

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.

Corribs® 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

**Tolerance:** ±10% (K)  
**Power rating:** Based on 25°C free air rating.

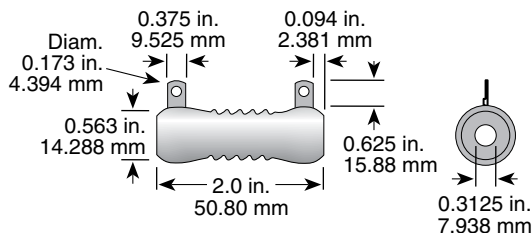
**Derating:** Linearly from 100% @ +25°C to 0% @ +400°C.



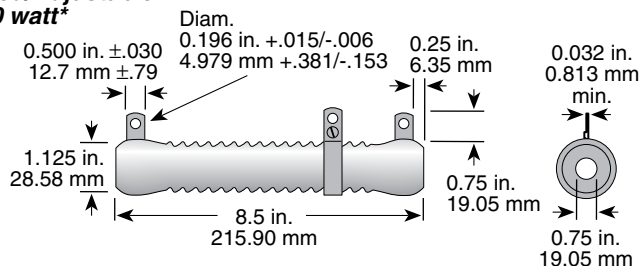
# 280 Series

## Corrib® Fixed and Adjustable Vitreous Enamel Power

### Fixed 35 watt



### Fixed/Adjustable 300 watt\*



\* for values over 0.1Ω, terminal dimensions same as 35 watt at above.

## ORDERING INFO

Coating  
 Blank = Vitreous  
 C = Centohm  
 S = Silicone

RoHS Compliant

**C 300 K R 10 E**

Series Wattage Tolerance Ohms  
 C = Fixed K = 10% example:  
 E = Adjustable 1R0 = 1 Ω  
 250 = 250 Ω  
 1K0 = 1,000 Ω  
 25K = 25,000 Ω  
 25K5 = 25,500 Ω

## MADE-TO-ORDER PARTS

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

**Series**  
 280 = Fixed  
 230 = Adjustable

**Wattage & Core Code**  
 See "Core and Terminal Selection"

**Terminal Type**  
 See "Resistor Terminals for Tubular Cores"

**Ohms**  
 Example:  
 R0200 = 0.02 Ω  
 R2000 = 0.2 Ω  
 2R500 = 2.5 Ω  
 10R00 = 10 Ω

**Tolerance**  
 F = 1%  
 H = 3%  
 J = 5%  
 K = 10% (std.)

See website for custom core info

## STANDARD PART NUMBERS FOR 280 SERIES

Ohmic value	Wattage			Ohmic value	Wattage			Other Available Sizes (Partial List)					
	Part No.	35	300		Part No.	35	300	300 (Adjustable)	Prefix*	Wattage	Core Length	Core O.D.	Min. 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
				100.0	100E	✓	✓						

\*Substitute "C" in prefix with "E" for adjustable versions. ✓ = Standard values; check availability using the worldwide inventory search at www.ohmite.com

**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  $\sqrt{P/R}$

## 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%
6126-P-8 1/2	2	83%
6127-P-8 1/2	3	80%
6128-P-8 1/2	4	80%

### Lugs for 300 Watt Adjustable Corrib

Part No.	Resistance	Part No.	Resistance
1974-A	0.40	1974-B	0.10
1/16 wire	0.50	1/8 wire	0.12
	0.63		0.16
	1.00		0.20
	1.50		0.25
	1.60		0.31
	2.00		0.80
	2.50		1.20
	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		