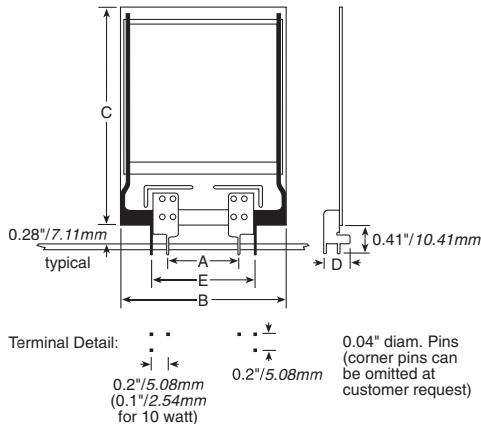


# TC Series

This product has been  
**DISCONTINUED**

## PECOS® Resistors Thick Film on Porcelanized Steel Substrate



PECOS® stands for Porcelain Enamel Coating on Steel. It is a plate resistor system utilizing thick film ruthenium oxide on a porcelain coated steel substrate. Copper plated silver conductors are employed and the resistive element is protected by a glass passivation layer.

These resistors offer low inductance (50nh @ 1MHz) and very high power densities (15W/in<sup>2</sup>). Being PC-board mountable, they are economic to install and best suited for applications under 200V operating.

### FEATURES

- 15W/in<sup>2</sup> Power Density
- Low Inductance
- Easy to Install

### SPECIFICATIONS

#### Material

**Substrate:** PECOS® (Porcelain Enamel Coating on Steel)

**Resistor:** Ruthenium Oxide

**Coating:** Glass

**Terminals:** Solder Plated

Phosphor Bronze, riveted in place and electrically connected with high temperature solder.

**Thermal Conductivity:** 60 Watts/Meter/°C, x-y direction

**Temperature Coefficient:** 150 ppm/°C ≥ 1Ω

#### Electrical

**Ohmic Range:** 1-2500Ω

**Tolerance:** ±1-5% to 20%

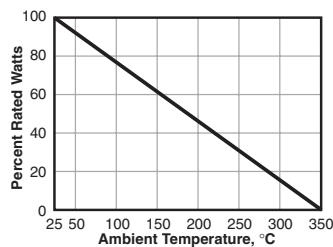
**Power Rating:** Based on 25°C free air

**Maximum Operating Voltage:** 200 VDC

**Overload:** Five times rated power, as long as the one second average dissipation does not exceed the wattage rating.

ΔR: ±2%, 2000 hours

### DERATING CURVE



### ORDERING INFORMATION

E = RoHS compliant  
Available Jan. 2006

**TC 0 2 5 P A 5 R 0 0 F E**

Series  
Power Rating  
PA = standard  
Resistance (Ω)  
5R00 = 5.0  
50R0 = 50.0

Tolerance  
J = 5%  
K = 10%  
L\* = 20%

\*20% Values are not laser trimmed and offer enhanced surge handling.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Ohmite](#):

[TC020PA100RJ](#) [TC100PA50R0J](#) [TC100PA100RJ](#)