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	±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 √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. Slotted	Part No. Elongated	No. of Resistors	Moun. Derat. %
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

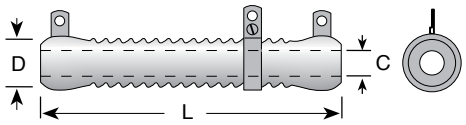
Part No.	Res.	Part No.	Res.
1974-A 1/16 wire	0.40	**1974-B** 1/8 wire	0.10
	0.50		0.12
	0.63		0.16
	1.00		0.20
	1.50		0.25
	1.60		0.31
	2.00		0.80
	2.50		1.20
	3.10		
	4.00		
	5.00		
	6.30		
	8.00		
	10.00		
	12.00		
	16.00		
	20.00		
	25.00		
	30.00		
	48.00		
	50.00		

(continued)

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DIMENSIONS



Core and Terminal Selection for Made to Order Type

Free Air Wattage Rating	Core Dimensions D: OD	C: ID	L: Length	Code for Core Dia.	Ohms Min.	Ohms Max.	Term. Type
1500	2.50" (63.5mm)	1.75" (44.45mm)	20.0" (508.00mm)	S	0.56	358	45
1000			15.0" (381.00mm)	S	0.41	258	
750			12.0" (304.80mm)	S	0.31	198	
380			6.0" (152.40mm)	S	0.13	78	
550	1.625" (41.28mm)	1.125" (28.58mm)	11.75" (298.45mm)	R	0.21	133	45
500			10.50" (266.70mm)	R	0.19	117	
400			8.5" (215.90mm)	R	0.14	91	
270	1.50" (38.10mm)	1.125" (28.58mm)	5.0" (127.00mm)	Q	0.065	41	45
395	1.125" (28.58mm)	0.75" (19.05mm)	11.25" (285.75mm)	P	0.14	87	45
375			10.5" (266.70mm)	P	0.13	80	
300			8.5" (215.90mm)	P	0.099	63	
220			6.0" (152.40mm)	P	0.063	39	
185			5.0" (127.00mm)	P	0.05	30	
155			4.25" (107.95mm)	P	0.038	25	
140			4.0" (101.6mm)	P	0.04	20	

Free Air Wattage Rating	Core Dimensions D: OD	C: ID	L: Length	Code for Core Dia.	Ohms Min.	Ohms Max.	Term. Type
315	1.00" (25.40mm)	0.625" (15.88mm)	10.0" (254.00mm)	N	0.11	67	45
215			7.0" (177.60mm)	N	0.068	43	
190			6.0" (152.40mm)	N	0.056	35	
150			5.0" (127.00mm)	N	0.043	27	
125			4.0" (101.60mm)	N	0.031	19	
180	0.75" (19.05mm)	0.50" (12.70mm)	6.5" (165.10mm)	M	0.031	29	45
160			6.0" (152.40mm)	M	0.038	26	
140			5.0" (127.00mm)	M	0.028	20	
105			4.0" (101.60mm)	M	0.020	14	
100			3.5" (88.90mm)	M	0.021	11	
135	0.563" (14.30mm)	0.313" (7.95mm)	6.0" (152.40mm)	K	0.028	21	46
110			5.0" (127.00mm)	K	0.029	16	
90			4.0" (101.60mm)	K	0.021	12	46
35			2.0" (50.80mm)	K	0.0097	0.11	
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
C = Fixed
E = Adjustable

Wattage

Tolerance
K = 10%

Ohms
example:
1R0 = 1Ω
250 = 250Ω
1K0 = 1,000Ω
25K = 25,000Ω
25K5 = 25,500Ω

NOTE: Wattages above 750 watts come with silicone coating.

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

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.)*

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