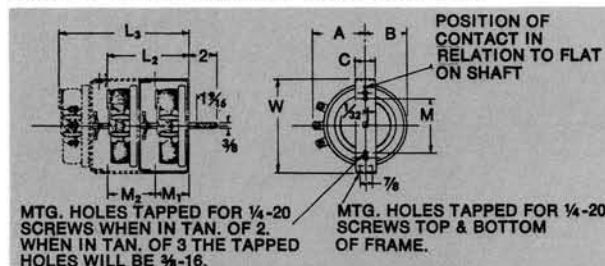
* Specify "Tandem Assy" when ordering factory assembled unit. Resistance value of "A" & "B" rheostat is required.

MULTIPLE MOUNTED ASSEMBLIES



Rheo. Type	Cat. No. 2 in Tandem	Cat. No. 3 in Tandem	A	B	C	L ₂	L ₃	M ₁	M ₂	M	N
R-12½	TR-12½-2	TR-12½-3	1½	¾	¾	2¾	3¾	1	1¼	1	1¾
R-25	TR-25-2	TR-25-3	1¾	¾	1	3½	5½	1½	2	1¾	2¾
R-50	TR-50-2	TR-50-3	1¾	1½	1	3½	5½	1½	2	2½	3
R-75	TR-75-2	TR-75-3	1¾	1¾	1¼	4¾	6¾	1¾	2½	3¾	4¼
R-100	TR-100-2	TR-100-3	1¾	1¾	1¼	4¾	6¾	1¾	2½	3¾	4¼
R-150	TR-150-2	TR-150-3	2½	3	1¼	4¾	7¼	1¾	2½	4¼	5

MULTIPLE MOUNTED ASSEMBLIES



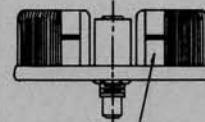
Rheo. Type	Cat. No. 2 in Tandem	Cat. No. 3 in Tandem	A	B	C	L ₂	L ₃	M ₁	M ₂	M	N
R300	TR-300-2	TR-300-3	3¾	3	1½	6¾	9¾	2½	3½	2¾	7

OFF-POSITION 12½ TO 300 WATTS

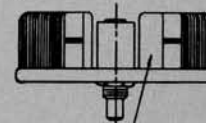
The off-positions listed below are available in all wattage sizes from 12½ watts through 300 watts.

Dead sections or off-positions are available at any point of the winding area other than the extreme ends.

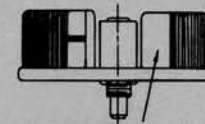
If required, the terminal end of the lug can be removed. Add the suffix letter "O" to the style ordered for this feature.



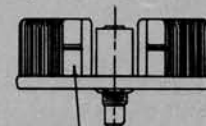
DEAD LUG OFF POSITION
RIGHT POSITION R6-30
(RESISTANCE WIRE SEPARATED FROM INDICATED TERMINAL)



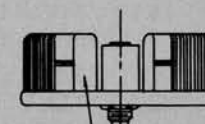
DEAD SECTION OFF POSITION
RIGHT POSITION RS-32
(INDICATED TERMINAL SET IN FROM END OF CORE)



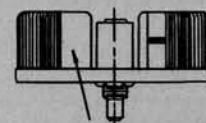
DEAD SECTION OFF POSITION
WITH DETENT
RIGHT POSITION RS-34
(ROUNDED TIE WIRE PLACED AT INDICATED END OF ROTATION)



DEAD LUG OFF POSITION
LEFT POSITION RS-31
(RESISTANCE WIRE SEPARATED FROM INDICATED TERMINAL)



DEAD SECTION OFF POSITION
LEFT POSITION RS-33
(INDICATED TERMINAL SET IN FROM END OF CORE)

