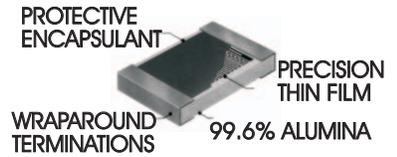




# State of the Art, Inc.

## 0705 Thin Film Chip Resistor

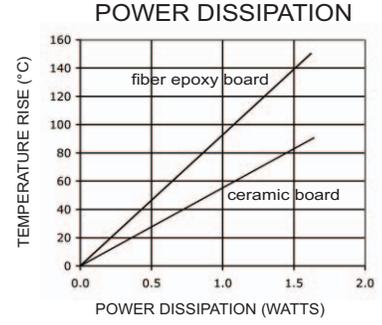
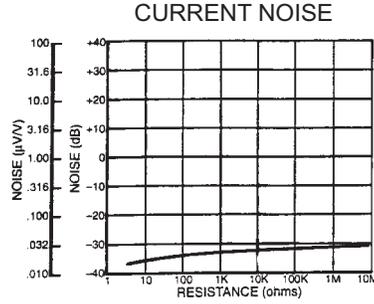
Standard Grade, Wraparound



### PERFORMANCE CHARACTERISTICS

Resistance Range(1)	5.6Ω – 1MΩ
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%
TCR	±25, ±50, ±100 ppm
Thermal Resistance	61.4°C/W
Maximum Power	200 mW
Maximum Voltage	50 Volts

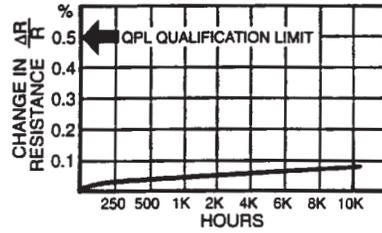
- (1) Minimum resistance range at 0.1% tolerance is 100ohms.
- (2) +/- 0.05% limited availability - consult factory



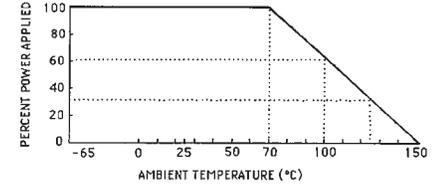
### ENVIRONMENTAL PERFORMANCE (3)

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 0705 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

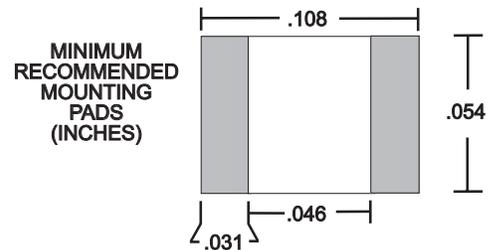
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

### MECHANICAL

	INCHES	MILLIMETERS
Length	.078 (.076 - .084)	1.98 (1.93 - 2.13)
Width	.048 (.046 - .054)	1.22 (1.17 - 1.37)
Thickness	.017 (.013 - .023)	0.38 (0.33 - 0.58)
Top Term	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.050 (.046 - .054)	1.27 (1.17 - 1.37)
Approx. Weight	0.0021 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](http://www.resistor.com)

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