

# High Power Resistive Products

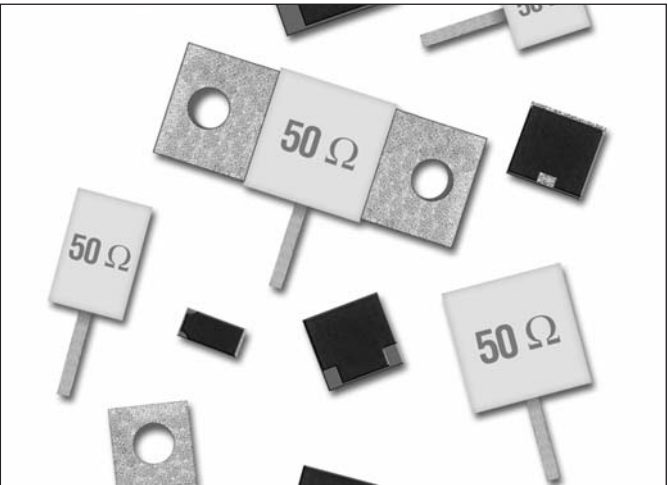


## Terminations

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

### 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**

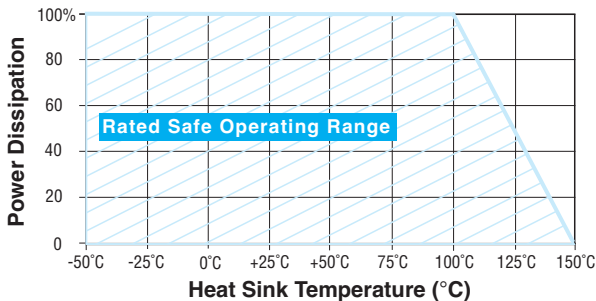


### FLANGE MOUNT TERMINATIONS HOW TO ORDER

RPA	0300	T	0050	J	N	BK
AVX Series	Case Size	Type T = Termination	Value 0050 = 50 $\Omega$	Tolerance J = $\pm 5\%$ (G = $\pm 2\%$ available Consult Factory)	Terminal N = Silver	Packaging BK = Plastic Carrier

Contact factory for custom ratings and sizes.

### POWER DERATING



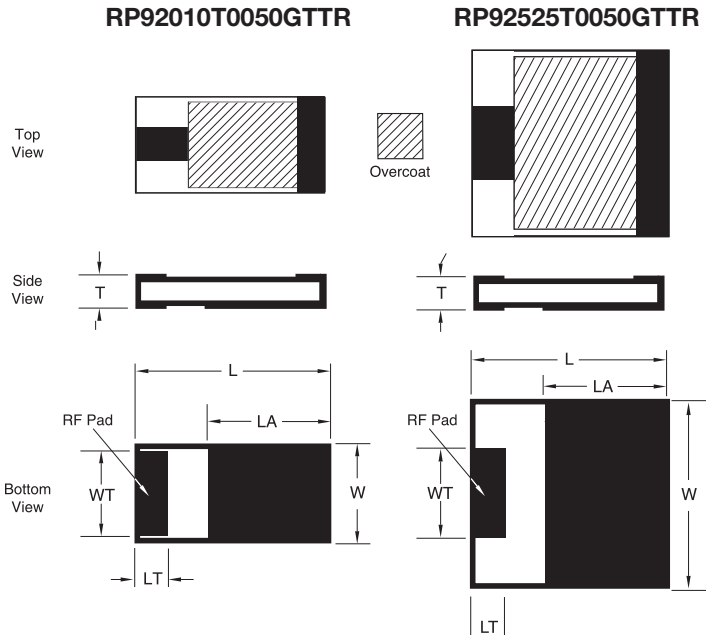
# High Power Resistive Products



## Terminations

### SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES GENERAL SPECIFICATIONS

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



mm (inches)

AVX Part Number	W $\pm 0.25$ (0.010)	L $\pm 0.25$ (0.010)	T $\pm 0.13$ (0.005)	LT $\pm 0.13$ (0.005)	WT $\pm 0.13$ (0.005)	LA $\pm 0.13$ (0.005)	Frequency Range (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP92010T0050GTTR	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
RP92525T0050GTTR	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.

