

**TITLE: SPECIFICATION CONTROL DRAWING**  
**EMC PROPRIETARY**

<b>REVISIONS RECORD</b>			
<b>REV</b>	<b>SHEET</b>	<b>DATE</b>	<b>DESCRIPTION</b>
-	1-2	4/22/04	EN 04-E095, INITIAL RELEASE
-	1	10/8/04	EN 04-231, REMOVE SIGNATURE BLOCK, NO REV CHANGE
A	1-2	05/15/07	EN 07-E0486, UPDATE SCD FOR POWER RATING
B	1-2	5/27/08	EN 08-E0399, REMOVE IP AND MC DOCS AND REPLACE WITH NEW ISO DOCS

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>	<b>DWG# 1010145000</b>	<b>SHEET</b>	<b>REF</b>
			<b>REV LEVEL</b>	<b>B</b>

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** CT1206ALNF

**DESCRIPTION:** CHIP TERMINATION, ALUMINUM NITRIDE LEAD FREE PLATING

**ASSEMBLY DWG:** 1101664

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
  - 1.1.2 FREQUENCY: DC - 4 GHZ.
  - 1.1.3 VSWR: 1.25:1 MAX.
  - 1.1.4 INPUT POWER:
    - 1.1.4.1 HEAT SINK 100°C: 15 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.

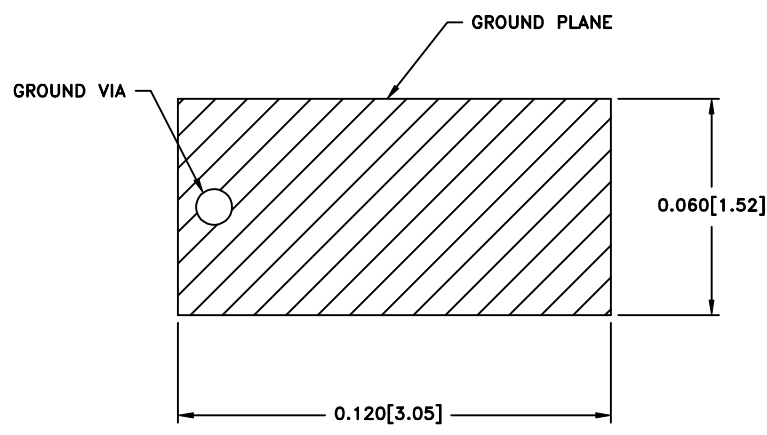
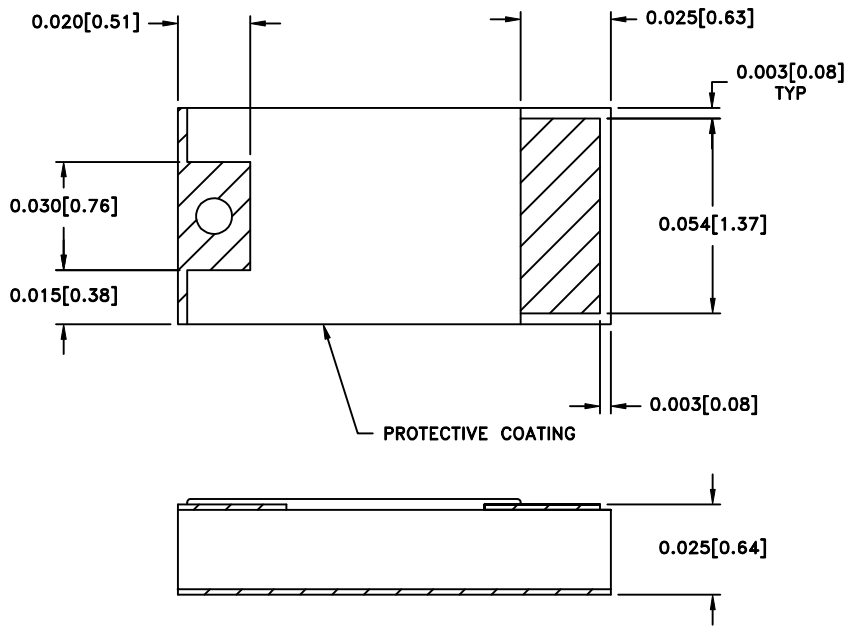
**3.0 QUALITY ASSURANCE:**

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

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

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	<b>CHANGE NOTICE</b>	EN 08-E0399	<b>REV LVL</b>	B
			<b>SHEET</b>	1 OF 2

PART ID REF  
CT1206ALNF



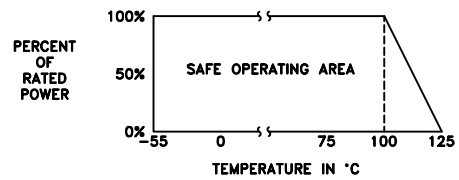
**MECHANICAL SPECIFICATION:**

SUBSTRATE:  
MATERIAL - ALUMINUM NITRIDE, MIL-I-10.  
TERMINALS & GROUND PLANE:  
MATERIAL - THICK FILM

METRIC EQUIVALENTS GIVEN IN [mm]  
FOR REFERENCE INFORMATION ONLY

RESISTIVE ELEMENT:  
MATERIAL - THICK FILM.

**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 30:1	DRAWN BY JG 5/27/08	CHECKED BY	APPROVED BY
REV B	CHANGE NOTICE EN 08-E0399	DRAWING NO 1010145000	SHEET 2 OF 2	