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

**ELECTRICAL SPECIFICATIONS**
- **Resistance:** 50 Ω standard (10 Ω - 200 Ω available)
- **Resistance Tolerance:** ±5% standard (±2% available)
- **Power:** 2 Watts through 225 Watts
- **Operating Temperature Range:** -55ºC to +150ºC
- **Temperature Coefficient:** < 150 ppm/ºC
- Low VSWR

**MECHANICAL SPECIFICATIONS**
- **Package:** Surface Mount Chips, Chips, Leaded Chips, Flange Mount
- **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)
- **RoHS Compliant**
- SMT and Chip products, supplied on Tape and Reel

**FLANGE MOUNT TERMINATIONS HOW TO ORDER**

<table>
<thead>
<tr>
<th>RPA</th>
<th>0300</th>
<th>T</th>
<th>0050</th>
<th>J</th>
<th>N</th>
<th>BK</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVX Series</td>
<td>Case Size</td>
<td>Type</td>
<td>Value 50Ω</td>
<td>Tolerance J = ±5%</td>
<td>Terminal N = Silver</td>
<td>Packaging BK = Plastic Carrier</td>
</tr>
</tbody>
</table>

**POWER DERATING**

Contact factory for custom ratings and sizes.
LEADED CHIP TERMINATIONS – RPB SERIES

GENERAL SPECIFICATIONS

Nominal Impedance: 50 Ω
Resistive Tolerance: ±5% standard, ±2% available
Operating Temp Range: -55ºC to +150ºC
Temperature Coefficient: ±150 ppm/ºC
Resistive Elements: Tantalum, Thin Film Processed
Substrate Material: Aluminum Nitride
Terminals: Silver over Nickel
RoHS Compliant

** 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.

<table>
<thead>
<tr>
<th>AVX Part Number</th>
<th>W (mm) ±0.25 (0.010)</th>
<th>L (mm) ±0.25 (0.010)</th>
<th>T (mm) ±0.13 (0.005)</th>
<th>A (mm) ±0.13 (0.006)</th>
<th>Frequency (GHz)</th>
<th>Capacitance (pF)</th>
<th>Power Max** (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB1020T0050JTTR</td>
<td>5.08 (0.200)</td>
<td>2.54 (0.100)</td>
<td>0.64 (0.025)</td>
<td>1.02 (0.040)</td>
<td>DC to 18.0</td>
<td>1.25:1</td>
<td>20W</td>
</tr>
<tr>
<td>RPB2010T0050JTTR</td>
<td>2.54 (0.100)</td>
<td>5.08 (0.200)</td>
<td>1.02 (0.040)</td>
<td>1.02 (0.040)</td>
<td>DC to 4.0</td>
<td>1.20:1</td>
<td>30W</td>
</tr>
<tr>
<td>RPB2525T0050JTTR</td>
<td>6.22 (0.245)</td>
<td>6.22 (0.245)</td>
<td>1.02 (0.040)</td>
<td>1.02 (0.040)</td>
<td>DC to 4.0</td>
<td>1.15:1</td>
<td>60W</td>
</tr>
<tr>
<td>RPB3235T0050JTTR</td>
<td>8.89 (0.350)</td>
<td>5.84 (0.230)</td>
<td>1.02 (0.040)</td>
<td>1.02 (0.040)</td>
<td>DC to 4.0</td>
<td>1.15:1</td>
<td>100W</td>
</tr>
<tr>
<td>RPB3725T0050JTTR</td>
<td>6.35 (0.250)</td>
<td>9.53 (0.375)</td>
<td>1.02 (0.040)</td>
<td>1.02 (0.040)</td>
<td>DC to 4.0</td>
<td>1.20:1</td>
<td>125W</td>
</tr>
<tr>
<td>RPB3737T0050JTTR</td>
<td>9.40 (0.370)</td>
<td>9.40 (0.370)</td>
<td>1.02 (0.040)</td>
<td>1.02 (0.040)</td>
<td>DC to 2.0</td>
<td>1.25:1</td>
<td>200W</td>
</tr>
</tbody>
</table>

** 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

RPB 2010 T 0050 J T BK

AVX Series Case Size See chart above
T = Type Termination
Value 0050 = 500
Tolerance J = ±5%
G = ±2%
Terminal T = Silver over Nickel
Packaging BK = Plastic Carrier

Contact factory for custom ratings and sizes.

POWER DERATING