### HOW TO ORDER

**RP9** **2010** **T** **0050** **G** **T** **TR**

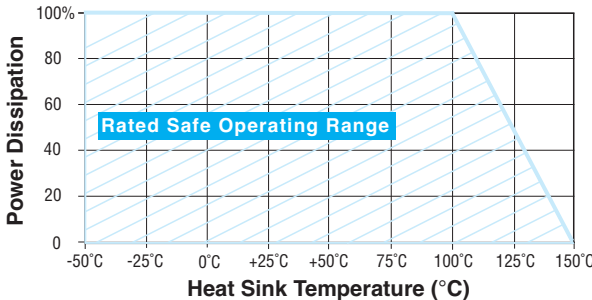
**AVX Series** **Case Size** **Type** **Value** **Tolerance** **Terminal** **Packaging**

See chart above  
 T = Termination  
 0050 = 50  $\Omega$   
 J =  $\pm 5\%$   
 G =  $\pm 2\%$   
 T = Silver over Nickel  
 TR = Tape & Reel



Contact factory for custom ratings and sizes.

### POWER DERATING



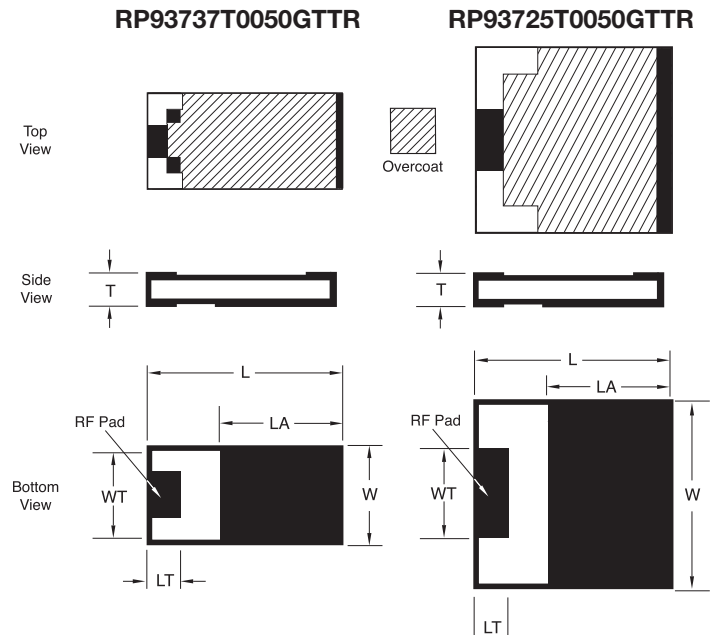
# High Power Resistive Products



## Terminations

### SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES GENERAL SPECIFICATIONS

**Nominal Impedance:** 50  $\Omega$   
**Resistive Tolerance:**  $\pm 2\%$  standard  
**Operating Temp Range:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$   
**Temperature Coefficient:**  $\pm 150$  ppm/ $^{\circ}\text{C}$   
**Resistive Elements:** Tantalum, Thin Film Processed  
**Substrate Material:** Aluminum Nitride  
**Terminals:** Silver over Nickel  
**RoHS Compliant**  
**Tape and Reel Specifications:** See Page 38



mm (inches)

AVX Part Number	W $\pm 0.25$ (0.010)	L $\pm 0.25$ (0.010)	T $\pm 0.13$ (0.005)	LT $\pm 0.13$ (0.005)	WT $\pm 0.13$ (0.005)	LA $\pm 0.13$ (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  $100^{\circ}\text{C}$ ; maximum rated power applied.

### HOW TO ORDER

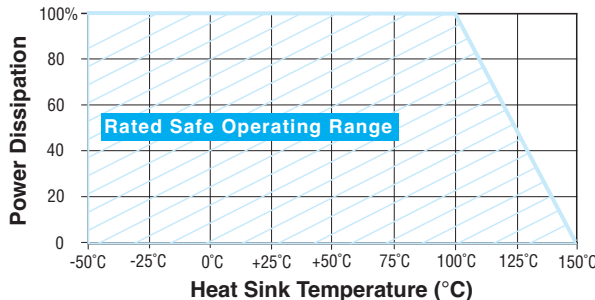
**RP9** **2010** **T** **0050** **G** **T** **TR**

**AVX Series** **Case Size** See chart above **Type** T = Termination **Value** 0050 = 50  $\Omega$  **Tolerance** J =  $\pm 5\%$  G =  $\pm 2\%$  **Terminal** T = Silver over Nickel **Packaging** TR = Tape & Reel



Contact factory for custom ratings and sizes.

### POWER DERATING



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Authorized Distributor

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