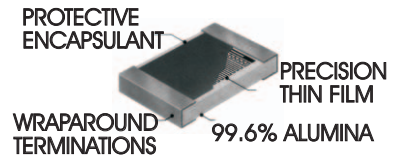




State of the Art, Inc.

0502 Thin Film Chip Resistor

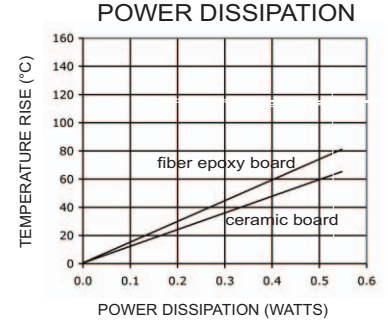
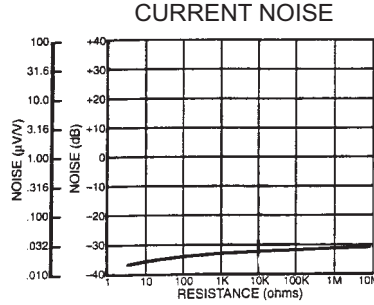
Standard Grade, Wraparound



PERFORMANCE CHARACTERISTICS

Resistance Range(1)	5.6Ω – 150KΩ
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%
TCR	±25, ±50, ±100 ppm
Thermal Resistance	73.2°C/W
Maximum Power	60 mW
Maximum Voltage	40 Volts

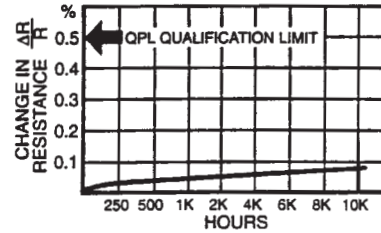
- (1) Minimum resistance range at 0.1% tolerance is 100ohms.
- (2) +/- 0.05% limited availability - consult factory



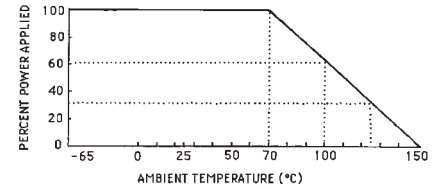
ENVIRONMENTAL PERFORMANCE (3)

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

TYPICAL LIFE TEST PERFORMANCE



POWER DERATING



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

PART NUMBERING

S 0502 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: 0.1% 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

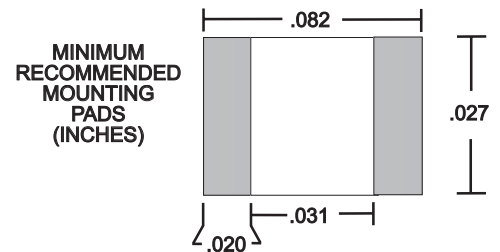
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

MECHANICAL

	INCHES	MILLIMETERS
Length	.052 (.050 - .058)	1.32 (1.27 - 1.47)
Width	.025 (.023 - .027)	0.64 (0.58 - 0.69)
Thickness	.017 (.013 - .023)	0.38 (0.38 - 0.58)
Top Term	.008 (.005 - .015)	0.13 (0.05 - 0.30)
Bottom Term	.014 (.010 - .020)	0.22 (0.13 - 0.38)
Gap	.024 (.020 - .028)	0.36 (0.25 - 0.51)
Approx. Weight	0.0014 grams	



Specifications subject to change without notice.