

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 Ω standard (10 Ω - 200 Ω available)

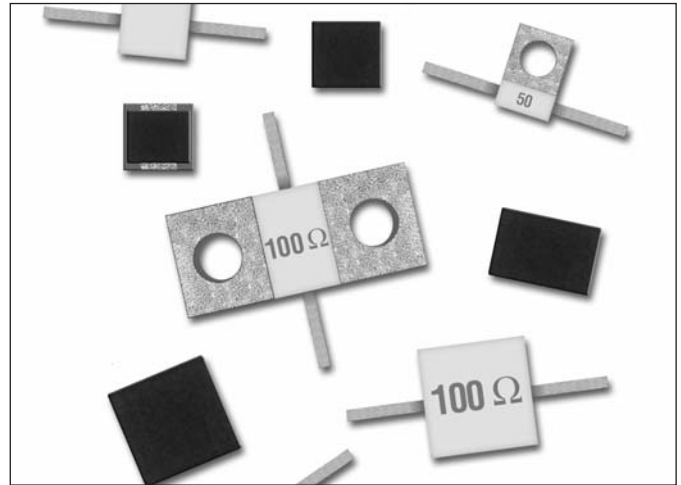
Resistance Tolerance: $\pm 5\%$ standard ($\pm 2\%$ available)

Power: 2 Watts through 250 Watts

Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$

Temperature Coefficient: $< 150 \text{ ppm}/^{\circ}\text{C}$

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)

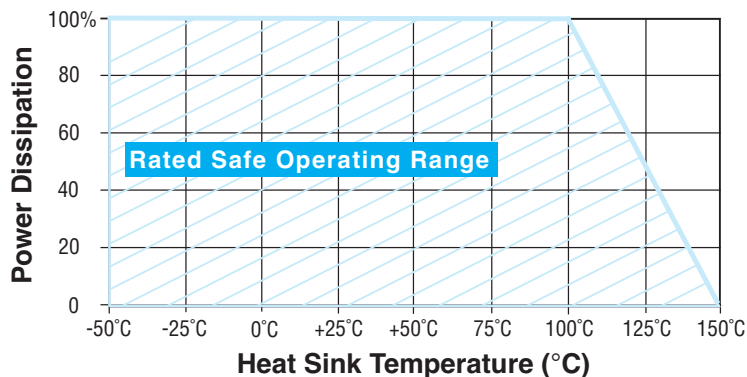
SMT and Chip products, supplied on Tape and Reel

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

RoHS Compliant



POWER DERATING



High Power Resistive Products



Resistors

CHIP RESISTORS – RP3 SERIES

GENERAL SPECIFICATIONS

Resistance: 50 and 100 Ω standard
(contact factory for custom resistance values)

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

Operating Temp Range: -55°C to $+150^{\circ}\text{C}$

Temperature Coefficient: <150 ppm/ $^{\circ}\text{C}$

Resistive Elements: Proprietary Thin Film

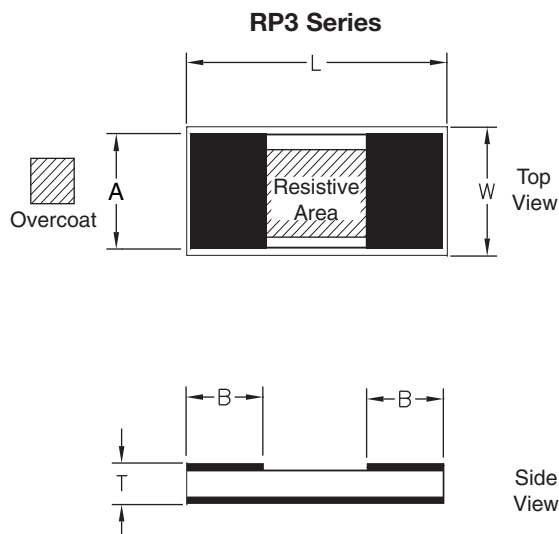
Substrate Material: Aluminum Nitride

Terminals: Silver

RoHS Compliant

Non-Magnetic

Tape and Reel Specifications: See Page 37



mm (inches)

AVX Part Number*	W ± 0.25 (0.010)	L ± 0.25 (0.010)	T ± 0.13 (0.005)	A ± 0.13 (0.005)	B (Typ.)	Capacitance (pF)	Power Max** (Watts)
RP31005RxxxxJTTR	1.27 (0.050)	2.54 (0.100)	0.64 (0.025)	1.14 (0.045)	0.51 (0.020)	.75	5W
RP31206RxxxxJTTR	1.52 (0.060)	3.05 (0.120)	0.64 (0.025)	1.40 (0.055)	0.51 (0.020)	.90	15W
RP32010RxxxxJTTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	2.29 (0.090)	0.51 (0.020)	1.0	30W
RP32525RxxxxJTTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	3.30 (0.130)	0.51 (0.020)	2.0	60W
RP33725RxxxxJTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	5.03 (0.198)	0.64 (0.025)	4.15	150W
RP33737RxxxxJTTR	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.

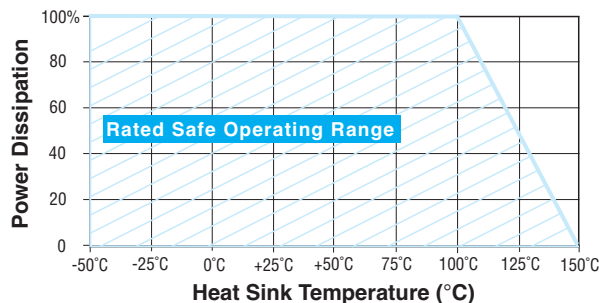
** Test Condition: Chip soldered to a large copper carrier whose surface is at 100°C ; maximum rated power applied.

HOW TO ORDER

RP3	2010	R	XXXX	J	T	TR
AVX Series	Case Size See chart above	Type R = Resistor	Value 0050 = 50 Ω 0100 = 100 Ω	Tolerance J = $\pm 5\%$ G = $\pm 2\%$	Terminal T = Silver	Packaging TR = Tape & Reel

Contact factory for custom ratings and sizes.

POWER DERATING



Mouser Electronics

Authorized Distributor

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

[Kyocera AVX:](#)

[RP31206J0000JTTR](#) [RP32335R0050JTTR](#) [RP32335R0100JTTR](#) [RP32525R0200JTTR](#) [RP33725R0068JTTR](#)
[RP33725R0150GTTR](#) [RP33725R0150JTTR](#) [RP33737R0010JTTR](#) [RP33737R0012JTTR](#)