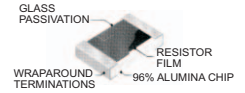




State of the Art, Inc.

Thick Film Chip Resistor

D55342/07 RM1206



PERFORMANCE

Resistance Range **1Ω - 22MΩ**
 Tolerances **1%, 2%, 5%, 10%**
 Maximum Power **250 mW**
 Maximum Voltage **100 Volts**

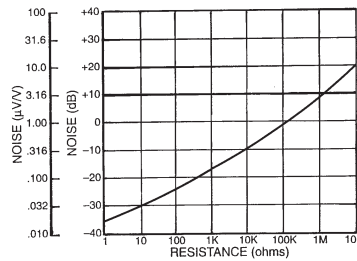
TESTS

	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%

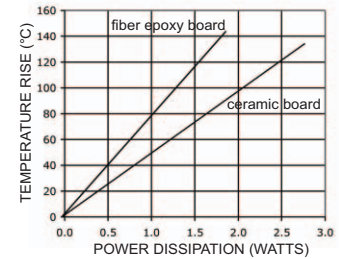
CHARACTERISTICS*

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

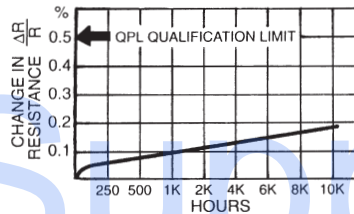
CURRENT NOISE



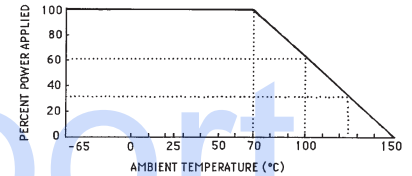
POWER DISSIPATION



LIFE TEST



POWER DERATING



PART NUMBERING

D55342 K 07 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: /07* = RM1206

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

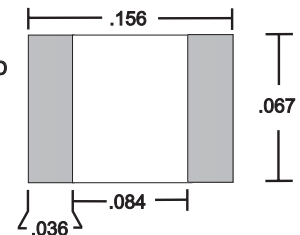
PERFORMANCE SPECIFICATION MIL-PRF-55342

*RM1206 is specified in MIL-PRF-55342 as D55342 /07 rather than M55342 /07.

MECHANICAL

	INCHES	MILLIMETERS
Length	.126 (.118 - .134)	3.20 (3.00 - 3.40)
Width	.061 (.058 - .068)	1.55 (1.47 - 1.73)
Thickness	.018 (.015 - .033)	0.46 (0.38 - 0.84)
Top Term	.016 (.010 - .025)	0.41 (0.25 - 0.64)
Bottom Term	.018 (.010 - .025)	0.46 (0.25 - 0.64)
Gap	.090 (.086 - .094)	2.29 (2.18 - 2.39)
Approx. Weight	.0084 grams	

MINIMUM RECOMMENDED MOUNTING PADS (INCHES)



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.

www.resistor.com