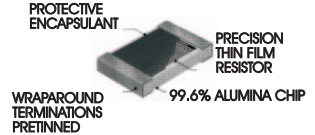




# State of the Art, Inc.

## Thin Film Chip Resistor

### M55342/06 RM0705

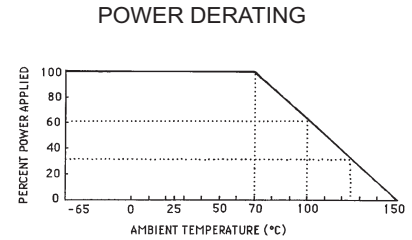
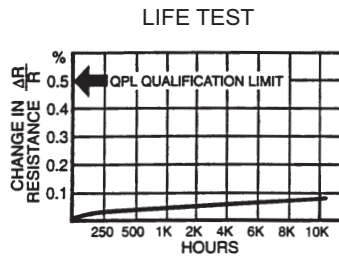
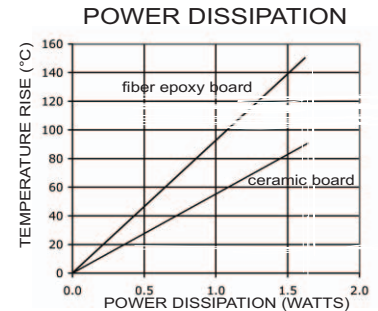
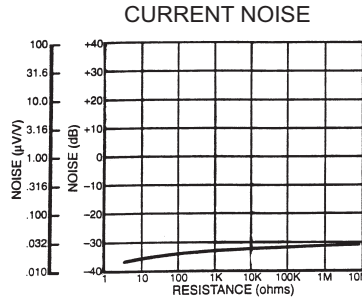


### PERFORMANCE

Resistance Range 100Ω - 1MΩ  
 Tolerances 0.1%, 1%, 2%, 5%  
 Maximum Power 150 mW  
 Maximum Voltage 50 Volts

TESTS	CHARACTERISTICS*	
	E	H
TCR (-55 to +125 °C) in ppm/°C	±25	±50
Thermal Shock	±0.1%	±0.25%
Low Temperature Operation	±0.1%	±0.25%
Short-time Overload	±0.1%	±0.1%
Resistance to Soldering Heat	±0.2%	±0.25%
Moisture Resistance	±0.2%	±0.4%
Life, 2,000 Hours	±0.5%	±0.5%
High Temperature Exposure	±0.1%	±0.2%

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



### PART NUMBERING

M55342 H 06 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	J: 5% Ω
B: 0.1% K Ω	E: 1% K Ω	H: 2% 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

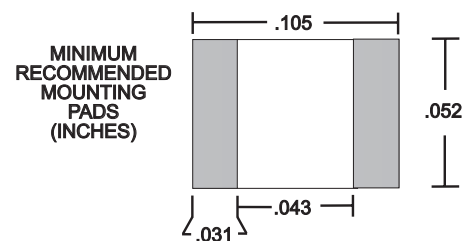
SIZE CODE: /06 = RM0705

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

### MECHANICAL

	INCHES	MILLIMETERS
Length	.075 (.074 - .086)	1.91 (1.88 - 2.18)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.012 (.008 - .024)	0.31 (0.20 - 0.61)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.047 (.043 - .051)	1.19 (1.09 - 1.30)
Approx. Weight	.00405 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.\*

www.resistor.com