

CONDUCTION COOLED

GENERAL SPECIFICATIONS:

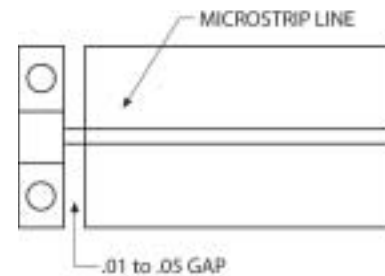
RESISTANCE RANGE: 50 ohms standard .5 ohms to 500 ohms available.
RESISTIVE TOLERANCE: $\pm 5\%$ standard. $\pm 1\%$ and $\pm 2\%$ available.
MECHANICAL TOLERANCE: $\pm .010$ inch unless otherwise specified.
TEMPERATURE COEFFICIENT: ± 100 PPM/ $^{\circ}\text{C}$ maximum from -55°C to $+125^{\circ}\text{C}$.
ENVIRONMENTAL: Meets or exceeds the applicable requirements of MIL-PRF-55342.

MATERIALS:

RESISTIVE ELEMENT: Proprietary film.
SUBSTRATE: **Beryllium Oxide** Ceramic.
COVER: Alumina Ceramic or High Temp. Epoxy.
MOUNTING FLANGE: Copper, Nickel Plated.
TAB: Beryllium Copper, Gold Plated or Platinum Silver.
POWER RATING: Rated power is based on a maximum flange temperature of 100°C derated to 0 power at 150°C .

ENGINEERING NOTE:

In the design of power resistors and terminations, there usually is excessive capacitance to ground. The circuit can be optimized by allowing a gap between the lead(s) and the transmission line. This gap will create a small amount of inductance to balance the circuit. This gap is usually between .01 and .05 inches. A network analyzer can help determine the desired gap. For assistance contact the factory.



HOW TO ORDER BY PART NUMBER:

The part number is a combination of model, size, wattage, value and tolerance.

R= Resistor

T= Termination

Example: RPT 500 12 50 5

MODEL #

FLANGE SIZE

WATTAGE

OHMS

TOLERANCE %