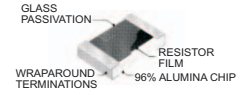


State of the Art, Inc.

Thick Film Chip Resistor

M55342/01 RM0502



PERFORMANCE

Resistance Range **1Ω - 22MΩ**
 Tolerances **1%, 2%, 5%, 10%**
 Maximum Power **50 mW**
 Maximum Voltage **40 Volts**

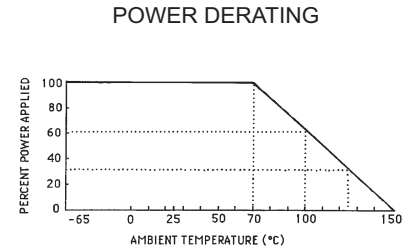
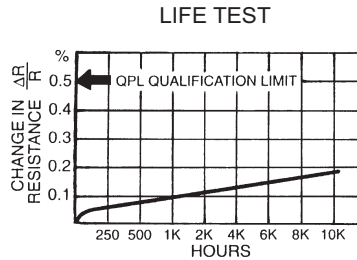
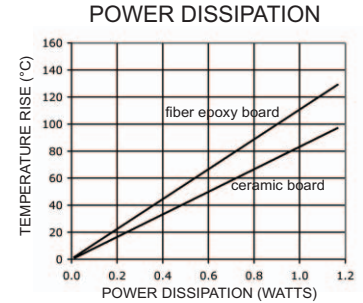
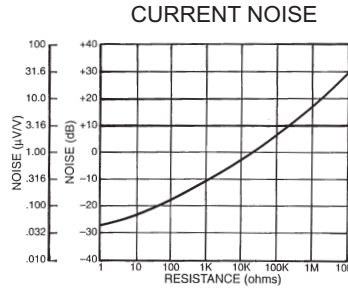
TESTS

TCR (-55 to +125 °C) in ppm/°C
 Thermal Shock
 Low Temperature Operation
 Short-time Overload
 Resistance to Soldering Heat
 Moisture Resistance
 Life, 2,000 Hours
 High Temperature Exposure

CHARACTERISTICS*

| | K | M |
|--------------------------------|----------|----------|
| TCR (-55 to +125 °C) in ppm/°C | ±100 | ±300 |
| Thermal Shock | ±0.5% | ±0.5% |
| Low Temperature Operation | ±0.25% | ±0.5% |
| Short-time Overload | ±0.25% | ±0.5% |
| Resistance to Soldering Heat | ±0.25% | ±0.25% |
| Moisture Resistance | ±0.5% | ±0.5% |
| Life, 2,000 Hours | ±0.5% | ±2.0% |
| High Temperature Exposure | ±0.5% | ±1.0% |

*Maximum allowable change per MIL-PRF-55342, typical change is 10% of these values.



PART NUMBERING

M55342 K 01 B 100D S - TR

PACKAGING CODE: TR = Tape & Reel W= Waffle Pack

PRODUCT LEVEL DESIGNATOR: M: 1% per 1000 hrs. R: 0.01% P: 0.1% S: 0.001% T: Space Level C: Non - ER

RESISTANCE AND TOLERANCE CODE:

Three significant digits, with a letter indicating the decimal location, the tolerance, and the value range.

D: 1% Ω G: 2% Ω J: 5% Ω M: 10% Ω
 E: 1% K Ω H: 2% K Ω K: 5% K Ω N: 10% K Ω
 F: 1% M Ω T: 2% M Ω L: 5% M Ω P: 10% M Ω

TERMINATION MATERIALS:

B: Solderable wraparound C: Epoxy bondable palladium/silver wraparound U: Epoxy bondable platinum/gold wraparound
 W: Gold wire bondable G: Gold wraparound

SIZE CODE: /01 = RM0502

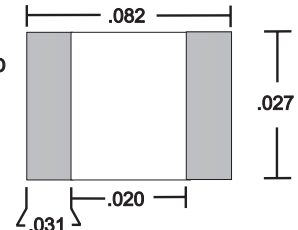
TEMPERATURE CHARACTERISTIC: K: ± 100ppm M: ± 300ppm

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

| | INCHES | MILLIMETERS |
|----------------|--------------------|--------------------|
| Length | .052 (.049 - .061) | 1.32 (1.24 - 1.55) |
| Width | .025 (.020 - .030) | 0.64 (0.51 - 0.76) |
| Thickness | .018 (.010 - .033) | 0.46 (0.25 - 0.84) |
| Top Term | .009 (.005 - .015) | 0.23 (0.13 - 0.38) |
| Bottom Term | .014 (.010 - .020) | 0.36 (0.25 - 0.51) |
| Gap | .024 (.020 - .028) | 0.61 (0.51 - 0.71) |
| Approx. Weight | .00155 grams | |

MINIMUM RECOMMENDED MOUNTING PADS (INCHES)



State of the Art, Inc. 2470 Fox Hill Road, State College, PA 16803-1797
 Phone (814) 355-8004 Fax (814) 355-2714 Toll Free 1-800-458-3401

04/09/08

Specifications subject to change without notice.

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[KHC201E225M76N0T00](#) [LRC-LRF1206LF-01R025FTR1K](#) [1812J1K00222JCT](#) [1812J2K00102KXT](#) [1812J2K00222KXT](#)
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[CGA2B2C0G1H040C](#) [CGA2B2C0G1H050C](#) [CGA2B2C0G1H060D](#) [CGA2B2C0G1H070D](#) [CGA2B2C0G1H151J](#) [CGA2B2C0G1H1R5C](#)
[CGA2B2C0G1H2R2C](#) [CGA2B2C0G1H3R3C](#) [CGA2B2C0G1H680J](#) [CGA2B2C0G1H6R8D](#) [CGA2B2X8R1H221K](#) [CGA2B2X8R1H472K](#)
[CGA3E1X7R1C474K](#)