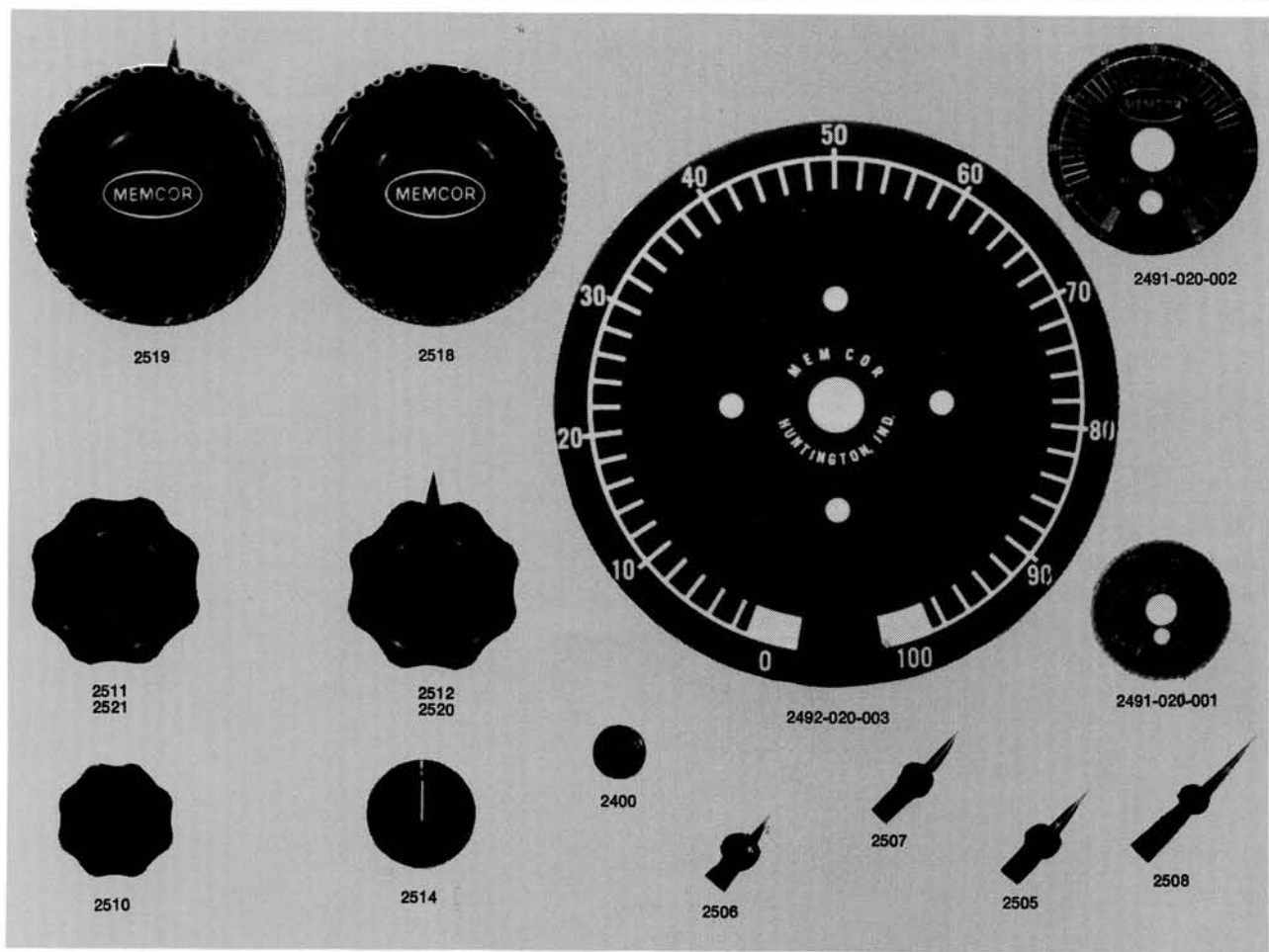


DEAD SECTION OFF POSITION
WITH DETENT
LEFT POSITION RS-35
(ROUNDED TIE WIRE PLACED AT INDICATED END OF ROTATION)

KNOB AND DIALS

Post Office Box 890
1320 Flaxmill Road
Huntington, Indiana 46750
Telephone (219) 356-4300
ESYLINK 62938315

MEMCOR- TRUOHM INC.



KNOB DESCRIPTION	KNOB DIA.	HOLE DIA.	CAT. NO.	10 DIGIT NOS.
SKIRTED KNOB	3/4	1/8	2400	2491-010-005
BAR KNOB, 1 1/4" LONG	—	1/4	2505	2491-010-010
BAR KNOB, 1 1/4" LONG WITH BRASS BUSHINGS	—	1/4	2506	2491-010-011
BAR KNOB, 1 1/2" LONG WITH BRASS BUSHINGS	—	1/4	2507	2491-010-012
BAR KNOB, 2 1/4" LONG	—	1/4	2508	2491-010-013
FINGER-GRIP KNOB	1 5/8	1/4	2510	2491-010-014
FINGER-GRIP KNOB WITH POINTER	2 3/8	3/8	2520	2492-010-002
FINGER-GRIP KNOB WITHOUT POINTER	2 3/8	3/8	2521	2492-010-019
SKIRTED KNOB	1 1/2	1/4	2514	2491-010-017
HANDWHEEL WITH BRASS BUSHING	3 3/8	3/8	2518	2493-010-003
HANDWHEEL WITH BRASS BUSHING AND POINTER	3 3/8	3/8	2519	2493-010-004
BAR KNOB, 2 1/4" LONG WITH BRASS BUSHING	—	1/4	2522	2491-010-021

