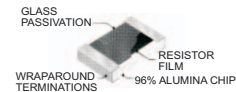


State of the Art, Inc.

Thick Film Chip Resistor

M55342/10 RM1010



PERFORMANCE

Resistance Range **1Ω - 22MΩ**
 Tolerances **1%, 2%, 5%, 10%**
 Maximum Power **500 mW**
 Maximum Voltage **75 Volts**

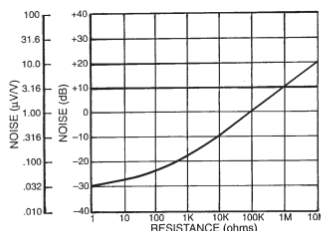
TESTS

	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%

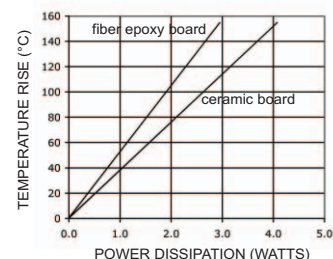
*Maximum allowable change per MIL-PRF-55342, typical change is 10% of these values.

CHARACTERISTICS*

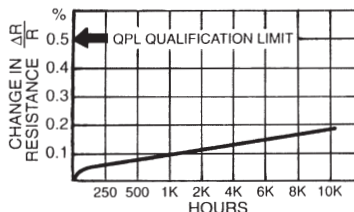
CURRENT NOISE



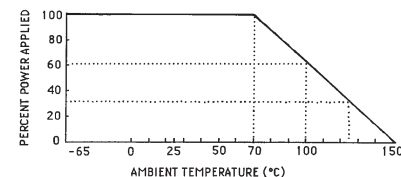
POWER DISSIPATION



LIFE TEST



POWER DERATING



PART NUMBERING

M55342 K 10 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

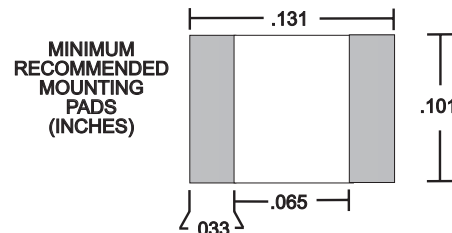
SIZE CODE: /10 = RM1010

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

	INCHES	MILLIMETERS
Length	.101 (.098 - .112)	2.57 (2.49 - 2.84)
Width	.095 (.095 - .105)	2.41 (2.41 - 2.67)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Bottom Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Gap	.071 (.067 - .075)	1.80 (1.70 - 1.91)
Approx. Weight	.0105 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
www.resistor.com

04/09/08

Specifications subject to change without notice.