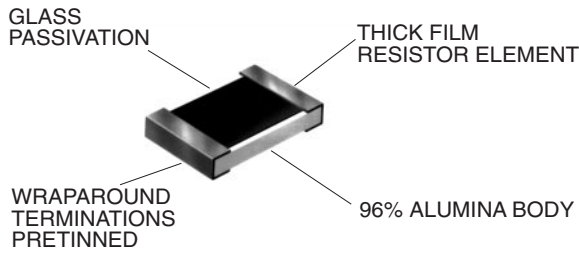


State of the Art, Inc.

HIGH VOLTAGE Chip Resistor

2010 Size, Surface Mount, Solderable



FEATURES

- Tolerances to $\pm 1\%$
- Operating temperature range : -55°C to $+150^{\circ}\text{C}$
- 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

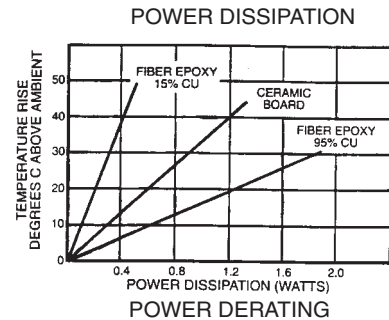
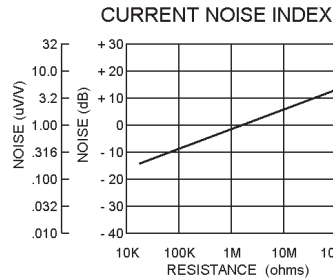
PERFORMANCE CHARACTERISTICS

Resistance Range	22K Ω – 100M Ω
Tolerances	1%, 2%, 5%, 10%, 20%
Maximum Power	1000 mW
Maximum Voltage	600 Volts

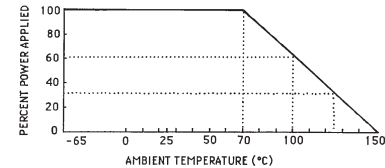
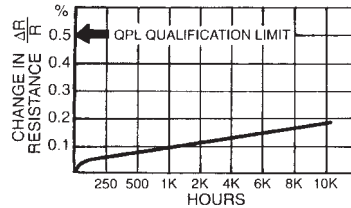
ENVIRONMENTAL PERFORMANCE (*)

TCR (-55 to $+125^{\circ}\text{C}$ in ppm/ $^{\circ}\text{C}$)	< 100 ppm
Thermal Shock	$\pm 0.03\%$
Low Temperature Operation	$\pm 0.02\%$
Short-time Overload	$\pm 0.02\%$
Resistance to Bonding Exposure	$\pm 0.03\%$
Moisture Resistance	$\pm 0.05\%$
High Temperature Exposure	$\pm 0.05\%$
Life	See Chart

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

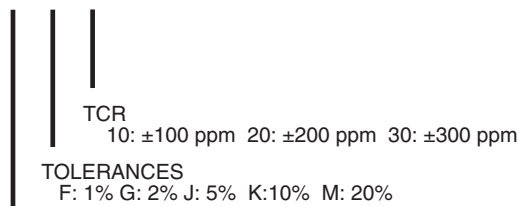


TYPICAL LIFE TEST PERFORMANCE



PART NUMBERING

S2010CVX 105 J 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	.200 (+.010/-.005)	5.08 (+.25/-.13)
Width	.100 (+.008/-.005)	2.54 (+.20/-.13)
Thickness	.025 - .032	.64 - .81
Top Term.	.015 - .040	.38 - 1.02
Bottom Term.	.015 - .040	.38 - 1.02

Approx. Weight .032 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 - (1400 per Bag Max.)
- Waffle Pack - (60 per Tray Max.)
- Tape & Reel - (4000 per Reel Max.)

OPTIONS

SOTA offers a full line of component parts in the 2010 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.

STATE OF THE ART, INC. 2470 Fox Hill Road, State College, PA 16803-1797
Phone (814) 355-8004 Fax (814) 355-2714 Toll Free 1-800-458-3401

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

06/23/98