

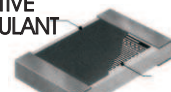


State of the Art, Inc.

2512 Thin Film Chip Resistor

Standard Grade, Wraparound

PROTECTIVE
ENCAPSULANT



PRECISION
THIN FILM

WRAPAROUND
TERMINATIONS

99.6% ALUMINA

PERFORMANCE CHARACTERISTICS

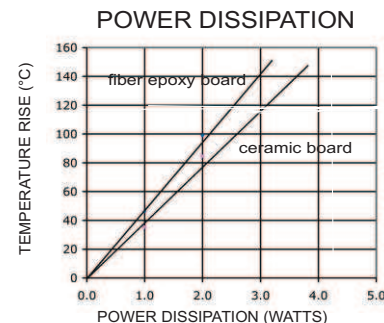
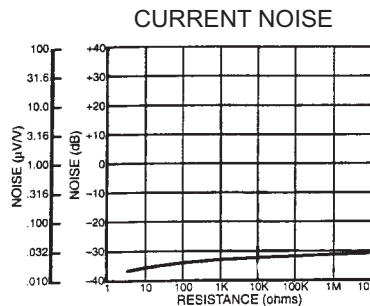
Resistance Range(1)	5.6Ω – 9.1MΩ
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%
TCR	±25, ±50, ±100 ppm
Thermal Resistance	56.8°C/W
Maximum Power	1500 mW
Maximum Voltage	200 Volts

- (1) Minimum resistance range at 0.1% tolerance is 100ohms.
(2) +/- 0.05% limited availability - consult factory

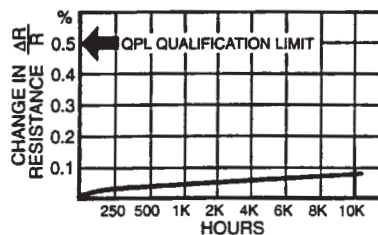
ENVIRONMENTAL PERFORMANCE (3)

Thermal Shock	±0.02%
Low Temperature Operation	±0.02%
Short-time Overload	±0.02%
Resistance to Bonding Exposure	±0.02%
Moisture Resistance	±0.03%
High Temperature Exposure	±0.03%
Life Test	See Chart

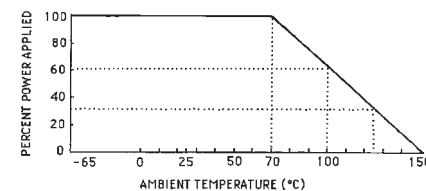
- (3) Typical resistance change, test methods and criteria per MIL-PRF-55342.



TYPICAL LIFE TEST PERFORMANCE



POWER DERATING



PART NUMBERING

S 2512 C A 1001 F H B - TR

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

TERMINATION FINISH: B: Sn60 over nickel barrier W: Gold

TEMPERATURE CHARACTERISTIC TCR: E: ±25 ppm H: ±50 ppm K: ±100 ppm

TOLERANCE: B: 01% C: 0.25% D: 0.5% F: 1% G: 2% J: 5%

RESISTANCE VALUE:

Three or Four digits are used, with all leading digits significant. Four digits are used for 1% tolerance or lower; otherwise, three digits are used. 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.

PRODUCT DESIGNATION: A: Thin film on alumina

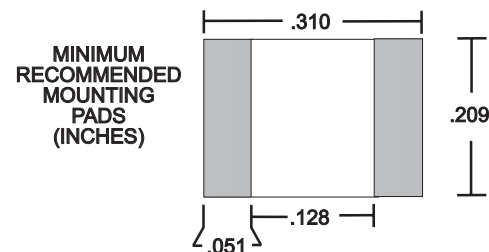
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

MECHANICAL

	INCHES	MILLIMETERS
Length	.260 (.258 - .266)	6.60 (6.55 - 6.75)
Width	.122 (.120 - .128)	3.10 (3.05 - 3.25)
Thickness	.027 (.023 - .033)	0.64 (0.58 - 0.84)
Top Term	.019 (.015 - .025)	0.48 (0.38 - 0.64)
Bottom Term	.021 (.015 - .025)	0.53 (0.38 - 0.64)
Gap	.219 (.215 - .223)	5.55 (5.45 - 5.65)
Approx. Weight	0.0540 grams	



"Specifications subject to change without notice."

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