State of the Art, Inc.
1010 Thin Film Chip Resistor
Standard Grade, Wraparound

PROTECTIVE ENCAPSULANT
PRECISION THIN FILM
WRAPAROUND TERMINATIONS
99.6% ALUMINA
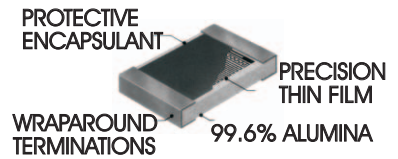
PERFORMANCE CHARACTERISTICS

Resistance Range(1)	5.6Ω – 1.6MΩ
Tolerances (2)	0.1%, 0.25%, 0.5%,1%, 2%, 5%
TCR	±25, ±50, ±100 ppm
Thermal Resistance	35°C/W
Maximum Power	500 mW
Maximum Voltage	75 Volts

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

ENVIRONMENTAL PERFORMANCE (3)

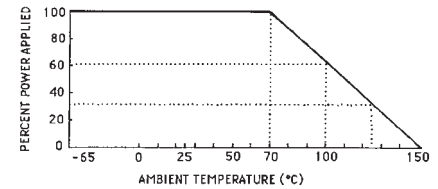|	
Thermal Shock	±0.02%
Low Temperature Operation	±0.02%
Short-time Overload	±0.02%
Resistance to Bonding Exposure	±0.02%
Moisture Resistance	±0.03%
High Temperature Exposure	±0.03%
Life Test	See Chart

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

CURRENT NOISE

POWER DISSIPATION
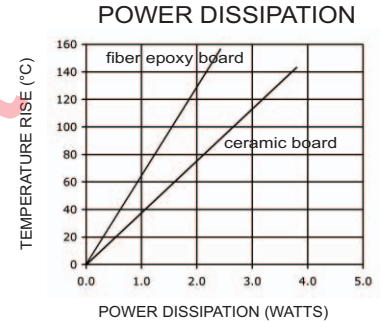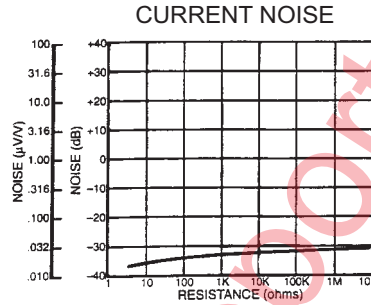
TYPICAL LIFE TEST PERFORMANCE
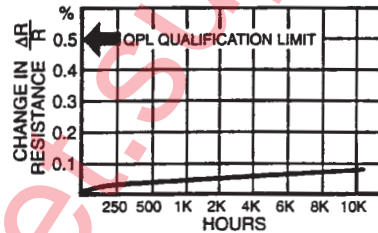
POWER DERATING

PART NUMBERING

S 1010 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	.104 (.102 - .110)	2.65	(2.60 - 2.80)	
Width	.098 (.096 - .104)	2.50	(2.45 - 2.65)	
Thickness	.017 (.013 - .023)	0.38	(0.33 - 0.58)	
Top Term	.015 (.010 - .020)	0.38	(0.25 - 0.50)	
Bottom Term	.014 (.010 - .020)	0.36	(0.25 - 0.51)	
Gap	.076 (.072 - .080)	1.91	(1.81 - 2.01)	
Approx. Weight	0.01005 grams			

MINIMUM RECOMMENDED MOUNTING PADS (INCHES)

.134
.104
.070
.032
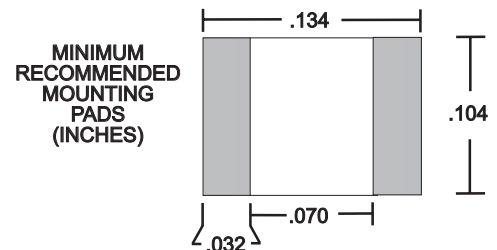
"Specifications subject to change without notice."