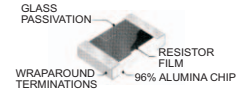


# State of the Art, Inc.

## Thick Film Chip Resistor

### M55342/02 RM0505



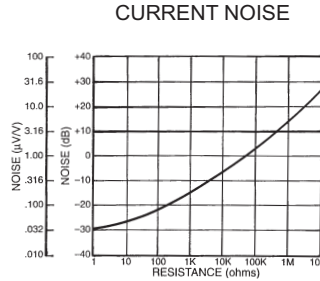
### PERFORMANCE

Resistance Range **1Ω - 22MΩ**  
 Tolerances **1%, 2%, 5%, 10%**  
 Maximum Power **125 mW**  
 Maximum Voltage **40 Volts**

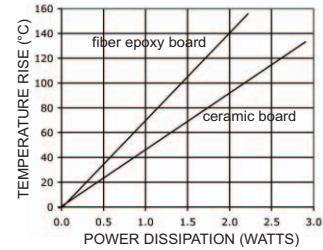
### TESTS

	<b>K</b>	<b>M</b>
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%

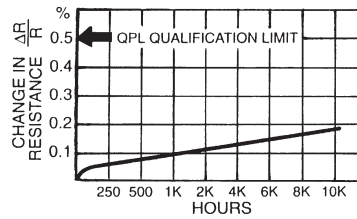
### CHARACTERISTICS\*



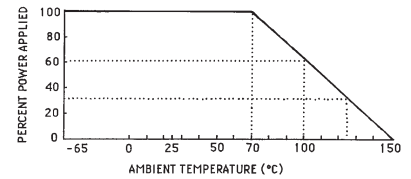
### POWER DISSIPATION



### LIFE TEST



### POWER DERATING



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

### PART NUMBERING

**M55342 K 02 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: /02 = RM0505

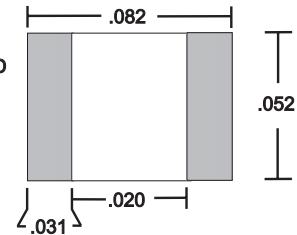
TEMPERATURE CHARACTERISTIC: K: ± 100ppm M: ± 300ppm

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)



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.\*