



**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** SMT372503ALN2F

**DESCRIPTION:** SURFACE MOUNT TERMINATION, ALUMINUM NITRIDE, LEAD FREE

**ASSEMBLY DWG:** SMT372503ALN2F

**1.0 SPECIFICATIONS:**

1.1 ELECTRICAL:

1.1.1 IMPEDANCE: 50Ω NOMINAL.

1.1.2 FREQUENCY: DC – 2.2 GHZ.

1.1.3 VSWR: 1.2:1 MAX

1.1.4 INPUT POWER:

1.1.4.1 200 WATTS. CHIP SOLDERED TO MOUNTING SURFACE. MOUNTING SURFACE TEMPERATURE MAINTAINED AT 100°C MAXIMUM. APPLY LINEAR DE-RATING OF INPUT POWER TO 0 WATTS AT 200°C.

1.2 MECHANICAL:

1.2.1 OUTLINE DWG: SEE SHEET 2.

1.2.2 WORKMANSHIP: PER MIL-PRF-55342

1.3 ENVIRONMENTAL:

1.3.1 TEMPERATURE RANGE:

1.3.1.1 NON-OPERATING: -55 °C TO +200 °C.

1.3.1.2 OPERATING: -55 °C TO +200 °C.

**2.0 UNIT MARKING:** NONE.

**3.0 QUALITY ASSURANCE:**

3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.

3.1.1 VISUAL AND MECHANICAL PER 824W154.

3.1.2 DC RESISTANCE: 50Ω ± 2%.

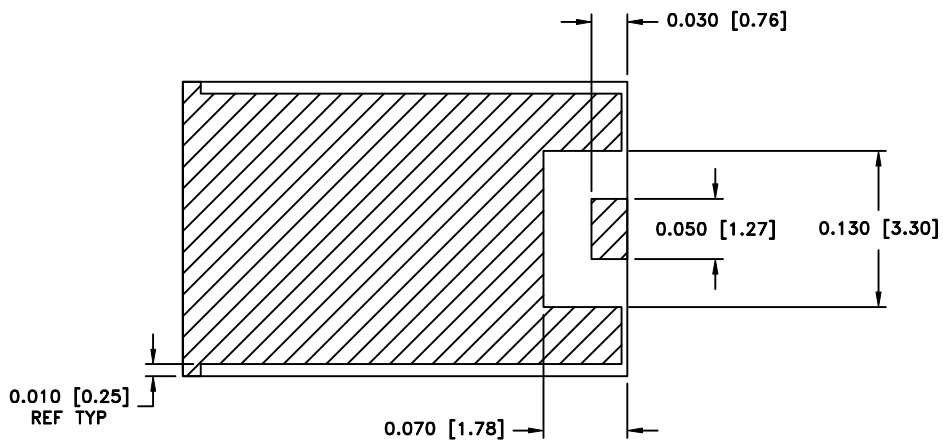
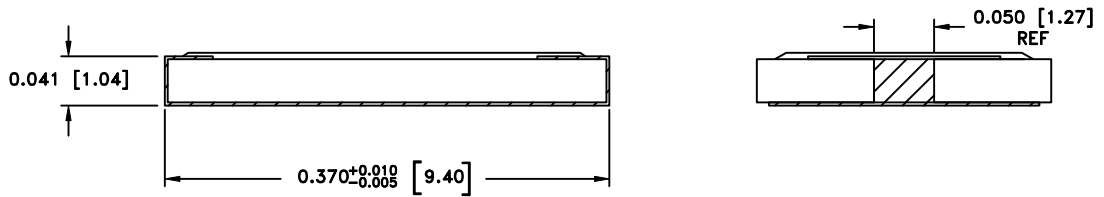
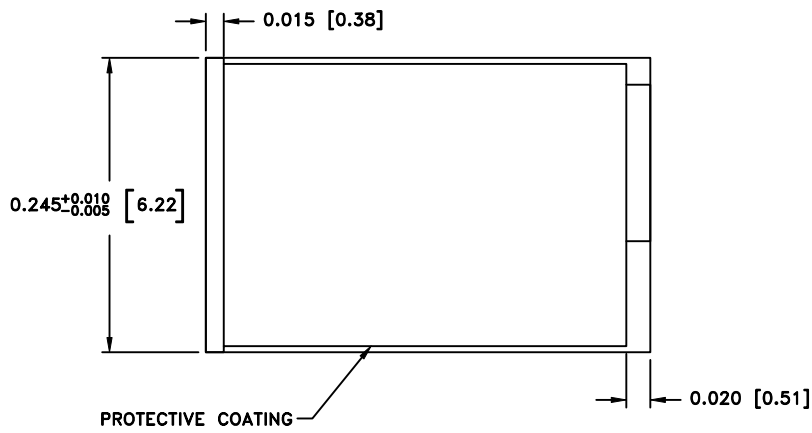
3.2 DATA REQUIREMENTS:

3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.

3.2.2 DATA RETENTION – 24 MONTHS.

**4.0 PACKAGING:** STANDARD PACK PER 755W002.

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	SMT372503ALN2F	
	<b>CHANGE NOTICE</b>	EN 10-1334	<b>REV LVL</b>	-	
			<b>SHEET</b>	1 OF 2	

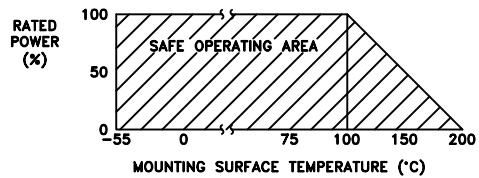


**MECHANICAL SPECIFICATIONS**

SUBSTRATE:  
 MATERIAL - ALUMINUM NITRIDE, MIL-I-10.  
 TERMINALS:  
 MATERIAL - THICK FILM, LEAD FREE PLATING.  
 ROHS COMPLIANT.  
 RESIST:  
 MATERIAL - THICK FILM.

METRIC EQUIVALENTS GIVEN IN [mm]  
 ARE FOR REFERENCE INFORMATION ONLY

**POWER RATING AND DERATING**



8851 SW OLD KANSAS AVE  
 STUART, FL 34997  
 PHONE NO. (772)286-9300  
 FAX NO. (772)283-5286

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
**TOLERANCES**  
 FRACT ---  
 ANG ---  
 XX ---  
 XXX ±0.005  
 XXXX ---

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CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	10:1	JG 11/22/10		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
-	EN 10-1334	SMT372503ALN2F	2 OF 2	