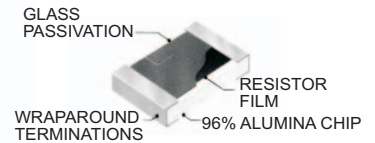




State of the Art, Inc.

1010 Thick Film Chip Resistor

Standard Grade, Wraparound



PERFORMANCE CHARACTERISTICS

Resistance Range	1Ω - 40MΩ
Tolerances (1)	0.5%, 1%, 2%, 5%, 10%
TCR	±100, ±200, ±300 ppm
Thermal Resistance	39.2°C/W
Maximum Power	500 mW
Maximum Voltage	75 Volts

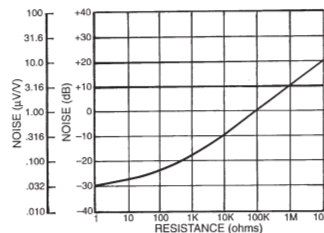
(1)+/- 0.5% limited availability

ENVIRONMENTAL PERFORMANCE (2)

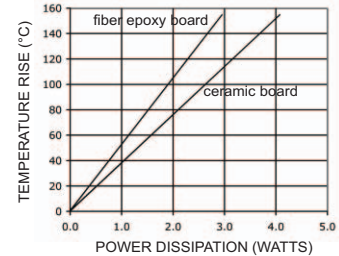
Thermal Shock	±0.03%
Low Temperature Operation	±0.03%
Short-time Overload	±0.03%
Resistance to Bonding Exposure	±0.03%
Moisture Resistance	±0.05%
High Temperature Exposure	±0.05%
Life Test	See Chart

(2)Typical resistance change, test methods and criteria per MIL-PRF-55342.

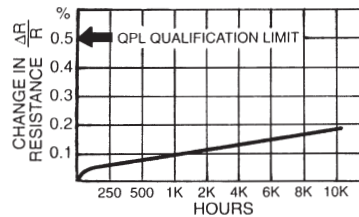
CURRENT NOISE



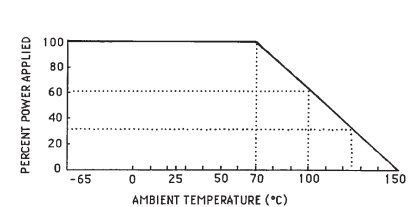
POWER DISSIPATION



LIFE TEST



POWER DERATING



PART NUMBERING

S 1010 C P X 150 J 20 - TR

PACKAGING CODE: - TR = Tape/Reel - W = Waffle Carrier (Default packaging is Bulk)

TEMPERATURE CHARACTERISTIC: 10: ±100 ppm 20: ±200 ppm 30: ±300 ppm

TOLERANCE: F: 1% G: 2% J: 5% K: 10% M: 20%

RESISTANCE VALUE:

Four digits are used for tolerances of 1% or lower, three digits are used above 1%. Leading digits are significant while the last digit specifies the number of zeros to add. The letter "R" is used to represent the decimal for fractional ohmic values. Example: 5R6 is 5.6 ohms.

TERMINATION FINISH: X: Sn60 over Nickel (Solderable) C: Silver bearing (Epoxy bondable-RoHS) G: Gold (Epoxy bondable-RoHS) Y: Silver over Nickel (Solderable -RoHS) Z: Gold over Nickel (Solderable-RoHS)

PRODUCT DESIGNATION: P: Thick film on alumina U: Untrimmed alumina (10% & 20% tolerance only)

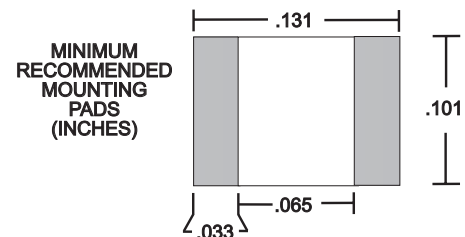
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

GRADE: S: Standard Production H: High Reliability (For Screening options, contact the factory)

MECHANICAL

	INCHES	MILLIMETERS
Length	.101 (.099 - .109)	2.57 (2.52 - 2.77)
Width	.095 (.095 - .101)	2.41 (2.41 - 2.57)
Thickness	.018 (.015 - .023)	0.46 (0.38 - 0.58)
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	



Specifications subject to change without notice.

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

02/08/08