



PR9481-SERIES

TO-220 POWER RESISTORS

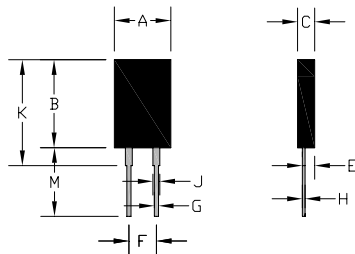
PRECISION RESISTIVE PRODUCTS, INC.
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 PRP HOME PAGE <http://www.prpinc.com>

Features:

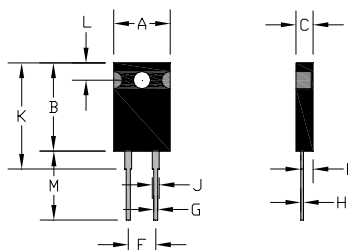
- TO- 220 Style Power Package
- Power Ratings 20W, 30W, 35W & 50W
- Resistance Values from .05Ω to 10KΩ
- Packaging is Tube or Bulk
- Resistance Tolerance ±0.5%, ±1%, ±2%, ±5% & ±10%
- TCR ±50, ±100 & ±200 PPM/°C
- Non Inductive

Applications:

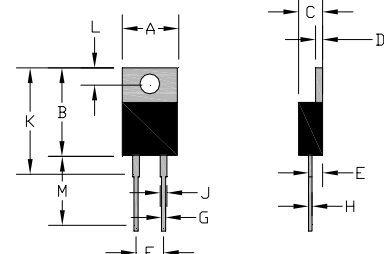
- Voltage Regulation
- Switching Power Supply
- Pulsing Applications
- Non Inductive Design for High Frequency
- Automated Machine Controller
- Power Management



PR9481- 20, 50



PR9481- 30



PR9481- 35

Dimensions Inches (mm)

Type	A	B	C	D	E	F	G	H	J	K	L	M	Hole dia.
PR9481- 20, 50	0.410 (10.41)	0.640 (16.26)	0.125 (3.18)	-	0.070 (1.78)	0.200 (5.08)	0.030 (0.76)	0.020 (0.51)	0.050 (1.27)	1.010 (25.65)	-	0.130 (3.30)	-
PR9481- 30	0.410 (10.41)	0.640 (16.26)	0.125 (3.18)	-	0.070 (1.78)	0.200 (5.08)	0.030 (0.76)	0.020 (0.51)	0.050 (1.27)	1.010 (25.65)	0.125 (3.18)	0.130 (3.30)	0.125 (3.18)
PR9481- 35	0.400 (10.16)	0.581 (14.76)	0.175 (4.45)	0.051 (1.30)	0.085 (2.16)	0.200 (5.08)	0.030 (0.76)	0.025 (0.64)	0.050 (1.27)	0.738 (18.75)	0.116 (2.95)	0.391 (9.93)	0.144 (3.66)

Specifications

Style	Wattage		Resistance Range (Ω)	TCR PPM/°C	Tolerance	Working Voltage (Max)
	W/Heat Sink	Without Heat Sink				
PR9481- 20	20W	3W	0.05Ω ~ 1Ω 2Ω ~ 5Ω 5Ω ~ 10Ω 11Ω ~ 10KΩ	---	±5%, ±10%	350
PR9481- 30	30W	2.25W		±200	±1%, ±5%, ±10%	350
PR9481- 35	35W	2.5W		±100 ±200	±1%, ±5%, ±10%	350
PR9481- 50	50W	3W		±50 ±100 ±200	±0.5%, ±1%, ±5%, ±10%	350



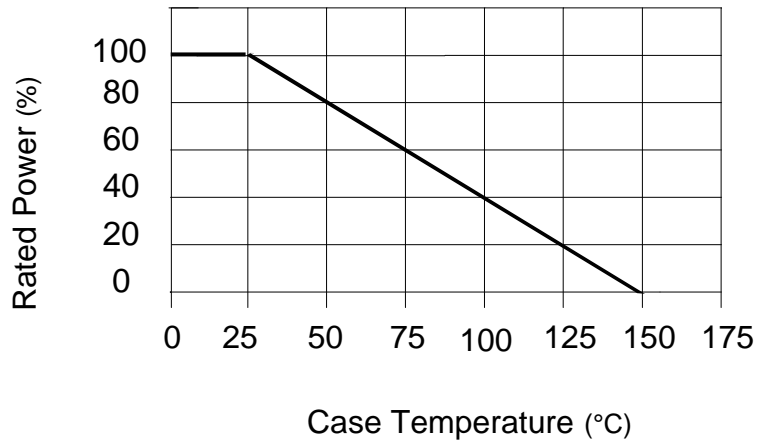
DEDICATION TO EXCELLENCE

Performance Data

Test Item	Performance	Test Method
Load Life	±1%	MIL-R-39009 2000 hrs. @ rated power
Humidity	±0.5%	MIL-STD-202F Method 103B 40°C, 90~95% RH, RCWV 1.5 hours ON, 0.5 hours OFF, total 1000~1048 hours
Thermal Shock	±0.3%	MIL-STD-202F Method 107G -55°C~150°C, 100 cycles
Short Time Overload	±0.3%	2 x rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 sec.
Terminal Strength	±0.2%	MIL-STD-202 Method 211 Cond. A (Pull Test) 2.4N
Vibration, High Frequency	±0.2%	MIL-STD-202 Method 204, Cond. D

Operating Temperature Range is -65°C to +150°C

Derating Curve



Lead Material: Tinned Copper.

Rating without a heat sink is in free air at 25°C.

The case temperature is to be used for the definition of the applied power.

The case temperature measurement must be made with a thermocouple contacting the center of the component mounted on the designed heat sink.

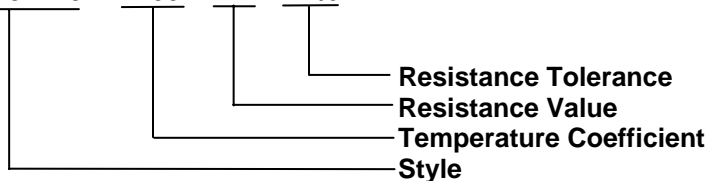
Thermal grease should be applied properly.

How to Order

[Standard Decade Values](#)

[Packaging](#)

Sample Part Number
PR9481- 20 T100 2R ±1%



Add "T" at the end of the Case Size portion of the part number for lead free termination.