

# High Power Resistive Products

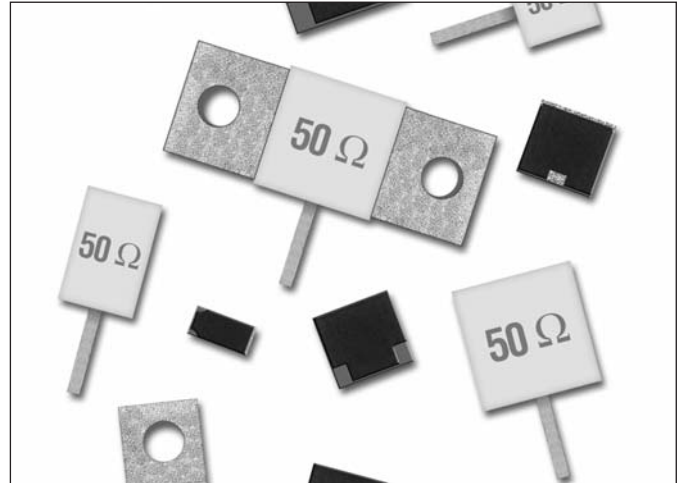


## Terminations

AVX introduces its complete line of High Power Termination Products. All Products are designed and manufactured at our ISO 9001 Facilities. All products are tested in accordance with MIL-PRF-55342.

### ELECTRICAL SPECIFICATIONS

- Resistance:** 50  $\Omega$  standard (10  $\Omega$  - 200  $\Omega$  available)
- Resistance Tolerance:**  $\pm 5\%$  standard ( $\pm 2\%$  available)
- Power:** 2 Watts through 225 Watts
- Operating Temperature Range:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:**  $< 150 \text{ ppm}/^{\circ}\text{C}$
- Low VSWR**

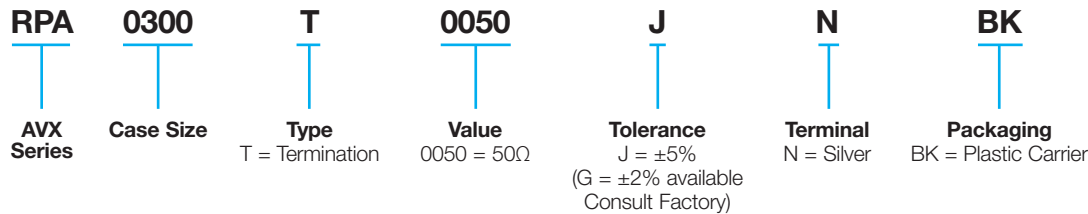


### MECHANICAL SPECIFICATIONS

- 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:**  $\pm 0.13$  (0.005)
- RoHS Compliant**
- SMT and Chip products, supplied on Tape and Reel**

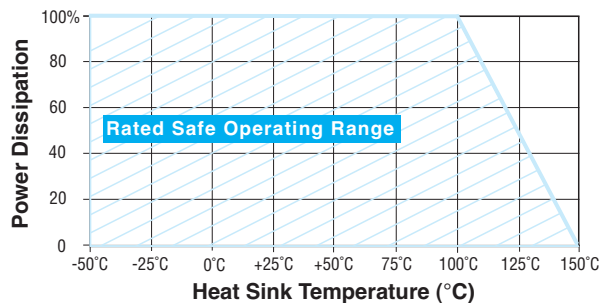


### FLANGE MOUNT TERMINATIONS HOW TO ORDER



Contact factory for custom ratings and sizes.

### POWER DERATING



# High Power Resistive Products

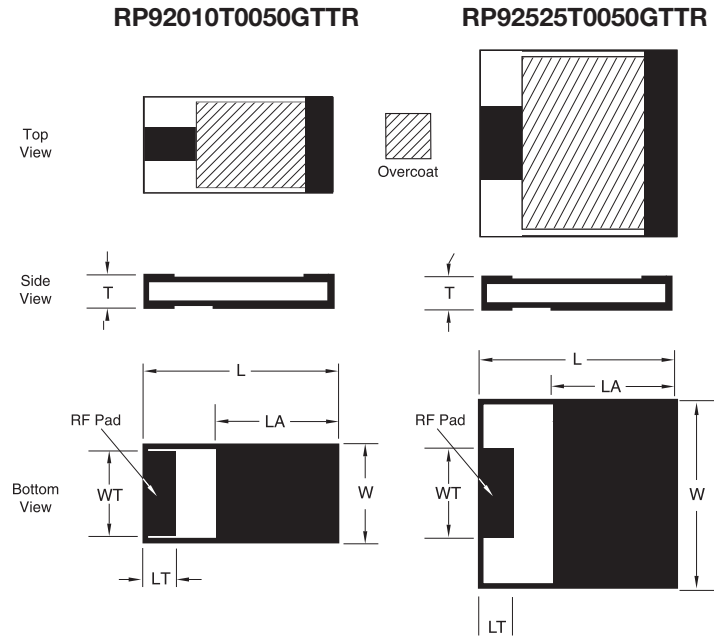


## Terminations

### SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES

#### GENERAL SPECIFICATIONS

- Nominal Impedance:** 50 Ω
- Resistive Tolerance:** ±2% standard
- Operating Temp Range:** -55°C to +150°C
- Temperature Coefficient:** ±150 ppm/°C
- Resistive Elements:** Tantalum, Thin Film Processed
- Substrate Material:** Aluminum Nitride
- Terminals:** Silver over Nickel
- RoHS Compliant**
- Reliability:** MIL-PRF-55342
- Tape and Reel Specifications:** See Page 38



mm (inches)

