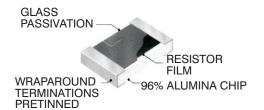
State of the Art, Inc. M55342/03 Thick Film Chip Resistor 1005 Size, Surface Mount, Solderable



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

 TCR (-55 to +125 °C in ppm/°C)
 < 100 ppm</td>

 Thermal Shock
 ±0.03%

 Low Temperature Operation
 ±0.02%

 Short-time Overload
 ±0.02%

 Resistance to Bonding Exposure
 ±0.03%

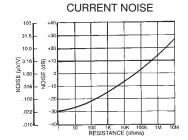
 Moisture Resistance
 ±0.05%

 High Temperature Exposure
 ±0.05%

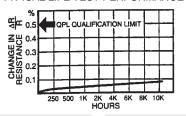
 Life
 See Chart

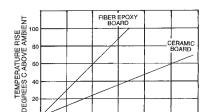
(1) Typical resistance change, the maximum is the same as MIL-PRF-55342. Test methods are per MIL-PRF-55342.

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.

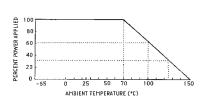


TYPICAL LIFE TEST PERFORMANCE





POWER DISSIPATION



POWER DERATING (WATTS)

PART NUMBERING

M55342 K 03B 100D S

PRODUCT LEVEL DESIGNATOR* M: 1% per 1000 hrs. R: 0.01% per 1000 hrs. P: 0.1% per 1000 hrs. S: 0.001% per 1000 hrs. C: Non - ER T: Space Level RESISTANCE AND TOLERANCE CODE Three significant digits, with a letter indicating the decimal location, and the tolerance, and the value range $(\Omega, K\Omega, M\Omega)$ Ď: 1′% Ω G: 2% Ω J: 5% Ω E: 1%K Ω Η: 2%Κ Ω K: 5%K Ω N: 10%K Ω T: 2%M Ω L: 5%M Ω P: 10%M Ω K: ±100 ppm M: ±300 ppm

MECHANICAL

	INCHES	MM
Length	.105 (+.007/007)	2.67 (+.18/18)
Width	.050 (±.005)	1.27 (±.13)
Thickness	.015 - `.033	.3884
Top Term.	.010020	.2551
Bottom Term.	.010020	.2551

Approx. Weight .0054 grams

PACKAGING

Two packaging options are available:

Waffle Pack - (170 per Tray Max.) Tape & Reel - (5000 per 8" Inch Reel Max.)

* 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.

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 zero-ohm jumpers. Custom part marking is available.

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

08/09/06