# **High Power Resistive Products**



# **Resistors**

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

## **ELECTRICAL SPECIFICATIONS**

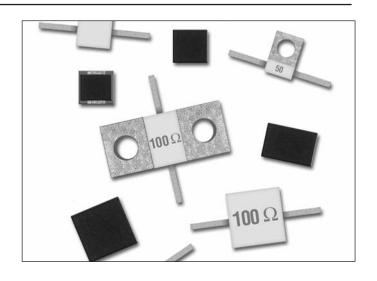
**Resistance:** 50 and 100  $\Omega$  standard (10  $\Omega$  - 200  $\Omega$  available) **Resistance Tolerance:**  $\pm 5\%$  standard ( $\pm 2\%$  available)

Power: 2 Watts through 250 Watts

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

**Temperature Coefficient:** < 150 ppm/°C

**Low Capacitance** 



### **MECHANICAL SPECIFICATIONS**

Package: Surface Mount Chips, Chips, Leaded Chips, Flanged

Substrate Material: Aluminum Nitride

Process: Thin Film

Resistive Material: Tantalum

**Terminals:** Silver **Cover:** Alumina

Mounting Flange: 100% Cu, Ni or Ag Plated

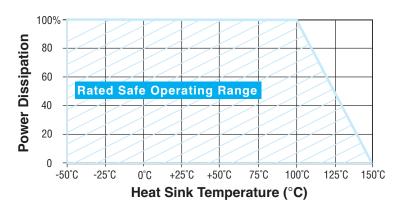
Mechanical Tolerance: ±0.13 (0.005)

SMT and Chip products, supplied on Tape and Reel

Non-Magnetic (exception RP4 and RP5 Style Surface Mount Resistors)

**RoHS Compliant** 

#### **POWER DERATING**





# **High Power Resistive Products**



**RP5 Series** 

## **Resistors**

## **SURFACE MOUNT CHIP RESISTORS - RP4 AND RP5 SERIES**

## **GENERAL SPECIFICATIONS**

**Resistance:** 50 and 100  $\Omega$  standard

(contact factory for custom resistance values)

Resistive Tolerance: ±2% standard

Operating Temp Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

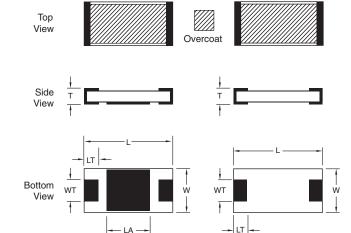
Resistive Elements: Proprietary Thin Film

Substrate Material: Aluminum Nitride

Terminals: Silver over Nickel

**RoHS Compliant** 

Tape and Reel Specifications: See Page 38



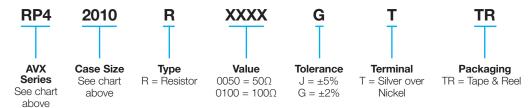
**RP4 Series** 

mm (inches)

AVX Part Number*	W ±0.25 (0.010)	L ±0.25 (0.010)	T ±0.13 (0.005)	WT ±0.13 (0.005)	LT ±0.13 (0.005)	LA ±0.13 (0.005)	Capacitance (pF)	Power Max** (Watts)
RP42010RxxxxGTTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	2.29 (0.090)	0.76 (0.030)	2.41 (0.095)	.95 pF	10W
RP42525RxxxxGTTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	3.05 (0.120)	1.02 (0.040)	2.79 (0.110)	1.85 pF	20W
RP43725RxxxxGTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	3.05 (0.120)	1.27 (0.050)	4.95 (0.195)	3.0 pF	30W
RP43737RxxxxGTTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	9.14 (0.360)	1.27 (0.050)	4.95 (0.195)	3.5 pF	40W
RP52010RxxxxGTTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	2.29 (0.090)	0.76 (0.030)	-	-	4W
RP52525RxxxxGTTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	3.05 (0.120)	1.02 (0.040)	-	-	6W
RP53725RxxxxGTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	3.05 (0.120)	1.27 (0.050)	-	-	8W
RP53737RxxxxGTTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	9.14 (0.360)	1.27 (0.050)	-	-	10W

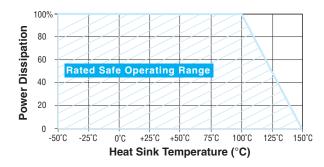
<sup>\*</sup> xxxx denotes Ohm value.

#### **HOW TO ORDER**



Contact factory for custom ratings and sizes.

#### **POWER DERATING**





<sup>\*\*</sup> 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.