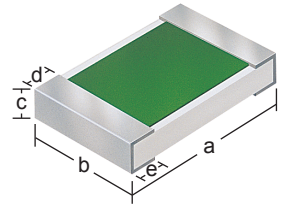




State of the Art, Inc.

Semi-Precision Thick Film Chip Resistor

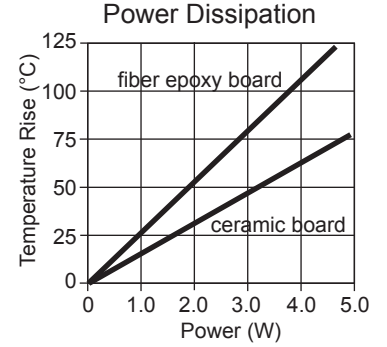
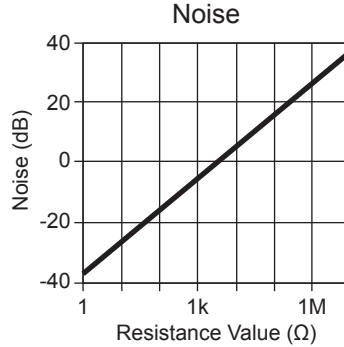
MIL-PRF-55342/09 Solderable RM2512



Performance

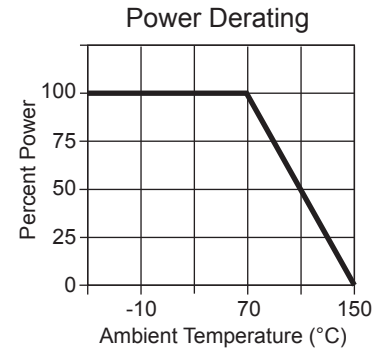
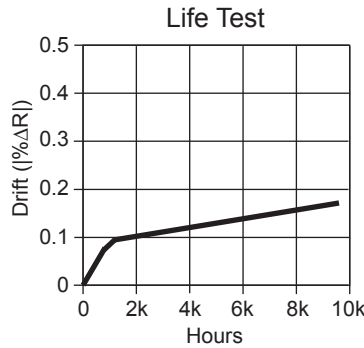
| | |
|-------------------|---------------------|
| Resistance Range* | 1Ω to 22 MΩ |
| Tolerances (± %)* | 1, 2, 5, 10 |
| TCR (± ppm/°C)* | 100, 200, 300 |
| Power Rating | 1000 mW |
| Voltage Rating | 200 V |
| Operating Range | -65 to 150°C |
| Product Levels | M, P, R, S, U, V, T |

*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

M55342K09B100DS -TR

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: B: Solderable (SnPb solder over nickel)

Size: 09: RM2512

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

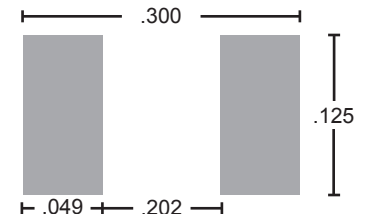
Performance Specification MIL-PRF-55342

Mechanical

| | Inches | Millimeters |
|------------------------|-------------------|-------------------|
| Length (a) | .250(.244 - .268) | 6.35(6.20 - 6.81) |
| Width (b) | .119(.119 - .129) | 3.02(3.02 - 3.28) |
| Thickness (c) | .028(.015 - .033) | 0.71(0.38 - 0.84) |
| Top Termination (d) | .020(.015 - .025) | 0.51(0.38 - 0.64) |
| Bottom Termination (e) | .020(.015 - .025) | 0.51(0.38 - 0.64) |

Approximate Weight 0.05130 g

Recommended Minimum Bond Pads B Termination Material (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

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