

### 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

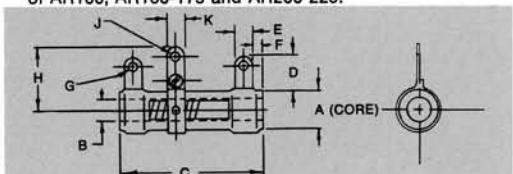
#### FEATURES:

- 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 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  $\pm 100$  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	$\frac{3}{16}$

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

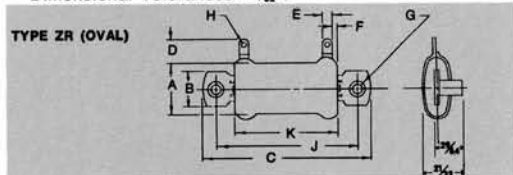
#### FEATURES:

- 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.

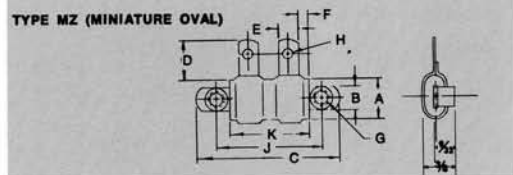
- Standard hardware allows stacking of units.
- Quick disconnect terminals available as optional features.

#### SPECIFICATIONS:

- Resistance tolerance  $\pm 5\%$  ... Closer tolerance available.
- Temperature coefficient  $\pm 100$  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 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.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 $\frac{1}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{16}$	.128	.062	2	$\frac{3}{4}$