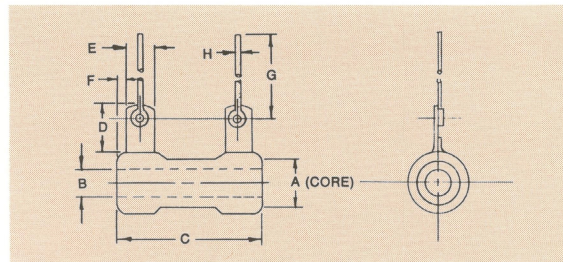


FIXED W/LEADS: TYPE FRL — 5-8, 10-12, 20 WATTS

Mtg. Bracket Mtg. Centers Wt. (Lbs.)	FR5-8 1441-003-001 1 1/2" .012	FR10-12 1441-003-001 2 1/2" .019	FR20 1441-004-001 2 1/2" .033	Mtg. Bracket Mtg. Centers Wt. (Lbs.)	FR5-8 1441-003-001 1 1/2" .012	FR10-12 1441-003-001 2 1/2" .019	FR20 1441-004-001 2 1/2" .033
Ohms	Max. Amps	Max. Amps	Max. Amps	Ohms	Max. Amps	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	3/16	.200	1	3/16	3/16	3/32	1 3/4	.036
FRL10-12W	3/16	.200	1 3/4	3/16	3/16	3/32	1 3/4	.036
FRL20W	3/16	1/4	2	3/16	3/16	3/32	1 3/4	.036

FEATURES:

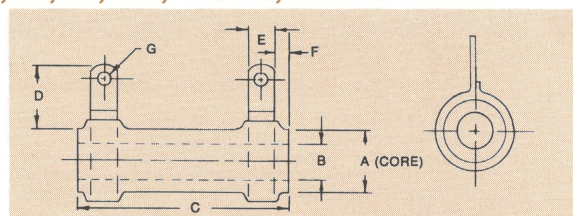
- Tubular construction provides excellent heat dissipation.
- Welded terminals and termination guarantees positive electrical connections.
- Balanced thermal expansion between core, wire and high temperature vitreous enamel assures reliable performance.
- Long term stability results from firing at temperatures 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 $\pm 1/32$ ".

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 1441-005-001 2 3/4" .051	FR50 1441-005-001 4 3/4" .082	FR100 1441-006-001 7 3/4" .2	FR160-175 1441-007-001 9 3/4" .445	FR200-225 1441-007-001 11 3/4" .74
Ohms	Max. Amps	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	3/16	.200	1	3/16	3/16	3/32	.104
FR10-12	3/16	.200	1 3/4	3/16	3/16	3/32	.104
FR20	3/16	1/4	2	3/16	3/16	3/32	.104
FR25	3/16	3/16	2	3/16	3/16	3/32	.104
FR50	3/16	3/16	4	3/16	3/16	3/32	.144
FR100	3/16	1/2	6 1/2	3/16	3/16	3/32	.144
FR160-175	1 1/8	3/4	8 1/2	3/16	3/16	3/32	.177
FR200-225	1 1/8	3/4	10 1/2	3/16	3/16	3/32	.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 $\pm 1/32$ " ... except $\pm 1/16$ " on length of FR100W, FR160-175W and FR200-225W.