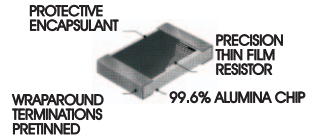




State of the Art, Inc.

Thin Film Chip Resistor

M55342/03 RM1005



PERFORMANCE

Resistance Range 100Ω - 1MΩ
 Tolerances 0.1%, 1%, 2%, 5%
 Maximum Power 200 mW
 Maximum Voltage 75 Volts

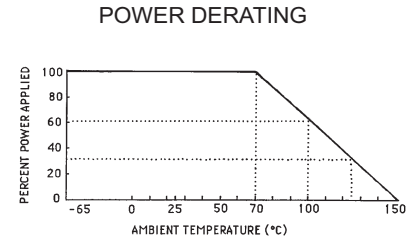
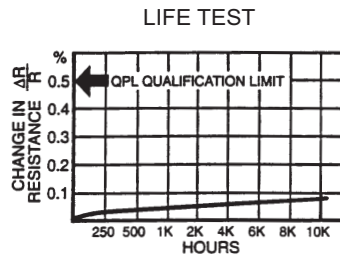
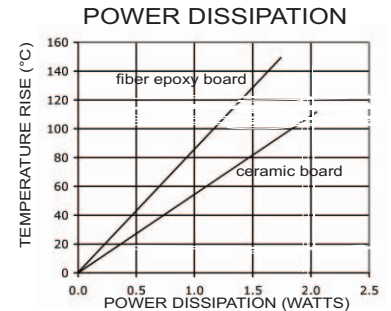
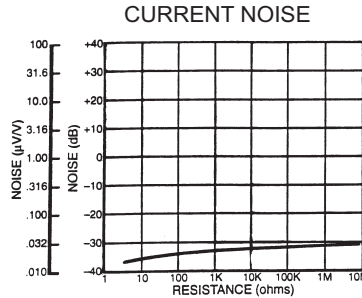
TESTS

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

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 03 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
		K: 5% K Ω
		L: 5% M Ω

TERMINATION MATERIALS: B: Solderable wraparound W: Gold wire bondable

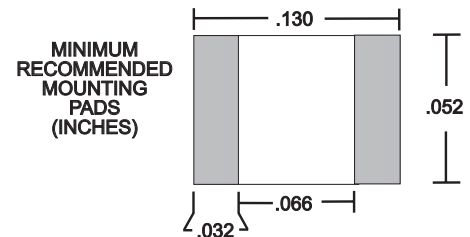
SIZE CODE: /03 = RM1005

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

	INCHES	MILLIMETERS
Length	.100 (.098 - .112)	2.54 (2.49 - 2.84)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.072 (.068 - .076)	1.83 (1.73 - 1.93)
Approx. Weight	.0054 grams	



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.

www.resistor.com