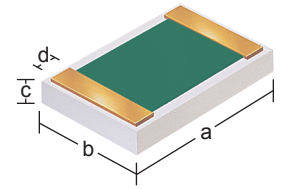




State of the Art, Inc.

Semi-Precision Thick Film Chip Resistor

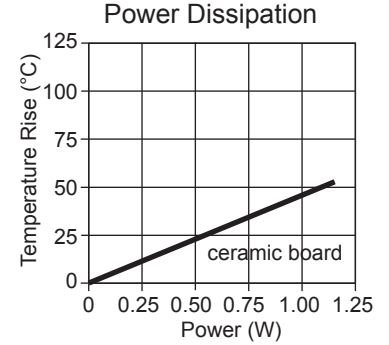
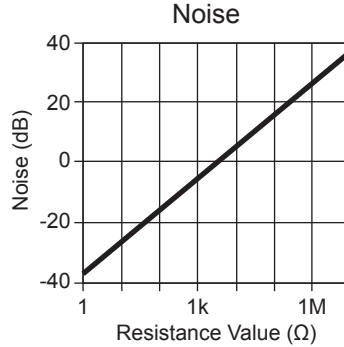
MIL-PRF-55342/02 Wire Bondable RM0505



Performance

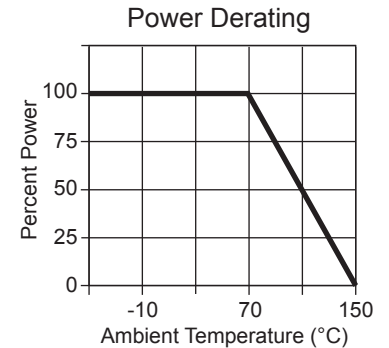
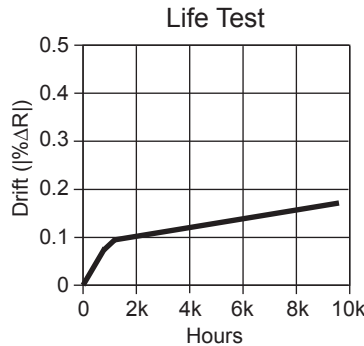
Resistance Range*	1Ω to 22 MΩ
Tolerances (± %)*	1, 2, 5, 10
TCR (± ppm/°C)*	100, 200, 300
Power Rating	125 mW
Voltage Rating	40 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

*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

M55342K02W100DS -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: 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: W: Wire Bondable Gold

Size: 02: RM0505

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

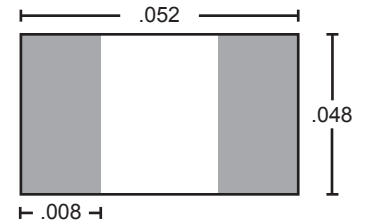
Performance Specification MIL-PRF-55342

Mechanical

	Inches	Millimeters
Length (a)	.052(.050 - .058)	1.32(1.27 - 1.47)
Width (b)	.048(.046 - .054)	1.22(1.17 - 1.37)
Thickness (c)	.018(.013 - .023)	0.46(0.33 - 0.58)
Top Termination (d)	.008(.005 - .011)	0.20(0.13 - 0.28)

Approximate Weight 0.00250 g

Nominal Bond Pads (inches)



State of the Art, Inc. 2470 Fox Hill Road, State College, PA, USA 16803-1797

www.resistor.com Telephone: 814-355-8004 Toll Free: 800-458-3401 Fax: 814-355-2714

Specifications Subject to Change Without Notice

All Products Made in the USA

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