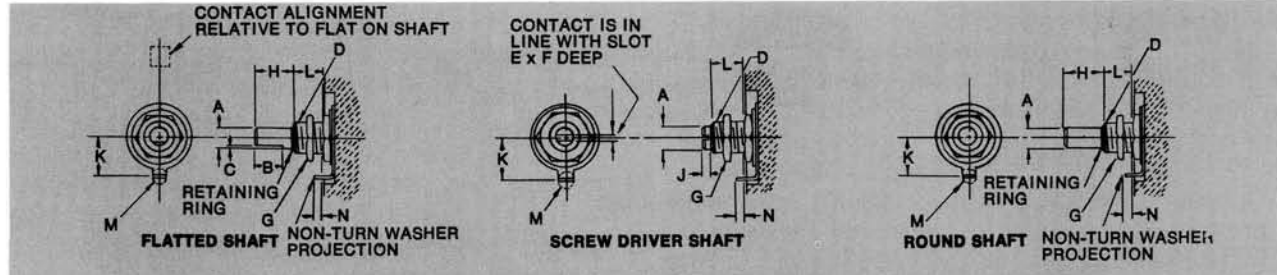
DIAL DESCRIPTION	RHEOSTAT SIZE	PART NO.
1 3/8 Diameter — Black on Aluminum	12 1/2	2491-020-001
2 3/8 Diameter — Black on Aluminum	25, 50, 75, 100, 150, 225, 300	2491-020-002
5 1/2 Diameter — Black on Aluminum	500, 750, 1000	2492-020-003

MEMCOR- TRUOHM INC.

KNOB AND DIALS

SHAFT AND BUSHING OPTIONS

THE FOLLOWING OPTIONAL FEATURES ARE AVAILABLE FOR
12½-150 WATT RHEOSTATS



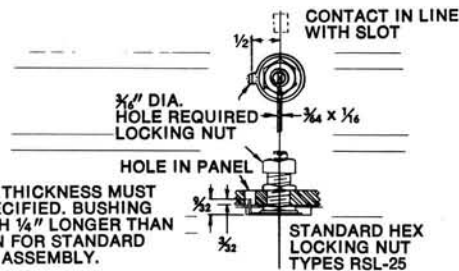
Shaft Dia. A	Max. Panel	Bushing Proj. L	Thd. D	Flat		Slot		NUT G	Shaft Ext. H	Shaft Ext. J	TAB LOC. K	TAB HOLE M	N
				B	C	E	F						
1/8	1/16	3/16	1/4-32	Spec	Spec	1/32	3/64	1/16	3/8	3/32	1/4	1/8	1/16
	1/8	1/4	1/4-32	Spec	Spec	1/32	3/64	1/16	3/8	3/32	1/4	1/8	1/16
	1/4	3/8	1/4-32	Spec	Spec	1/32	3/64	1/16	3/8	3/32	1/4	1/8	1/16
1/4	1/8	1/4	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
	1/4	3/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
	1/2	5/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
	3/4	7/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
	1	1 1/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
	1 1/2	1 5/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32
2	2 1/8	3/8-32	1/32	1/32	3/64	1/16	3/32	1/2	3/32	1/2	3/16	3/32	

LOCKING DEVICES

SHAFT ASSEMBLIES CAN BE SUPPLIED WITH A SUPPLEMENTAL LOCKING DEVICE TO PREVENT SHIFTING OF A RESISTANCE SETTING. A TAPERED NUT TIGHTENS A SPLIT BUSHING AGAINST THE SHAFT FOR THE LOCKING ACTION.



CAP HEX NUT
TYPE RLS-26



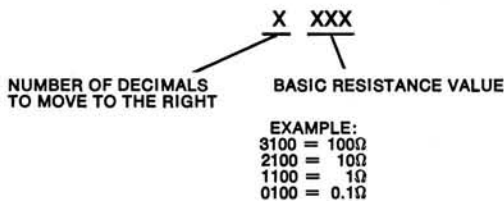
PANEL THICKNESS MUST BE SPECIFIED. BUSHING LENGTH 1/4" LONGER THAN SHOWN FOR STANDARD SHAFT ASSEMBLY.

FIGURE ABOVE SHOWS TYPICAL SCREWDRIVER SHAFT LOCKING DEVICE. HOWEVER FLATTED OR ROUND SHAFTS CAN HAVE LOCKING DEVICES WITH THE RLS-25 LOCKING NUT.

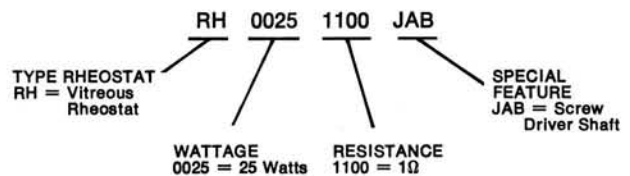
HOW TO ORDER MEMCOR RHEOSTATS

1. Give Memcor type and wattage
i.e. R25 = Rheostat 25 watt
 2. Give ohmic value and resistance tolerance required
 3. Specify if any mounting hardware is required
 4. Specify if any other special features are required
i.e. Special tapers for rheostats
- If there are special requirements, a two or three digit alpha call out will appear after the ohmic value; these digits will be assigned by the factory.

