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.

All products are tested in accordance with MIL-PRF-55342.

ELECTRICAL SPECIFICATIONS

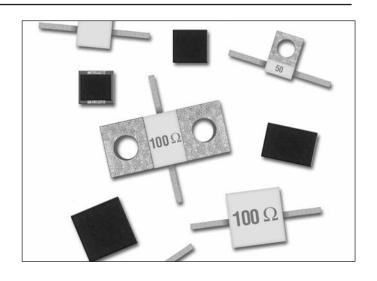
Resistance: 50 and 100 Ω standard (10 Ω - 200 Ω available) **Resistance Tolerance:** $\pm 5\%$ standard ($\pm 2\%$ available)

Power: 2 Watts through 250 Watts

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

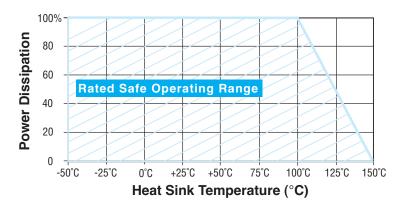
Mechanical Tolerance: ±0.13 (0.005)

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





SURFACE MOUNT CHIP RESISTORS - RP4 AND RP5 SERIES

GENERAL SPECIFICATIONS

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

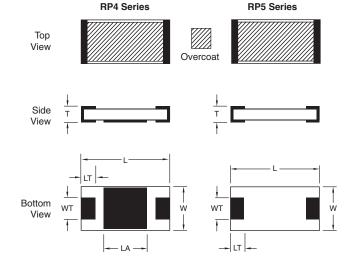
Resistive Tolerance: ±2% standard
Operating Temp Range: -55°C to +150°C
Temperature Coefficient: <150 ppm/°C
Resistive Elements: Proprietary Thin Film
Substrate Material: Aluminum Nitride

Terminals: Silver over Nickel

RoHS Compliant

Reliability: In accordance with MIL-PRF-55342

Tape and Reel Specifications: See Page 38

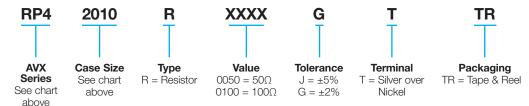


mm (inches)

AVX Part Number*	W ±0.25 (0.010)	L ±0.25 (0.010)	T ±0.13 (0.005)	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

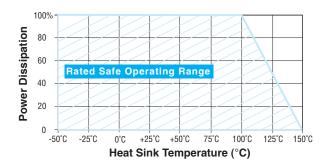
COMPLIANT

HOW TO ORDER



Contact factory for custom ratings and sizes.

POWER DERATING





^{*} xxxx denotes Ohm value.

^{**} 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. Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.