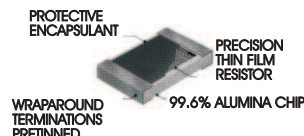


# State of the Art, Inc.

## Thin Film Chip Resistor

### M55342/06 RM0705



## PERFORMANCE

Resistance Range 100Ω - 1MΩ  
 Tolerances 0.1%, 1%, 2%, 5%  
 Maximum Power 150 mW  
 Maximum Voltage 50 Volts

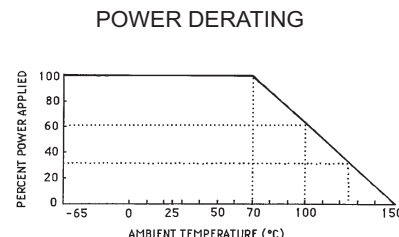
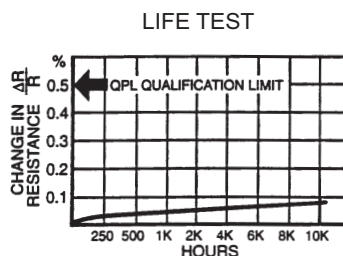
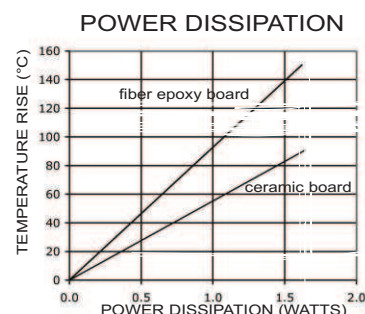
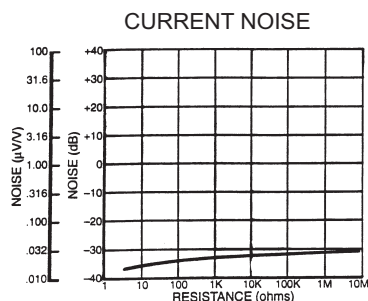
### TESTS

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\*

| E     | H      |
|-------|--------|
| ±25   | ±50    |
| ±0.1% | ±0.25% |
| ±0.1% | ±0.25% |
| ±0.1% | ±0.1%  |
| ±0.2% | ±0.25% |
| ±0.2% | ±0.4%  |
| ±0.5% | ±0.5%  |
| ±0.1% | ±0.2%  |

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



## PART NUMBERING

**M55342 H 06 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 G: 2% Ω J: 5% Ω  
 B: 0.1% K Ω E: 1% K Ω H: 2% K Ω K: 5% 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

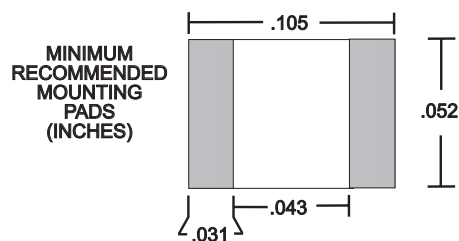
SIZE CODE: /06 = RM0705

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

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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 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