AVX Part Number	W ±0.25 (0.010)	L ±0.25 (0.010)	T ±0.13 (0.005)	LT ±0.13 (0.005)	WT ±0.13 (0.005)	LA ±0.13 (0.005)	Frequency Range (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP92010T0050GTRR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	1.02 (0.040)	2.29 (0.090)	2.92 (0.115)	DC - 3.0	1.20:1	10W
RP92525T0050GTRR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	0.76 (0.030)	3.18 (0.125)	4.32 (0.170)	DC - 4.0	1.25:1	20W

\*\* 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. Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

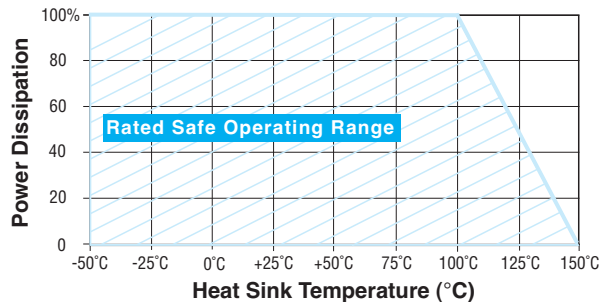
#### HOW TO ORDER

<b>RP9</b>	<b>2010</b>	<b>T</b>	<b>0050</b>	<b>G</b>	<b>T</b>	<b>TR</b>
AVX Series	Case Size See chart above	Type T = Termination	Value 0050 = 50Ω	Tolerance J = ±5% G = ±2%	Terminal T = Silver over Nickel	Packaging TR = Tape & Reel



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#### POWER DERATING



# High Power Resistive Products

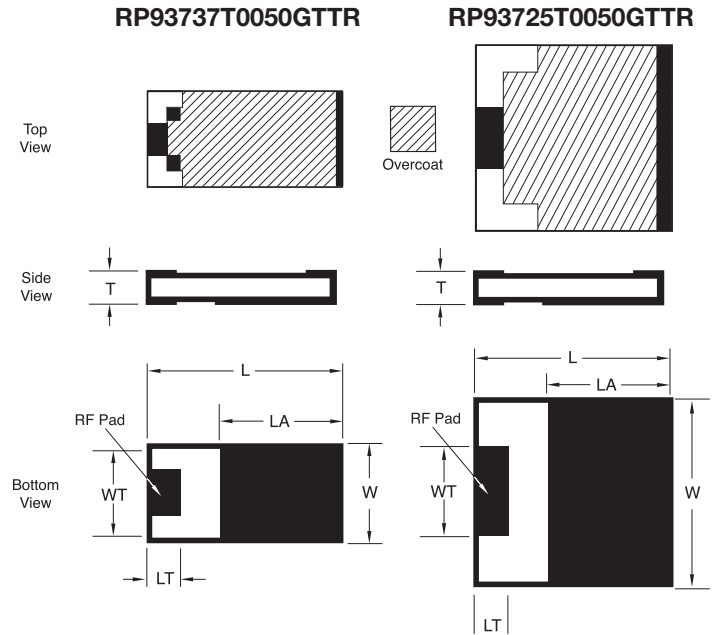


## Terminations

### SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES

#### GENERAL SPECIFICATIONS

- Nominal Impedance:** 50 Ω
- Resistive Tolerance:** ±2% standard
- Operating Temp Range:** -55°C to +150°C
- Temperature Coefficient:** ±150 ppm/°C
- Resistive Elements:** Tantalum, Thin Film Processed
- Substrate Material:** Aluminum Nitride
- Terminals:** Silver over Nickel
- RoHS Compliant**
- Reliability:** In accordance with MIL-PRF-55342
- Tape and Reel Specifications:** See Page 38



mm (inches)

AVX Part Number	W ±0.25 (0.010)	L ±0.25 (0.010)	T ±0.13 (0.005)	LT ±0.13 (0.005)	WT ±0.13 (0.005)	LA ±0.13 (0.005)	Frequency Range (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP93725T0050GTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	1.27 (0.050)	3.18 (0.125)	6.60 (0.260)	DC - 2.2	1.20:1	30W
RP93737T0050GTTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	1.27 (0.050)	3.18 (0.125)	6.99 (0.275)	DC - 3.0	1.25:1	40W

\*\* 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. Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

#### HOW TO ORDER

<b>RP9</b>	<b>2010</b>	<b>T</b>	<b>0050</b>	<b>G</b>	<b>T</b>	<b>TR</b>	
<b>AVX Series</b>	<b>Case Size</b> See chart above	<b>Type</b> T = Termination	<b>Value</b> 0050 = 50Ω	<b>Tolerance</b> J = ±5% G = ±2%	<b>Terminal</b> T = Silver over Nickel	<b>Packaging</b> TR = Tape & Reel	

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#### POWER DERATING

