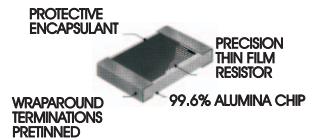




# State of the Art, Inc.

## 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

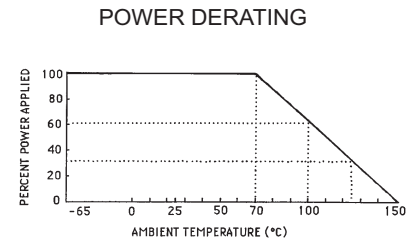
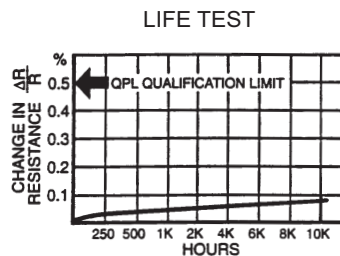
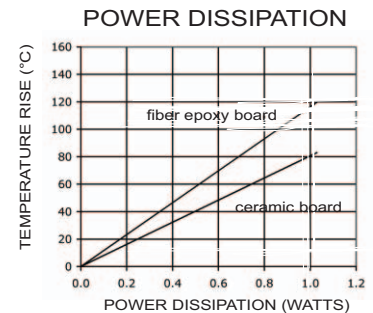
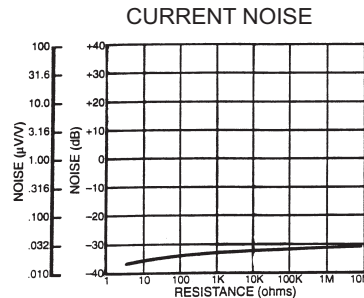
#### TESTS

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

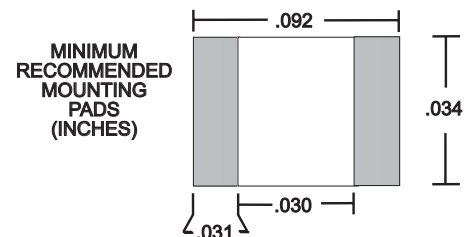
SIZE CODE: /12 = RM0603

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