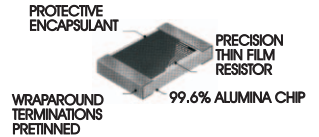




State of the Art, Inc.

Thin Film Chip Resistor

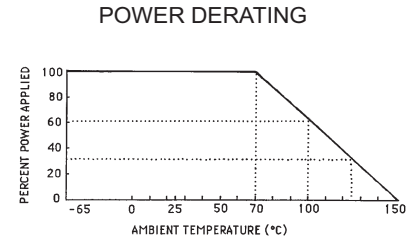
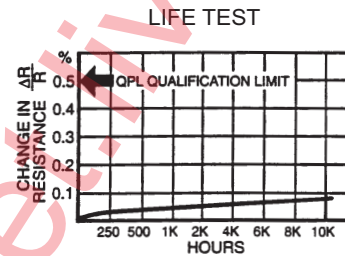
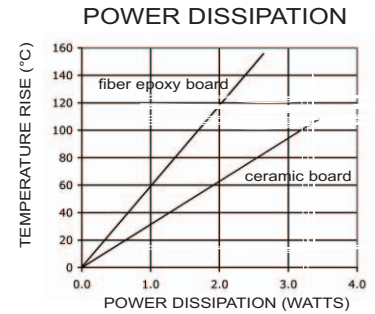
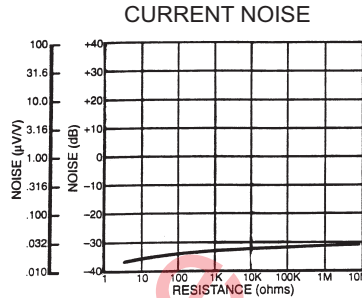
M55342/05 RM2208



PERFORMANCE

Resistance Range **100Ω - 1MΩ**
 Tolerances **0.1%, 1%, 2%, 5%**
 Maximum Power **225 mW**
 Maximum Voltage **175 Volts**

| TESTS | CHARACTERISTICS* | |
|--------------------------------|------------------|--------|
| | E | H |
| TCR (-55 to +125 °C) in ppm/°C | ±25 | ±50 |
| Thermal Shock | ±0.1% | ±0.25% |
| Low Temperature Operation | ±0.1% | ±0.25% |
| Short-time Overload | ±0.1% | ±0.1% |
| Resistance to Soldering Heat | ±0.2% | ±0.25% |
| Moisture Resistance | ±0.2% | ±0.4% |
| Life, 2,000 Hours | ±0.5% | ±0.5% |
| High Temperature Exposure | ±0.1% | ±0.2% |



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

PART NUMBERING

M55342 H 05 B 100D R - TR

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

PRODUCT LEVEL DESIGNATOR: M: 1% per 1000 hrs. R: 0.01% P: 0.1% 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.

| | | |
|-------------|-----------|-----------|
| A: 0.1% Ω | D: 1% Ω | J: 5% Ω |
| B: 0.1% K Ω | E: 1% K Ω | H: 2% K Ω |
| C: 0.1% M Ω | F: 1% M Ω | T: 2% M Ω |
| | | L: 5% M Ω |

TERMINATION MATERIALS: B: Solderable wraparound W: Gold wire bondable

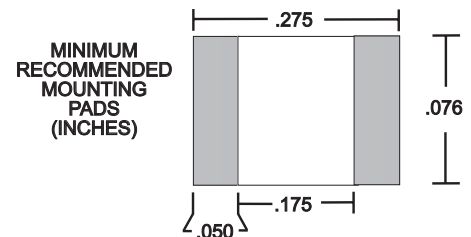
SIZE CODE: /05 = RM2208

TEMPERATURE CHARACTERISTIC: E: ± 25ppm H: ± 50ppm

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

| | INCHES | MILLIMETERS |
|----------------|--------------------|--------------------|
| Length | .225 (.223 - .237) | 5.72 (5.66 - 6.02) |
| Width | .070 (.070 - .080) | 1.78 (1.78 - 2.03) |
| Thickness | .028 (.015 - .033) | 0.71 (0.38 - 0.84) |
| Top Term | .020 (.015 - .025) | 0.51 (0.38 - 0.64) |
| Bottom Term | .020 (.015 - .025) | 0.51 (0.38 - 0.64) |
| Gap | .185 (.181 - .189) | 4.70 (4.60 - 4.80) |
| Approx. Weight | .0262 grams | |



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.

www.resistor.com