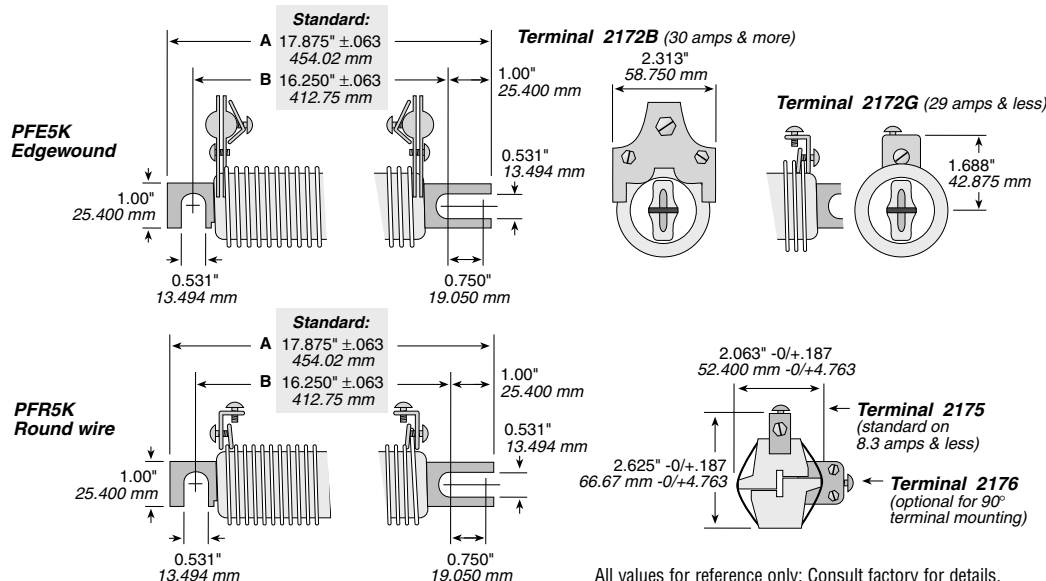


Powr-Rib® Edgewound

Edgewound Round Wire Power Resistors



Designed in both Edgewound and Round Wire formats, these rugged resistors can handle 700 to 1000 Watts of power. Specify our edgewound design for very low resistance and high power capacity. When higher resistance with lower power capacity is required use our round wire design.

Constructed of a heavy resistance alloy mounted on ceramic insulators and supported by a metal mounting bracket. Metal parts, except for the resistance element, are heavily plated to prevent oxidation at high operating temperatures and to prevent corrosion. The mounting bar is slotted on each end to facilitate installation. Edgewound units provide clamp-type terminals, permitting a reliable connection which can be moved along the resistive element to obtain intermediate values.

SPECIFICATIONS

Electrical

Current Rating: Continuous duty as listed on following page.

Wattage Rating: 700 to 1,000 (up to 1,600 watts on special order)

Resistance Tolerance: ±10% standard, ±5% available

Terminals: Clamps, movable along resistor wire for setting intermediate resistance values on Edgewound units (current must be derated in proportion).

Temperature Coefficient:

±300 ppm/°C for resistors 50 amps and more

±500 ppm/°C for resistors 47 amps or less

Ohmic Values: See chart on following page.

Mounting: Metal mounting bar is slotted on each end to facilitate installation.

Edgewound units have clamp-type terminals which permits a reliable connection and can be moved along the resistive element to obtain intermediate values.

Ordering Information

See Part Number chart for standard resistance values when ordering.

ORDERING INFORMATION

RoHS Compliant			
P F E 5 K R 1 0 0 E			
Style	# of Sections	Tolerance	Ohms
PFE = Edgewound	2 5	K = 10%	R100 = 0.10
PFR = Roundwire	3 6		1R00 = 1.0
	4 7		10R0 = 10
	8		

