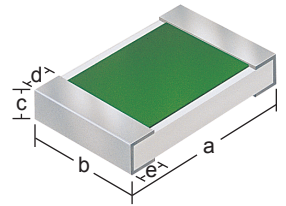




# State of the Art, Inc.

## Semi-Precision Thick Film Chip Resistor

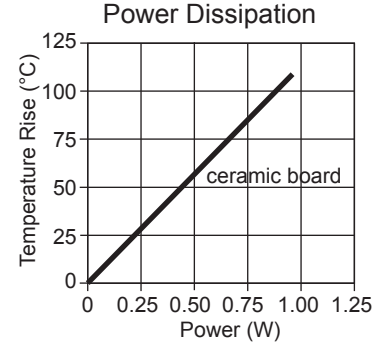
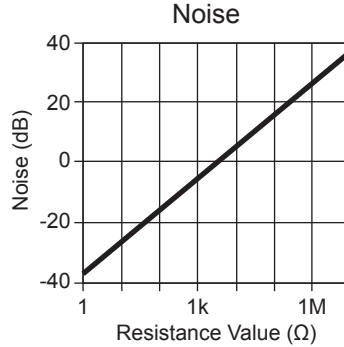
### MIL-PRF-55342/13 Epoxy Bondable RM0302



#### Performance

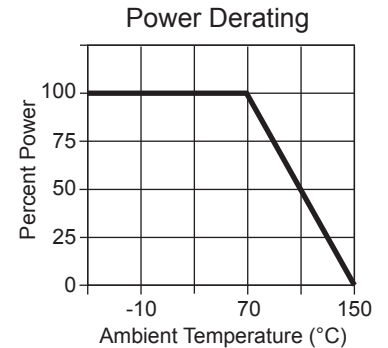
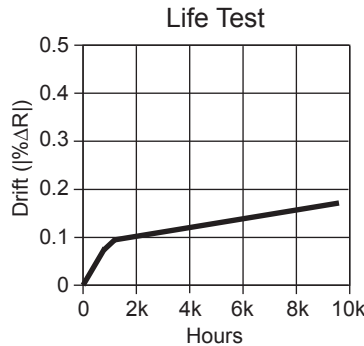
|                   |                     |
|-------------------|---------------------|
| Resistance Range* | 1Ω to 22 MΩ         |
| Tolerances (± %)* | 1, 2, 5, 10         |
| TCR (± ppm/°C)*   | 100, 200, 300       |
| Power Rating      | 40 mW               |
| Voltage Rating    | 15 V                |
| 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

M55342K13C100DS -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: 13: RM0302

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

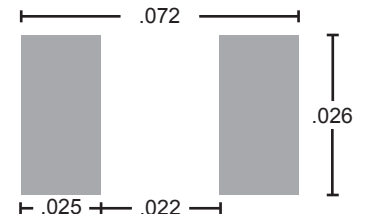
Performance Specification MIL-PRF-55342

#### Mechanical

|                        | Inches            | Millimeters       |
|------------------------|-------------------|-------------------|
| Length (a)             | .042(.034 - .050) | 1.07(0.86 - 1.27) |
| Width (b)              | .022(.017 - .027) | 0.56(0.43 - 0.69) |
| Thickness (c)          | .018(.010 - .033) | 0.46(0.25 - 0.84) |
| Top Termination (d)    | .007(.005 - .015) | 0.17(0.13 - 0.38) |
| Bottom Termination (e) | .008(.005 - .015) | 0.20(0.13 - 0.38) |

Approximate Weight 0.00108 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

Specifications Subject to Change Without Notice All Products Made in the USA Copyright 2015 by State of the Art, Inc.