

# State of the Art, Inc. 0705 Thin Film Chip Resistor

ENCAPSULANT
PRECISION
THIN FILM
WRAPAROUND
TERMINATIONS
99.6% ALUMINA

**PROTECTIVE** 

Standard Grade, Wraparound

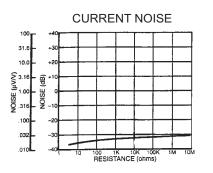
### PERFORMANCE CHARACTERISTICS

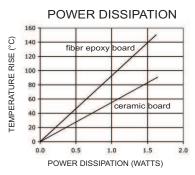
Resistance Range(1) Tolerances (2) TCR Thermal Resistance Maximum Power Maximum Voltage  $\begin{array}{c} 5.6\Omega-1M\Omega \\ 0.1\%,\,0.25\%,\,0.5\%,1\%,\,2\%,\,5\% \\ \pm25,\,\pm50,\,\pm100\;\text{ppm} \\ 61.4^{\circ}\text{C/W} \\ 200\;\text{mW} \\ 50\;\text{Volts} \end{array}$ 

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

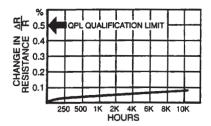
#### **ENVIRONMENTAL PERFORMANCE (3)**

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

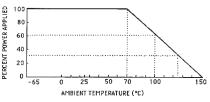




#### TYPICAL LIFE TEST PERFORMANCE







# 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

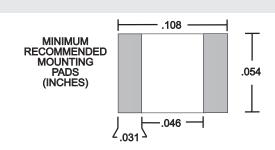
TERMINATION TYPE: C: Wraparound termination

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) (.013 - .023) 0.38 (0.33 - 0.58) Thickness Top Term .015 (.010 - .020) 0.38 (0.25 - 0.51).014 (.010 - .020) 0.36 .050 (.046 - .054) 1.27 (0.25 - 0.51) **Bottom Term** Gap Approx. Weight 0.0021 grams



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<sup>&</sup>quot;Specifications subject to change without notice."