

## 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 0.046 in. (1.168 mm) 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 resistance 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:** ±260 ppm/°C.

**To calculate max. amps:** use the formula  $\sqrt{P/R}$ .

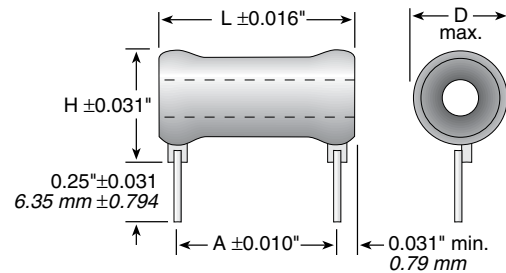
## FEATURES

- Radial construction for direct insertion into printed circuit boards; fit standard 0.10 inch matrix boards with standard 0.046 inch 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 vitreous enamel coating.
- RoHS compliant; add "E" suffix to part number to specify.



# PC-58 Series

## Tubular Radial Terminal Wirewound for PC Board Applications



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

## STANDARD PART NUMBERS FOR PC-58 SERIES

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

✓ = 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 burn-in 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

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[R3J50R](#)