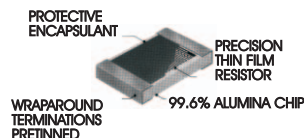




# State of the Art, Inc.

## Thin Film Chip Resistor

### M55342/02 RM0505



## PERFORMANCE

Resistance Range **5Ω - 1MΩ**  
 Tolerances **0.1%, 1%, 2%, 5%**  
 Maximum Power **125 mW**  
 Maximum Voltage **40 Volts**

Resistance range for 0.1% tolerance is 100 ohms to 150 K ohms.

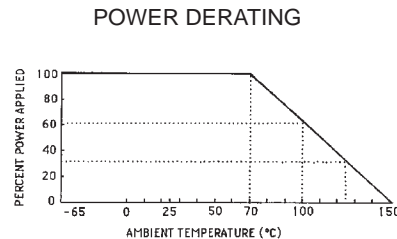
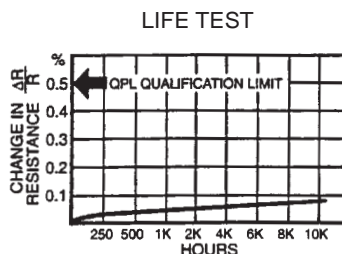
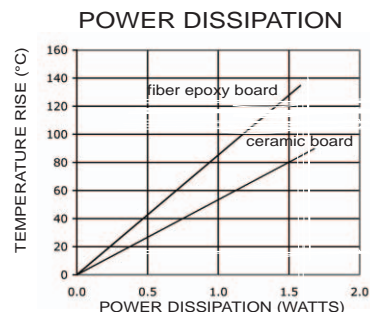
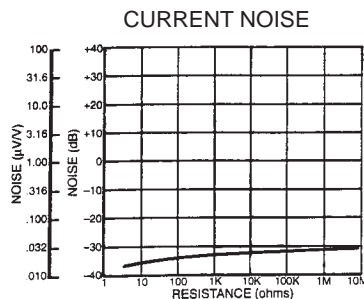
### TESTS

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 02 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: /02 = RM0505

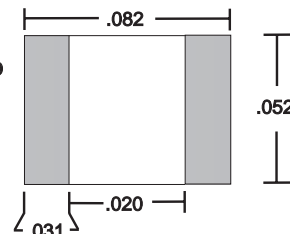
TEMPERATURE CHARACTERISTIC: E: ± 25ppm H: ± 50ppm

PERFORMANCE SPECIFICATION MIL-PRF-55342

## MECHANICAL

	INCHES	MILLIMETERS
Length	.052 (.050 - .060)	1.32 (1.27 - 1.52)
Width	.048 (.046 - .054)	1.22 (1.17 - 1.37)
Thickness	.015 (.013 - .023)	0.38 (0.33 - 0.58)
Top Term	.009 (.005 - .015)	0.22 (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	.00315 grams	

MINIMUM  
RECOMMENDED  
MOUNTING  
PADS  
(INCHES)



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\*Specifications subject to change without notice.\*

04/09/08