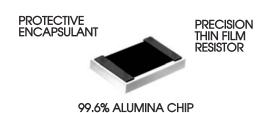


Standard Grade, Surface Mount



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
- · 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

PERFORMANCE CHARACTERISTICS

Resistance Range Tolerances Maximum Power Maximum Voltage

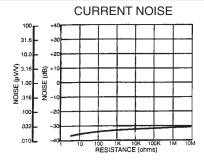
 $5\Omega - 100K\Omega$ 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10% 50 mW

30 Volts

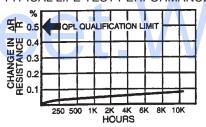
ENVIRONMENTAL PERFORMANCE (1)

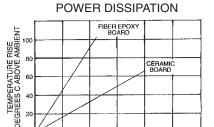
TCR (-55 to +125 °C in ppm/°C)	< 25 ppm
Thermal Shock	±0.02%
Low Temperature Operation	±0.02%
Short-time Overload	±0.02%
Resistance to Bonding Exposure	±0.02%
Moisture Resistance	±0.03%
High Temperature Exposure	±0.03%
Life	See Chart

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



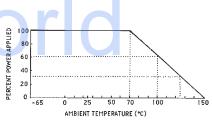






POWER DERATING

.0.5 0.1 .15 0.2 .25 POWER DISSIPATION (WATTS)



PART NUMBERING

S0303AA 150 J H W

Termination Material W: Gold B: Pretinned Solder over Nickle 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

<u>INCHES</u> MM	
Length .030 (+.002/002) .76 (+.0	05/05)
Width .030 (+.002/002) .76 (+.0	05/05) 05/05)
Thickness .009011 .232	
Top Term004006 .101	5

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