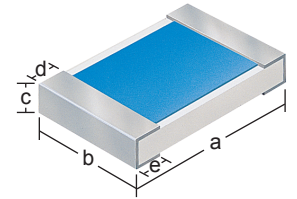




State of the Art, Inc.

Precision Thin Film Chip Resistor

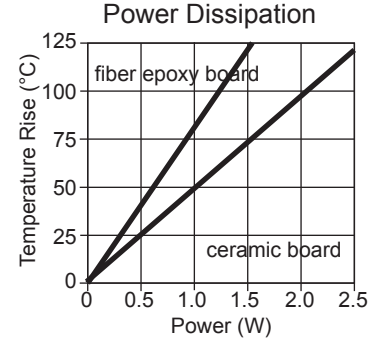
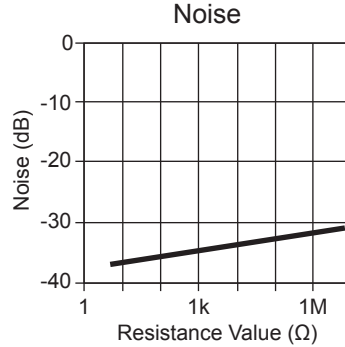
MIL-PRF-55342/02 Solderable RM0505



Performance

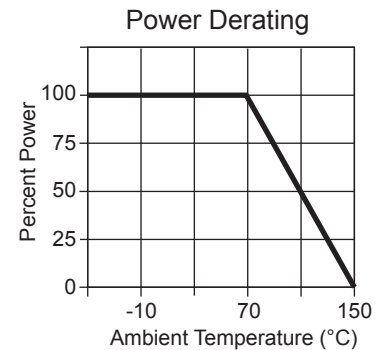
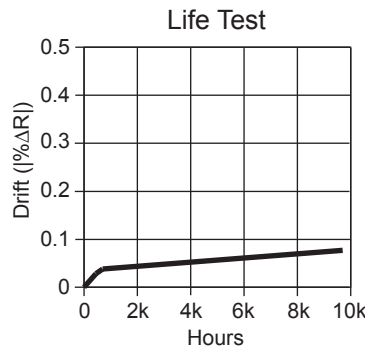
Resistance Range*	5.6Ω to 470 kΩ
Tolerances (± %)*	0.1, 0.25, 0.5, 1, 2, 5, 10
TCR (± ppm/°C)*	25, 50, 100
Power Rating	125 mW
Voltage Rating	40 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

*see QPL55342 for part number availability



Maximum Allowable Drift

Temperature Characteristic	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

M55342E02B100AS -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: 02: RM0505

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

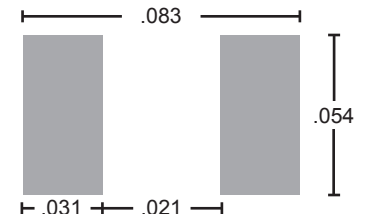
Performance Specification MIL-PRF-55342

Mechanical

	Inches	Millimeters
Length (a)	.053(.049 - .061)	1.32(1.24 - 1.55)
Width (b)	.048(.045 - .055)	1.22(1.14 - 1.40)
Thickness (c)	.018(.012 - .033)	0.46(0.30 - 0.84)
Top Termination (d)	.008(.005 - .015)	0.20(0.13 - 0.38)
Bottom Termination (e)	.014(.010 - .020)	0.36(0.25 - 0.51)

Approximate Weight 0.00315 g

Recommended Minimum 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

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