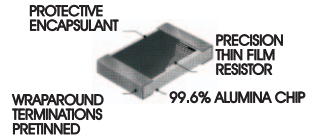




# State of the Art, Inc.

## Thin Film Chip Resistor

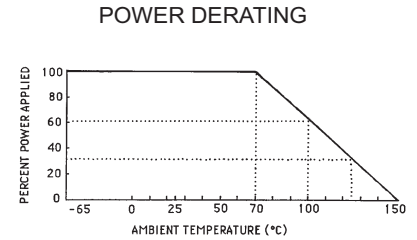
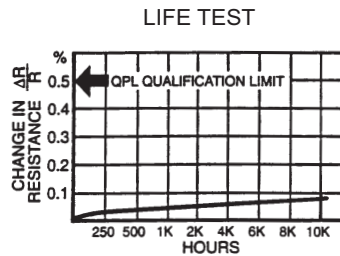
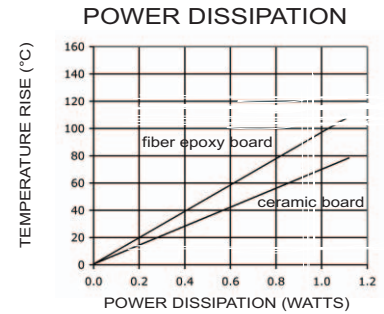
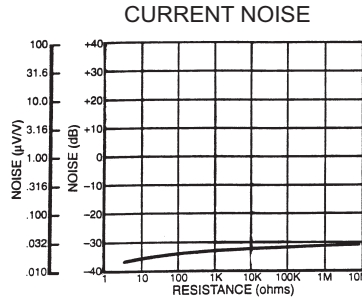
### M55342/13 RM0302



### PERFORMANCE

Resistance Range	100Ω - 100KΩ
Tolerances	0.1%, 1%, 2%, 5%
Maximum Power	40 mW
Maximum Voltage	15 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 (qualification)	±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 13 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

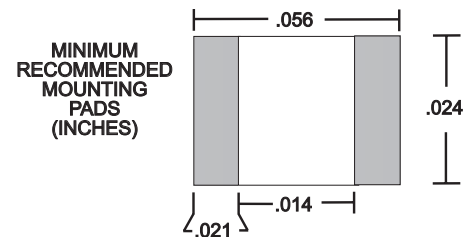
SIZE CODE: /13 = RM0302

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

### MECHANICAL

	INCHES	MILLIMETERS
Length	.032 (.028 - .036)	0.81 (0.71 - 0.91)
Width	.022 (.017 - .027)	0.56 (0.43 - 0.69)
Thickness	.015 (.010 - .025)	0.38 (0.25 - 0.51)
Top Term	.005 (.002 - .012)	0.13 (0.05 - 0.31)
Bottom Term	.008 (.003 - .013)	0.20 (0.08 - 0.33)
Gap	.016 (.012 - .020)	0.41 (0.31 - 0.51)
Approx. Weight	.00069 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.\*