

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** CT3725ALNF

**DESCRIPTION:** HIGH POWER CHIP TERMINATION, ALUMINUM NITRIDE, LEAD FREE

**ASSEMBLY DWG:** 1102074

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
  - 1.1.2 FREQUENCY: DC - 2 GHZ.
  - 1.1.3 VSWR: 1.25:1 MAX.
  - 1.1.4 INPUT POWER:
    - 1.1.4.1 HEAT SINK 100°C: 150 WATTS (DERATE POWER LINEARLY TO 0 WATTS @ 125°C).
- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 2.
  - 1.2.2 WORKMANSHIP: PER MIL-STD-454, REQUIREMENT 9.
- 1.3 ENVIRONMENTAL:
  - 1.3.1 TEMPERATURE RANGE:
    - 1.3.1.1 NON-OPERATING: -55°C TO +150°C.
    - 1.3.1.2 OPERATING: -55°C TO +125°C.

**2.0 UNIT MARKING:** NONE.

**3.0 QUALITY ASSURANCE:**

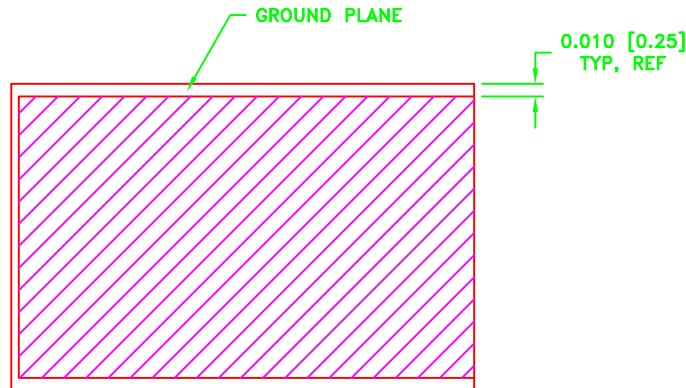
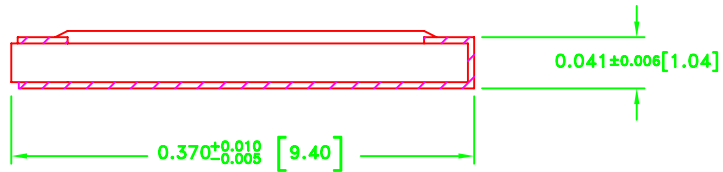
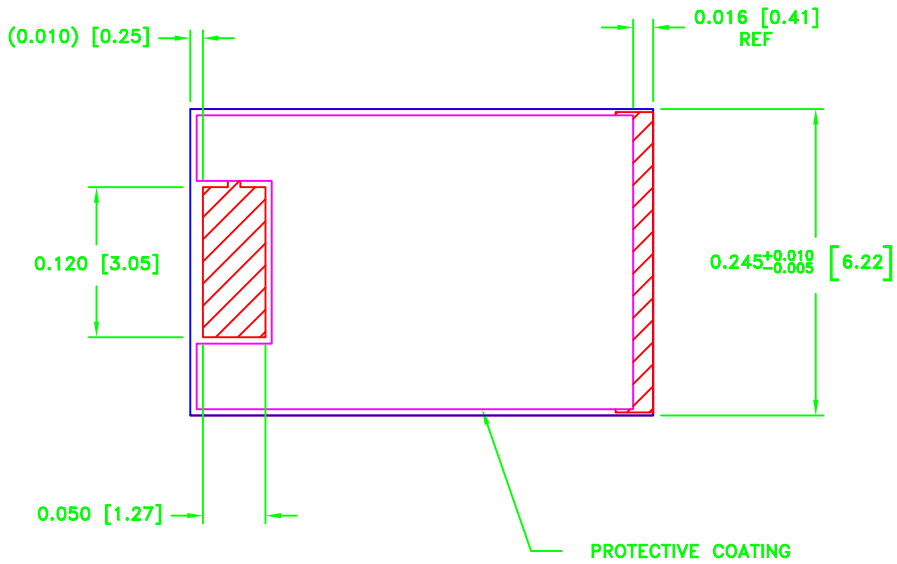
- 3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
  - 3.1.1 VISUAL AND MECHANICAL PER 824W154.
  - 3.1.2 DC RESISTANCE: 50Ω ± 5%.
- 3.2 DATA REQUIREMENTS:
  - 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.2.2 DATA RETENTION - STANDARD.

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

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1010715000
	<b>CHANGE NOTICE</b>	EN 09-E0887	<b>REV LVL</b>	D
			<b>SHEET</b>	1 OF 2

PART ID REF

CT3725ALNF



**MECHANICAL SPECIFICATIONS**

SUBSTRATE:  
 MATERIAL - ALUMINUM NITRIDE, MIL-I-10.  
 TERMINAL & GROUND PLANE:  
 MATERIAL - THICK FILM, LEAD FREE PLATING  
 ROHS COMPLIANT.  
 RESIST:  
 MATERIAL - THICK FILM.

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



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  $\pm 0.005$   
 XXXX --- ---

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CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	10:1	JG 9/2/09		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
D	EN 09-E0887	1010715000	2 OF 2	