

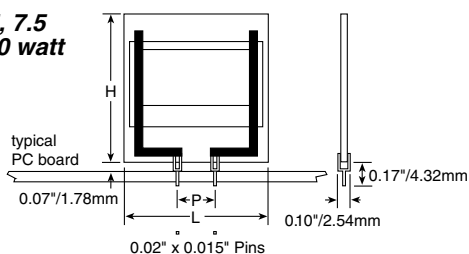
TA Series

Power Chip®

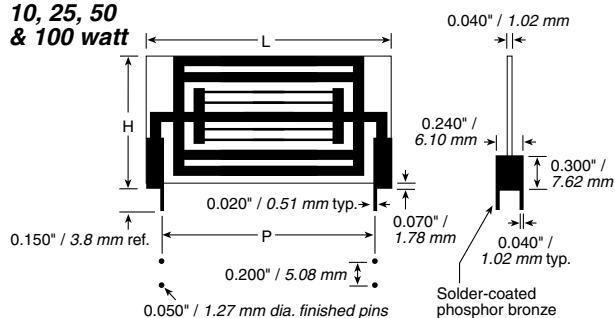
Thick Film on Alumina Substrate



3, 5, 7.5
& 10 watt



10, 25, 50
& 100 watt



Ohmite's original Power Chip resistors feature our thick film on alumina substrate technology. These planar packages yield space saving, 10W/in² power densities that require over 50% less board space than other radial packages. Convection cooling is maximized by the planar package configuration which dissipates heat well above board level.

Ohmite's power chip resistors have a 125% higher operating temperature range than competitive product of similar design. High temperature solder and in-process plating keep terminations secure under self-heating effects by preventing re-flow from full power operation.

Flexible packaging schemes make these resistors ideal for power supplies, audio amplifiers, video fly-back, and other power control applications.

SPECIFICATIONS

Material

Substrate: Alumina

Resistor: Thick Film

Coating: Glass

Terminals: Solder Plated
Phosphor Bronze

Thermal Conductivity:
20 Watts/Meter/°C

Temperature Coefficient:

1 ohm 450 ppm/°C
1 to 100Ω 100 ppm/°C
101Ω and up 50 ppm/°C

Electrical

Tolerance: ±1%, ±5% and ±10%

Power Rating: Based on 25°C free air

Resistance Range: 0.25 ohm to 10M ohm. Consult factory for other values

Maximum Operating Voltage:

350 VAC, 500 VDC through glass, 1000 VAC, 1500 VDC through substrate

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

ΔR: ±2%, 2000 hours

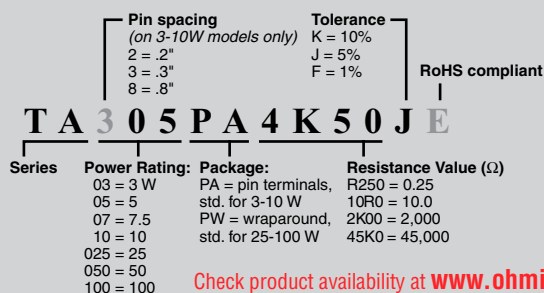
Derating:

100% @ 25°C to 0% @ 350°C.

FEATURES

- High-Temp Terminal Construction
- Wide Resistance Range
- Low Inductance (50nH-100nH)
- High Power Density
- Easy to install. PC-mountable

ORDERING INFORMATION



Check product availability at www.ohmite.com

STANDARD PART NUMBERS FOR TA SERIES

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⊕ = Most popular standard values, ✓ = Stock values, ⊕ =

Non-standard values subject to minimum handling charge per item