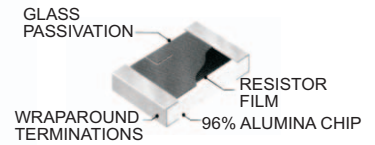




State of the Art, Inc.

2512 Thick Film Chip Resistor

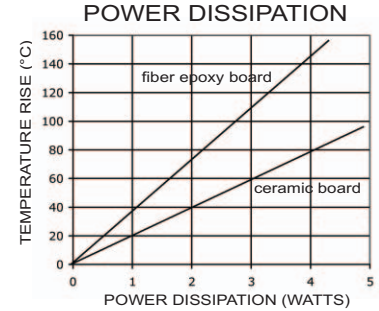
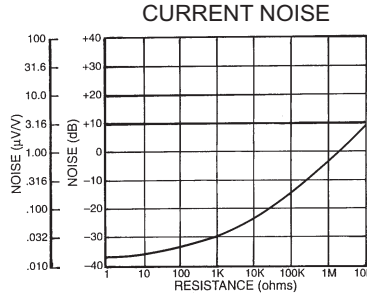
Standard Grade, Wraparound



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 |

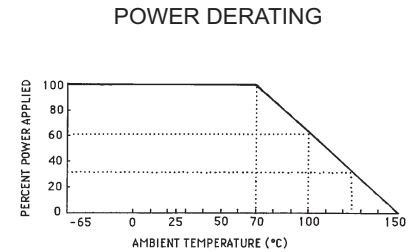
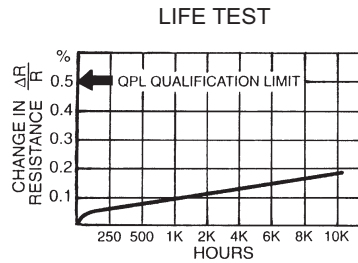
(1) +/- 0.5% limited availability



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)

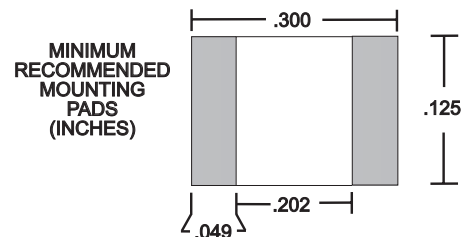
TERMINATION TYPE: C: Wraparound termination

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

Phone (814) 355-8004 Fax (814) 355-2714 Toll Free 1-800-458-3401

www.resistor.com

02/08/08