

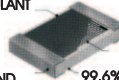


State of the Art, Inc.

Thin Film Chip Resistor

M55342/04 RM1505

PROTECTIVE
ENCAPSULANT



PRECISION
THIN FILM
RESISTOR

WRAPAROUND
TERMINATIONS
PRETINNED

99.6% ALUMINA CHIP

PERFORMANCE

Resistance Range
Tolerances
Maximum Power
Maximum Voltage

100Ω - 1MΩ
0.1%, 1%, 2%, 5%
150 mW
125 Volts

TESTS

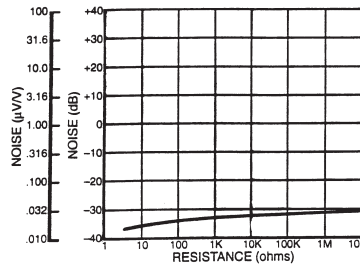
TCR (-55 to +125 °C) in ppm/°C
Thermal Shock
Low Temperature Operation
Short-time Overload
Resistance to Soldering Heat
Moisture Resistance
Life, 2,000 Hours
High Temperature Exposure

CHARACTERISTICS*

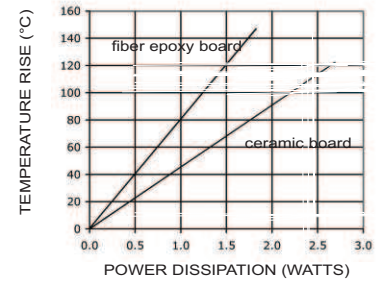
E	H
±25	±50
±0.1%	±0.25%
±0.1%	±0.25%
±0.1%	±0.1%
±0.2%	±0.25%
±0.2%	±0.4%
±0.5%	±0.5%
±0.1%	±0.2%

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

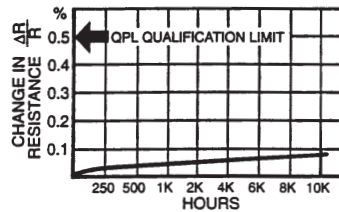
CURRENT NOISE



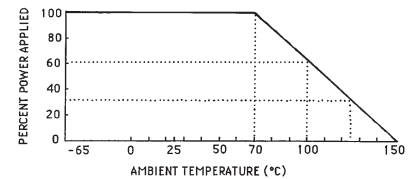
POWER DISSIPATION



LIFE TEST



POWER DERATING



PART NUMBERING

M55342 H 04 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: /04 = RM1505

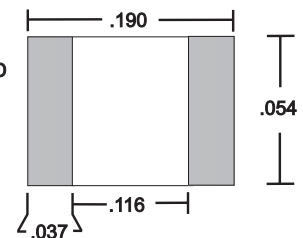
TEMPERATURE CHARACTERISTIC: E: ± 25ppm H: ± 50ppm

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

	INCHES	MILLIMETERS
Length	.150 (.148 - .162)	3.81 (3.76 - 4.11)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.023 (.015 - .033)	0.58 (0.38 - 0.84)
Top Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.122 (.118 - .126)	3.10 (3.00 - 3.20)
Approx. Weight	.0097 grams	

MINIMUM
RECOMMENDED
MOUNTING
PADS
(INCHES)



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04/09/08

Specifications subject to change without notice.

www.resistor.com