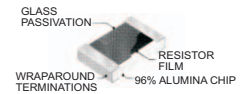


State of the Art, Inc.

Thick Film Chip Resistor

M55342/12 RM0603



PERFORMANCE

Resistance Range	1Ω - 22MΩ
Tolerances	1%, 2%, 5%, 10%
Maximum Power	100 mW
Maximum Voltage	50 Volts

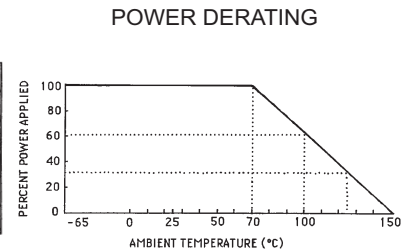
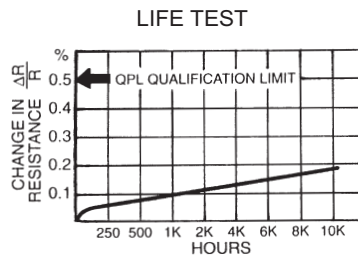
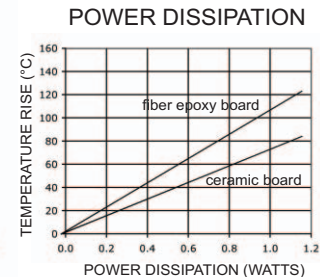
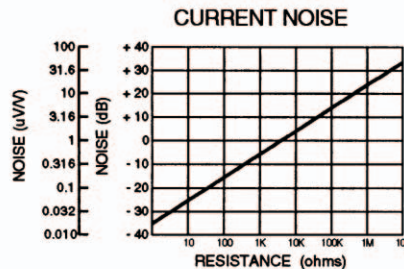
TESTS

TCR (-55 to +125 °C) in ppm/°C	±100	±300
Thermal Shock	±0.5%	±0.5%
Low Temperature Operation	±0.25%	±0.5%
Short-time Overload	±0.25%	±0.5%
Resistance to Soldering Heat	±0.25%	±0.25%
Moisture Resistance	±0.5%	±0.5%
Life, 2,000 Hours	±0.5%	±2.0%
High Temperature Exposure	±0.5%	±1.0%

CHARACTERISTICS*

	K	M
TCR (-55 to +125 °C) in ppm/°C	±100	±300
Thermal Shock	±0.5%	±0.5%
Low Temperature Operation	±0.25%	±0.5%
Short-time Overload	±0.25%	±0.5%
Resistance to Soldering Heat	±0.25%	±0.25%
Moisture Resistance	±0.5%	±0.5%
Life, 2,000 Hours	±0.5%	±2.0%
High Temperature Exposure	±0.5%	±1.0%

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



PART NUMBERING

M55342 K 12 B 100D S - TR

PACKAGING CODE: TR = Tape & Reel W= Waffle Pack

PRODUCT LEVEL DESIGNATOR: M: 1% per 1000 hrs. R: 0.01% P: 0.1% S: 0.001% 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.

D: 1% Ω	G: 2% Ω	J: 5% Ω	M: 10% Ω
E: 1% K Ω	H: 2% K Ω	K: 5% K Ω	N: 10% K Ω
F: 1% M Ω	T: 2% M Ω	L: 5% M Ω	P: 10% M Ω

TERMINATION MATERIALS:

B: Solderable wraparound C: Epoxy bondable palladium/silver wraparound U: Epoxy bondable platinum/gold wraparound
W: Gold wire bondable G: Gold wraparound

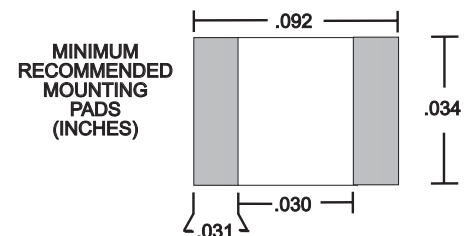
SIZE CODE: /12 = RM0603

TEMPERATURE CHARACTERISTIC: K: ± 100ppm M: ± 300ppm

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	



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.

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