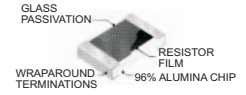


# State of the Art, Inc.

## Thick Film Chip Resistor

### M55342/04 RM1505



### PERFORMANCE

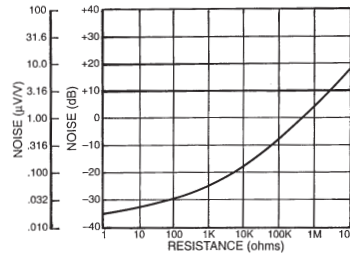
Resistance Range **1Ω - 22MΩ**  
 Tolerances **1%, 2%, 5%, 10%**  
 Maximum Power **150 mW**  
 Maximum Voltage **125 Volts**

### TESTS

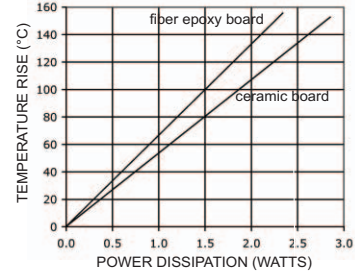
	CHARACTERISTICS*	
	K	M
TCR (-55 to +125 °C) in ppm/°C	±100	±300
Thermal Shock	±0.5%	±0.5%
Low Temperature Operation	±0.25%	±0.5%
Short-time Overload	±0.25%	±0.5%
Resistance to Soldering Heat	±0.25%	±0.25%
Moisture Resistance	±0.5%	±0.5%
Life, 2,000 Hours	±0.5%	±2.0%
High Temperature Exposure	±0.5%	±1.0%

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

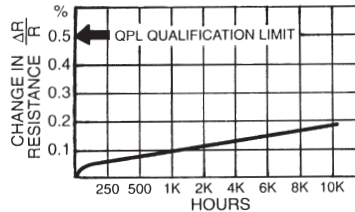
CURRENT NOISE



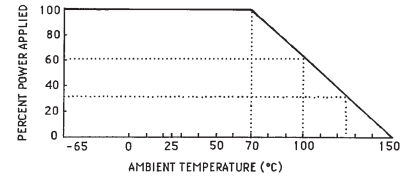
POWER DISSIPATION



LIFE TEST



POWER DERATING



### PART NUMBERING

**M55342 K 04 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: /04 = RM1505

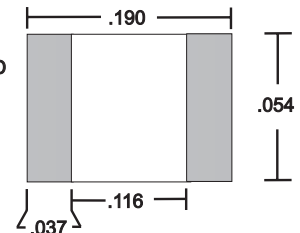
TEMPERATURE CHARACTERISTIC: K: ± 100ppm M: ± 300ppm

PERFORMANCE SPECIFICATION MIL-PRF-55342

### MECHANICAL

	INCHES	MILLIMETERS
Length	.150 (.148 - .162)	3.81 (3.76 - 4.11)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.023 (.015 - .033)	0.58 (0.38 - 0.84)
Top Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.122 (.118 - .126)	3.10 (3.00 - 3.20)
Approx. Weight	.0097 grams	

MINIMUM RECOMMENDED MOUNTING PADS (INCHES)



State of the Art, Inc. 2470 Fox Hill Road, State College, PA 16803-1797  
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04/09/08

\*Specifications subject to change without notice.\*