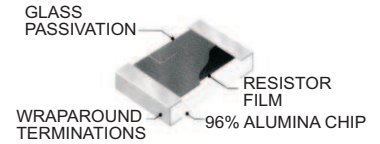




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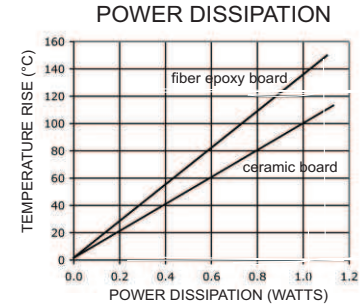
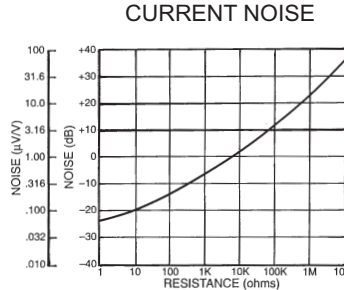
## 0302 Thick Film Chip Resistor

Standard Grade, Wraparound



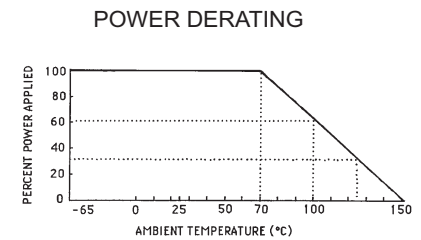
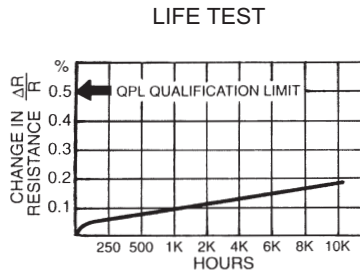
### PERFORMANCE CHARACTERISTICS

Resistance Range	1Ω - 10MΩ
Tolerances (1)	1%, 2%, 5%, 10%
TCR	±100, ±200, ±300 ppm
Thermal Resistance	67.7°C/W
Maximum Power	40 mW
Maximum Voltage	15 Volts



### ENVIRONMENTAL PERFORMANCE (1)

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



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

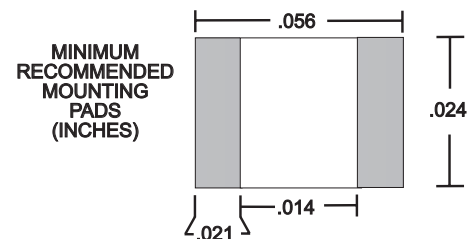
### PART NUMBERING

**S 0302 C P X 150 J 20 - W**

PACKAGING CODE: 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)
PRODUCT DESIGNATION: P: Thick 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	.032 (.030 - .038)	0.81 (0.76 - 0.97)
Width	.022 (.020 - .024)	0.56 (0.51 - 0.61)
Thickness	.015 (.010 - .020)	0.38 (0.25 - 0.51)
Top Term	.005 (.002 - .012)	0.13 (0.05 - 0.31)
Bottom Term	.008 (.003 - .013)	0.20 (0.08 - 0.33)
Gap	.016 (.012 - .020)	0.41 (0.31 - 0.51)
Approx. Weight	.00069 grams	



\*Specifications subject to change without notice.\*

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