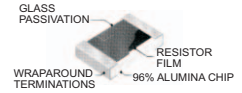


# State of the Art, Inc.

## Thick Film Chip Resistor

### M55342/10 RM1010

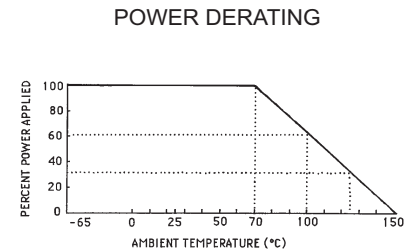
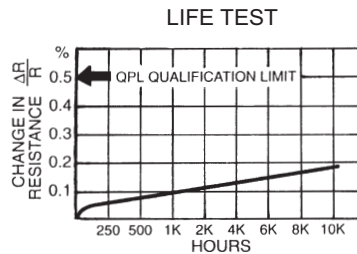
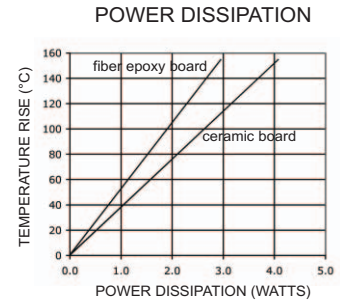
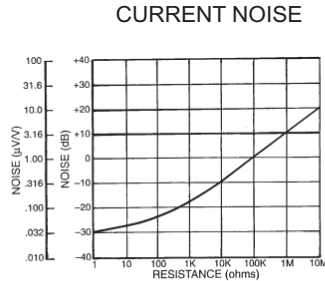


### PERFORMANCE

Resistance Range **1Ω - 22MΩ**  
 Tolerances **1%, 2%, 5%, 10%**  
 Maximum Power **500 mW**  
 Maximum Voltage **75 Volts**

#### CHARACTERISTICS\*

| TESTS                        | K                              | M      |
|------------------------------|--------------------------------|--------|
|                              | TCR (-55 to +125 °C) in ppm/°C | ±100   |
| 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 10 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

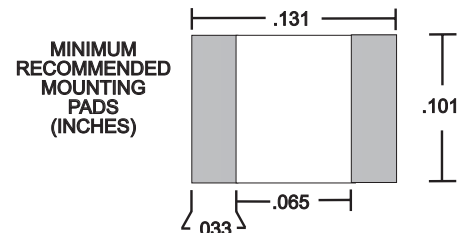
SIZE CODE: /10 = RM1010

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

### MECHANICAL

|                | INCHES             | MILLIMETERS        |
|----------------|--------------------|--------------------|
| Length         | .101 (.098 - .112) | 2.57 (2.49 - 2.84) |
| Width          | .095 (.095 - .105) | 2.41 (2.41 - 2.67) |
| Thickness      | .018 (.015 - .033) | 0.46 (0.38 - 0.84) |
| Top Term       | .015 (.010 - .020) | 0.38 (0.25 - 0.51) |
| Bottom Term    | .015 (.010 - .020) | 0.38 (0.25 - 0.51) |
| Gap            | .071 (.067 - .075) | 1.80 (1.70 - 1.91) |
| Approx. Weight | .0105 grams        |                    |



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04/09/08

\*Specifications subject to change without notice.\*

www.resistor.com