

Series PCS-10W

Precision Current Sense Resistor

A Miba Group Company

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Metal alloy resistor, ideal for current monitoring and control applications.

Features

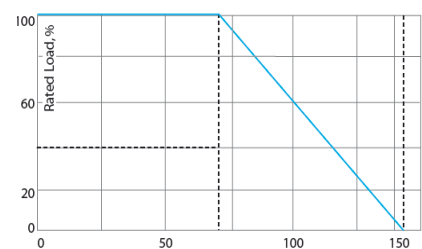
- 10 W operating power
- 4 terminal connection
- Low TCR
- Aluminum base plate, mounted with M3 screws
- Non-Inductive design



Technical Specifications

Resistance value	1 mΩ ≤ 500 mΩ
Resistance tolerance	±0.1 % to ±10 %
Temperature coefficient	±5 ppm/°C to ±100 ppm/°C (+25°C to +105°C, ref. to +25°C)
Power rating	10 W at 70°C bottom case temperature
Dielectric strength	500 V AC / 10 sec.
Load life	1,000 hours at rated power, 70°C ΔR ≤ ±(0.20 % R + 0.001 Ω)
Moisture resistance	MIL-Std.-202, method 106, ΔR ≤ ±(0.20 % R + 0.001 Ω)
Thermal shock	MIL-Std.-202, method 107, Cond. C ΔR ≤ ±(0.20 % R + 0.001 Ω)
Working temperature	-55°C to +150°C
Installation	M3 screw, max. torque 0.9 Nm
Lead material	tinned copper
Weight	~4,8 g

Power Rating Curve



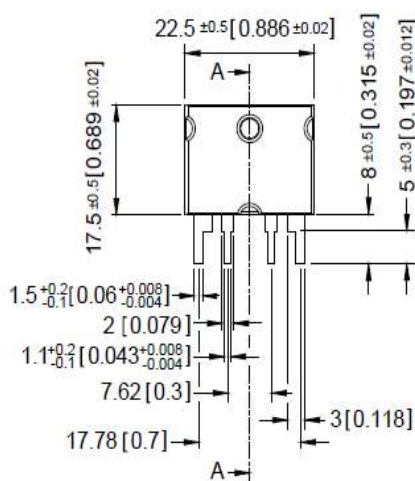
How to make an order

PCS-10W_Ohmic Value_Tolerance_TCR

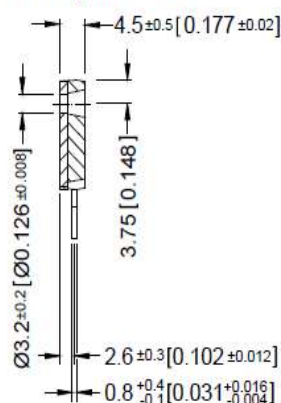
For example:

PCS-10W 3.3 mR 0.5% 25ppm

Dimensions in mm [inches]



Sectional picture A-A:



Application Standard

- GB/T5729-2003 - Part 1:
Fixed resistors for use in electric equipment

Equivalent specification:
MIL-STD-202