High Power Resistive Products

Resistors

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]

Rated Safe Operating Range
LEADED CHIP RESISTORS – RP7 SERIES

GENERAL SPECIFICATIONS

Resistance: 50 and 100 Ω standard
(contact factory for custom resistance values)
Resistive Tolerance: ±5% standard (2% available)
Operating Temp. Range: -55ºC to +150ºC
Temperature Coefficient: <150 ppm/ºC
Resistive Elements: Proprietary Thin Film
Substrate Material: Aluminum Nitride
Lead Terminals: Silver
Cover: Alumina
RoHS Compliant
Non-Magnetic

AVX Part Number* | W ±0.25 (0.010) | L ±0.25 (0.010) | T ±0.13 (0.005) | A | Capacitance (pF) | Power Max** (Watts)
---|---|---|---|---|---|---
RP72010R000JTBK | 2.54 (0.100) | 5.08 (0.200) | 1.02 (0.040) | 1.02 (0.040) | 1.0 | 30W
RP72335R000JTBK | 8.89 (0.350) | 5.84 (0.230) | 1.02 (0.040) | 1.02 (0.040) | 3.15 | 50W
RP72525R000JTBK | 6.45 (0.250) | 6.22 (0.245) | 1.02 (0.040) | 1.02 (0.040) | 2.0 | 60W
RP73725R000JTBK | 6.35 (0.250) | 9.53 (0.375) | 1.02 (0.040) | 1.02 (0.040) | 4.15 | 150W
RP73737R000JTBK | 9.40 (0.370) | 9.40 (0.370) | 1.02 (0.040) | 1.02 (0.040) | 6.0 | 250W

* xxxx denotes Ohm value.
** Test Condition: Chip soldered to a large copper carrier whose surface is at 100ºC; maximum rated power applied.

HOW TO ORDER

AVX Series RP7
Case Size See chart above
R Type R = Resistor
XXXX Value 0050 = 50Ω 0100 = 100Ω
J Tolerance J = ±5% G = ±2%
T Terminal T = Silver
BK Packaging BK = Plastic Carrier

Contact factory for custom ratings and sizes.

POWER DERATING

Rated Safe Operating Range