State of the Art, Inc. 0303 Thin Film Chip Resistor

Standard Grade, Surface Mount





Tolerances to ± 0.1%

2K 4K HOURS

6K 8K 108

250 500 1K

- · Operating temperature range :
- -55° C to +150° C · For high-density hybrid circuits
- where space is at a premium

FEATURES

- TCR's to ± 25 ppm
- · Made with the same materials and process as our MIL-PRF-55342 "S" level qualified chips
- · Delivers greater power handling capability with lighter weight construction

99.6% ALUMINA CHIP

PERFORMANCE CHARACTERISTICS

Resistance Range
Tolerances
Maximum Power
Maximum Voltage

 $5\Omega - 100 \text{K}\Omega$ 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% 50 mW 30 Volts

ENVIRONMENTAL PERFORMANCE (1)

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

PART NUMBERING

S0303AA 150 J H W

Termination Material W: Gold B: Pretinned Solder over Nickle 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

ohms.

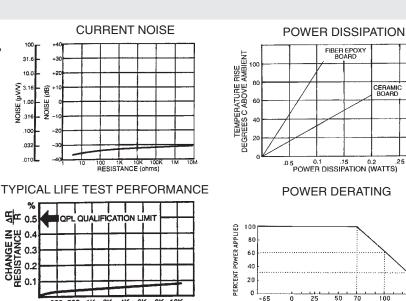
Substrate Matieral A: Alumina Ceramic

Termination Style A: Top sided with Bottom Isoulated C: Wraparound

PACKAGING

Two packaging options are available:

- Bulk Packaging (5000 per Bag Max.) Waffle Pack (400 per Tray Max.)



MECHANICAL

	INCHES	MM
Length	.030 (+.002/002)	.76 (+.05/05) .76 (+.05/05)
Width	.030 (+.002/002)	.76 (+.05/05)
Thickness	.009011	.2327 (
Top Term.	.004006	.1015

AMBIENT TEMPERATURE (*C)

-65

Approx. Weight .00073 grams

All product is tested IAW Mil-Std-202, method 208, including 8 hour steam aging.

OPTIONS

SOTA offers a full line of component parts in the 0303 size including High-Reliability (customer specified testing). Available options are epoxy bondable and wire bondable terminations, and custom part marking.

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