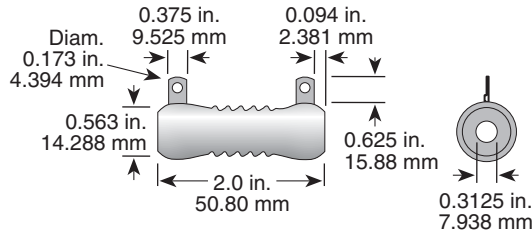


280 Series

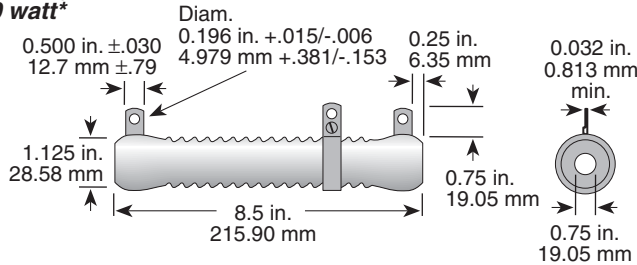
Corrib® Fixed and Adjustable Vitreous Enamel Power



Fixed 35 watt



Fixed/Adjustable 300 watt*



* for values over 0.16Ω, terminal dimensions same as 35 watt at above.

Corrib® resistors are ideal for applications involving high currents at very low resistance values—as low as 0.1Ω for the 300 Watt unit. These large, heavy-duty resistors are designed to withstand frequent start-stop cycles characteristic of motor starting, dynamic braking and other similar applications. Special order units are available to accommodate up to 1500 watts.

Corrubs® are manufactured with corrugated resistive wire. To accelerate cooling, the wire is securely fused to the ceramic core by the protective vitreous enamel coating to improve durability. Corrib resistors are hollow-core units which can be securely fastened to chassis surfaces with thru bolts and brackets.

FEATURES

- Also available in low cost Centohm or Silicone coating. Consult Ohmite.
- Ribbed construction aids in rapid cooling.
- Designed for equipment requiring low resistance loads at low ohmic values and high current capacity.
- Especially constructed for motor starting, dynamic braking, etc.
- RoHS compliant product available. Add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Lead free vitreous enamel except for extreme low resistance 35 watt models, and very large models (750 watts and up), which are supplied in Silicone Ceramic.

Core: Tubular Ceramic.

Terminals: Tinned lug with hole. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu

Adjustable Lug: Supplied with adjustable 300 watt models. Part No. 1974-A or 1974-B.

Electrical

Resistance: Max. 63Ω for 300W version

Tolerance: ±10% (K)

Power rating: Based on 25°C free air rating.

Derating: Linearly from 100% @ +25°C to 0% @ +400°C.

Overload: 10 times rated wattage for 5 seconds.

Temperature coefficient: ±400 ppm/°C.

Dielectric withstanding voltage: 1000 VAC measured from terminal to mounting bracket.

To calculate max. amps: use the formula $\sqrt{P/R}$

MADE-TO-ORDER PARTS

2 8 0 3 0 0 P 4 5 1 2 R 0 0 K

Series	Wattage & Core Code	Terminal Type	Ohms	Tolerance
280 = Fixed 230 = Adjustable	See "Core and Terminal Selection"	See "Resistor Terminals for Tubular Cores"	Example: R0200 = 0.02 Ω R2000 = 0.2 Ω 2R500 = 2.5 Ω 10R00 = 10 Ω	F = 1% H = 3% J = 5% K = 10% (std.)

See website for custom core info

ORDERING INFO

Coating Blank = Vitreous C = Centohm S = Silicone	RoHS Compliant
C 300 K R 1 0 E	
Series C = Fixed E = Adjustable	Wattage K = 10% example: 1R0 = 1 Ω 250 = 250 Ω 1K0 = 1,000 Ω 25K = 25,000 Ω 25K5 = 25,500 Ω

RESISTOR HARDWARE

Thru Bolts Mounting Brackets for 300 Watt Corrib

Includes 2 each bracket, bolt, washers (centering, mica, lock) and nut. Note: Single unit mounting contains 1 each bolt and nut; 2 each all Washers.

Part No.	No. of Resistors	Moun. Derat. %
6110-8 ¹ / ₂	1	100%
- 6127-P-8 ¹ / ₂	2	83%
- 6128-P-8 ¹ / ₂	3	80%
- 6129-P-8 ¹ / ₂	4	80%

Lugs for 300 Watt Adjustable Corrib

Part No.	Resistance	Part No.	Resistance
1974-A 1/16 wire	0.40 0.50 0.63 1.00 1.50 1.60 2.00 2.50 3.10 4.00 5.00 6.30 8.00 10.00 12.00 16.00 20.00 25.00 30.00 48.00 50.00	1974-B 1/8 wire	0.10 0.12 0.16 0.20 0.25 0.31 0.80 1.20

STANDARD PART NUMBERS FOR 280 SERIES

Wattage				Wattage				Other Available Sizes (Partial List)					
Ohmic value	Part No.	Prefix	Suffix	Ohmic value	Part No.	Prefix	Suffix	Prefix*	Wattage	Core Length	Core O.D.	Min. Ohms	Max. Ohms
0.02	R02E			0.8	R80E			C90	90	4.0"	0.563"	0.021	12
0.04	R04E			1.0	1R0E			C100	100	3.5"	0.75"	0.021	11
0.06	R06E			1.2	1R2E			C110	110	5.0"	0.563"	0.029	16
0.08	R08E			1.25	1R25E			C135	135	6.0"	0.563"	0.028	21
0.1	R10E			1.6	1R6E			C150	150	5.0"	1.0"	0.043	27
0.12	R12E			2.0	2R0E			C160	160	6.0"	0.75"	0.038	26
0.15	R15E			2.5	2R5E			C180	180	6.5"	0.75"	0.031	29
0.16	R16E			3.1	3R1E			C190	190	6.0"	1.0"	0.056	35
0.2	R20E			4.0	4R0E			C215	215	7.0"	1.0"	0.068	43
0.25	R25E			5.0	5R0E			C220	220	6.0"	1.125"	0.063	39
0.3	R30E			6.3	6R3E			C270	270	5.0"	1.5"	0.065	41
0.31	R31E			8.0	8R0E			C375	375	10.5"	1.125"	0.130	80
0.4	R40E			10.0	10RE			C500	500	10.5"	1.625"	0.190	117
0.5	R50E			12.0	12RE			C750	750	12.0"	2.5"	0.310	198
0.6	R60E			16.0	16RE			C1000	1000	15.0"	2.5"	0.410	258
0.63	R63E			20.0	20RE			C1500	1500	20.0"	2.5"	0.560	358
				63.0	63RE			*Substitute "C" in prefix with "E" for adjustable versions.					

✓ = Standard values; check availability using the worldwide inventory search at www.ohmite.com