RESISTANCE VALUE CODE



EXAMPLE MEMCOR PART NUMBER RHEOSTAT = XXXXXX XXXX XX



RESISTOR SELECTION

FIXED RESISTORS

The following procedure should be used:

Resistance Value Selection

Consult the nomographs or Ohm's Law equations in this section to determine the value of resistance needed for your application. Series or parallel connected stock resistors may be used to create a resistance value which is not a stock value, or special values of resistance can be made to order.

Tolerance Selection

The standard tolerance for MEMCOR wirewound resistors is $\pm 5\%$ unless otherwise specified in each individual catalog section. For the resistor chosen, determine if the tolerance limits are within the design requirements. Closer tolerance resistors (to 1 or even $\frac{1}{4}\%$ in some ranges) are made-to-order. Close tolerance on low resistances and on crinkle wound resistors should be avoided due to increased cost and manufacturing difficulty.

Wattage Rating Selection

Use the design values of current and resistance to determine the required resistor power rating. All power ratings indicated in this catalog are in accordance with NEMA standards. In the case of embedded resistors (round resistance wire, i.e. most stock types) the power ratings are based upon a maximum hot spot temperature rise of 300°C (540°C) in free air* at a maximum ambient temperature of 40°C (104°F). In the case of bare wire resistors, (crinkled-edgewound, HC and Deci-ohm) power ratings are based upon a maximum hot spot temperature RISE of 375°C (675°F) in free air* at a maximum ambient of 40°C . Although MEMCOR resistors are conservatively rated and have a built-in safety factor it is conventional engineering practice to derate resistors according to the application. Factors to consider in DERATING are:

Ambient Temperature

Higher ambient temperature than standard will require derating (Figure A3). For example, sup-

pose a resistor is to be operated at an ambient temperature of 100°C in accordance with characteristic U of military standard MIL-R-26. From the derating curve (Figure A3) at 100°C you can see that only 75% of the rated power of a resistor should be applied. This means that the power rating of the resistor selected for this application should be $\frac{1.0}{0.7}$ or about 1.33 times the computed value.

Thus, if the computed power dissipation for a resistor is 100 watts (a resistor having a power rating of 133 watts or the next highest value should be selected for use in an ambient temperature of 100°C . The nearest commercially available power rating would be 160 watts.

*Free air is operation with the resistor suspended by its terminals in free space and still air with a minimum clearance of one foot in all directions to the nearest object.

