

280 Series

Corrib® Fixed and Adjustable Vitreous Enamel Power

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 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.

CHARACTERISTICS

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
Resistance	Max. 63Ω for 300W version
Tolerance	$\pm 10\%$ (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 with-standing 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 two each bracket, bolt, washers (centering, mica, lock) and nut. Note: Single unit mounting contains one each bolt and nut; two each all washers.

Part No.		No. of Resistors	Moun. Derat. %
Slotted	Elongated		
6110-81/2	6126-P-81/2	1	100%
-	6127-P-81/2	2	83%
-	6128-P-81/2	3	80%
-	6129-P-81/2	4	80%

Lugs for 300 Watt Adjustable Corrib

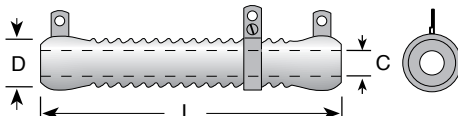
Part No.	Res.	Part No.	Res.
1974-A 1/16 wire	0.40	1974-B 1/8 wire	0.10
	0.50		0.12
	0.63		0.16
	1.00		0.20
	1.50		0.25
	1.60		0.31
	2.00		0.80
	2.50		1.20
	3.10		
	4.00		
	5.00		
	6.30		
	8.00		
	10.00		
	12.00		
	16.00		
	20.00		
	25.00		
	30.00		
	48.00		
	50.00		

(continued)

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DIMENSIONS



Core and Terminal Selection for Made to Order Type

Free Air Wattage Rating	Core Dimensions			Code for Core Dia.	Ohms Min.	Ohms Max.	Term. Type
	D: OD	C: ID	L: Length				
1500 1000 750 380	2.50" (63.5mm)	1.75" (44.45mm)	20.0" (508.00mm) 15.0" (381.00mm) 12.0" (304.80mm) 6.0" (152.40mm)	S S S S	0.56 0.41 0.31 0.13	358 258 198 78	45
550 500 400	1.625" (41.28mm)	1.125" (28.58mm)	11.75" (298.45mm) 10.50" (266.70mm) 8.5" (215.90mm)	R R R	0.21 0.19 0.14	133 117 91	45
270	1.50" (38.10mm)	1.125" (28.58mm)	5.0" (127.00mm)	Q	0.065	41	45
395 375 300 220 185 155 140	1.125" (28.58mm)	0.75" (19.05mm)	11.25" (285.75mm) 10.5" (266.70mm) 8.5" (215.90mm) 6.0" (152.40mm) 5.0" (127.00mm) 4.25" (107.95mm) 4.0" (101.6mm)	P P P P P P P	0.14 0.13 0.099 0.063 0.05 0.038 0.04	87 80 63 39 30 25 20	45
315 215 190 150 125	1.00" (25.40mm)	0.625" (15.88mm)	10.0" (254.00mm) 7.0" (177.60mm) 6.0" (152.40mm) 5.0" (127.00mm) 4.0" (101.60mm)	N N N N N	0.11 0.068 0.056 0.043 0.031	67 43 35 27 19	45
180 160 140 105 100	0.75" (19.05mm)	0.50" (12.70mm)	6.5" (165.10mm) 6.0" (152.40mm) 5.0" (127.00mm) 4.0" (101.60mm) 3.5" (88.90mm)	M M M M M	0.031 0.038 0.028 0.020 0.021	29 26 20 14 11	45
135 110 90 35	0.563" (14.30mm)	0.313" (7.95mm)	6.0" (152.40mm) 5.0" (127.00mm) 4.0" (101.60mm) 2.0" (50.80mm)	K K K K	0.028 0.029 0.021 0.0097	21 16 12 0.11	46 46
35	0.563" (14.30mm)	0.313" (7.95mm)	2.0" (50.80mm)	K	0.12	5.6	40

ORDERING INFORMATION

Standard

Coating
Blank = Vitreous
C = Centohm
S = Silicone

RoHS Compliant

C 3 0 0 K R 1 0 E

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

Made-to-order

See website for custom core info

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 See "Resistor Terminals for Tubular Cores" Example:
280 = Fixed See "Core and Terminal Selection" R0200 = 0.02 Ω
480 = Silicone fixed 2R000 = 0.2 Ω
680 = Centohm fixed 2R500 = 2.5 Ω
10R00 = 10 Ω

NOTE: Wattages above 750 watts come with silicone coating.

Standard part numbers for 280 series

C300KR10E C300K2R0E E300K10RE E300K6R3E
C300KR12E C300K2R5E E300K12RE E300K8R0E
C300KR20E C300K3R1E E300K16RE E300KR10E
C300KR25E C300K4R0E E300K1R0E E300KR12E
C300KR31E C300K5R0E E300K1R6E E300KR16E
C300KR40E C300K6R3E E300K20RE E300KR20E
C300KR50E C300K8R0E E300K2R0E E300KR25E
C300KR63E C300K10RE E300K2R5E E300KR31E
C300K1R0E C300K12RE E300K3R1E E300KR40E
C300K1R2E C300K16RE E300K4R0E E300KR50E
C300K1R6E C300K20RE E300K5R0E E300KR63E
E300KR80E