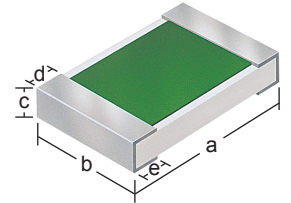




State of the Art, Inc.

Semi-Precision Thick Film Chip Resistor

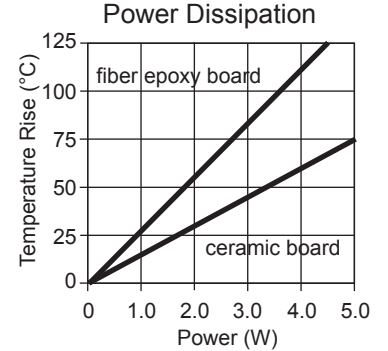
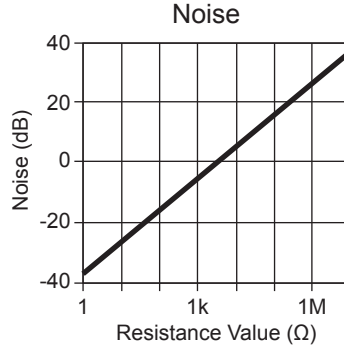
MIL-PRF-55342/08 Solderable RM2010



Performance

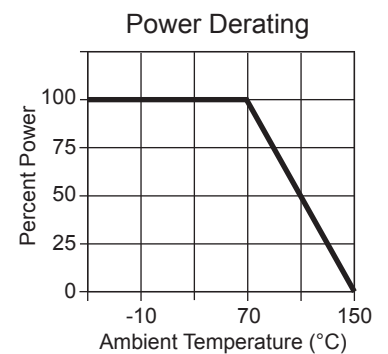
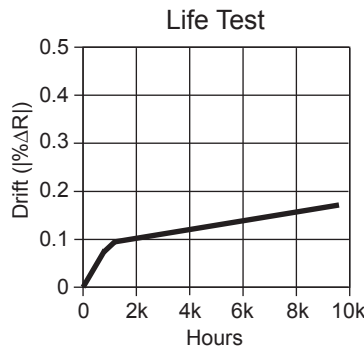
Resistance Range*	1Ω to 22 MΩ
Tolerances (± %)*	1, 2, 5, 10
TCR (± ppm/°C)*	100, 200, 300
Power Rating	800 mW
Voltage Rating	150 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

*see QPL55342 for part number availability



Maximum Allowable Drift

Temperature Characteristic	K	L	M
TCR (ppm/°C)	±100	±200	±300
Thermal Shock	±0.5%	±0.5%	±0.5%
Power Conditioning	±0.5%	±0.5%	±0.5%
Low Temperature Operation	±0.25%	±0.25%	±0.5%
Short Time Overload	±0.25%	±0.25%	±0.5%
High Temperature Exposure	±0.5%	±0.5%	±1.0%
Moisture Resistance	±0.5%	±0.5%	±0.5%
Life (Qualification)	±0.5%	±0.5%	±2.0%
Life (FR Level)	±2.0%	±2.0%	±2.0%
Resistance to Soldering Heat	±0.25%	±0.25%	±0.25%
Resistance to Bonding Exposure	±0.25%	±0.25%	±0.25%



Part Number

M55342K08B100DS -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: D: 1% G: 2% J: 5% M: 10%

kΩ: E: 1% H: 2% K: 5% N: 10%

MΩ: F: 1% T: 2% L: 5% P: 10%

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

Size: 08: RM2010

Temperature Characteristic (ppm/°C): K: ±100 L: ±200 M: ±300

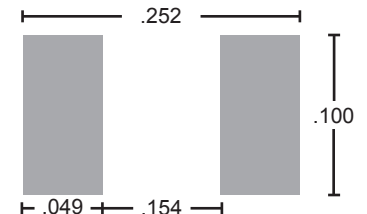
Performance Specification MIL-PRF-55342

Mechanical

	Inches	Millimeters
Length (a)	.205(.191 - .218)	5.21(4.85 - 5.54)
Width (b)	.096(.093 - .103)	2.44(2.36 - 2.62)
Thickness (c)	.028(.015 - .033)	0.71(0.25 - 0.84)
Top Termination (d)	.021(.015 - .025)	0.53(0.38 - 0.64)
Bottom Termination (e)	.021(.015 - .025)	0.53(0.38 - 0.64)

Approximate Weight 0.03180 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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