STANDARD PART NUMBERS FOR STD. RESISTANCE

Ohms	EDGEWOUND Part #	Amps	Ohms	ROUNDWIRE Part #	Amps
0.1	✚ PFE5KR100	100	11	✚ PFR5K11R0	8.3
0.12	✚ PFE5KR120	91	13	✓ PFR5K13R0	7.6
0.14	✓ PFE5KR140	89	17	✓ PFR5K17R0	6.6
0.16	✚ PFE5KR160	78	20	✚ PFR5K20R0	5.9
0.18	✚ PFE5KR180	75	25	✚ PFR5K25R0	5.1
0.22	✓ PFE5KR220	68			
0.25	✚ PFE5KR250	63			
0.3	✚ PFE5KR300	57			
0.33	✓ PFE5KR330	54			
0.37	✚ PFE5KR370	50			
0.5	✚ PFE5KR500	47			
0.6	✓ PFE5KR600	43			
0.67	✓ PFE5KR670	41			
0.75	✚ PFE5KR750	39			
1	✚ PFE5K1R00	33			
1.3	✚ PFE5K1R30	29			
1.6	✚ PFE5K1R60	26			
2.2	✚ PFE5K2R20	18.4			
2.8	✚ PFE5K2R80	16.3			
3.5	✚ PFE5K3R50	14.6			
4.5	✚ PFE5K4R50	12.7			
5.4	✚ PFE5K5R40	11.8			
6.8	✚ PFE5K6R80	10.3			
8.5	✚ PFE5K8R50	9.4			

✚ = Most popular standard values
 ✓ = Standard values
 ✚ = Non-standard values subject to minimum handling charge per item.

080 AND 030 TYPES EDGEWOUND "POWR-RIB" RESISTORS

Size* (No. of Insulator-Sections Long)		2	3	4	STANDARD*	6	7	8
Dimension A	in. mm	8.875 (225.425)	11.875 (30.163)	14.875 (377.825)	17.875 (454.025)	20.875 (530.225)	23.875 (606.425)	26.875 (682.625)
Dimension B	in. mm	7.250 (184.150)	10.250 (31.750)	13.250 (336.550)	16.250 (412.75)	19.250 (488.950)	22.250 (565.150)	25.250 (641.350)
Max. Amps		Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
100		.033	.057	.080	.100	.120	.140	.160
91		.040	.070	.100	.120	.140	.160	.180
89		.046	.078	.110	.140	.170	.200	.230
78		.052	.088	.120	.160	.190	.220	.250
75		.060	.100	.140	.180	.210	.250	.300
68		.070	.120	.180	.220	.260	.300	.340
63		.080	.130	.190	.250	.300	.350	.400
57		.100	.160	.230	.300	.360	.420	.480
54		.110	.180	.250	.330	.400	.470	.540
50		.120	.200	.280	.370	.450	.530	.610
47		.170	.280	.380	.500	.600	.700	.800
43		.210	.330	.460	.600	.720	.850	.980
41		.230	.360	.510	.670	.800	.930	1.06
39		.260	.420	.580	.750	.900	1.05	1.20
33		.350	.560	.770	1.00	1.20	1.40	1.60
29		.450	.730	1.00	1.30	1.50	1.75	2.00
26		.560	.900	1.20	1.60	1.90	2.20	2.50
18.4		.690	1.20	1.70	2.20	2.70	3.10	3.50
16.3		.880	1.50	2.20	2.80	3.40	4.00	4.60
14.6		1.10	1.90	2.70	3.50	4.30	5.10	5.90
12.7		1.40	2.40	3.50	4.50	5.50	6.50	7.50
11.8		1.70	2.90	4.20	5.40	6.60	7.80	9.00
10.3		2.10	3.70	5.30	6.80	8.30	9.80	11.3
9.4		2.70	4.60	6.50	8.50	10.40	12.3	14.2
PFR TYPE ROUND-WIRE "POWR-RIB" RESISTORS								
8.3		3.4	5.9	8.5	11.0	13.5	16.0	18.5
7.6		4.1	7.1	10.0	13.0	15.9	18.8	21.7
6.6		5.3	9.2	13.0	17.0	20.8	24.6	28.4
5.9		6.3	10.9	15.4	20.0	24.5	29.0	33.5
5.1		7.9	13.6	19.3	25.0	30.7	36.4	42.1

*Standard 5-section units are stocked; part numbers are listed on previous page.