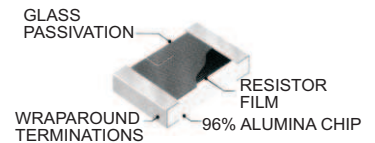




State of the Art, Inc.

0705 Thick Film Chip Resistor

Standard Grade, Wraparound



PERFORMANCE CHARACTERISTICS

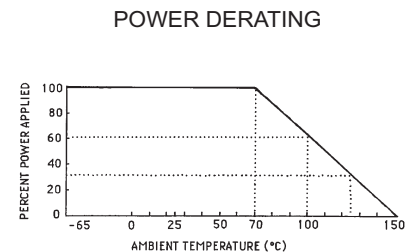
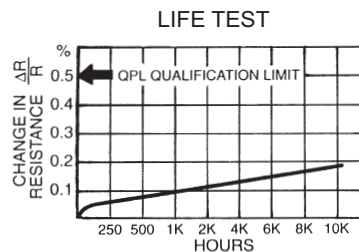
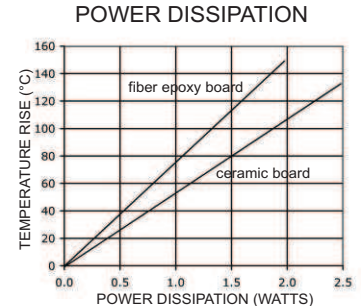
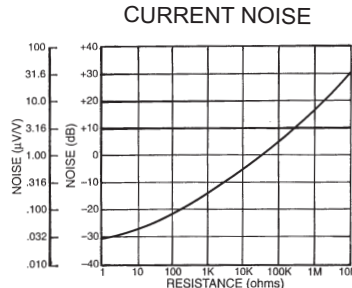
Resistance Range	1 Ω - 40M Ω
Tolerances (1)	0.5%, 1%, 2%, 5%, 10%
TCR	± 100 , ± 200 , ± 300 ppm
Thermal Resistance	62.9°C/W
Maximum Power	200 mW
Maximum Voltage	50 Volts

(1) +/- 0.5% limited availability

ENVIRONMENTAL PERFORMANCE (2)

Thermal Shock	$\pm 0.03\%$
Low Temperature Operation	$\pm 0.03\%$
Short-time Overload	$\pm 0.03\%$
Resistance to Bonding Exposure	$\pm 0.03\%$
Moisture Resistance	$\pm 0.05\%$
High Temperature Exposure	$\pm 0.05\%$
Life Test	See Chart

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



PART NUMBERING

S 0705 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)

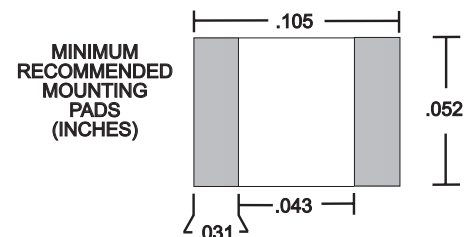
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

MECHANICAL

	INCHES	MILLIMETERS
Length	.075 (.074 - .083)	1.91 (1.88 - 2.11)
Width	.048 (.046 - .054)	1.22 (1.17 - 1.37)
Thickness	.018 (.015 - .023)	0.46 (0.38 - 0.58)
Top Term	.012 (.008 - .024)	0.31 (0.20 - 0.61)
Bottom Term	.014 (.010 - .020)	0.36 (0.25 - 0.51)
Gap	.047 (.043 - .051)	1.19 (1.09 - 1.30)
Approx. Weight	.00405 grams	



Specifications subject to change without notice.

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02/08/08