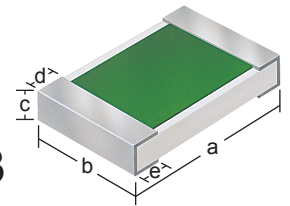




# State of the Art, Inc.

## Semi-Precision Thick Film Chip Resistor

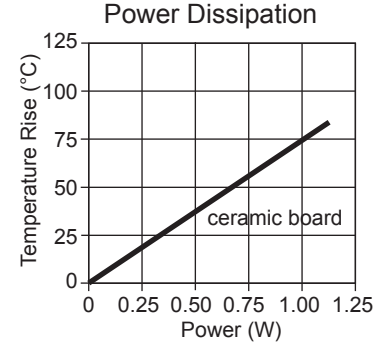
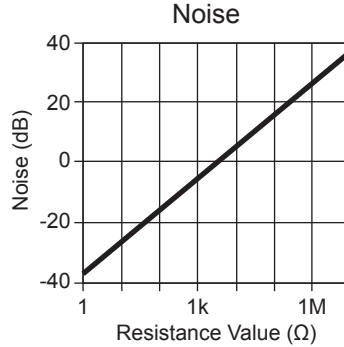
### MIL-PRF-55342/12 Epoxy Bondable RM0603



### Performance

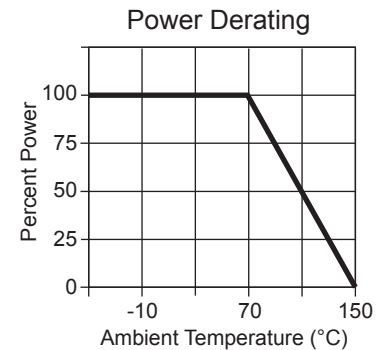
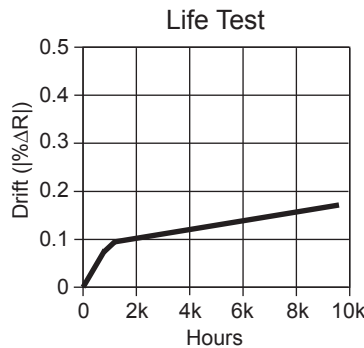
Resistance Range*	1Ω to 22 MΩ
Tolerances (± %)*	1, 2, 5, 10
TCR (± ppm/°C)*	100, 200, 300
Power Rating	100 mW
Voltage Rating	50 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

\*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

M55342K12C100DS -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: Ω: D: 1% G: 2% J: 5% M: 10%  
 Three numerals and a letter indicating decimal, value range, and tolerance kΩ: E: 1% H: 2% K: 5% N: 10%  
 MΩ: F: 1% T: 2% L: 5% P: 10%

Termination Material: C: Epoxy Bondable Silver U: Epoxy Bondable Platinum Gold G: Epoxy Bondable Gold

Size: 12: RM0603

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

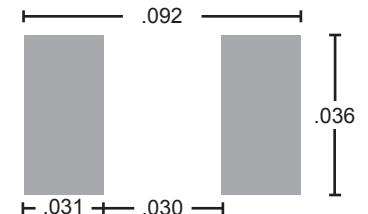
Performance Specification MIL-PRF-55342

### Mechanical

	Inches	Millimeters
Length (a)	.062(.058 - .070)	1.57(1.47 - 1.78)
Width (b)	.032(.027 - .037)	0.81(0.69 - 0.94)
Thickness (c)	.018(.010 - .033)	0.46(0.25 - 0.84)
Top Termination (d)	.010(.007 - .017)	0.25(0.18 - 0.43)
Bottom Termination (e)	.014(.010 - .020)	0.36(0.25 - 0.51)

Approximate Weight 0.00235 g

Recommended Minimum Bond Pads (inches)



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

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Specifications Subject to Change Without Notice

All Products Made in the USA

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