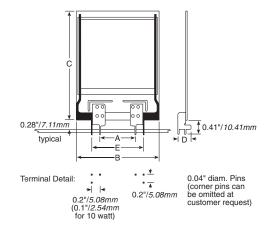
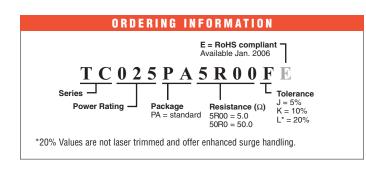
TC Series



PECOS[®] Resistors Thick Film on Porcelainized Steel Substrate



		Dimensions (in. / mm)				
Series	Watts	Α	В	C	D	E
TC010PA	10	0.300 / 7.62	0.55 / 13.97	1.25 / 31.75	0.29 / 7.37	0.50 / 12.70
TC020PA	20	0.600 / 15.24	1.10 / 27.94	1.40 / 35.56	0.37 / 9.40	1.00 / 25.40
TC025PA	25	1.000 / 25.40	1.60 / 40.64	1.25 / <i>31.75</i>	0.37 / 9.40	1.40 / <i>35.56</i>
TC050PA	50	1.000 / 25.40	1.75 / 44.45	2.50 / 63.50	0.37 / 9.40	1.40 / 35.56
TC100PA	100	1.300 / <i>33.02</i>	2.55/ 64.77	3.35 / <i>85.09</i>	0.37 / <i>9.40</i>	1.70 / <i>43.18</i>



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/in²). Being PC-board mountable, they are economic to install and best suited for applications under 200V operating.

FEATURES

- 15W/in² Power Density
- Low Inductance
- · Easy to Install

S P E C I F I C A T I O N S

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 $\ge 1\Omega$

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

