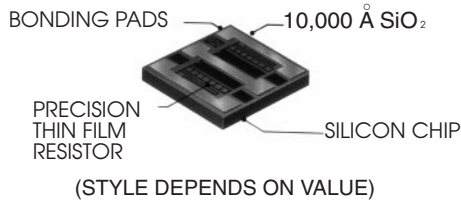


State of the Art, Inc.

0303 Thin Film On Silicon Resistor

Surface Mount, Top-Side Termination/Bottom Isolated



FEATURES

- Tolerances to $\pm 0.1\%$
- Operating temperature range : -55°C to $+150^{\circ}\text{C}$
- For high-density hybrid circuits where space is at a premium.
- TCR's to ± 25 ppm
- Delivers greater power handling capability and lighter weight for the size than chips constructed on alumina.

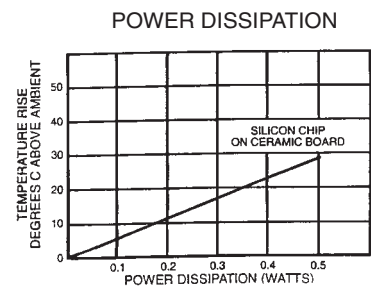
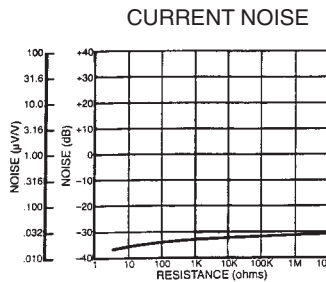
PERFORMANCE CHARACTERISTICS

Resistance Range (1)	$5\Omega - 1M\Omega$
Tolerances (2)	0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%
Maximum Power	250 mW
Maximum Voltage	100 Volts

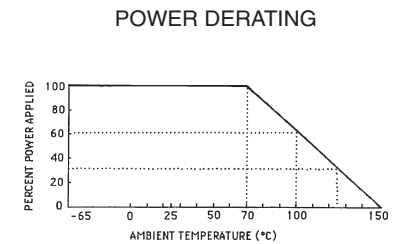
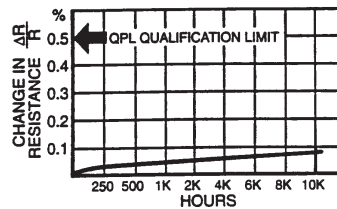
ENVIRONMENTAL PERFORMANCE

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	$\pm 0.03\%$
Moisture Resistance	$\pm 0.05\%$
High Temperature Exposure	$\pm 0.05\%$
Life	See Chart

- (1) Minimum resistance range at 0.1% tolerance is 100 ohms.
 (2) $\pm 0.05\%$ in limited availability - consult factory

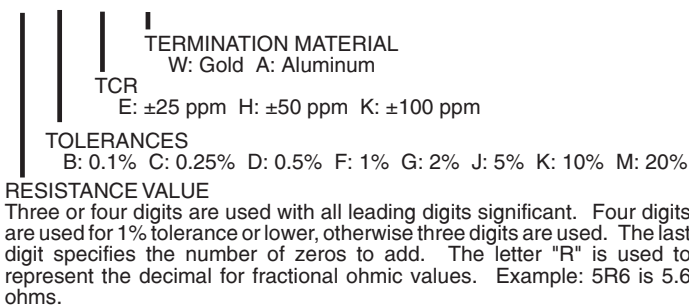


TYPICAL LIFE TEST PERFORMANCE



MECHANICAL

S0303AS 150 J H W



	INCHES	MM
Length	.030 (+.002/- .002)	.76 (+.05/- .05)
Width	.030 (+.002/- .002)	.76 (+.05/- .05)
Thickness	.009 - .012	.23 - .30
Termination	.004 - .006	.10 - .15

Approx. Weight .00042 grams

PACKAGING

Silicon chips are only packaged in waffle pack at a maximum of 400 per tray.

OPTIONS

SOTA offers a full line of component parts in the 0303 size including termination style D (top-side termination with isolated metalized bottom) and style F (Back Contact Resistor - BCR). Also offered are multi-tap and center-tap configurations.

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