

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 $\sqrt{P/R}$.

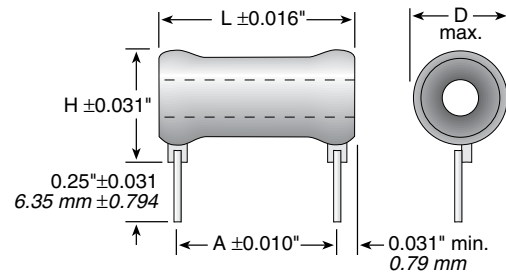
FEATURES

- 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 | |
| R3 (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 |
| R5 (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

Check product availability at www.ohmite.com

Our friendly Customer Service team can be reached at 866-9-OHMITE