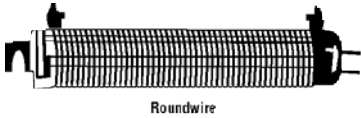


Visit Ohmite's Website at [www.ohmite.com](http://www.ohmite.com)

Edgewound/Round Wire Power Resistors



Roundwire



Edgewound

Powr-Ribs™ are designed to handle 700-1000 watts of power. Their construction consists of thick, heavy resistance alloy wound around porcelain ceramic core insulators supported by a metal mounting bar. The bar is slotted on each end to facilitate installation. Edgewound Powr-Ribs™ provide low resistance at high current ratings, while Round Wire Powr-Ribs™ provide higher resistance at lower current ratings. Clamp-type terminals on the Edgewound units permit a reliable connection which can be moved along the resistive element to obtain intermediate values. **Tolerance:** ±10%. **Average Weight:** 3 lbs. 16.25" long between mounting centers.

Edgewound

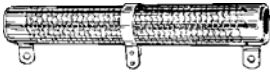
| Stock No. | Mfr.'s Type | Ohms | Max. Amps | Dia. (In.) | Overall Height | EACH   |        |        |
|-----------|-------------|------|-----------|------------|----------------|--------|--------|--------|
|           |             |      |           |            |                | 1-9    | 10-24  | 25-49  |
| 296-4015  | PFE5KR100   | 0.10 | 100.0     | 2.125      | 3.313          | 179.74 | 173.94 | 168.51 |
| 296-4017  | PFE5KR250   | 0.25 | 63.0      | 1.875      | 3.125          | 133.32 | 126.97 | 123.06 |
| 296-4025  | PFE5KR500   | 0.50 | 47.0      | 1.875      | 3.125          | 132.37 | 127.37 | 123.51 |
| 296-4030  | PFE5KR750   | 0.75 | 39.0      | 1.875      | 3.125          | 119.63 | 113.94 | 110.43 |
| 296-4035  | PFE5K1R00   | 1.00 | 33.0      | 1.875      | 3.125          | 97.00  | 92.38  | 89.54  |
| 296-4040  | PFE5K1R30   | 1.30 | 29.0      | 1.875      | 2.563          | 81.67  | 77.78  | 75.38  |
| 296-4045  | PFE5K1R60   | 1.60 | 26.0      | 1.875      | 2.563          | 82.14  | 78.24  | 75.83  |
| 296-4050  | PFE5K2R20   | 2.20 | 18.4      | 1.750      | 2.500          | 79.75  | 77.17  | 74.76  |
| 296-4055  | PFE5K2R80   | 2.80 | 16.3      | 1.750      | 2.500          | 70.95  | 67.57  | 65.49  |
| 296-4060  | PFE5K3R50   | 3.50 | 14.6      | 1.625      | 2.438          | 63.82  | 61.76  | 59.83  |
| 296-4065  | PFE5K4R50   | 4.50 | 12.7      | 1.750      | 2.500          | 104.95 | 99.95  | 96.88  |
| 296-4070  | PFE5K5R40   | 5.40 | 11.8      | 1.750      | 2.500          | 103.33 | 98.41  | 95.38  |
| 296-4075  | PFE5K6R80   | 6.80 | 10.3      | 1.625      | 2.438          | 100.00 | 95.24  | 92.31  |

Roundwire

|          |           |       |     |       |       |        |        |        |
|----------|-----------|-------|-----|-------|-------|--------|--------|--------|
| 296-4086 | PFR5K13R0 | 13.00 | 7.6 | 2.063 | 2.625 | 128.84 | 124.69 | 120.79 |
| 296-4088 | PFR5K20R0 | 20.00 | 5.9 | 2.063 | 2.625 | 122.75 | 116.90 | 113.31 |

Fixed/Adjustable Vitreous Enamel High Power Corrib Resistors

Corrib resistors are ideal for applications involving high currents at very low resistance values – as low as 0.1 ohm at 300 watts. These large, heavy-duty resistors are designed to withstand frequent start-stop cycles characteristic of motor starting, dynamic braking, and other similar applications. They are manufactured with corrugated resistive wire. Ribbed construction aids in rapid cooling. To accelerate cooling, the wire is securely fused to the ceramic core by a protective vitreous enamel coating to improve durability. Corrib resistors are hollow-core units which can be securely fastened to chassis surfaces with the same thru bolts and brackets used with the 210/270 series resistors. **Tolerance:** ±10%. **Core Diameter:** 8.5" long × 1.125". **Overall Height:** 1.895".



