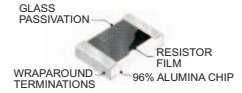


# State of the Art, Inc.

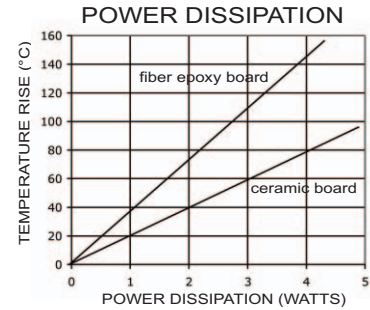
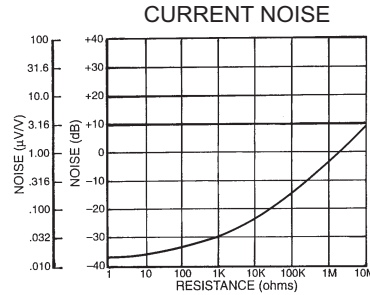
## Thick Film Chip Resistor

### M55342/09 RM2512



### PERFORMANCE

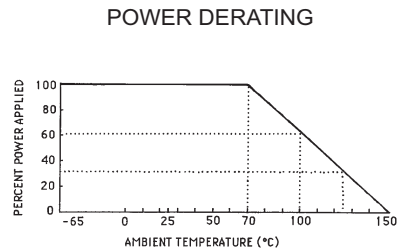
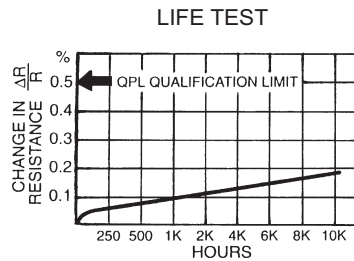
Resistance Range **1Ω - 22MΩ**  
 Tolerances **1%, 2%, 5%, 10%**  
 Maximum Power **1000 mW**  
 Maximum Voltage **200 Volts**



### TESTS

### CHARACTERISTICS\*

	<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%



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

### PART NUMBERING

**M55342 K 09 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

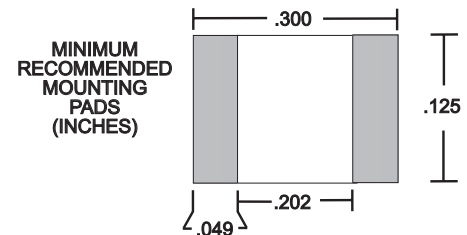
SIZE CODE: /09 = RM2512

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

### MECHANICAL

	INCHES	MILLIMETERS
Length	.250 (.244 - .268)	6.35 (6.20 - 6.81)
Width	.119 (.119 - .129)	3.02 (3.02 - 3.28)
Thickness	.028 (.015 - .033)	0.71 (0.38 - 0.84)
Top Term	.020 (.015 - .025)	0.51 (0.38 - 0.64)
Bottom Term	.019 (.015 - .025)	0.48 (0.38 - 0.64)
Gap	.212 (.208 - .216)	5.39 (5.28 - 5.49)
Approx. Weight	.0513 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.\*