



State of the Art, Inc.

0303 Thin Film Chip Resistor

Standard Grade, Surface Mount

PROTECTIVE
ENCAPSULANT



99.6% ALUMINA CHIP

PRECISION
THIN FILM
RESISTOR

FEATURES

- Tolerances to $\pm 0.1\%$
- 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

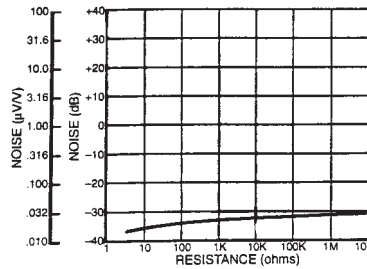
Resistance Range $5\Omega - 100K\Omega$
 Tolerances 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%
 Maximum Power 50 mW
 Maximum Voltage 30 Volts

ENVIRONMENTAL PERFORMANCE (1)

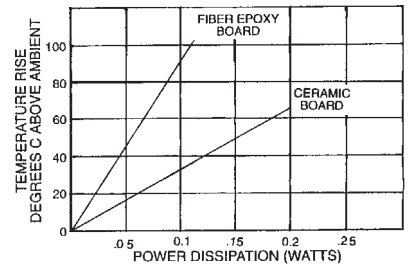
TCR (-55 to +125 °C in ppm/°C) < 25 ppm
 Thermal Shock $\pm 0.02\%$
 Low Temperature Operation $\pm 0.02\%$
 Short-time Overload $\pm 0.02\%$
 Resistance to Bonding Exposure $\pm 0.02\%$
 Moisture Resistance $\pm 0.03\%$
 High Temperature Exposure $\pm 0.03\%$
 Life See Chart

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

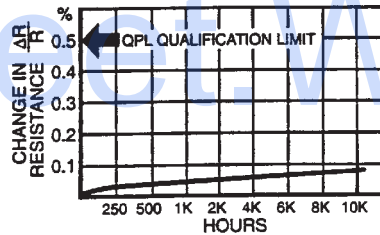
CURRENT NOISE



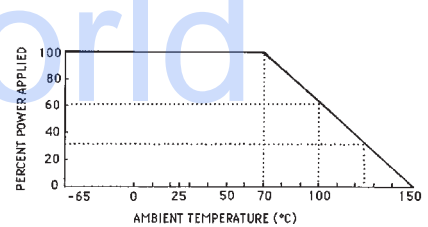
POWER DISSIPATION



TYPICAL LIFE TEST PERFORMANCE

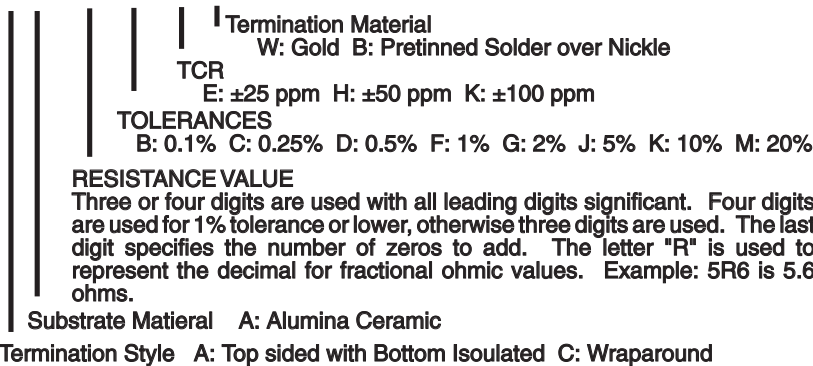


POWER DERATING



PART NUMBERING

S0303AA 150 J H W



MECHANICAL

	INCHES	MM
Length	.030 (+.002/-0.002)	.76 (+.05/-0.05)
Width	.030 (+.002/-0.002)	.76 (+.05/-0.05)
Thickness	.009 - .011	.23 - .27
Top Term.	.004 - .006	.10 - .15

Approx. Weight .00073 grams

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

PACKAGING

Two packaging options are available:

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

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.

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Where Quality Isn't a Goal...It's Our Tradition