

### **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

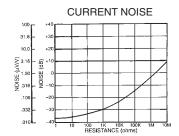
Resistance Range  $5.6\Omega$  -  $15M\Omega$  1%, 2%, 5% 10% Tolerances Maximum Power 1000 mW Maximum Voltage 200 Volts

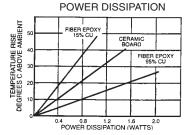
#### **ENVIRONMENTAL PERFORMANCE (1)**

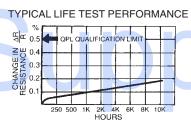
< 100 ppm TCR (-55 to +125  $^{\circ}$ C in ppm/ $^{\circ}$ C) Thermal Shock  $\pm 0.03\%$ Low Temperature Operation  $\pm 0.02\%$ ±0.02% Short-time Overload ±0.03% Resistance to Bonding Exposure ±0.05% Moisture Resistance ±0.05% High Temperature Exposure See Chart

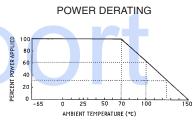
(1) Typical resistance change, the maximum is the same as MIL-PRF-55342. Test methods are per MIL-PRF-55342.

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.



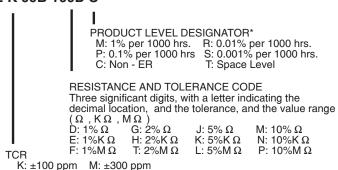






### PART NUMBERING

#### M55342 K 09B 100D S



# 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.

# **MECHANICAL**

	INCHES	MM
Length	.259 (+.009/009)	6.58 (+.23/23)
Width	.124 (±.005)	3.15 (±.13)
Thickness	.015 -`.033 ´	.3884
Top Term.	.015025	.3864
Bottom Term.	.015025	.3864

Approx. Weight .0513 grams

#### PACKAGING

Two packaging options are available:

Waffle Pack - (45 per Tray Max.) Tape & Reel - (1800 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 2512 size including Standard Grade, High-Reliability (customer specified testing), and zeroohm jumpers. Custom part marking is available.

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