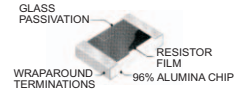


State of the Art, Inc.

Thick Film Chip Resistor

M55342/06 RM0705



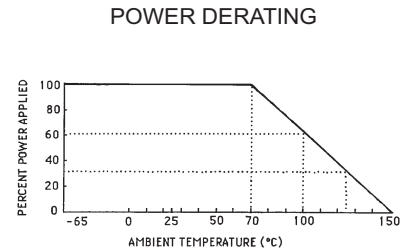
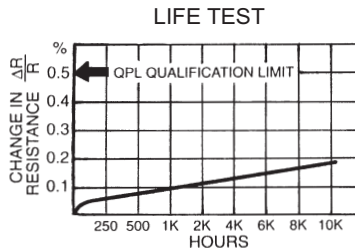
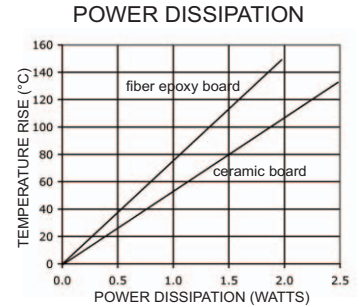
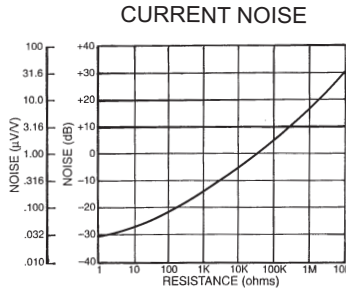
PERFORMANCE

Resistance Range **1Ω - 22MΩ**
 Tolerances **1%, 2%, 5%, 10%**
 Maximum Power **150 mW**
 Maximum Voltage **50 Volts**

TESTS

| | 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% |

CHARACTERISTICS*



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

PART NUMBERING

M55342 K 06 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

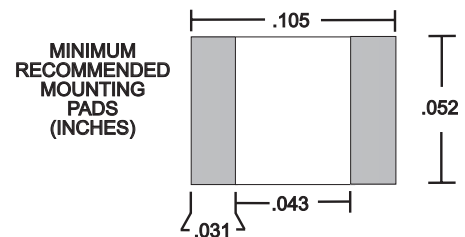
SIZE CODE: /06 = RM0705

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

| | INCHES | MILLIMETERS |
|----------------|--------------------|--------------------|
| Length | .075 (.074 - .086) | 1.91 (1.88 - 2.18) |
| Width | .048 (.045 - .055) | 1.22 (1.14 - 1.40) |
| Thickness | .018 (.015 - .033) | 0.46 (0.38 - 0.84) |
| Top Term | .012 (.008 - .024) | 0.31 (0.20 - 0.61) |
| Bottom Term | .014 (.010 - .020) | 0.36 (0.25 - 0.51) |
| Gap | .047 (.043 - .051) | 1.19 (1.09 - 1.30) |
| Approx. Weight | .00405 grams | |



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04/09/08

Specifications subject to change without notice.