

# 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)

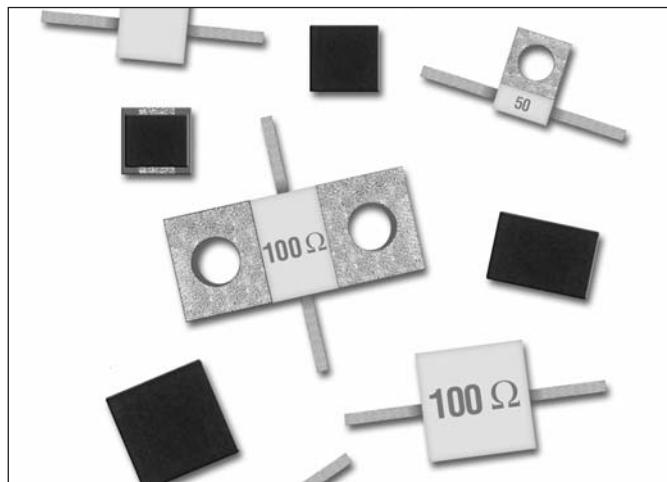
**Resistance Tolerance:**  $\pm 5\%$  standard ( $\pm 2\%$  available)

**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:**  $\pm 0.13$  (0.005)

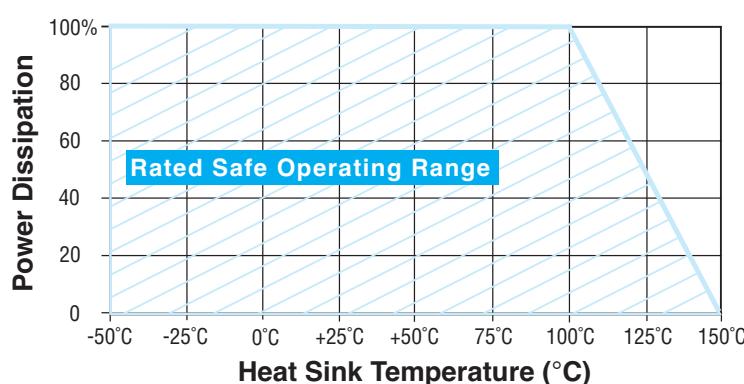
**SMT and Chip products, supplied on Tape and Reel**

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

**RoHS Compliant**



### POWER DERATING



# High Power Resistive Products



## Resistors

### CHIP RESISTORS – RP3 SERIES

#### GENERAL SPECIFICATIONS

**Resistance:** 50 and 100  $\Omega$  standard  
(contact factory for custom resistance values)

**Resistive Tolerance:**  $\pm 5\%$  standard (2% available)

**Operating Temp Range:** -55°C to +150°C

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

**Resistive Elements:** Proprietary Thin Film

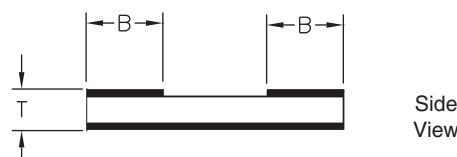
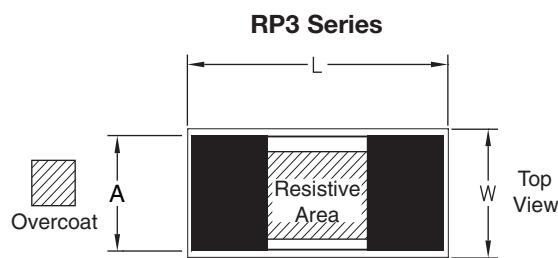
**Substrate Material:** Aluminum Nitride

**Terminals:** Silver

**RoHS Compliant**

**Non-Magnetic**

**Tape and Reel Specifications:** See Page 37



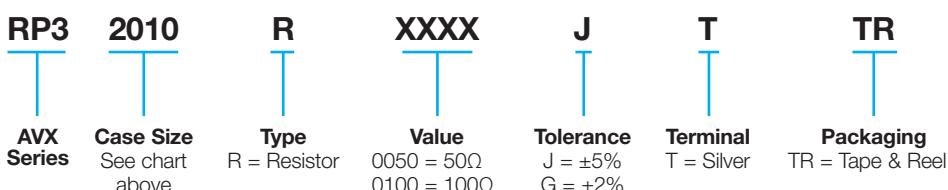
mm (inches)

AVX Part Number*	W $\pm 0.25$ (0.010)	L $\pm 0.25$ (0.010)	T $\pm 0.13$ (0.005)	A $\pm 0.13$ (0.005)	B (Typ.)	Capacitance (pF)	Power Max** (Watts)
RP31005RxxxxJTR	1.27 (0.050)	2.54 (0.100)	0.64 (0.025)	1.14 (0.045)	0.51 (0.020)	.75	5W
RP31206RxxxxJTR	1.52 (0.060)	3.05 (0.120)	0.64 (0.025)	1.40 (0.055)	0.51 (0.020)	.90	15W
RP32010RxxxxJTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	2.29 (0.090)	0.51 (0.020)	1.0	30W
RP32525RxxxxJTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	3.30 (0.130)	0.51 (0.020)	2.0	60W
RP33725RxxxxJTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	5.03 (0.198)	0.64 (0.025)	4.15	150W
RP33737RxxxxJTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	8.38 (0.330)	0.64 (0.025)	6.0	250W

\* xxxx denotes Ohm value.

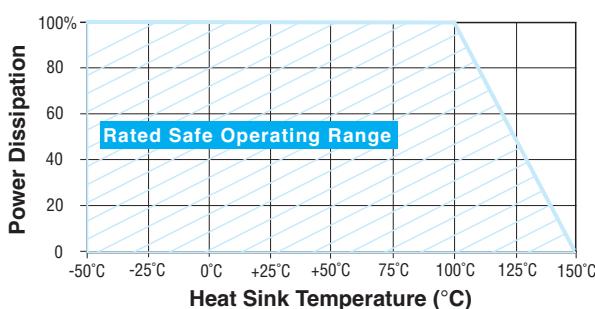
\*\* Test Condition: Chip soldered to a large copper carrier whose surface is at 100°C; maximum rated power applied.

#### HOW TO ORDER



Contact factory for custom ratings and sizes.

#### POWER DERATING



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[AVX:](#)

[RP31005R0100JTTR](#) [RP33737R0100JTTR](#)