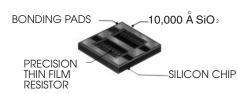
State of the Art, Inc. 0404 Thin Film On Silicon Resistor Surface Mount, Top-Side Termination/Bottom Isolated



(STYLE DEPENDS ON VALUE)

FEATURES

- Tolerances to ±0.1%
- · Operating temperature range : -55□C to +150□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

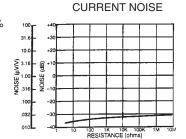
Resistance Range (1) Tolerances (2) 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% 350 mW Maximum Power Maximum Voltage 100 Volts

ENVIRONMENTAL PERFORMANCE

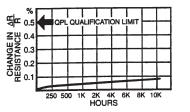
TCR (-55 to +125 □C in ppm/□C) < 25 ppm Thermal Shock ±0.02% Low Temperature Operation ±0.02% Short-time Overload ±0.02% Resistance to Bonding Exposure ±0.03% Moisture Resistance ±0.05% High Temperature Exposure ±0.05%

(1) Minimum resistance range at 0.1% tolerance is 100 ohms.

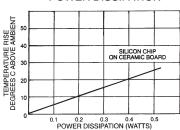
(2) ±0.05% in limited availability - consult factory



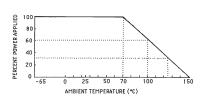
TYPICAL LIFE TEST PERFORMANCE



POWER DISSIPATION



POWER DERATING



S0404AS 150 J H W

TERMINATION MATERIAL W: Gold A: Aluminum TCR E: ±25 ppm H: ±50 ppm K: ±100 ppm

TOLERANCES B: 0.1% C: 0.25% D: 0.5% F: 1% G: 2% J: 5% K: 10% M: 20%

RESISTANCE VALUE

Three or four digits are used with all leading digits significant. Four digits are used for 1% tolerance or lower, otherwise three digits are used. 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

MECHANICAL

INCHES .040 (+.002/-.002) .040 (+.002/-.002) 1.02 (+.05/-.05) 1.02 (+.05/-.05) Length Width Thickness .009 - .012 .23 - .30 Termination .004 - .006 .10 - .15

Approx. Weight .00074 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 0404 size including termination style D (top-side termination with isolated metalized bottom) and style F (Back Contact Resistor - BCR). Also offered in 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