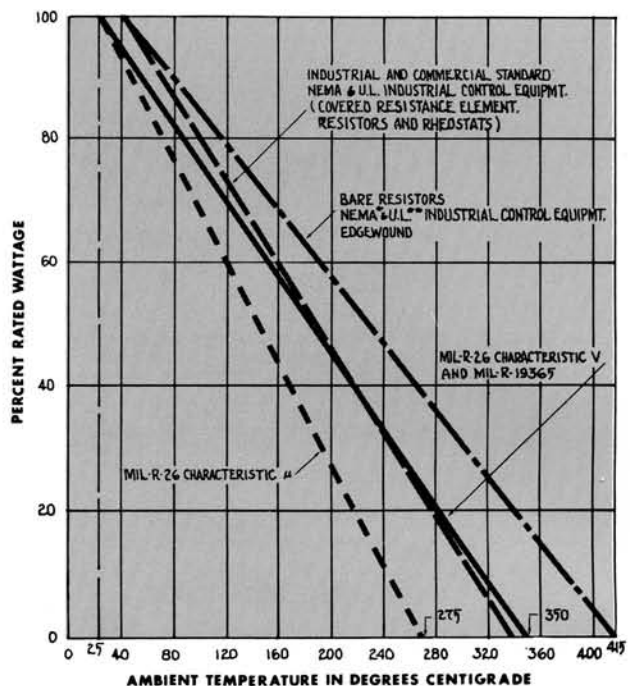


FIGURE A3
Resistor Derating for High Ambient Temperature

DESIGN DATA

POST OFFICE BOX 890, 1320 FLAXMILL ROAD
HUNTINGTON, INDIANA 46750
TELEPHONE (219) 356-4300
ESYLINK 62938315

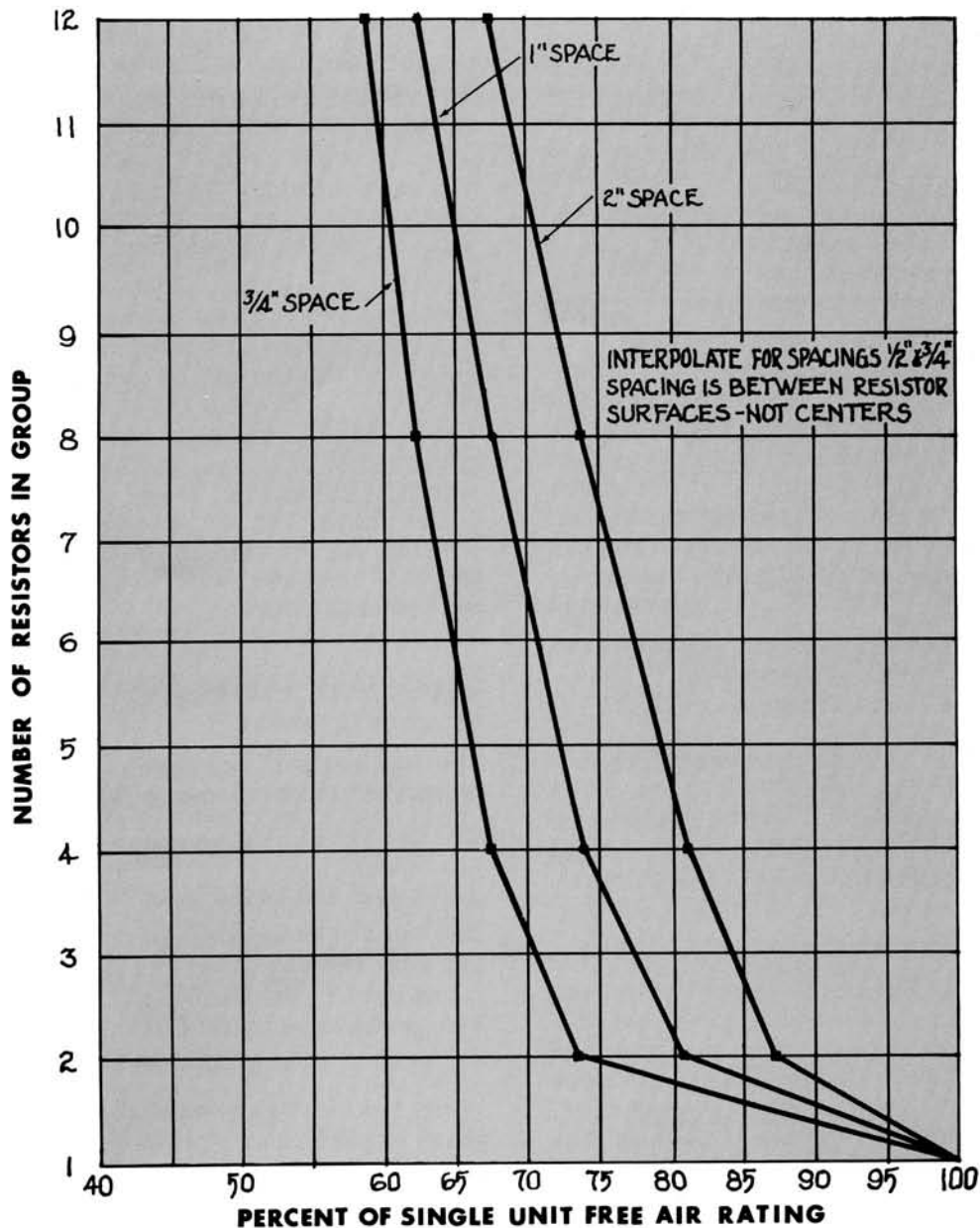
MEMCOR-TRUOHM INC.

Grouping

Mounting a number of resistors in close proximity may cause excessive temperature rise and require power derating accordingly. See derating chart for grouping, Figure 4. The percent watt ratings shown on the curves presumes operation

at maximum permissible hot spot temperature with spacing as shown between the CLOSEST points of the resistors. When operated at less than the maximum permissible hot spot temperature the derating may be proportionately less.

FIGURE A4
Derating Chart for Grouping



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GROUPING

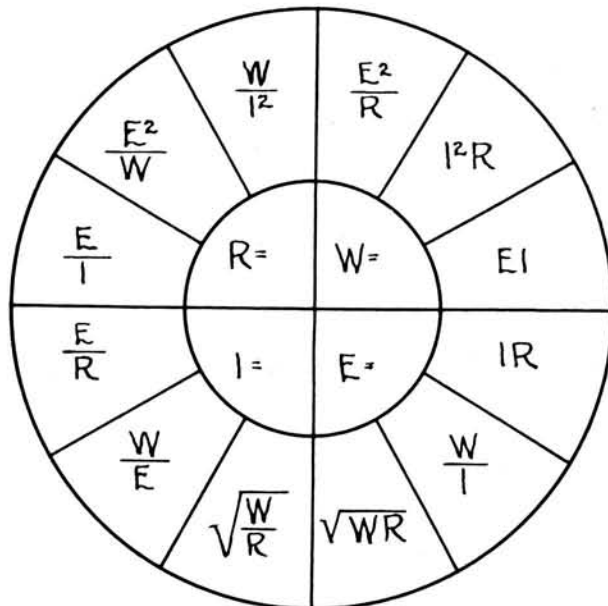
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OHM'S LAW

