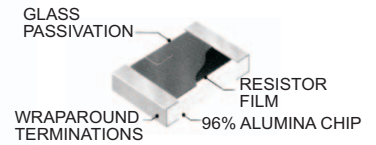




State of the Art, Inc.

2512 Thick Film Chip Resistor

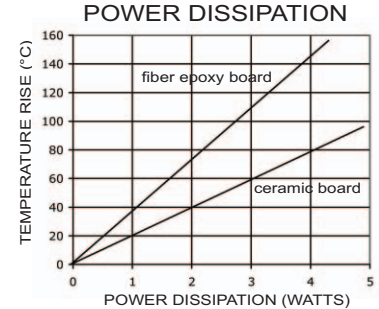
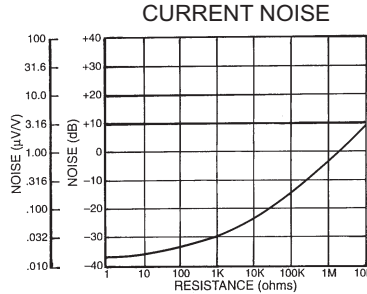
Standard Grade, Wraparound



PERFORMANCE CHARACTERISTICS

Resistance Range	1Ω - 40MΩ
Tolerances (1)	0.5%, 1%, 2%, 5%, 10%
TCR	±100, ±200, ±300 ppm
Thermal Resistance	44.5°C/W
Maximum Power	1500 mW
Maximum Voltage	200 Volts

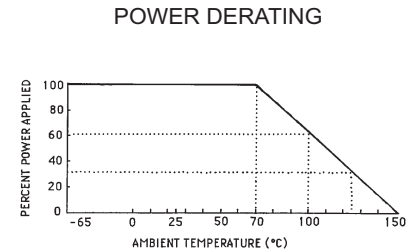
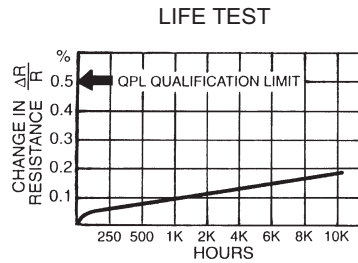
(1) +/- 0.5% limited availability



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.



PART NUMBERING

S 2512 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)

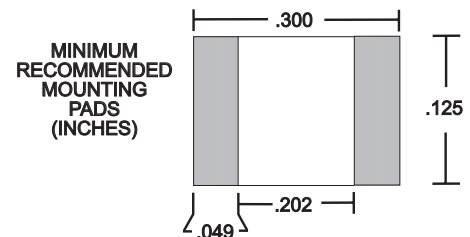
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

MECHANICAL

	INCHES	MILLIMETERS
Length	.250 (.250 - .258)	6.35 (6.35 - 6.55)
Width	.119 (.119 - .125)	3.02 (3.02 - 3.18)
Thickness	.028 (.023 - .033)	0.71 (0.58 - 0.84)
Top Term	.020 (.015 - .025)	0.51 (0.38 - 0.64)
Bottom Term	.019 (.015 - .025)	0.48 (0.38 - 0.64)
Gap	.212 (.208 - .216)	5.39 (5.28 - 5.49)
Approx. Weight	.0513 grams	



Specifications subject to change without notice.

STATE OF THE ART, INC. 2470 Fox Hill Road, State College, PA 16803-1797

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