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 0050 = 50Ω</td>
<td>Tolerance J = ±5% (G = ±2% available Consult Factory)</td>
<td>Terminal N = Silver</td>
<td>Packaging BK = Plastic Carrier</td>
</tr>
</tbody>
</table>

Contact factory for custom ratings and sizes.

### POWER DERATING

![Power Derating Chart]

**Rated Safe Operating Range**

![Power Dissipation vs. Heat Sink Temperature]
FLANGE MOUNT TERMINATION – P/N: RPA0500T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard
(contact factory for custom values)

Power: 20 Watts

Frequency: DC to 6.0 GHz

VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz

Operating Temperature Range: -55ºC to +150ºC

Temperature Coefficient: <150 ppm/ºC

Tabs: Silver

RoHS Compliant

FLANGE MOUNT TERMINATION – P/N: RPA0302T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard
(contact factory for custom values)

Power: 20 Watts

Frequency: DC to 18 GHz

VSWR: 1.15:1 @ 15 GHz, 1.25:1 @ 18 GHz

Operating Temperature Range: -55ºC to +150ºC

Temperature Coefficient: <150 ppm/ºC

Tabs: Silver

RoHS Compliant

For Part Number Code, see page 14.
FLANGE MOUNT TERMINATION – P/N: RPA0515T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard (contact factory for custom values)

Power: 60 Watts

Frequency: DC to 6.0 GHz

VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

LRoHS Compliant

FLANGE MOUNT TERMINATION – P/N: RPA0516T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard (contact factory for custom values)

Power: 60 Watts

Frequency: DC to 6 GHz

VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant

For Part Number Code, see page 14.
FLANGE MOUNT TERMINATION – P/N: RPA0517T0050JNBK

**ELECTRICAL SPECIFICATIONS**

- **Nominal Impedance:** 50 Ω ±5% standard (contact factory for custom values)
- **Power:** 60 Watts
- **Frequency:** DC to 6 GHz
- **VSWR:** 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **RoHS Compliant**

For Part Number Code, see page 14.

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FLANGE MOUNT TERMINATION – P/N: RPA0560T0050JNBK

**ELECTRICAL SPECIFICATIONS**

- **Nominal Impedance:** 50 Ω ±5% standard (contact factory for custom values)
- **Power:** 75 Watts
- **Frequency:** DC to 4 GHz
- **VSWR:** 1.25:1
- **Typical Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **RoHS Compliant**

For Part Number Code, see page 14.
High Power Resistive Products

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0561T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard (contact factory for custom values)
Power: 75 Watts
Frequency: DC to 4.0 GHz
VSWR: 1.25:1
Typical Operating Temperature Range: -55°C to +150°C
Temperature Coefficient: <150 ppm/°C
Tabs: Silver
RoHS Compliant

For Part Number Code, see page 14.

FLANGE MOUNT TERMINATION – P/N: RPA0800T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard (contact factory for custom values)
Power: 50 Watts
Frequency: DC to 6 GHz
VSWR: 1.10:1 @ 4.5 GHz, 1.18:1 @ 6.0GHz
Operating Temperature Range: -55°C to +150°C
Tabs: Silver
RoHS Compliant

For Part Number Code, see page 14.
High Power Resistive Products

Terminations

**FLANGE MOUNT TERMINATION – P/N: RPA0870T0050JNBK**

**ELECTRICAL SPECIFICATIONS**

- **Nominal Impedance:** 50 Ω ±5% standard (contact factory for custom values)
- **Power:** 100 Watts
- **Frequency:** DC to 4.0 GHz
- **VSWR:** 1.20:1
- **Typical Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **RoHS Compliant**

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**FLANGE MOUNT TERMINATION – P/N: RPA0300T0050JNBK**

**ELECTRICAL SPECIFICATIONS**

- **Nominal Impedance:** 50 Ω ±5% standard (contact factory for custom values)
- **Power:** 20 Watts
- **Frequency:** DC to 6 GHz
- **VSWR:** 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **RoHS Compliant**

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For Part Number Code, see page 14.
FLANGE MOUNT TERMINATION – P/N: RPA0301T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω ±5% standard (contact factory for custom values)
Power: 20 Watts
Frequency: DC to 6 GHz
VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,
Operating Temperature Range: -55°C to +150°C
Temperature Coefficient: <150 ppm/°C
Tabs: Silver
RoHS Compliant

For Part Number Code, see page 14.