High Power Resistive Products

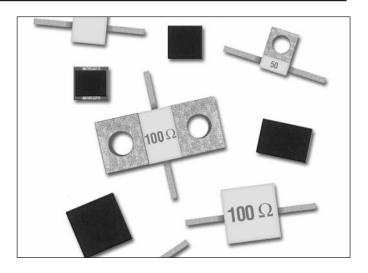
Resistors

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

All products are qualified as per MIL-PRF-55342.

ELECTRICAL SPECIFICATIONS

Resistance: 50 and 100 Ω standard (10 Ω - 200 Ω available) Resistance Tolerance: ±5% standard (±2% available) Power: 2 Watts through 250 Watts, 400 Watts, 800 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

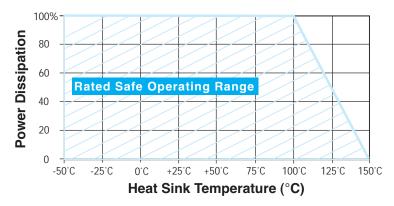
 Mechanical Tolerance: ±0.13 (0.005)

 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

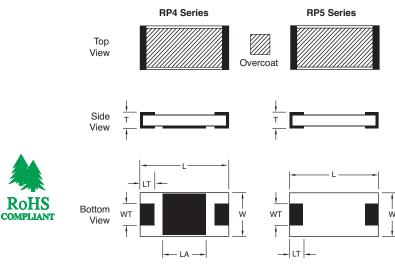


Resistors

SURFACE MOUNT CHIP RESISTORS – RP4 AND RP5 SERIES GENERAL SPECIFICATIONS RP4 Series

Resistance: 50 and 100 Ω standard
(contact factory for custom resistance values)Resistive Tolerance: ±2% standardOperating Temp Range: -55°C to +150°CTemperature Coefficient: <150 ppm/°C</th>Resistive Elements: Proprietary Thin FilmSubstrate Material: Aluminum NitrideTerminals: Silver over NickelRoHS CompliantReliability: MIL-PRF-55342

 Tape and Reel Specifications:
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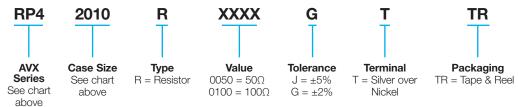
mm (inches)

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

* 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.

HOW TO ORDER



Contact factory for custom ratings and sizes.

POWER DERATING

