0705 Size, Surface Mount, Solderable

GLASS PASSIVATION

RESISTOR FII M WRAPAROUND 96% ALUMINA CHIP TERMINATIONS PRETINNED

### PERFORMANCE CHARACTERISTICS

Resistance Range	5.6Ω - 1ΜΩ
Tolerances	1%, 2%, 5% 10%
Maximum Power	100 mW
Maximum Voltage	50 Volts

#### **ENVIRONMENTAL PERFORMANCE (1)**

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

## PART NUMBERING

#### M55342 K 06B 100D S

	M: 1% P: 0.1	JCT LEVEL D per 1000 hrs % per 1000 h n - ER	. R: 0.01% rs S: 0.001%	per 1000 hrs. 6 per 1000 hrs.	
RESISTANCE AND TOLERANCE CODE Three significant digits, with a letter indicating the decimal location, and the tolerance, and the value range					
		G: 2% Ω	J: 5% Ω		
B		H: 2%K Ω T: 2%M Ω			
	pm M: ±300	) maa			

K: ±100 ppm M: ±300 ppm

# **PRODUCT LEVELS**

TC

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.

## **FEATURES**

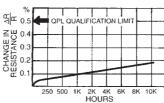
- Tolerances to ±1%
- Operating temperature range :

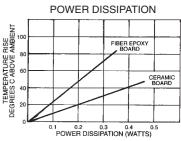
-55° C to +150° C • Pretinned (Sn60) nickel barrier terminations

- TCR's to ± 100 ppm
- "S" level qualified manufacturer
  Suitable for solder reflow, vapor
- phase, or wave solder attachment

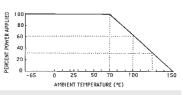
CURRENT NOISE 31.6 10. € 3.10 (gg 1.0 NOISE 31 .03

TYPICAL LIFE TEST PERFORMANCE





POWER DERATING



## MECHANICAL

	INCHES	MM
Length	.080 (+.006/006)	2.03 (+.15/15)
Width	.050 (±.005)	1.27 (±.13) Ó
Thickness	.015033	.3884
Top Term.	.010020	.2551
Bottom Term.	.010020	.2551

Approx. Weight .0045 grams

## 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 0705 size including Standard Grade, High-Reliability (customer specified testing), and zeroohm 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

05/17/99

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