

High Power Resistive Products

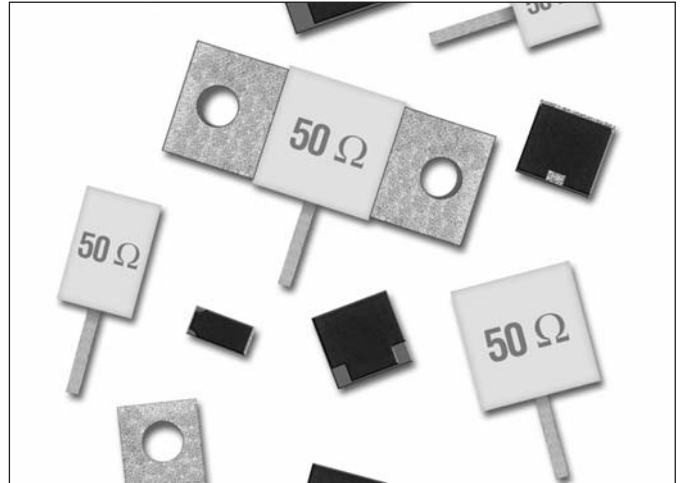


Terminations

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

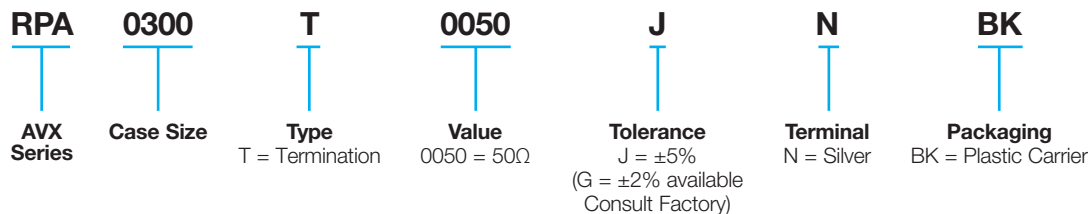


MECHANICAL SPECIFICATIONS

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

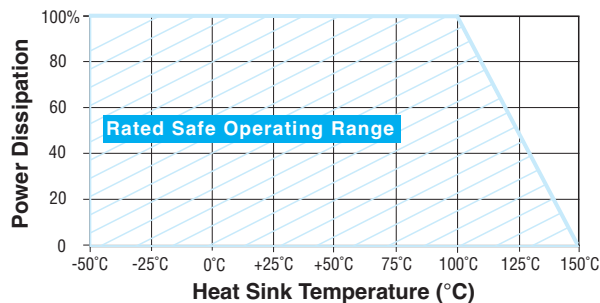


FLANGE MOUNT TERMINATIONS HOW TO ORDER



Contact factory for custom ratings and sizes.

POWER DERATING



High Power Resistive Products

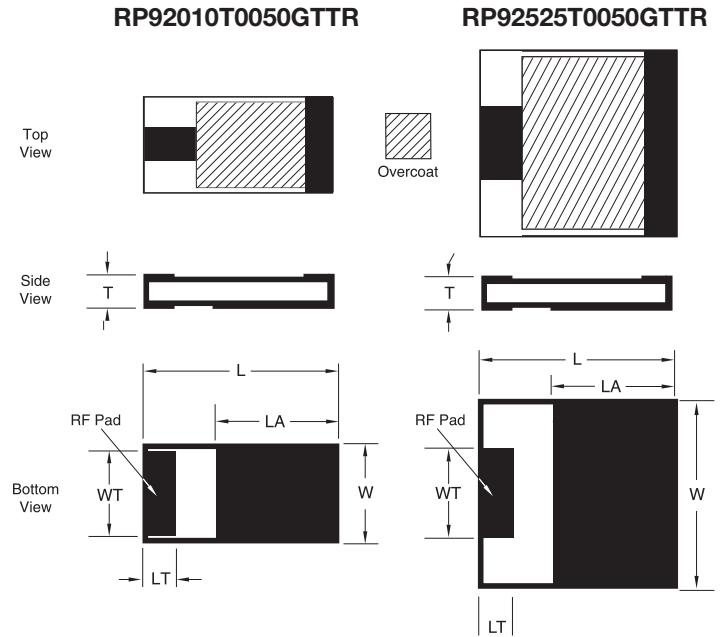


Terminations

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**
- Tape and Reel Specifications:** See Page 38

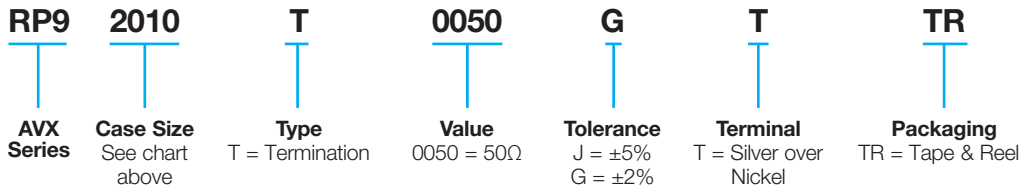


mm (inches)

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

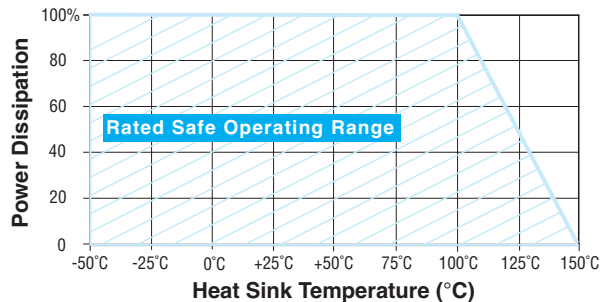
** Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100°C; maximum rated power applied.

HOW TO ORDER



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POWER DERATING



High Power Resistive Products

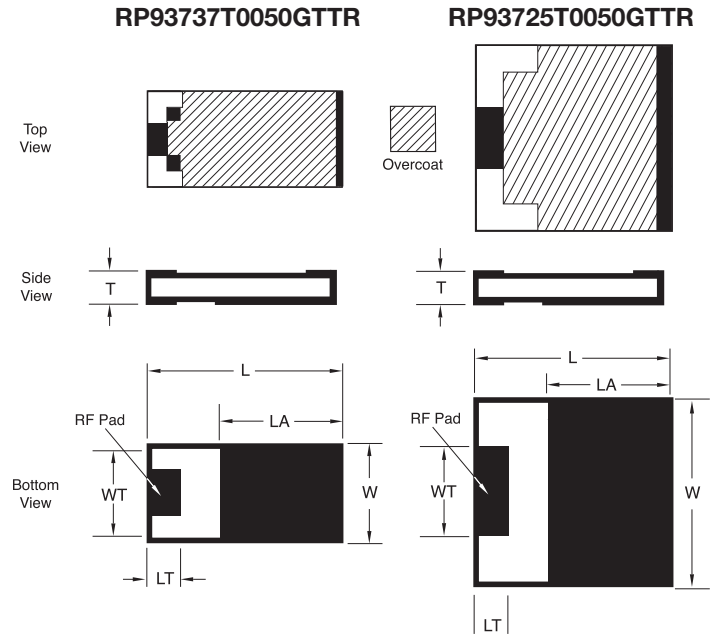


Terminations

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**
- 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.

HOW TO ORDER

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

