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: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Resistive Elements: Proprietary Thin Film

Substrate Material: Aluminum Nitride

Terminals: Silver over Nickel

RoHS Compliant

Tape and Reel Specifications: See Page 38

<table>
<thead>
<tr>
<th>AVX Part Number*</th>
<th>W ±0.25 (0.010)</th>
<th>L ±0.25 (0.010)</th>
<th>T ±0.13 (0.005)</th>
<th>WT ±0.13 (0.005)</th>
<th>LT ±0.13 (0.005)</th>
<th>LA ±0.13 (0.005)</th>
<th>Capacitance (pF)</th>
<th>Power Max** (Watts)</th>
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<tbody>
<tr>
<td>RP42010RxxxxGTR</td>
<td>2.54 (0.100)</td>
<td>5.08 (0.200)</td>
<td>1.02 (0.040)</td>
<td>2.29 (0.090)</td>
<td>0.76 (0.030)</td>
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<td>0.95 pF</td>
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<td>6.22 (0.245)</td>
<td>1.02 (0.040)</td>
<td>3.05 (0.120)</td>
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<td>2.79 (0.110)</td>
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<td>RP43725RxxxxGTR</td>
<td>6.35 (0.250)</td>
<td>9.53 (0.375)</td>
<td>1.02 (0.040)</td>
<td>3.05 (0.120)</td>
<td>1.27 (0.050)</td>
<td>4.95 (0.195)</td>
<td>3.0 pF</td>
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<td>RP43737RxxxxGTR</td>
<td>9.40 (0.370)</td>
<td>9.40 (0.370)</td>
<td>1.02 (0.040)</td>
<td>9.14 (0.360)</td>
<td>1.27 (0.050)</td>
<td>4.95 (0.195)</td>
<td>3.5 pF</td>
<td>40W</td>
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<tr>
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<td>1.02 (0.040)</td>
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<td>–</td>
<td>4W</td>
</tr>
<tr>
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<td>1.02 (0.040)</td>
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<td>1.02 (0.040)</td>
<td>–</td>
<td>–</td>
<td>6W</td>
</tr>
<tr>
<td>RP53725RxxxxGTR</td>
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<td>9.53 (0.375)</td>
<td>1.02 (0.040)</td>
<td>3.05 (0.120)</td>
<td>1.27 (0.050)</td>
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<td>–</td>
<td>8W</td>
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<tr>
<td>RP53737RxxxxGTR</td>
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<td>9.40 (0.370)</td>
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<td>9.14 (0.360)</td>
<td>1.27 (0.050)</td>
<td>–</td>
<td>–</td>
<td>10W</td>
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</tbody>
</table>

* xxxx denotes Ohm value.

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

HOW TO ORDER

RP4

AVX Series

2010

R

XXXX

G

T

TR

Case Size

See chart above

Type

Value

0050 = 50Ω

0100 = 100Ω

Tolerance

J = ±5%

G = ±2%

Terminal

T = Silver over Nickel

Packaging

TR = Tape & Reel

Contact factory for custom ratings and sizes.

POWER DERATING