

High Power Resistive Products

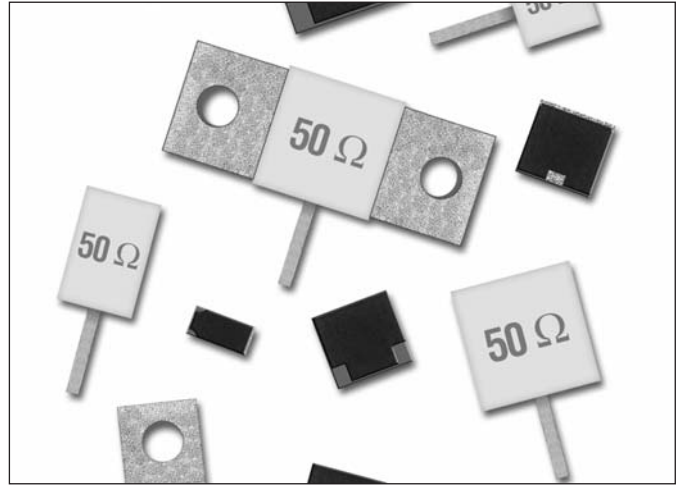


Terminations

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**

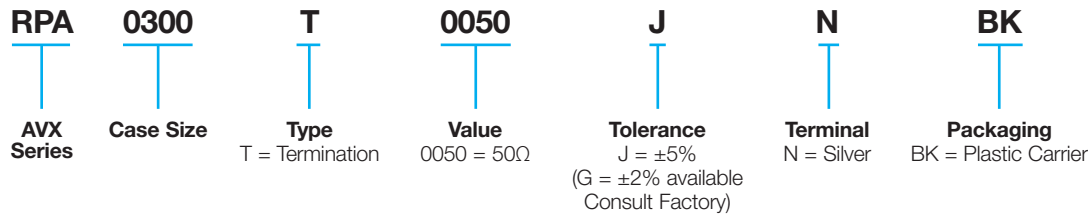


MECHANICAL SPECIFICATIONS

- 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**

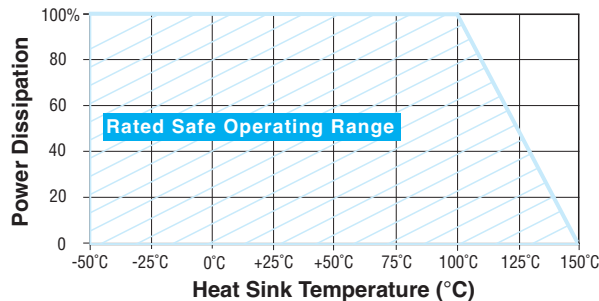


FLANGE MOUNT TERMINATIONS HOW TO ORDER



Contact factory for custom ratings and sizes.

POWER DERATING



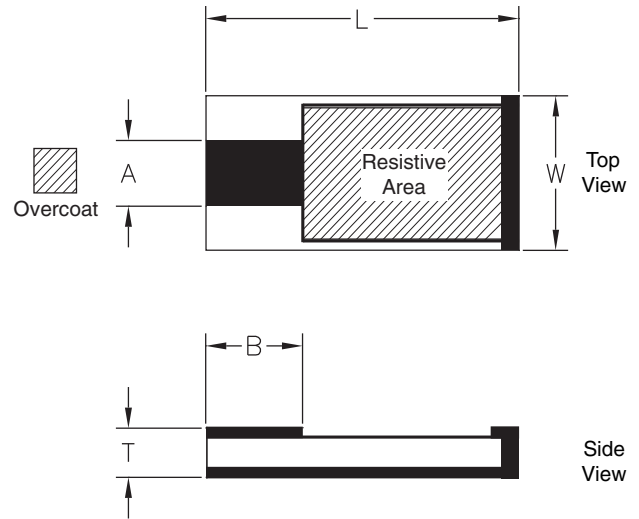
High Power Resistive Products



Terminations

CHIP TERMINATIONS – RP8 SERIES GENERAL SPECIFICATIONS

- Nominal Impedance:** 50 Ω
- Resistive Tolerance:** ±5% standard, ±2% available
- 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)	A ±0.25 (0.010)	B (Typ.)	Frequency (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP81020T0050JTTR	5.08 (0.200)	2.54 (0.100)	0.64 (0.025)	0.86 (0.034)	0.51 (0.020)	DC to 18.0	1.25:1	20W
RP82010T0050JTTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	1.27 (0.050)	1.52 (0.060)	DC to 4.0	1.20:1	30W
RP82525T0050JTTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	2.29 (0.090)	0.51 (0.020)	DC to 4.0	1.15:1	60W
RP82335T0050JTTR	8.89 (0.350)	5.84 (0.230)	1.02 (0.040)	2.54 (0.100)	0.76 (0.030)	DC to 4.0	1.15:1	100W
RP83725T0050JTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	2.29 (0.090)	0.64 (0.025)	DC to 4.0	1.20:1	125W
RP83737T0050JTTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	3.05 (0.120)	0.64 (0.025)	DC to 2.0	1.25:1	150W

** 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

RP8	2010	T	0050	J	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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