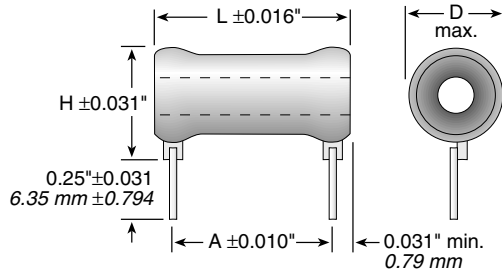


PC-58 Series

Radial Lead Power Resistors for PC Boards



FEATURES

- Radial lead 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 leads reduce the total length requirement compared to axial lead resistors and increase packaging density possibilities.
- Flame resistant lead free vitreous enamel coating.
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

SPECIFICATIONS

- Material**
Core: Ceramic.
Coating: Vitreous Enamel except for extremely high resistance values which are silicone ceramic
Terminals: Solder coated radial. #20 ga. tinned leads require 0.046 in. (1.168 mm) holes (2)
Derating: Linearly from 100% @ +25°C to 0% @ +350°C.
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 $\sqrt{P/R}$.

Series	Wattage	Ohms	Dimensions (in. / mm)			Voltage	
			Length	Height	Diam.		
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	1-6.2K 7.5K-20K	0.625 / 15.88	0.516 / 13.11	0.344 / 8.74	0.50 / 12.70	187

STANDARD PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	3 Watt	5 Watt	Ohmic value	3 Watt	5 Watt	Ohmic value	3 Watt	5 Watt	Ohmic value	3 Watt	5 Watt
1	✓ R3J1R0	✓ R5J1R0	51		✗ R5J51R	430	✗ R3J430		2,500		✗ R5J2K5
1.5	✗ R3J1R5	✗ R5J1R5	56	✓ R3J56R	✗ R5J56R	500	✓ R3J500	✓ R5J500	2,700	✗ R3J2K7	
2	✓ R3J2R0	✓ R5J2R0	68	✓ R3J68R	✓ R5J68R	510		✓ R5J510	3,000	✗ R3J3K0	✓ R5J3K0
2.4	✗ R3J2R4		75		✓ R5J75R	560	✗ R3J560	✗ R5J560	3,300		✓ R5J3K3
3	✓ R3J3R0	✓ R5J3R0	82	✗ R3J82R	✓ R5J82R	600	✗ R3J600	✓ R5J600	3,900	✗ R3J3K9	✓ R5J3K9
3.9	✓ R3J3R9	✓ R5J3R9	100	✓ R3J100	✗ R5J100	620	✗ R3J620		4,700	✗ R3J4K7	✓ R5J4K7
5		✗ R5J5R0	120	✓ R3J120	✓ R5J120	750	✓ R3J750	✓ R5J750	5,000	✓ R3J5K0	✗ R5J5K0
5.1	✓ R3J5R1		150	✗ R3J150	✗ R5J150	800		✗ R5J800	5,600	✗ R3J5K6	✓ R5J5K6
5.6		✗ R5J5R6	160		✓ R5J160	820	✓ R3J820		6,200	✗ R3J6K2	✓ R5J6K2
7.5	✗ R3J7R5		200	✗ R3J200	✗ R5J200	910	✓ R3J910		6,800		
10	✓ R3J10R	✓ R5J10R	220		✓ R5J220	1,000	✓ R3J1K0	✓ R5J1K0	7,500	✗ R3J7K5	✓ R5J7K5
15	✓ R3J15R	✗ R5J15R	250	✓ R3J250	✓ R5J250	1,200	✓ R3J1K2	✗ R5J1K2	8,200		✓ R5J8K2
18		✗ R5J18R	270	✗ R3J270	✗ R5J270	1,300		✗ R5J1K3	9,000	✗ R3J9K0	✗ R5J9K0
20	✗ R3J20R	✗ R5J20R	300	✗ R3J300	✓ R5J300	1,500	✓ R3J1K5		9,100		✗ R5J9K1
22		✓ R5J22R	330	✓ R3J330	✗ R5J330	1,800	✗ R3J1K8	✗ R5J1K8	10,000	✓ R3J10K	✗ R5J10K
25		✓ R5J25R	350		✓ R5J350	2,000	✓ R3J2K0	✗ R5J2K0	12,000		✓ R5J12K
30	✓ R3J30R	✓ R5J30R	390	✗ R3J390		2,200		✓ R5J2K2	15,000		✓ R5J15K
40		✓ R5J40R	400		✓ R5J400	2,400	✗ R3J2K4		20,000		✓ R5J20K
50	✓ R3J50R	✓ R5J50R									

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

Red outlined values supplied in silicone-ceramic coatings instead of vitreous enamel.

✗ = Most popular Standard values
 ✓ = Standard values