

(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

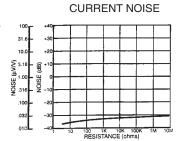
Resistance Range (1) Tolerances (2) 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% 500 mW Maximum Power Maximum Voltage 100 Volts

ENVIRONMENTAL PERFORMANCE

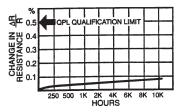
TCR (-55 to +125 □C in ppm/□C) < 25 ppm Thermal Shock ±0.02% Low Temperature Operation ±0.02% Short-time Overload ±0.02% Resistance to Bonding Exposure ±0.03% Moisture Resistance ±0.05% High Temperature Exposure ±0.05%

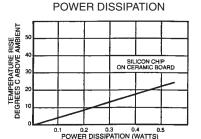
(1) Minimum resistance range at 0.1% tolerance is 100 ohms. (2) ±0.05% in limited availability - consult factory

See Chart

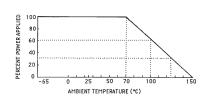


TYPICAL LIFE TEST PERFORMANCE





POWER DERATING



S0505AS 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

	<u>INCHES</u>	MM
Length	.050 (+.002/002)	1.27 (+.05/05)
Width	.050 (+.002/002)	1.27 (+.05/05)
Thickness	.009 -`.012	.2330
Termination	.004012	.1030

Approx. Weight .0011 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 0505 size including termination style D (top-side termination with isolated metalized bottom) and style F (Back Contact Resistor - BCR).

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