DIRECT CURRENT (DC) EQUATIONS

For ready reference, the Ohm's Law equations for DC used to compute resistance and power are summarized on the chart of Figure A1. These equations shown are all derived from the two basic equations:

$$E = IR \text{ and } W = EI$$



W = POWER (WATTS) L = CURRENT (AMPS)
R = RESISTANCE (OHMS) E = VOLTAGE (VOLTS)

FIGURE A1
Ohm's Law Equations for Direct Current

The large and small circle is divided into four quarters. The larger one is further divided into three sections and each of these contains all of the equations possible to compute R, E, I and W shown in the four quarters of the small circle.

ALTERNATING CURRENT (AC) EQUATIONS

When resistors are used in alternating current applications, other factors beside those discussed MAY have to be considered. These factors are capacitance, inductance, impedance and phase angle. However if the amount of inductance of capacitance is negligible (less than 10% of the resistance) then the Ohm's Law equation for DC circuits also apply for AC (25 to 60

cycle). Ohm's Law for DC can be used for the calculation of commercial frequency (25 to 60 cycle) AC circuits involving tube filaments, heaters, lamps, dropping resistor, etc., which for most purposes may be considered as pure resistance.

Impedance

Impedance, represented by Z, opposes alternating current flow as resistance opposes direct current flow. Ohm's Law application is similar here, too. In terms of the magnitude of impedance, (also represented in ohms).

$$Z = \frac{E}{I}$$

Impedance, however, is more complicated in that it has two components to consider. We have to take into account the inductances, capacitances and resistances of the circuit. The inductance and capacitance offer what is referred to as a "reactive" component of impedance, and the resistance is the other component. The reactive component of impedance occurs because of the counter EMF's induced in coils and the voltages stored in capacitors. These conditions oppose current flow. Both inductive and capacitive reactance are affected by frequency. The reactance of inductors, referred to as X_L , is directly proportional to frequency:

$$X_L = 2\pi fL$$

where f is the frequency in cycles and L the inductance in henrys.

The reactance of capacitors, referred to as X_C , is inversely proportional to frequency:

$$X_C = \frac{1}{2\pi fC}$$

where C is the capacitance in farads.

The value of impedance has to take into account the total effective reactance and the resistance in the circuit. The basic equation for the magnitude of the impedance Z, is:

$$Z = \sqrt{R^2 + (X_L - X_C)^2}$$

When the reactive components of a circuit are equal to each other, that is $X_L = X_C$, the circuit is said to be in resonance and the impedance of the circuit is equal to the resistance.

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RESISTANCE CALCULATIONS

Resistors in series

$$\text{Total Resistance } R_T = R_1 + R_2 + R_3 \dots + R_4 \text{ Ohm}$$

Resistors in parallel

$$\text{Total Resistance } R_T = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{R_4}} \text{ Ohms}$$

For TWO resistors in parallel:

$$\text{Total Resistance } R_T = \frac{R_1 \times R_2}{R_1 + R_2}$$

When the resistors are all equal, the total parallel resistance is equal to the value of one resistor divided by the number of resistors. Example, the total resistance of two equal resistors in parallel is one-half that of each, the parallel resistance of three equal resistors is one-third that of each.

TEMPERATURE RISE

Chart of Figure A5 shows how the hot spot temperature rise is related to the percent rated watts for various specifications when a resistor is suspended horizontally. A vertically mounted resistor runs slightly cooler because convection is greater in this position but vertical mounting is not as reliable under conditions of vibration especially with the larger cores (over 4" long).

Resistor body ends will be approximately 55% of the maximum hot spot temperature rise.

Also use this chart when derating for limited temperature rise.

FIGURE A2
Approximate Hot Spot Temperature Rise vs. Percent Rated Watts for Resistors

TEMP. COEFFICIENT OF RESISTANCE

All resistance wire is affected by changes in temperature. Increased temperature causes the resistance of the wire to increase. The CHANGE in resistance per degree change in temperature is called the TEMPERATURE COEFFICIENT of the wire, hereafter called TC.

