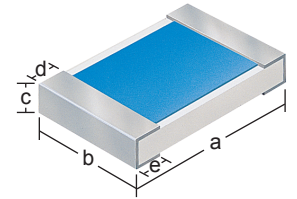




State of the Art, Inc.

Precision Thin Film Chip Resistor

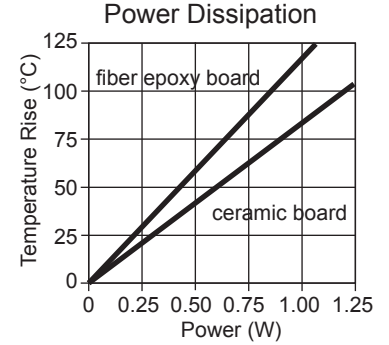
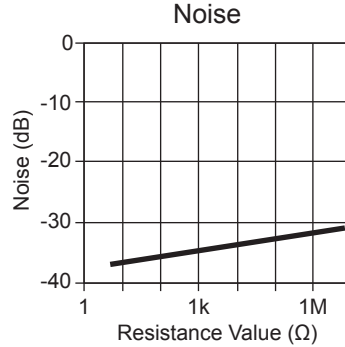
MIL-PRF-55342/12 Solderable RM0603



Performance

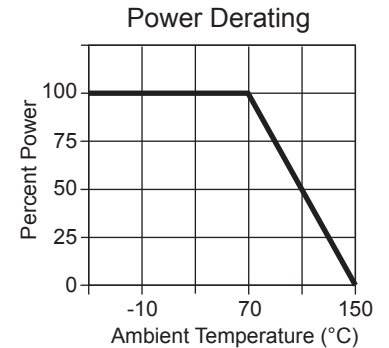
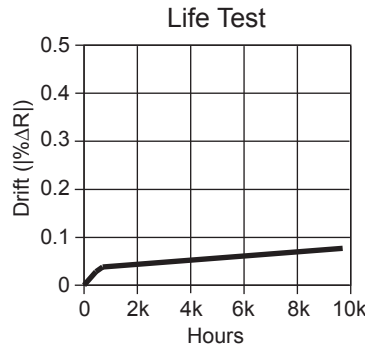
Resistance Range*	5.6Ω to 576 kΩ
Tolerances (± %)*	0.1, 0.25, 0.5, 1, 2, 5, 10
TCR (± ppm/°C)*	25, 50, 100
Power Rating	100 mW
Voltage Rating	50 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

*see QPL55342 for part number availability



Maximum Allowable Drift

Temperature Characteristic	E	H	K
TCR (ppm/°C)	±25	±50	±100
Thermal Shock	±0.1%	±0.25%	±0.5%
Power Conditioning	±0.2%	±0.25%	±0.5%
Low Temperature Operation	±0.1%	±0.25%	±0.25%
Short Time Overload	±0.1%	±0.1%	±0.25%
High Temperature Exposure	±0.1%	±0.2%	±0.5%
Moisture Resistance	±0.2%	±0.4%	±0.5%
Life (Qualification)	±0.5%	±0.5%	±0.5%
Life (FR Level)	±2.0%	±2.0%	±2.0%
Resistance to Soldering Heat	±0.2%	±0.25%	±0.25%
Resistance to Bonding Exposure	±0.2%	±0.25%	±0.25%



Part Number

M55342E12B100AS -TR

Packaging: -TR: Tape & Reel -W: Waffle Tray

Product Level (/1000 hrs.): M: 1% P: 0.1% R & U: 0.01% S & V: 0.001% T: Space 0.001%

Resistance Value and Tolerance:

Three numerals and a letter indicating decimal, value range, and tolerance

Ω: A: 0.1% R: 0.25% W: 0.5% D: 1% G: 2% J: 5% M: 10%

kΩ: B: 0.1% U: 0.25% Y: 0.5% E: 1% H: 2% K: 5% N: 10%

MΩ: C: 0.1% V: 0.25% Z: 0.5% F: 1% T: 2% L: 5% P: 10%

Termination Material: B: Solderable (SnPb solder over nickel)

Size: 12: RM0603

Temperature Characteristic (ppm/°C): E: ±25 H: ±50 K: ±100

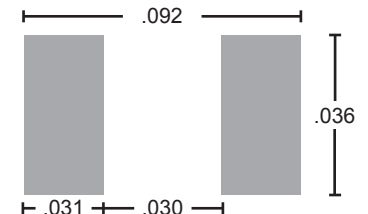
Performance Specification MIL-PRF-55342

Mechanical

	Inches	Millimeters
Length (a)	.062(.058 - .070)	1.58(1.47 - 1.78)
Width (b)	.032(.027 - .037)	0.81(0.69 - 0.94)
Thickness (c)	.018(.010 - .033)	0.46(0.25 - 0.84)
Top Termination (d)	.009(.007 - .017)	0.23(0.18 - 0.43)
Bottom Termination (e)	.014(.010 - .020)	0.36(0.25 - 0.51)

Approximate Weight 0.00235 g

Recommended Minimum Bond Pads (inches)



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Specifications Subject to Change Without Notice

All Products Made in the USA

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