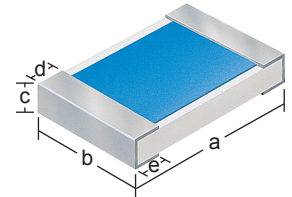


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Precision Thin Film Chip Resistor

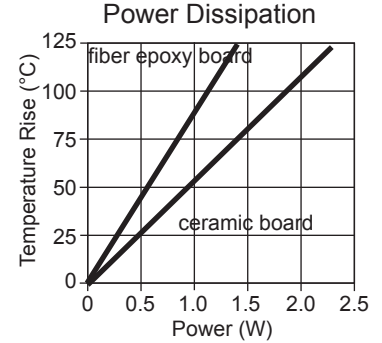
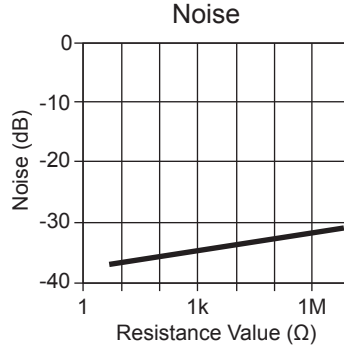
MIL-PRF-55342/03 Solderable RM1005



Performance

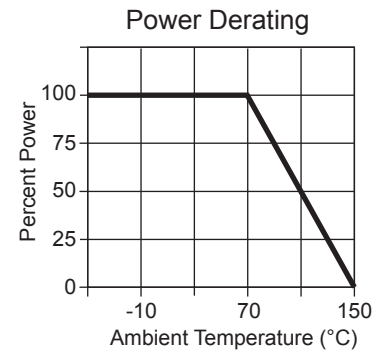
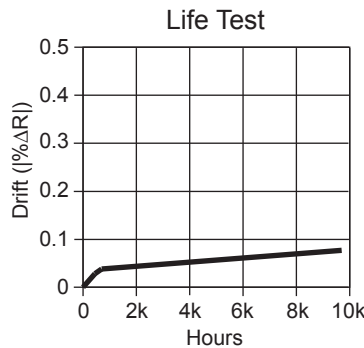
| | |
|-------------------|-----------------------------|
| Resistance Range* | 5.6Ω to 1.5 MΩ |
| Tolerances (± %)* | 0.1, 0.25, 0.5, 1, 2, 5, 10 |
| TCR (± ppm/°C)* | 25, 50, 100 |
| Power Rating | 200 mW |
| Voltage Rating | 75 V |
| Operating Range | -65 to 150°C |
| Product Levels | M, P, R, S, U, V, T |

*see QPL55342 for part number availability



Maximum Allowable Drift

| Temperature Characteristic | E | H | K |
|--------------------------------|-------|--------|--------|
| TCR (ppm/°C) | ±25 | ±50 | ±100 |
| Thermal Shock | ±0.1% | ±0.25% | ±0.5% |
| Power Conditioning | ±0.2% | ±0.25% | ±0.5% |
| Low Temperature Operation | ±0.1% | ±0.25% | ±0.25% |
| Short Time Overload | ±0.1% | ±0.1% | ±0.25% |
| High Temperature Exposure | ±0.1% | ±0.2% | ±0.5% |
| Moisture Resistance | ±0.2% | ±0.4% | ±0.5% |
| Life (Qualification) | ±0.5% | ±0.5% | ±0.5% |
| Life (FR Level) | ±2.0% | ±2.0% | ±2.0% |
| Resistance to Soldering Heat | ±0.2% | ±0.25% | ±0.25% |
| Resistance to Bonding Exposure | ±0.2% | ±0.25% | ±0.25% |



Part Number

M55342E03B100AS -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:

Three numerals and a letter indicating decimal, value range, and tolerance

Ω: A: 0.1% R: 0.25% W: 0.5% D: 1% G: 2% J: 5% M: 10%
 kΩ: B: 0.1% U: 0.25% Y: 0.5% E: 1% H: 2% K: 5% N: 10%
 MΩ: C: 0.1% V: 0.25% Z: 0.5% F: 1% T: 2% L: 5% P: 10%

Termination Material: B: Solderable (SnPb solder over nickel)

Size: 03: RM1005

Temperature Characteristic (ppm/°C): E: ±25 H: ±50 K: ±100

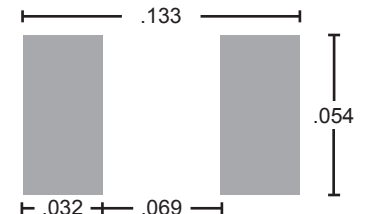
Performance Specification MIL-PRF-55342

Mechanical

| | Inches | Millimeters |
|------------------------|-------------------|-------------------|
| Length (a) | .103(.098 - .112) | 2.62(2.49 - 2.84) |
| Width (b) | .048(.045 - .055) | 1.22(1.14 - 1.40) |
| Thickness (c) | .018(.015 - .033) | 0.46(0.38 - 0.84) |
| Top Termination (d) | .015(.010 - .020) | 0.38(0.25 - 0.51) |
| Bottom Termination (e) | .014(.010 - .020) | 0.36(0.25 - 0.51) |

Approximate Weight 0.00540 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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