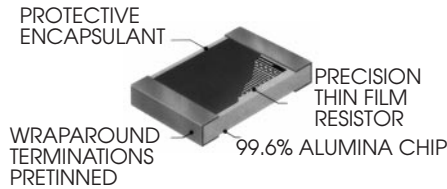




State of the Art, Inc.

1206 Thin Film Chip Resistor

Standard Grade, Surface Mount, Solderable



FEATURES

- Tolerances to $\pm 0.1\%$
- Operating temperature range : -55°C to $+150^{\circ}\text{C}$
- Pretinned (Sn60) nickel barrier terminations
- TCR's to ± 25 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

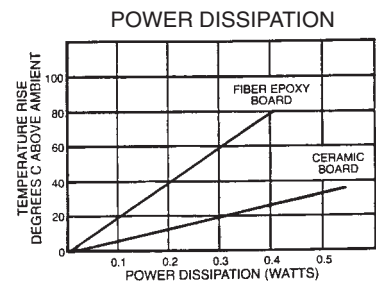
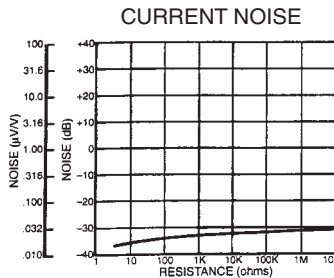
PERFORMANCE CHARACTERISTICS

Resistance Range (1)	$5\Omega - 1.5\text{M}\Omega$
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%
Maximum Power	300 mW
Maximum Voltage	100 Volts

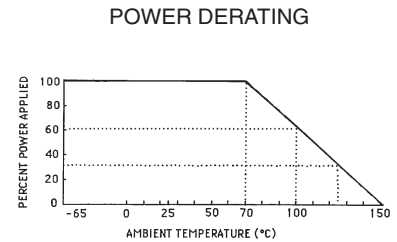
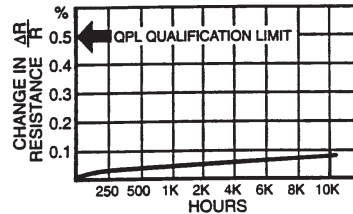
ENVIRONMENTAL PERFORMANCE (3)

TCR (-55 to $+125^{\circ}\text{C}$ in ppm/ $^{\circ}\text{C}$)	< 25 ppm
Thermal Shock	$\pm 0.02\%$
Low Temperature Operation	$\pm 0.02\%$
Short-time Overload	$\pm 0.02\%$
Resistance to Bonding Exposure	$\pm 0.02\%$
Moisture Resistance	$\pm 0.03\%$
High Temperature Exposure	$\pm 0.03\%$
Life	See Chart

- (1) SOTA offers milliohm and high megohm resistors with excellent performance.
- (2) $\pm 0.5\%$ in limited availability
- (3) Typical resistance change, the maximum is the same as MIL-PRF-55342. Test methods are per MIL-PRF-55342.

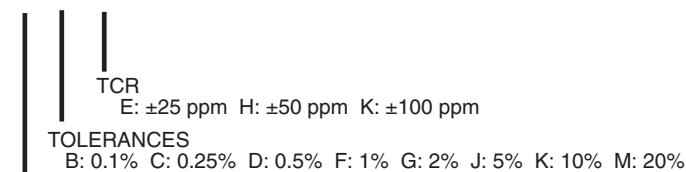


TYPICAL LIFE TEST PERFORMANCE



PART NUMBERING

S1206CA 150 J H B



MECHANICAL

	INCHES	MM
Length	.125 (+.007/- .007)	3.18 (+.17/- .17)
Width	.060 (+.008/- .002)	1.52 (+.20/- .05)
Thickness	.015 - .020	.38 - .51
Top Term.	.009 - .019	.23 - .48
Bottom Term.	.010 - .030	.25 - .76

Approx. Weight .0088 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 - (5000 per Bag Max.)
- Waffle Pack - (140 per Tray Max.)
- Tape & Reel - (5000 per Reel Max.)

OPTIONS

SOTA offers a full line of component parts in the 1206 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

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10/01/97

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