Adjustable



Fixed

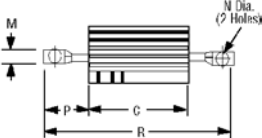
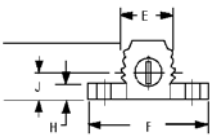
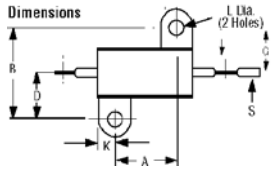
Fixed 300 Watts

| Stock No. | Mfr.'s Type | Ohms  | Max. Amps | EACH  |       |       |
|-----------|-------------|-------|-----------|-------|-------|-------|
|           |             |       |           | 1-9   | 10-24 | 25-49 |
| 296-1955  | C300KR10    | 0.10  | 54.7      | 35.15 | 33.48 | 32.45 |
| 296-1965  | C300KR31    | 0.31  | 31.1      | 31.67 | 30.15 | 29.23 |
| 296-1970  | C300KR50    | 0.50  | 24.5      | 23.47 | 22.35 | 21.66 |
| 296-1973  | C300K1R0    | 1.00  | 17.3      | 24.82 | 23.63 | 22.91 |
| 296-1975  | C300K1R2    | 1.20  | 15.8      | 24.82 | 23.64 | 22.91 |
| 296-1980  | C300K1R6    | 1.60  | 13.7      | 23.87 | 22.73 | 22.03 |
| 296-1985  | C300K2R0    | 2.00  | 12.2      | 20.83 | 19.84 | 19.24 |
| 296-1990  | C300K3R1    | 3.10  | 9.8       | 19.41 | 18.49 | 17.93 |
| 296-1995  | C300K4R0    | 4.00  | 8.6       | 23.38 | 21.93 | 21.27 |
| 296-1997  | C300K5R0    | 5.00  | 7.7       | 18.55 | 17.67 | 17.12 |
| 296-2000  | C300K6R3    | 6.30  | 6.9       | 22.36 | 21.63 | 20.96 |
| 296-2005  | C300K8R0    | 8.00  | 6.1       | 18.55 | 17.67 | 17.12 |
| 296-2010  | C300K10R    | 10.00 | 5.5       | 16.25 | 15.54 | 15.07 |
| 296-2015  | C300K12R    | 12.00 | 5.0       | 21.14 | 20.13 | 19.50 |
| 296-2020  | C300K16R    | 16.00 | 4.3       | 18.22 | 17.64 | 17.09 |
| 296-2025  | C300K20R    | 20.00 | 3.8       | 17.87 | 17.01 | 16.50 |
| —         | —           | —     | —         | —     | —     | —     |

Adjustable 300 Watts

| Stock No. | Mfr.'s Type | Ohms  | Max. Amps | EACH  |       |       |
|-----------|-------------|-------|-----------|-------|-------|-------|
|           |             |       |           | 1-9   | 10-24 | 25-49 |
| 296-2445  | E300KR10    | 0.10  | 54.7      | 38.04 | 36.22 | 35.10 |
| 296-2450  | E300KR16    | 0.16  | 43.3      | 32.26 | 30.84 | 29.90 |
| 296-2455  | E300KR20    | 0.20  | 38.7      | 34.58 | 33.46 | 32.42 |
| 296-2460  | E300KR25    | 0.25  | 34.6      | 33.90 | 32.29 | 31.29 |
| 296-2465  | E300KR31    | 0.31  | 31.1      | 35.63 | 34.48 | 33.41 |
| 296-2470  | E300KR50    | 0.50  | 24.5      | 25.43 | 24.61 | 23.84 |
| 296-2475  | E300K1R0    | 1.00  | 17.3      | 23.15 | 22.41 | 21.71 |
| 296-2477  | E300K1R6    | 1.60  | 13.7      | 28.83 | 27.46 | 26.62 |
| 296-2478  | E300K2R0    | 2.00  | 12.2      | 24.78 | 23.60 | 22.88 |
| 296-2480  | E300K3R1    | 3.10  | 9.8       | 26.85 | 25.57 | 24.78 |
| 296-2485  | E300K4R0    | 4.00  | 8.6       | 26.85 | 25.57 | 24.78 |
| 296-2490  | E300K5R0    | 5.00  | 7.7       | 23.85 | 22.71 | 22.02 |
| 296-2495  | E300K6R3    | 6.30  | 6.9       | 26.67 | 25.39 | 24.62 |
| 296-2500  | E300K8R0    | 8.00  | 6.1       | 25.85 | 24.62 | 23.86 |
| 296-2505  | E300K10R    | 10.00 | 5.5       | 23.15 | 22.05 | 21.37 |
| 296-2510  | E300K12R    | 12.00 | 5.0       | 25.08 | 23.89 | 23.15 |
| 296-2515  | E300K16R    | 16.00 | 4.3       | 25.08 | 23.89 | 23.15 |
| 296-2520  | E300K20R    | 20.00 | 3.8       | 20.83 | 19.85 | 19.23 |

Metal-Mite Aluminum Housed Axial Lead Wirewound Resistors



These molded-construction metal housed axial-lead performance resistors are available in higher power ratings than standard axial-lead resistors and are better suited to withstand shock, vibration and harsh environmental conditions. Metal-Mite resistors are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The metal housing also provides heat-sinking capabilities, allowing the units to exceed the power ratings set by Mil specifications. Meets

or exceeds MIL-R-18546 specifications. Solder coated axial lead terminals. **Tolerance:** ±1%. Power rating based on chassis mounting area and temperature stability. Proper heat sink for wattage is: 4" × 6" × 2" × .040" aluminum chassis for 5 and 10 watt units; 5" × 7" × 2" × .040" aluminum chassis for 25 watt units; 12" × 12" × .059" aluminum panel for 50 watt units.

