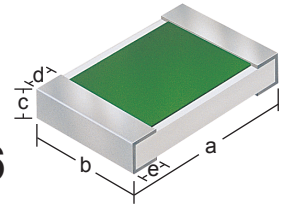




# State of the Art, Inc.

## Semi-Precision Thick Film Chip Resistor

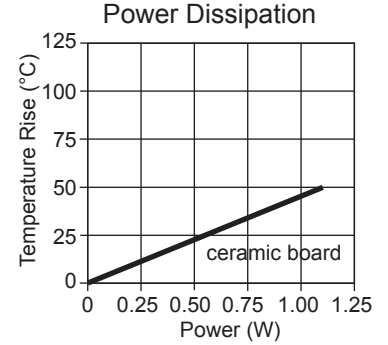
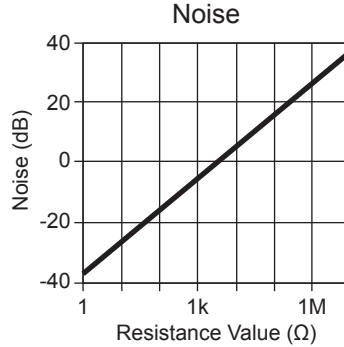
### MIL-PRF-55342/07 Epoxy Bondable RM1206



#### Performance

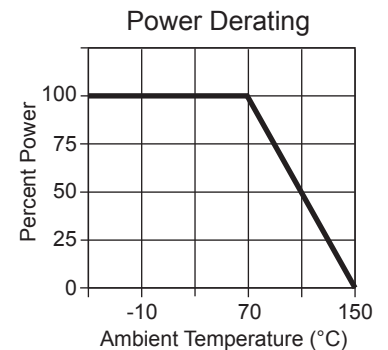
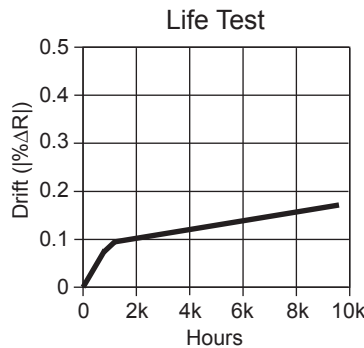
|                   |                     |
|-------------------|---------------------|
| Resistance Range* | 1Ω to 22 MΩ         |
| Tolerances (± %)* | 1, 2, 5, 10         |
| TCR (± ppm/°C)*   | 100, 200, 300       |
| Power Rating      | 250 mW              |
| Voltage Rating    | 100 V               |
| 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

D55342K07C100DS -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: 07: RM1206

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

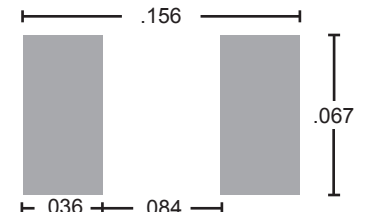
Performance Specification MIL-PRF-55342

#### Mechanical

|                        | Inches            | Millimeters       |
|------------------------|-------------------|-------------------|
| Length (a)             | .126(.118 - .134) | 3.20(3.00 - 3.40) |
| Width (b)              | .061(.058 - .068) | 1.55(1.47 - 1.73) |
| Thickness (c)          | .023(.015 - .033) | 0.58(0.38 - 0.84) |
| Top Termination (d)    | .016(.010 - .025) | 0.41(0.25 - 0.64) |
| Bottom Termination (e) | .018(.015 - .025) | 0.46(0.25 - 0.64) |

Approximate Weight 0.00840 g

Recommended Minimum Bond Pads (inches)



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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

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