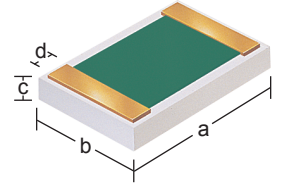




# State of the Art, Inc.

## Semi-Precision Thick Film Chip Resistor

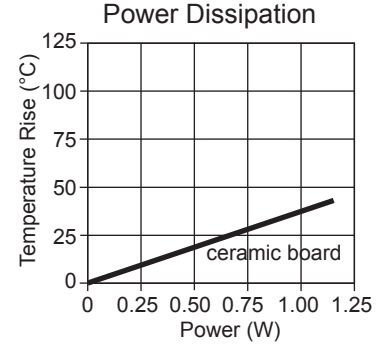
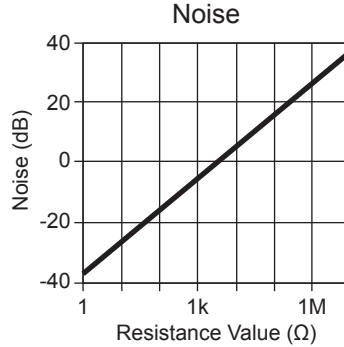
### MIL-PRF-55342/10 Wire Bondable RM1010



#### Performance

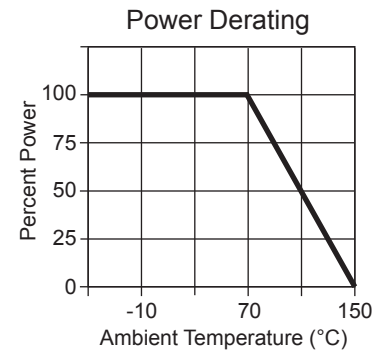
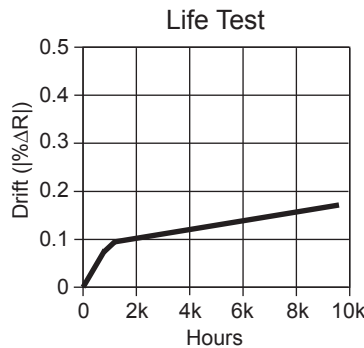
Resistance Range*	1Ω to 22 MΩ
Tolerances (± %)*	1, 2, 5, 10
TCR (± ppm/°C)*	100, 200, 300
Power Rating	500 mW
Voltage Rating	75 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

\*see QPL55342 for part number availability



#### Maximum Allowable Drift

Temperature Characteristic	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

M55342K10W100DS -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: 10: RM1010

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

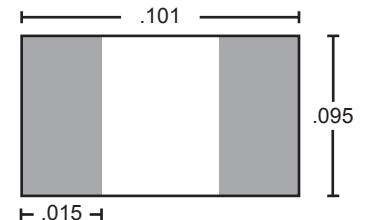
Performance Specification MIL-PRF-55342

#### Mechanical

	Inches	Millimeters
Length (a)	.101(.099 - .107)	2.57(2.51 - 2.72)
Width (b)	.095(.093 - .101)	2.41(2.36 - 2.57)
Thickness (c)	.018(.013 - .023)	0.46(0.33 - 0.58)
Top Termination (d)	.015(.012 - .018)	0.38(0.30 - 0.46)

Approximate Weight 0.00920 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

Copyright 2015 by State of the Art, Inc.