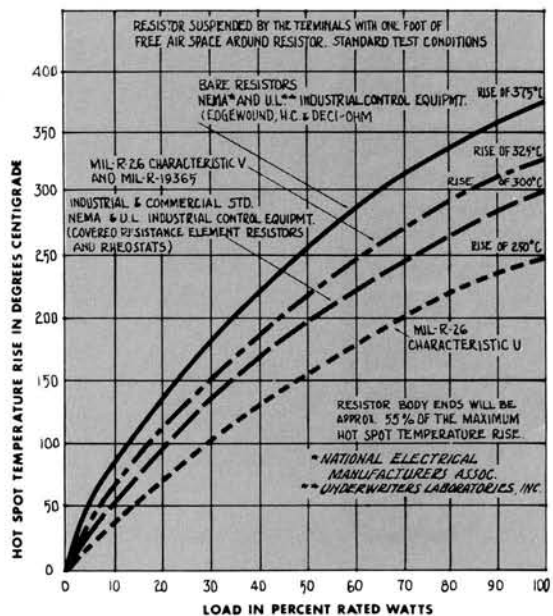
This TC change is measured in parts per million per degree centigrade (PPM), in terms of percentage change per degree centigrade (%/°C) or as ohms change per ohm per degree centigrade $\Omega/\Omega/^\circ\text{C}$. A TC of 10 PPM equals 0.0001% /°C or 0.000010 $\Omega/\Omega/^\circ\text{C}$:

$$\text{TC} = \frac{(R - r) 100}{(t_r - t_r) R}$$

where: TC = temperature coefficient in percent-per-degree C (%/°C)

- R = resistance at reference temp.
- r = resistance at test temperature
- t_r = Reference temp. in degrees C
- t_r = test temperature in degrees C

TC is quite important in applications where the resistance value when heated (under load) must not change significantly from the resistance at room temperature. From the standpoint of stability as well as total resistance change it is best to operate critical resistors with a limited temperature rise.



Enclosure

Resistors mounted in enclosed equipment must be derated since air circulation is restricted. Because of the many variables involved derating will vary from approximately 15% for mesh enclosures to 100% for total enclosures. Multiply calculated ratings by 1.15 to 2.0 to get needed rating.

Cooling Air

The required wattage rating may be reduced if cooling air is constantly circulated over the resistor. The expression for the volume of cooling air required to cool a given enclosed load so the temperature rise will be limited to a predetermined amount is:

$$\text{Volume} = \frac{3170}{\Delta T} \text{KW}$$

where volume is in cubic feet per minute ΔT is permissible temperature rise in $^{\circ}\text{F}$

KW = power dissipated inside the enclosure in kilowatts.

Altitude

The air density at high altitudes causes less heat to be dissipated by convection.

A typical example: If the issuing air one inch above an enclosure is to be restricted to 175°C (350°F) [a U.L. requirement for resistors and rheostats] what volume of forced air would be needed for a 1 KW load in a 100°F ambient?

$$\text{c.f.m.} = \frac{3170}{\Delta T} \text{KW} = \frac{3170}{250} (1) = 12.7 + 25\%$$

Safety Factor for pockets of hot air = 16 c.f.m.

With conditions constant as stated but more cooling air provided, the above enclosed load can be run at the following percent of rated watts:

Volume in c.f.m.	16	32	48	64	80
% Rated Watts	100	200	300	400	500

Because of the formation of pockets of hot air, care should be exercised when running above 500% of rated watts with forced air.

