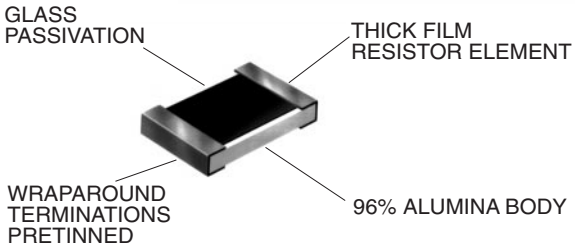
State of the Art, Inc.

HIGH VOLTAGE Chip Resistor

2512 Size, Surface Mount, Solderable



FEATURES

- Tolerances to ± 1%
- Operating temperature range : -55° C to +150° C
- Pretinned (Sn60) nickel barrier terminations
- TCR's to ± 100 ppm
- Made with the same materials and process as our MIL-PRF-55342 "S" level qualified chips
- Suitable for solder reflow, vapor phase, or wave solder attachment

PERFORMANCE CHARACTERISTICS

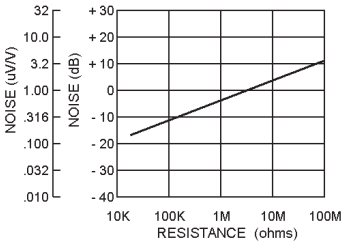
Resistance Range	20KΩ – 100MΩ
Tolerances	1%, 2%, 5%, 10%, 20%
Maximum Power	2000 mW
Maximum Voltage	1200 Volts

ENVIRONMENTAL PERFORMANCE (*)

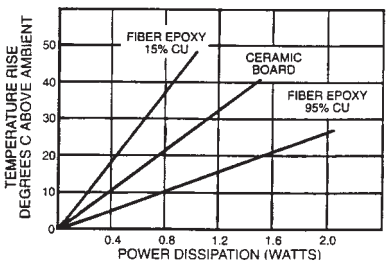
TCR (-55 to +125 °C in ppm/°C)	< 100 ppm
Thermal Shock	±0.03%
Low Temperature Operation	±0.03%
Short-time Overload	±0.03%
Resistance to Bonding Exposure	±0.03%
Moisture Resistance	±0.05%
High Temperature Exposure	±0.05%
Life	See Chart

(*)Typical resistance change, the maximum is the same as MIL-PRF-55342. Test methods are per Mil-PRF-55342.

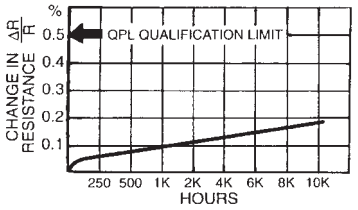
CURRENT NOISE INDEX



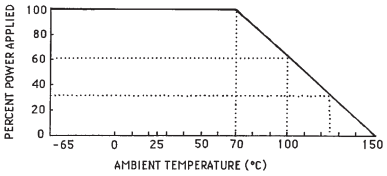
POWER DISSIPATION



TYPICAL LIFE TEST PERFORMANCE



POWER DERATING



PART NUMBERING

S2512CVX 105 J 20

TCR
10: ±100 ppm 20: ±200 ppm 30: ±300 ppm

TOLERANCES
F: 1% G: 2% J: 5% K:10% M: 20%

RESISTANCE VALUE
Three digits are used with all leading digits significant. The last digit specifies the number of zeros to add.

MECHANICAL

	INCHES	MM
Length	.250 (+.010/-.005)	6.35 (+.25/-.13)
Width	.125 (+.008/-.005)	3.18 (+.20/-.13)
Thickness	.025 - .032	.64 - .81
Top Term.	.015 - .040	.38 - 1.02
Bottom Term.	.015 - .040	.38 - 1.02

Approx. Weight .051 grams

Solderability: Solder coating compatible with Sn60, 62 or 63 solders, provides good wetting with all types of solder attachment. All product is tested IAW Mil-Std-202, method 208, including 8 hour steam aging.

PACKAGING

Three packaging options are available:

- Bulk Packaging - (900 per Bag Max.)
- Waffle Pack - (45 per Tray Max.)
- Tape & Reel - (1800 per Reel Max.)

OPTIONS

SOTA offers a full line of component parts in the 2512 size including Military (MIL-PRF-55342 "S" level) and High-Reliability (customer specified testing). Available options are epoxy bondable and wire bondable terminations, custom part marking, and untrimmed resistors.

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06/24/98

Where Quality Isn't a Goal...It's Our Tradition