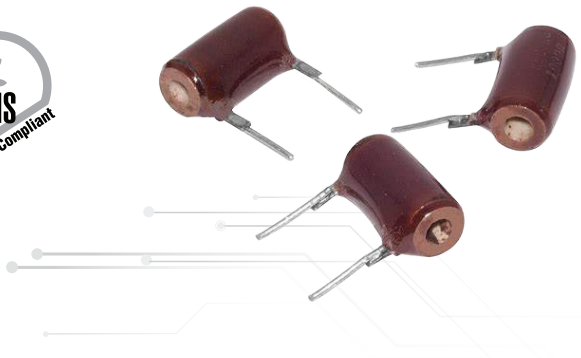
PC-58 Series

Tubular Radial Terminal Wirewound for PC Board Applications



FEATURES

- Radial construction for direct insertion into printed circuit boards; fit standard 2.54mm matrix boards with standard 1.168mm diameter holes. Provides a built in stand-off to reduce board temperature.
- Space saving radial terminals reduce the total length requirement compared to axial terminal resistors and increase packaging density possibilities.
- Flame resistant lead free vitre ous enamel coating.
- RoHS compliant; add "E" suffix to part number to specify.

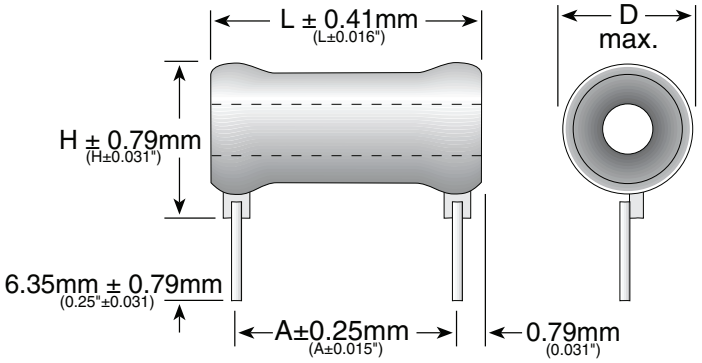
SPECIFICATIONS

Material Core:	Ceramic
Coating:	Vitreous enamel except for values above 4.7K (3W) and 7.5K (5W), which are supplied in silicone-ceramic coatings.
Terminals:	Solder coated radial. #20 ga. tinned terminals require 1.168mm holes (2). RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
Derating:	Linearly from 100% @ +25°C to 0% @ +350°C
Note:	Values above 3.9K (3W) and 8.2K (5W) involve very fine restance wire and should not be used in critical applications without burn-in and/or thermal cycling.
Electrical Tolerance:	±5% (J) (other tolerances available)
Power rating:	Based on 25°C free air rating
Overload:	3 watt: 5 times rated wattage for 5 seconds. 5.25 watt: 10 times rated wattage for 5 seconds.
Temperature coefficient:	±260ppm/°C
Max. amps:	To calculate, use the formula $\sqrt{P/R}$

DIMENSIONS

mm(in.)

Series	Wattage	Ohms	Length	Height	Diam.	Dim. A	Voltage
R3 (vitreous) (silicone)	3	1-3.9K 4K-10K	11.13(0.438)	11.91(0.469)	7.95(0.313)	7.62(0.30)	103
R5 (vitreous) (silicone)	5.25	1-7.4K 7.5K-20K	15.88(0.625)	13.11(0.516)	8.74(0.344)	12.70(0.50)	187



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STANDARD PART NUMBERS FOR PC-58 SERIES

Ohmic value	Part No. Prefix Suffix	Wattage 3 R3J	Wattage 5 R5J
1	1R0	✓	✓
1.5	1R5	✓	✓
2	2R0	✓	✓
2.4	2R4	✓	
3	3R0	✓	✓
3.9	3R9	✓	✓
5	5R0		✓
5.1	5R1	✓	
5.6	5R6		✓
7.5	7R5	✓	
10	10R	✓	✓
15	15R	✓	✓
18	18R		✓
20	20R	✓	✓
22	22R		✓
25	25R		✓
30	30R	✓	✓
40	40R		✓
50	50R	✓	✓
51	51R		✓
56	56R	✓	✓
68	68R	✓	✓
75	75R		✓
82	82R	✓	✓
100	100	✓	✓
120	120	✓	✓
150	150	✓	✓
160	160		✓
200	200	✓	✓
220	220		✓
250	250	✓	✓
270	270	✓	✓
300	300	✓	✓
330	330	✓	✓
350	350		✓
390	390	✓	
400	400		✓
430	430	✓	
500	500	✓	✓
510	510		✓
560	560	✓	✓
600	600	✓	✓
620	620	✓	
750	750	✓	✓
800	800		✓
820	820	✓	
910	910	✓	
1000	1K0	✓	✓
1200	1K2	✓	✓
1300	1K3		✓
1500	1K5	✓	
1800	1K8	✓	✓
2000	2K0	✓	✓
2200	2K2		✓
2400	2K4	✓	
2500	2K5		✓
2700	2K7	✓	
3000	3K0	✓	✓
3300	3K3		✓
3900	3K9	✓	✓
4700	4K7	✓	✓
5000	5K0	✓	✓
5600	5K6	✓	✓
6200	6K2	✓	✓
6800	6K8		
7500	7K5	✓	✓
8200	8K2		✓
9000	9K0	✓	✓
9100	9K1		✓
10,000	10K	✓	✓
12,000	12K		✓
15,000	15K		✓
20,000	20K		✓

✓ = Standard values

Values above 3.9K (3W) and 8.2K (5W) involve very fine resistance wire and should not be used in critical applications without burnin and/or thermal cycling. Values above 4.7K (3W) and 7.5K (5W) supplied in silicone-ceramic coatings instead of vitreous enamel.

ORDERING INFORMATION

RoHS Compliant

R 5 J 1 K 0 E

PC-58 Series

Wattage

Tolerance
J = 5%

Ohm Value
Example:
1R0 = 1.0Ω
10R = 10.0Ω
250 = 250Ω
4K7 = 4,700Ω