

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** CT2525ALN

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

**ASSEMBLY DWG:** 1000484

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
  - 1.1.2 FREQUENCY: DC - 4 GHZ.
  - 1.1.3 VSWR: 1.35:1 MAX.
  - 1.1.4 INPUT POWER:
    - 1.1.4.1 HEAT SINK 100°C: 40 WATTS (DERATE POWER LINEARLY TO 0 WATTS @ 125°C).
- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 2.
- 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.

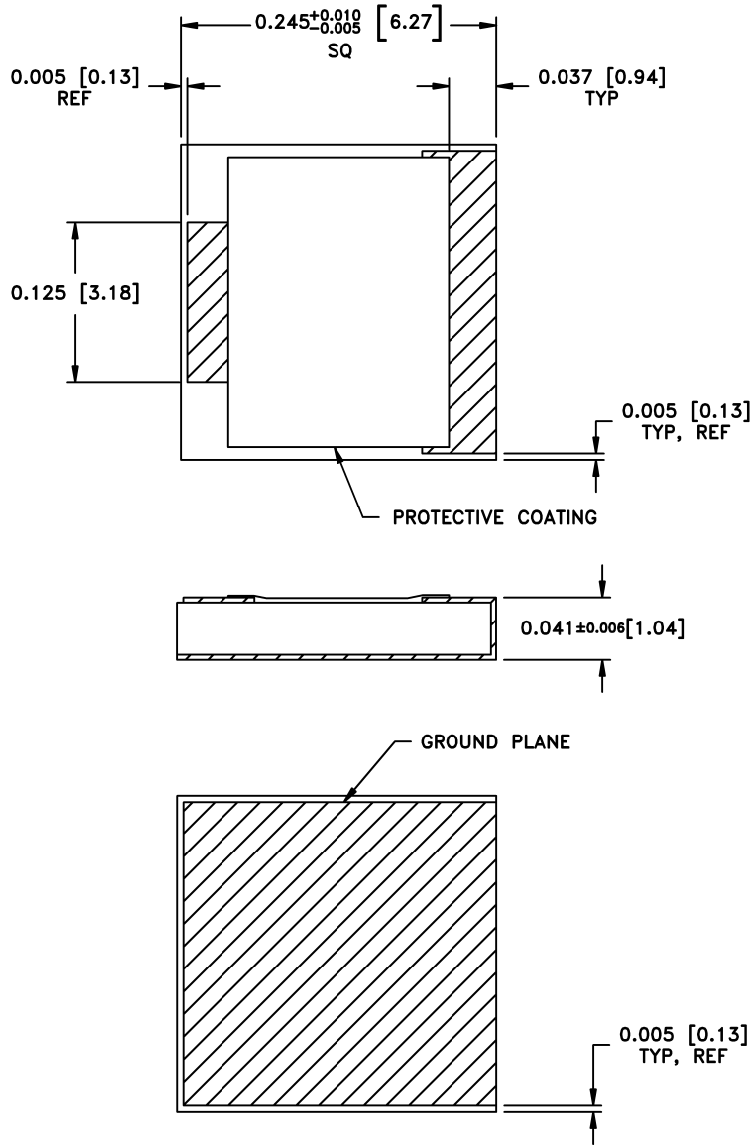
**3.0 QUALITY ASSURANCE:**

- 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 – 24 MONTHS.

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

<b>EMC TECHNOLOGY</b> <b>8851 SW OLD KANSAS AVE.</b> <b>STUART, FL 34997</b>	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1008795000
	<b>CHANGE NOTICE</b>	EN 08-E0399	<b>REV LVL</b>	K
			<b>SHEET</b>	1 OF 2

PART ID REF  
CT2525ALN

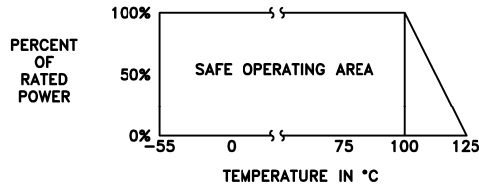


**MECHANICAL SPECIFICATIONS**

SUBSTRATE:  
MATERIAL - ALUMINUM NITRIDE, MIL-I-10.  
TERMINAL & GROUND PLANE:  
MATERIAL - THICK FILM, NICKEL BARRIER  
SOLDER PLATED.  
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 24602	SCALE 10:1	DRAWN BY JG 5/20/08	CHECKED BY	APPROVED BY
REV K	CHANGE NOTICE EN 08-E0399	DRAWING NO 1008795000	SHEET 2 OF 2	