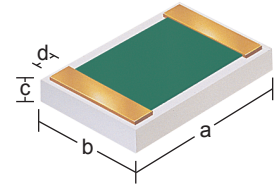


# State of the Art, Inc.

## Semi-Precision Thick Film Chip Resistor

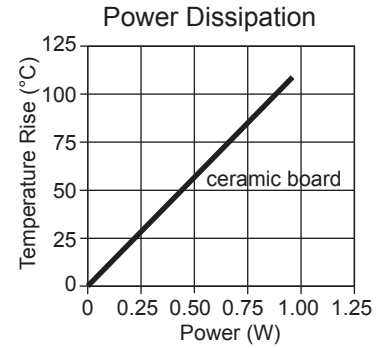
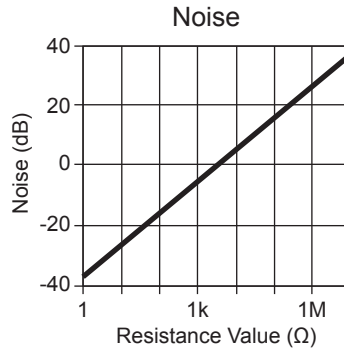
### MIL-PRF-55342/13 Wire Bondable RM0302



#### Performance

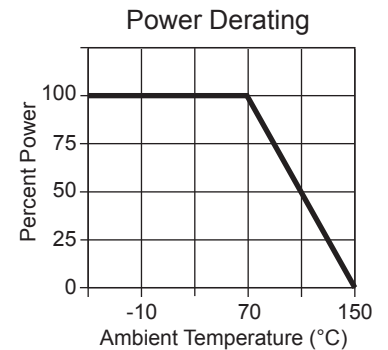
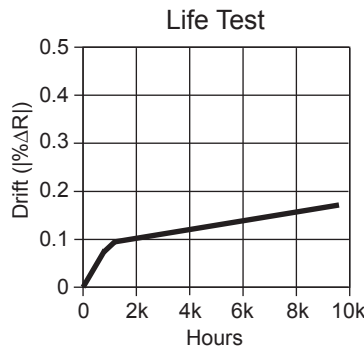
Resistance Range*	1Ω to 22 MΩ
Tolerances (± %)*	1, 2, 5, 10
TCR (± ppm/°C)*	100, 200, 300
Power Rating	40 mW
Voltage Rating	15 V
Operating Range	-65 to 150°C
Product Levels	M, P, R, S, U, V, T

\*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

**M55342K13W100DS -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: W: Wire Bondable Gold

Size: 13: RM0302

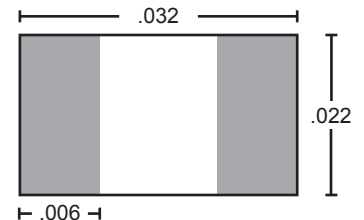
Temperature Characteristic (ppm/°C): K: ±100 L: ±200 M: ±300

Performance Specification MIL-PRF-55342

#### Mechanical

	Inches	Millimeters
Length (a)	.032(.030 - .034)	0.81(0.76 - 0.86)
Width (b)	.022(.020 - .024)	0.56(0.51 - 0.61)
Thickness (c)	.015(.010 - .020)	0.38(0.25 - 0.51)
Top Termination (d)	.006(.004 - .008)	0.15(0.10 - 0.20)

Nominal Bond Pads (inches)



Approximate Weight 0.00055 g

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