

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 $\sqrt{P/R}$.

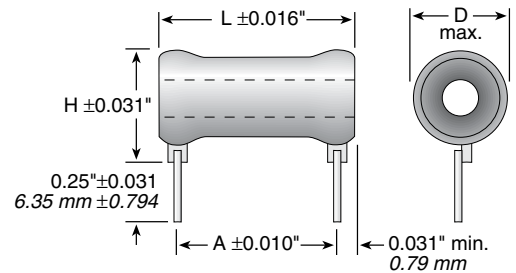
FEATURES

- 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.

Check product availability at www.ohmite.com

ORDERING INFORMATION

RoHS Compliant			
PC-58 Series	Wattage	Tolerance	Ohm Value
R	5	J = 5%	Example: 1R0 = 1.0Ω 10R = 10.0Ω 250 = 250Ω 4K7 = 4,700Ω

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

Mouser Electronics

Authorized Distributor

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

Ohmite:

R5J510	R5J5R0	R5J82R	R5J6K2	R3J1K0	R3J100	R5J40R	R5J120	R5J1K2	R5J200	R5J250	R3J6K2
R5J15R	R5J15K	R3J270E	R5J50RE	R3J30RE	R5J5K6E	R5J5K0E	R5J51RE	R5J510E	R5J4K7E	R3J3R0E	
R3J200E	R3J20RE	R5J220E	R5J22RE	R5J2R0E	R5J10KE	R5J10RE	R5J100E	R3J2K7E	R3J2K0E	R5J40RE	
R3J3K0E	R5J5R0E	R3J3K9E	R5J5R6E	R3J330E	R3J390E	R5J560E	R5J56RE	R3J250E	R5J3R0E	R3J7R5E	
R5J3K9E	R5J3K3E	R5J3K0E	R3J7K5E	R5J330E	R3J1K5E	R3J1K2E	R3J1K8E	R3J1K0E	R3J750E	R3J15RE	
R3J150E	R5J1K3E	R3J820E	R5J1K0E	R5J1K8E	R3J82RE	R5J1K2E	R3J5K0E	R3J5K6E	R5J250E	R5J25RE	
R3J6K2E	R5J2K2E	R5J2K0E	R5J15KE	R5J150E	R5J15RE	R3J4K7E	R5J270E	R5J8K2E	R3J50RE	R5J18RE	
R3J620E	R5J1R0E	R5J12KE	R5J1R5E	R5J120E	R5J200E	R5J20RE	R5J20KE	R3J560E	R3J68RE	R3J56RE	
R5J160E	R5J68RE	R5J9K1E	R5J7K5E	R5J82RE	R5J6K2E	R5J75RE	R5J750E	R3J10KE	R3J100E	R3J10RE	