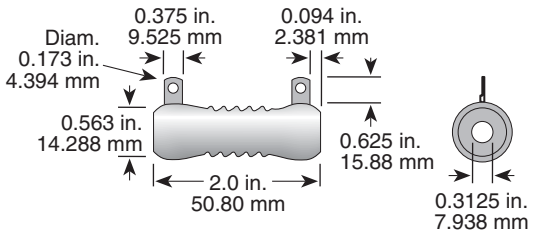
280 Series

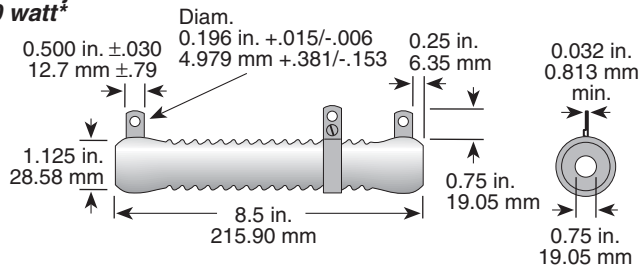
Corrib® Fixed and Adjustable Vitreous Enamel Power

RoHS Compliant

Fixed
35 watt



Fixed/Adjustable
300 watt*



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

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

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
230 = Adjustable 280 = Fixed 480 = Silicone fixed 680 = Centohm fixed	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

C 3 0 0 K R 1 0 E

Coating	Series	Wattage	Tolerance	Ohms
Blank = Vitreous C = Centohm S = Silicone	C = Fixed E = Adjustable		K = 10%	*example:* 1R0 = 1 Ω 250 = 250 Ω 1K0 = 1,000 Ω 25K = 25,000 Ω 25K5 = 25,500 Ω

RoHS Compliant

STANDARD PART NUMBERS FOR 280 SERIES

Ohmic value	Part No. Prefix ➤ / Suffix ▼	Wattage 35 C35K	300 C300K	300 E300K (Adjustable)
0.02	R02E			
0.04	R04E			
0.06	R06E			
0.08	R08E			
0.1	R10E		✔	✔
0.12	R12E		✔	✔
0.15	R15E			
0.16	R16E			✔
0.2	R20E		✔	✔
0.25	R25E		✔	✔
0.3	R30E			
0.31	R31E		✔	✔
0.4	R40E		✔	✔
0.5	R50E		✔	✔
0.6	R60E			
0.63	R63E		✔	✔

Ohmic value	Part No. Prefix ➤ / Suffix ▼	Wattage 35 C35K	300 C300K	300 E300K (Adjustable)
0.8	R80E			✔
1.0	1R0E		✔	✔
1.2	1R2E		✔	
1.25	1R25E			
1.6	1R6E		✔	✔
2.0	2R0E		✔	✔
2.5	2R5E		✔	✔
3.1	3R1E		✔	✔
4.0	4R0E		✔	✔
5.0	5R0E		✔	✔
6.3	6R3E		✔	✔
8.0	8R0E		✔	✔
10.0	10RE		✔	✔
12.0	12RE		✔	✔
16.0	16RE		✔	✔
20.0	20RE		✔	✔
63.0	63RE			

Other Available Sizes (Partial List)

Prefix*	† Wattage	Core Length	Core O.D.	Min. Ohms	Max. Ohms
C90	90	4.0"	0.563"	0.021	12
C100	100	3.5"	0.75"	0.021	11
C110	110	5.0"	0.563"	0.029	16
C135	135	6.0"	0.563"	0.028	21
C150	150	5.0"	1.0"	0.043	27
C160	160	6.0"	0.75"	0.038	26
C180	180	6.5"	0.75"	0.031	29
C190	190	6.0"	1.0"	0.056	35
C215	215	7.0"	1.0"	0.068	43
C220	220	6.0"	1.125"	0.063	39
C270	270	5.0"	1.5"	0.065	41
C375	375	10.5"	1.125"	0.130	80
C500	500	10.5"	1.625"	0.190	117
C750	750 †	12.0"	2.5"	0.310	198
C1000	1000	15.0"	2.5"	0.410	258
C1500	1500	20.0"	2.5"	0.560	358

*Substitute "C" in prefix with "E" for adjustable versions.

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

† Wattages above 750 watts come with silicone coating.

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. Slotted	Part No. Elongated	No. of Resistors	Moun. Derat. %
6110-8 1/2	6126-P-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	**1974-B** 1/8 wire	0.10
	0.50		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		