| Stock No. | Mfr.'s Type | Watts | Ohms | EACH |       |       |
|-----------|-------------|-------|------|------|-------|-------|
|           |             |       |      | 1-9  | 10-24 | 25-49 |
| 296-1026  | 805F25R     | 5     | 25   | 3.33 | 3.17  | 3.08  |
| 296-1027  | 805F50R     | 5     | 50   | 3.79 | 3.73  | 3.62  |
| 296-1028  | 805F100     | 5     | 100  | 3.67 | 3.49  | 3.38  |
| 296-1030  | 805F300     | 5     | 300  | 3.67 | 3.49  | 3.38  |
| 296-1038  | 805F25K     | 5     | 25K  | 6.25 | 5.96  | 5.77  |
| 296-1045  | 810F5R0     | 10    | 5    | 3.62 | 3.45  | 3.34  |
| 296-1050  | 810F10R     | 10    | 10   | 3.62 | 3.46  | 3.35  |
| 296-1065  | 825FR10     | 25    | 0.1  | 6.00 | 5.70  | 5.54  |
| 296-1070  | 825F1R0     | 25    | 1    | 4.53 | 4.32  | 4.18  |

| Stock No. | Mfr.'s Type | Watts | Ohms | EACH |       |       |
|-----------|-------------|-------|------|------|-------|-------|
|           |             |       |      | 1-9  | 10-24 | 25-49 |
| 296-1075  | 825F2R0     | 25    | 2    | 4.53 | 4.32  | 4.18  |
| 296-1080  | 825F3R0     | 25    | 3    | 4.53 | 4.32  | 4.18  |
| 296-1085  | 825F5R0     | 25    | 5    | 4.53 | 4.32  | 4.18  |
| 296-1090  | 825F10R     | 25    | 10   | 4.53 | 4.32  | 4.18  |
| 296-1096  | 825F25R     | 25    | 25   | 4.76 | 4.61  | 4.46  |
| 296-1105  | 825F250     | 25    | 250  | 4.67 | 4.44  | 4.31  |
| 296-1124  | 850FR10     | 50    | 0.1  | 6.37 | 6.06  | 5.88  |
| 296-1125  | 850F1R0     | 50    | 1    | 5.22 | 4.97  | 4.82  |
| 296-1130  | 850F2R0     | 50    | 2    | 5.49 | 5.31  | 5.15  |

| Stock No. | Mfr.'s Type | Watts | Ohms | EACH |       |       |
|-----------|-------------|-------|------|------|-------|-------|
|           |             |       |      | 1-9  | 10-24 | 25-49 |
| 296-1135  | 850F3R0     | 50    | 3    | 5.22 | 4.97  | 4.82  |
| 296-1140  | 850F10R     | 50    | 10   | 5.49 | 5.31  | 5.15  |
| 296-1145  | 850F15R     | 50    | 15   | 5.49 | 5.31  | 5.15  |
| 296-1150  | 850F25R     | 50    | 25   | 5.22 | 4.97  | 4.82  |
| 296-1155  | 850F50R     | 50    | 50   | 5.49 | 5.31  | 5.15  |
| 296-1160  | 850F75R     | 50    | 75   | 5.80 | 5.52  | 5.35  |
| 296-1170  | 850F150     | 50    | 150  | 5.81 | 5.54  | 5.37  |
| 296-1175  | 850F500     | 50    | 500  | 5.22 | 4.97  | 4.82  |
| 296-1176  | 850F1K0     | 50    | 1.0K | 6.21 | 6.00  | 5.82  |

Dimensions (Inches)

| Power Rating | A     | B     | C     | D      | E     | F     | G     | H     | J     | K     | L     | M    | N     | P     | R     | S        |
|--------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|----------|
|              | ±.005 | ±.005 | ±.031 | ±.0025 | ±.015 | ±.015 | ±.015 | ±.010 | ±.015 | ±.010 | ±.005 | Min. | ±.005 | ±.062 | ±.062 | Min. AWG |
| Watts        |       |       |       |        |       |       |       |       |       |       |       |      |       |       |       |          |
| 5            | .444  | .490  | .600  | .245   | .334  | .646  | .320  | .060  | .126  | .078  | .093  | .085 | .050  | .266  | 1.125 | 16       |
| 10           | .562  | .625  | .750  | .312   | .420  | .800  | .390  | .075  | .183  | .093  | .093  | .140 | .086  | .312  | 1.375 | 12       |
| 25           | .719  | .781  | 1.062 | .391   | .550  | 1.080 | .546  | .088  | .231  | .172  | .125  | .140 | .086  | .438  | 1.938 | 12       |
| 50           | 1.563 | .844  | 1.968 | .422   | .630  | 1.140 | .610  | .088  | .260  | .196  | .125  | .140 | .086  | .438  | 2.781 | 12       |

Turn To Section 1 For Allied Office Addresses and Local Phone Numbers

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