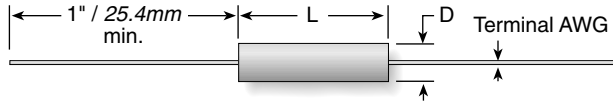


# P Series

## Epoxy Molded Precision Wirewound Axial Terminals



Series	Wattage	Diam. (in./mm)	Length (in./mm)	Lead ga.
PE	0.125	0.125 / 3.18	0.250 / 6.35	22
PF	0.250	0.187 / 4.75	0.375 / 9.53	22
PA	0.500	0.250 / 6.35	0.500 / 12.7	22
PG	0.750	0.250 / 6.35	0.750 / 19.1	20
PB	0.900	0.375 / 9.53	1.000 / 25.4	20
PC	1.500	0.375 / 9.53	1.000 / 25.4	20
PD	2.000	0.500 / 12.7	1.500 / 38.1	20

### ORDERING INFORMATION

E = RoHS compliant

**P A F 1 0 0 0 R E**

P Series	Wattage	Tolerance	Resistance
E	= 0.125W	Z = 0.005%	1R000 = 1Ω
F	= 0.25W	T = 0.010%	10R00 = 10Ω
A	= 0.5W	Q = 0.020%	100R0 = 100Ω
G	= 0.75W	A = 0.050%	1000R = 1000Ω
B	= 0.9W	B = 0.100%	10K00 = 10KΩ
C	= 1.5W	C = 0.250%	100K0 = 100KΩ
D	= 2.0W	D = 0.500%	1M000 = 1MΩ
		F = 1.000%	

Check product availability at [www.ohmite.com](http://www.ohmite.com)

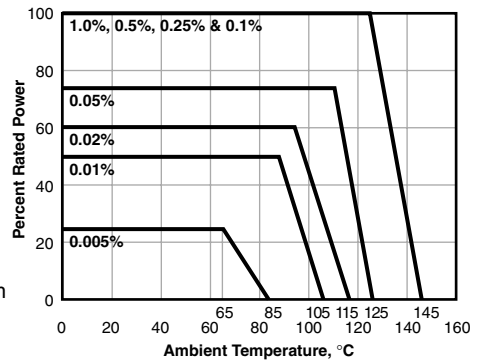
Ohmite's P Series Epoxy molded Precision Wirewound Resistors are designed to meet the exacting requirements of Military Specification MIL-R-93. The P Series offers high stability and low Temperature Coefficient of Resistance (TCR). These resistors offer tolerances as accurate as  $\pm 0.005\%$  and Temperature Coefficients of Resistance (TCR) as low as  $\pm 2\text{PPM}/^\circ\text{C}$  in a wide range of resistance values.

### FEATURES

- Wide Range of Precise Tolerances ( $\pm 0.005\%$  to  $\pm 1\%$ ).
- Low Inductance.
- RoHS Compliant.
- Axial configuration convenient for PCB and hard wiring applications.

### DERATING

P Series Resistors must be derated for tolerances below 0.1% and for elevated ambient temperatures. Choose the curve corresponding to the desired tolerance. Determine the maximum allowed percentage of rated power from the graph based on the maximum ambient temperature expected during use.



### SPECIFICATIONS

#### Material

**Terminals:** Tinned Copper

**Encapsulation:** Silicone Molding Compound

#### Electrical

**Resistance range:** 1Ω to 15MΩ  
**Standard Tolerances:** 0.005%, 0.01%, 0.02%, 0.05%, 0.1%, 0.25%, 0.5%, and 1%

**Temperature Coefficient of Resistance, 0°C to 85°C:**  
 1Ω to <10Ω:  $\pm 25\text{PPM}/^\circ\text{C}$   
 10Ω to <100Ω:  $\pm 15\text{PPM}/^\circ\text{C}$   
 $\geq 100\Omega$ :  $\pm 10\text{PPM}/^\circ\text{C}$

**Operating Temperature Range:** -65°C to 145°C

**Temperature Compensating TCR:** from +80 through +6000 PPM

**TCR Matching:** to  $\pm 0.5\text{PPM}/^\circ\text{C}$  at 25°C