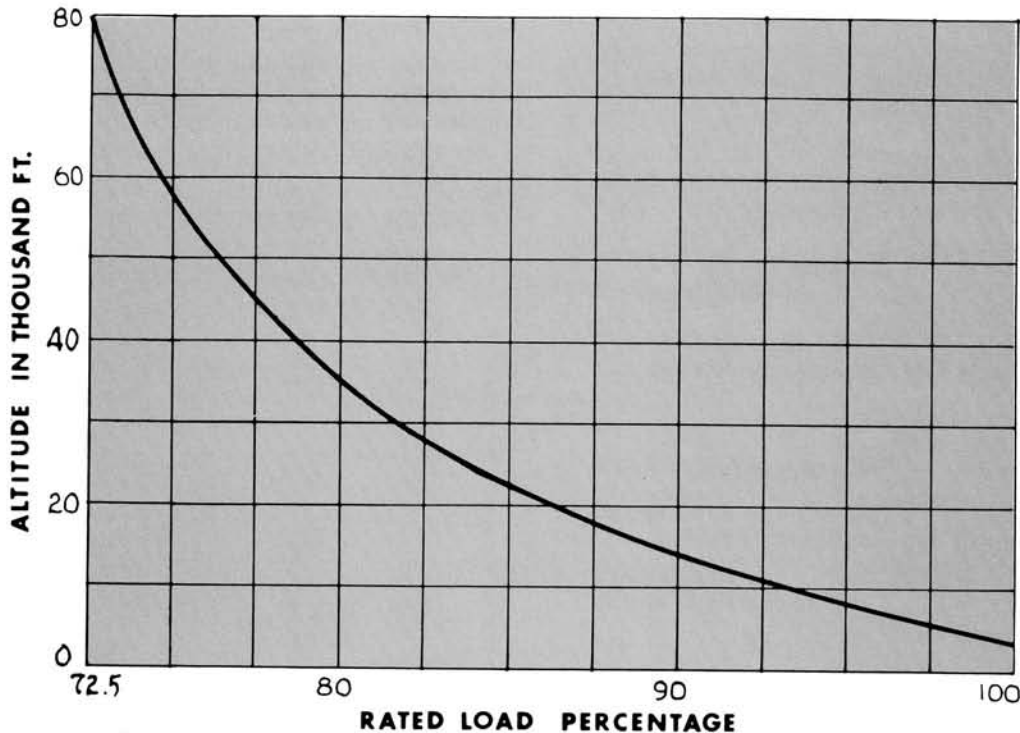


FIGURE A5
Performance of MEMCOR
FR and AR Resistors vs. Altitude

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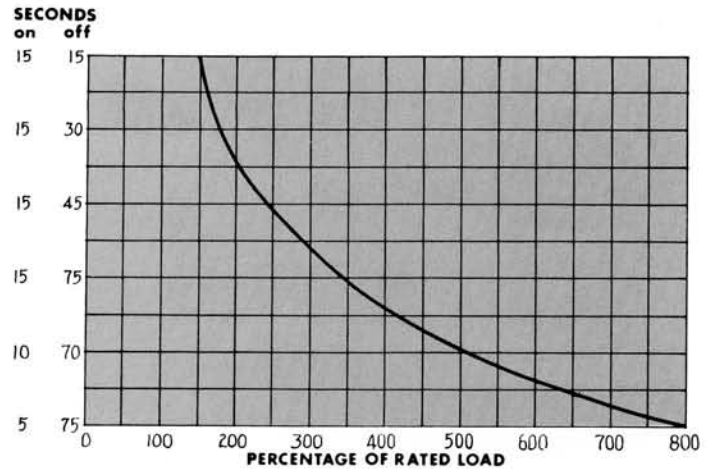
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NON-INDUCTIVE RESISTORS

Non-inductive resistors are especially designed for high frequency applications. By use of the Ayrton-Perry type of windings, (two windings connected in parallel and wound in opposite directions) the inductance and distributed capacitance are kept to a minimum. The distributed capacitance is greatly reduced since there is a very low voltage between the wires at the crossover points (180° apart). Inductance is less than 1% of the regular type winding. Wire used on non-inductive resistors has high specific resistance and small reduce skin effects.

Most resistor types can be made non-inductive but the high resistance limit is approximately 1/4 of an identical size inductively wound unit. Inquire about feasibility when resistance value is below 1 ohm. Submit your requirements; we can check the inductance from frequencies of 1/2 to 250 megacycles, and from 1 ohm up. Non-magnetic mounting hardware should be used in order to avoid introducing any unnecessary inductance.

Performance of Periodic Operation on MEMCOR AR and FR Resistors



INDUCTANCE COMPARISON CHART OF STANDARD AND NON-INDUCTIVE WINDINGS AT 1 MEGACYCLE*

TAB TERMINAL					AXIAL				
Type & Watts	Resistance ohms	Approx. Frequency Effect			Type & Watts	Resistance ohms	Approx. Frequency Effect		
		Stock (Inductive) Winding L _s μh	Non-Inductive Winding				Stock (Inductive) Winding L _s μh	Non-Inductive Winding	
			L _s μh	C _p μμf				L _s μh	C _p μμf
FR10 (10 Watt)	25	5.8	0.01	—	VL3 (3 Watt)	25	1.2	0.02	—
	100	11.0	0.16	—		100	1.6	0.07	—
	500	18.7	0.02	—		500	4.9	—	0.47
	1000	20.8	—	0.75		1000	4.5	—	0.70
FR50 (50 Watt)	5000	43.0	—	1.00	15000	3.0	—	1.00	
	25	6.8	0.05	—	VL5 (5 Watt)	25	2.5	0.08	—
	100	>100.0	0.40	—		100	5.6	0.14	—
	500	>100.0	0.31	—		500	6.4	—	0.03
1000	>100.0	—	1.10	1000		16.7	—	0.65	
FR100 (100 Watt)	5000	>100.0	—	1.93	5000	37.0	—	0.95	
	25	>100.0	0.11	—	VL10 (10 Watt)	25	8.6	0.02	—
	100	>100.0	0.92	—		100	11.6	0.22	—
	500	>100.0	0.43	—		500	19.5	0.06	—
1000	>100.0	—	2.65	1000		20.1	—	0.65	
FR100 (160 Watt)	5000	>100.0	—	4.25	5000	46.5	—	1.07	
	25	>100.0	0.27	—					
	100	>100.0	1.15	—					
	500	>100.0	0.01	—					
	1000	>100.0	—	5.35					
	5000	>100.0	—	8.40					

*Data is typical for the 1 to 10 megacycle range. Essentially independent of frequency in the r-f range. The residual inductance or capacitance depends on the resistance value.

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NON-INDUCTIVE RESISTORS

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