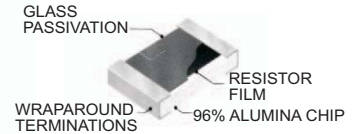




# State of the Art, Inc.

## 2512 High Voltage Chip Resistor

Thick Film, Solderable, Surface Mount Resistor



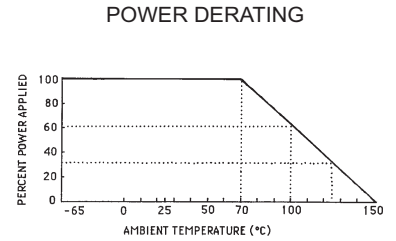
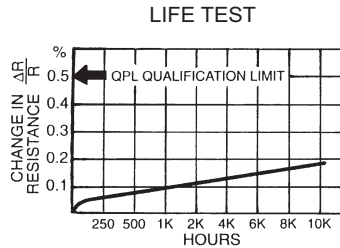
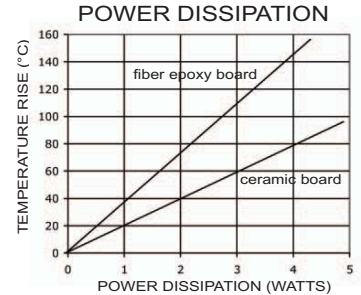
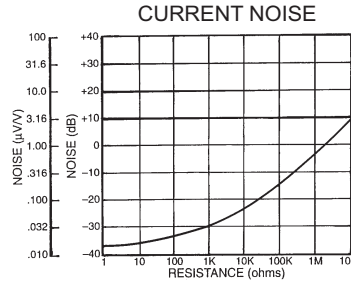
### PERFORMANCE CHARACTERISTICS

Resistance Range	22 kΩ - 100 MΩ
Tolerance	±1%, ±2%, ±5%, ±10%
TCR	±100, ±200, ±300 ppm/°C
Thermal Resistance	44.5 °C/W
Maximum Power	1.5 W
Maximum Voltage	1200 V

### ENVIRONMENTAL PERFORMANCE (2)

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

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



### PART NUMBERING

#### S2512CVX1006F30 -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 (40% Pb) Solder Over Nickel Barrier, Y: Silver Over Nickel Barrier (RoHS)

PRODUCT DESIGNATION: V: High Voltage

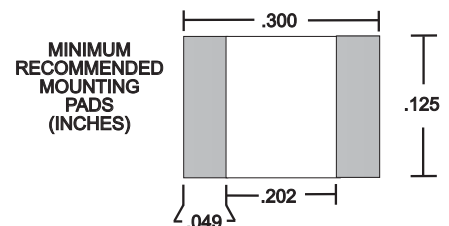
TERMINATION TYPE: C: Wraparound termination

SIZE CODE

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

### MECHANICAL

	INCHES	MILLIMETERS
Length	.250 (.250 - .258)	6.35 (6.35 - 6.55)
Width	.119 (.119 - .125)	3.02 (3.02 - 3.18)
Thickness	.028 (.023 - .033)	0.71 (0.58 - 0.84)
Top Term	.020 (.015 - .025)	0.51 (0.38 - 0.64)
Bottom Term	.019 (.015 - .025)	0.48 (0.38 - 0.64)
Gap	.212 (.208 - .216)	5.39 (5.28 - 5.49)
Approx. Weight	.0513 grams	



\*Specifications subject to change without notice.\*