AVX introduces its line of High Power Resistive Products. All products are designed and manufactured at our ISO 9001 Facilities.

**ELECTRICAL SPECIFICATIONS**
- **Resistance:** 50 and 100 Ω standard (10 Ω - 200 Ω available)
- **Resistance Tolerance:** ±5% standard (±2% available)
- **Power:** 2 Watts through 250 Watts
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** < 150 ppm/°C
- **Low Capacitance**

**MECHANICAL SPECIFICATIONS**
- **Package:** Surface Mount Chips, Chips, Leaded Chips, Flanged
- **Substrate Material:** Aluminum Nitride
- **Process:** Thin Film
- **Resistive Material:** Tantalum
- **Terminals:** Silver
- **Cover:** Alumina
- **Mounting Flange:** 100% Cu, Ni or Ag Plated
- **Mechanical Tolerance:** ±0.13 (0.005)
- **SMT and Chip products, supplied on Tape and Reel**
- **Non-Magnetic** (exception RP4 and RP5 Style Surface Mount Resistors)
- **RoHS Compliant**

**POWER DERATING**

![Power Derating Graph](image)
High Power Resistive Products

Resistors

SURFACE MOUNT CHIP RESISTORS – RP4 AND RP5 SERIES

GENERAL SPECIFICATIONS

Resistance: 50 and 100 Ω standard (contact factory for custom resistance values)
Resistive Tolerance: ±2% standard
Operating Temp Range: -55ºC to +150ºC
Temperature Coefficient: <150 ppm/ºC
Resistive Elements: Proprietary Thin Film
Substrate Material: Aluminum Nitride
Terminals: Silver over Nickel
RoHS Compliant
Tape and Reel Specifications: See Page 38

AVX W L T WT LT LA Capacitance Power Max**

Part Number* ±0.25 (0.010) ±0.25 (0.010) ±0.13 (0.005) ±0.13 (0.005) ±0.13 (0.005) ±0.13 (0.005) (pF) (Watts)

RP42010RxxxxGTTR 2.54 (0.100) 5.08 (0.200) 1.02 (0.040) 2.29 (0.090) 0.76 (0.030) 2.41 (0.095) .95 pF 10W
RP42525RxxxxGTTR 6.22 (0.245) 6.22 (0.245) 1.02 (0.040) 3.05 (0.120) 1.02 (0.040) 2.79 (0.115) 1.85 pF 20W
RP43725RxxxxGTTR 6.35 (0.250) 9.53 (0.375) 1.02 (0.040) 3.05 (0.120) 1.27 (0.050) 4.95 (0.195) 3.5 pF 30W
RP43737RxxxxGTTR 9.40 (0.370) 9.40 (0.370) 1.02 (0.040) 9.14 (0.360) 1.27 (0.050) 4.95 (0.195) 3.5 pF 40W
RP52010RxxxxGTTR 2.54 (0.100) 5.08 (0.200) 1.02 (0.040) 2.29 (0.090) 0.76 (0.030) – – 4W
RP52525RxxxxGTTR 6.22 (0.245) 6.22 (0.245) 1.02 (0.040) 3.05 (0.120) 1.02 (0.040) – – 6W
RP53725RxxxxGTTR 6.35 (0.250) 9.53 (0.375) 1.02 (0.040) 3.05 (0.120) 1.27 (0.050) – – 8W
RP53737RxxxxGTTR 9.40 (0.370) 9.40 (0.370) 1.02 (0.040) 9.14 (0.360) 1.27 (0.050) – – 10W

* xxxx denotes Ohm value.
** Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100ºC; maximum rated power applied.

HOW TO ORDER

RP4 Series
AVX
2010
Case Size
R = Resistor
Value
G = ±2%
XXXX
R = Silver over Nickel
T = Tape & Reel
TR

Contact factory for custom ratings and sizes.

POWER DERATING

Contact factory for custom ratings and sizes.