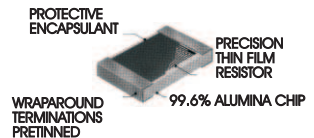




State of the Art, Inc.

Thin Film Chip Resistor

M55342/12 RM0603



PERFORMANCE

Resistance Range 100Ω - 270KΩ
Tolerances 0.1%, 1%, 2%, 5%
Maximum Power 100 mW
Maximum Voltage 50 Volts

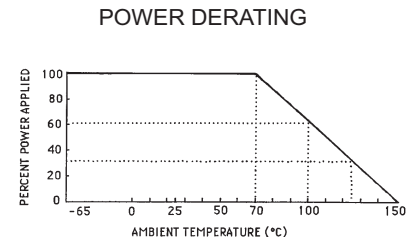
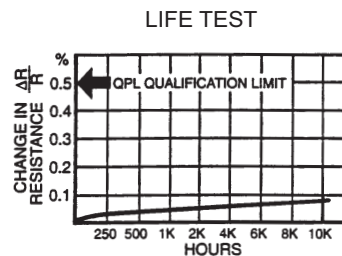
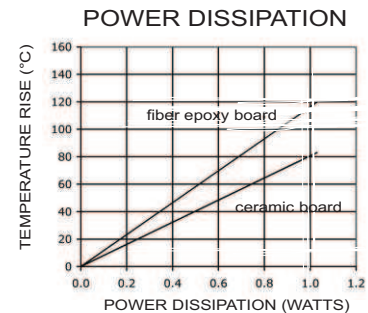
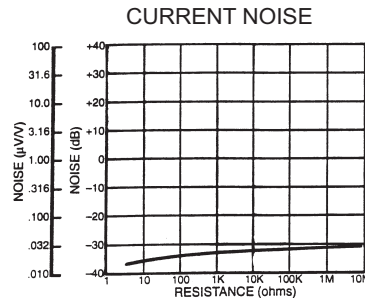
TESTS

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

CHARACTERISTICS*

E	H
±25	±50
±0.1%	±0.25%
±0.1%	±0.25%
±0.1%	±0.1%
±0.2%	±0.25%
±0.2%	±0.4%
±0.5%	±0.5%
±0.1%	±0.2%

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



PART NUMBERING

M55342 H 12 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

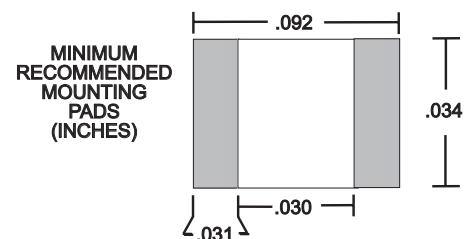
SIZE CODE: /12 = RM0603

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

	INCHES	MILLIMETERS
Length	.062 (.058 - .070)	1.58 (1.47 - 1.78)
Width	.032 (.027 - .037)	0.81 (0.69 - 0.94)
Thickness	.018 (.010 - .033)	0.46 (0.25 - 0.84)
Top Term	.010 (.007 - .017)	0.25 (0.18 - 0.43)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.034 (.030 - .038)	0.86 (0.76 - 0.97)
Approx. Weight	.00235 grams	



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04/09/08

Specifications subject to change without notice.

www.resistor.com