State of the Art, Inc. M55342/03 Thick Film Chip Resistor 1005 Size. Surface Mount. Solderable

GLASS PASSIVATION RESISTOR FILM WRAPAROUND 96% ALUMINA CHIP TERMINATIONS PRETINNED

FEATURES

- Tolerances to ±1%
- · Operating temperature range :
- -55° C to +150° C
 Pretinned (Sn60) nickel barrier terminations
- TCR's to ± 100 ppm
- "S" level qualified manufacturer
- · Suitable for solder reflow, vapor phase, or wave solder attachment

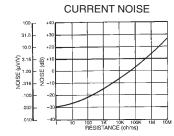
PERFORMANCE CHARACTERISTICS

Resistance Range 5.6Ω - $1M\Omega$ 1%, 2%, 5% 10% 50mW Tolerances Maximum Power Maximum Voltage 40 Volts

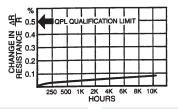
< 100 ppm TCR (-55 to +125 °C in ppm/°C) Thermal Shock ±0.03% ±0.02% Low Temperature Operation ±0.02% Short-time Overload Resistance to Bonding Exposure ±0.03% ±0.05% Moisture Resistance ±0.05% High Temperature Exposure See Chart

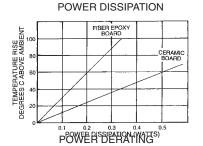
(1) Typical resistance change, the maximum is the same as MIL-PRF-55342. Test methods are per MIL-PRF-55342.

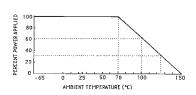
Solderability: Solder coating compatible with Sn60, 62 or 63 solders, provides good wetting with all types of solder attachment. All product is tested IAW Mil-Std-202, method 208, including 8 hour steam aging.





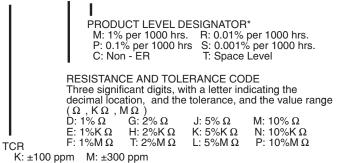






PART NUMBERING

M55342 K 03B 100D S



MECHANICAL

	INCHES	MM
Length	.105 (+.007/007)	2.67 (+.18/18)
Width	.050 (±.005)	1.27 (±.13)
Thickness	.015033	.3884
Top Term.	.010020	.2551
Bottom Term.	.010020	.2551

Approx. Weight .0054 grams

PRODUCT LEVELS

All product levels are based on the same design as our "S" level failure rate Established Reliability part. Level C is a Non-Established Reliability part requiring no group A, B or C testing. Established Reliability (failure rates based on life testing) product levels M,P,R and S are subject to group A, B and C testing per MIL-PRF-55342. Space product level T requires group A and B tests including 100% power conditioning.

PACKAGING

Two packaging options are available:

Waffle Pack - (170 per Tray Max.)

Tape & Reel - (5000 per 8" Inch Reel Max.)

OPTIONS

Termination type C & U (epoxy bondable), wraparound style, and type W (wire bondable) are available. Also available in thin film MIL-PRF-55342 characteristic E & H. SOTA offers a full line of component parts in the 1005 size including Standard Grade, High-Reliability (customer specified testing), and zeroohm jumpers. Custom part marking is available.

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