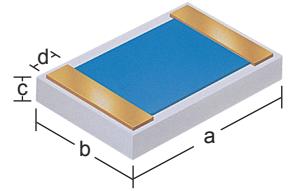




State of the Art, Inc.

Precision Thin Film Chip Resistor

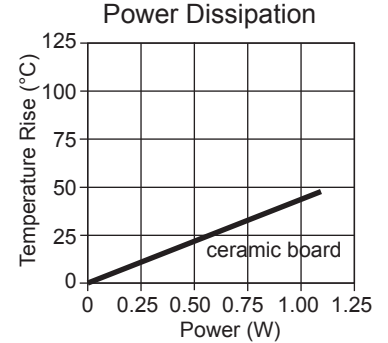
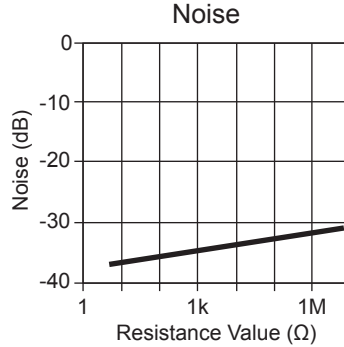
MIL-PRF-55342/10 Wire Bondable RM1010



Performance

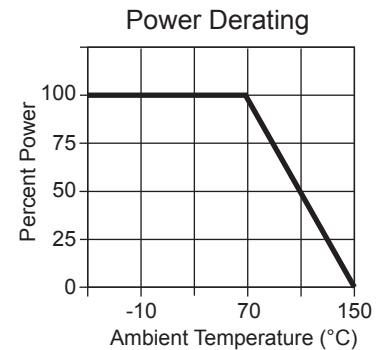
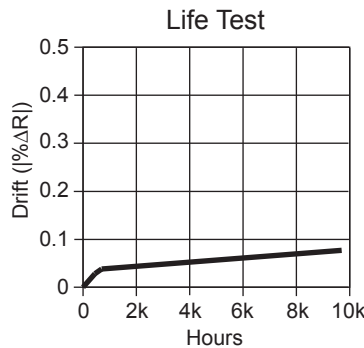
Resistance Range*	5.6Ω to 1.5 MΩ
Tolerances (± %)*	0.1, 0.25, 0.5, 1, 2, 5, 10
TCR (± ppm/°C)*	25, 50, 100
Power Rating	500 mW
Voltage Rating	75 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

*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

M55342E10W100AS -W

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: W: Wire Bondable Gold

Size: 10: RM1010

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

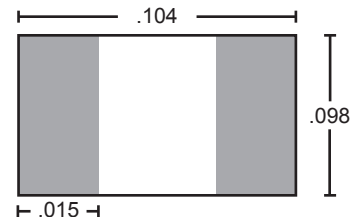
Performance Specification MIL-PRF-55342

Mechanical

	Inches	Millimeters
Length (a)	.104(.098 - .112)	2.65(2.49 - 2.84)
Width (b)	.098(.095 - .105)	2.49(2.41 - 2.67)
Thickness (c)	.018(.015 - .033)	0.46(0.38 - 0.84)
Top Termination (d)	.015(.010 - .020)	0.38(0.25 - 0.51)
Bottom Termination (e)	.014(.010 - .020)	0.36(0.25 - 0.51)

Approximate Weight 0.01050 g

Nominal Bond Pads (inches)



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