

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

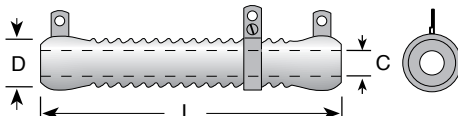
Part No.	Res.	Part No.	Res.
1974-A 1/16 wire	0.40	1974-B 1/8 wire	0.10
	0.50		0.12
	0.63		0.16
	1.00		0.20
	1.50		0.25
	1.60		0.31
	2.00		0.80
	2.50		1.20
	3.10		
	4.00		
	5.00		
	6.30		
	8.00		
	10.00		
	12.00		
	16.00		
	20.00		
	25.00		
	30.00		
	48.00		
	50.00		

(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 Core and Terminal Selection"	See "Resistor Terminals for Tubular Cores"	Example:	F = 1%
280 = Fixed			R0200 = 0.02 Ω	H = 3%
480 = Silicone fixed			R2000 = 0.2 Ω	J = 5%
680 = Centohm fixed			2R500 = 2.5 Ω	K = 10% (std.)
			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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ohmite:

C300K10R	E300K10R	C300KR20	C300KR50	E300KR20	C300K8R0	E300K8R0	E1500K-100	C300KR10
C300KR31	C300K2R0	E300KR50	E300KR31	C300KR80	C300K4R0	C300K2R5	E300KR16	E300K4R0
E300K2R0	E300KR12	E300K2R5	E300KR10	C300KR12	C300K3R1	E300K3R1	C300K1R2	E300K1R6
E300K1R2	E300K1R0	C300K1R6	C300K1R0	C300K5R0	E300K5R0	C300K12R	C300K20R	E300K20R
C300K6R3	E300K6R3	E300KR63	E300KR80	E300KR25	C300KR63	C300KR25	E300KR40	C300KR40
E300K12R	C300K16R	E300K16R	E300K2R0E	E300KR10E	E300K2R5E	E300KR16E	E300KR12E	C300K2R0E
C300KR12E	C300K2R5E	C300KR10E	C300KR50E	E300KR50E	C300K3R1E	C300KR31E	C300K20RE	
E300KR31E	E300K20RE	E300K3R1E	E300K5R0E	C300K5R0E	E300KR40E	C300KR40E	E300KR80E	
C300KR63E	E300KR63E	C300KR25E	C300KR20E	E300KR25E	C300K1R0E	C300K1R6E	C300K1R2E	
C300K12RE	E300K1R6E	E300K1R2E	E300K1R0E	E300K12RE	E300K8R0E	C300K8R0E	C300K590E	
C300K6R3E	E300K6R3E	C300K4R0E	E300K4R0E	E300KR20E	C300K10RE	E300K10RE	C300K16RE	
E300K16RE	C375K4R0	C300KR16	C300KR16E	C375K36R	1974AE			