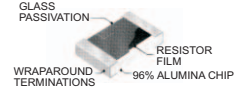




State of the Art, Inc.

Thick Film Chip Resistor

M55342/06 RM0705



PERFORMANCE

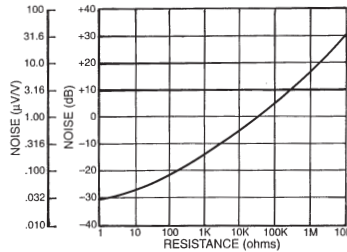
Resistance Range **1Ω - 22MΩ**
 Tolerances **1%, 2%, 5%, 10%**
 Maximum Power **150 mW**
 Maximum Voltage **50 Volts**

TESTS

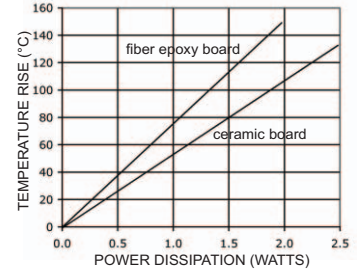
	CHARACTERISTICS*	
	K	M
TCR (-55 to +125 °C) in ppm/°C	±100	±300
Thermal Shock	±0.5%	±0.5%
Low Temperature Operation	±0.25%	±0.5%
Short-time Overload	±0.25%	±0.5%
Resistance to Soldering Heat	±0.25%	±0.25%
Moisture Resistance	±0.5%	±0.5%
Life, 2,000 Hours	±0.5%	±2.0%
High Temperature Exposure	±0.5%	±1.0%

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

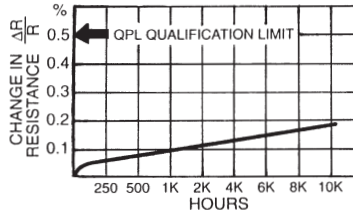
CURRENT NOISE



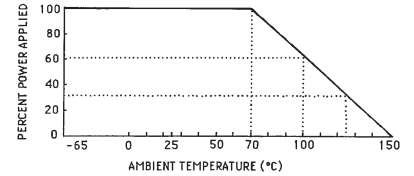
POWER DISSIPATION



LIFE TEST



POWER DERATING



PART NUMBERING

M55342 K 06 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

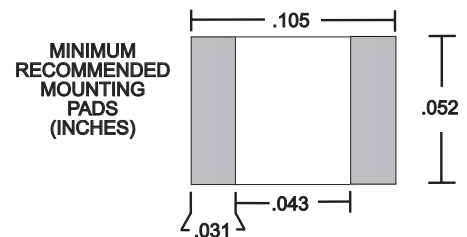
SIZE CODE: /06 = RM0705

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

PERFORMANCE SPECIFICATION MIL-PRF-55342

MECHANICAL

	INCHES	MILLIMETERS
Length	.075 (.074 - .086)	1.91 (1.88 - 2.18)
Width	.048 (.045 - .055)	1.22 (1.14 - 1.40)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.012 (.008 - .024)	0.31 (0.20 - 0.61)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.047 (.043 - .051)	1.19 (1.09 - 1.30)
Approx. Weight	.00405 grams	



State of the Art, Inc. 2470 Fox Hill Road, State College, PA 16803-1797
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04/09/08

Specifications subject to change without notice.