



PR9251- SERIES

OPEN AIR SHUNTS

PRECISION RESISTIVE PRODUCTS, INC.
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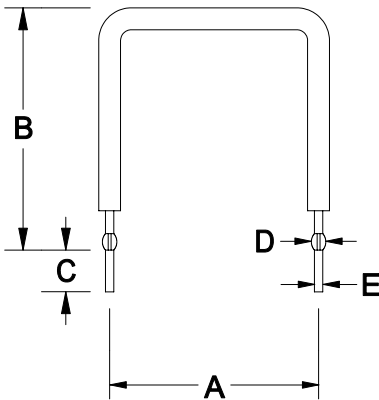
Features:

- 1, 3, and 5 Watts @ 85°C
- 1%, 2% and 5% Standard Tolerance
- Resistance 0.005R to 0.1R
- Low Inductance
- Radial Leads
- High Stability Open Air Style
- TCR ± 20 ppm/°C
- Solderable Copper Leads

Applications:

- Power Supply Shunt and Current Sensing
- Feedback
- Power Tool Motor Controls
- Automotive
- Residual Battery Power Detection
- Inverter and Switching Power Supplies
- CPU Drive Control

Standard Electrical Specifications



Style	Wattage	TCR	Resistance Range (ohms)	Tolerance
PR9251-1	1W @ 85°C	± 20 PPM/°C	0.005 – 0.025	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$
PR9251-3	3W @ 85°C	± 20 PPM/°C	0.005 – 0.025	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$
PR9251-5	5W @ 85°C	± 20 PPM/°C	0.010 – 0.025	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$

Operating Temperature Range is -55°C to +200°C

Dimensions Inches (mm)

Style	A	B	C	D	E
PR9251-1	0.470 \pm 0.040 (12 \pm 1)	1.00 max (25.4)	0.125 \pm 0.030 (3.2 \pm 0.075)	0.065 \pm 0.010 (1.6 \pm 0.20)	0.040 \pm 0.002 (1 \pm 0.05)
PR9251-3	0.600 \pm 0.040 (15 \pm 1)	1.00 max (25.4)	0.125 \pm 0.030 (3.2 \pm 0.075)	0.065 \pm 0.010 (1.6 \pm 0.20)	0.040 \pm 0.002 (1 \pm 0.05)
PR9251-5	0.800 \pm 0.040 (20 \pm 1)	1.00 max (25.4)	0.125 \pm 0.030 (3.2 \pm 0.075)	0.065 \pm 0.010 (1.6 \pm 0.20)	0.040 \pm 0.002 (1 \pm 0.05)



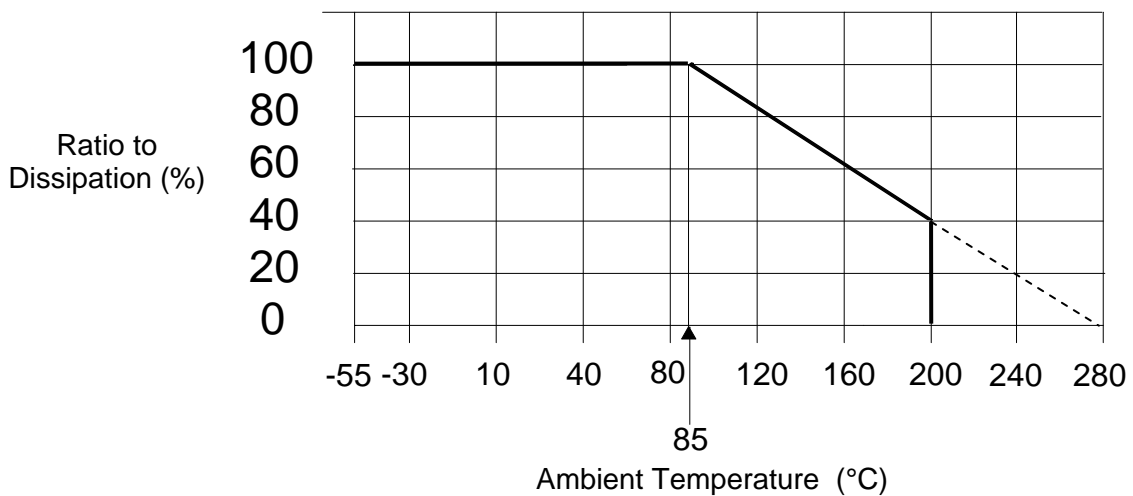
DEDICATION TO EXCELLENCE

Performance Data

Requirements	Performance	Test Method
Resistance to Soldering Heat	± 1.0%	JIS-C-5202-6.4
Thermal Shock	± 1.0%	JIS-C-5202-7.4
Load Life	± 1.0%	JIS-C-5202-7.10
Moisture Resistance	± 1.0%	JIS-C-5202-7.9
Temperature Coefficient	± 20 PPM/°C	JIS-C-5202-5.2
Solderability	95% Min. Coverage	JIS-C-5202-6.5

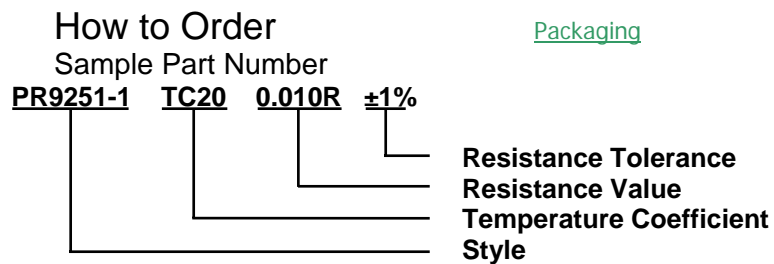
Derating Curve

For resistors operated in ambient above 85°C, power dissipation must be derated in accordance with curve shown below.



[Standard Decade Values](#)

[Packaging](#)



Add "T" after the style number for an optional lead free termination.