

TITLE: ENGINEERING CONTROL DRAWING.

PART IDENTIFIER: CT2010ALNF

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

ASSEMBLY DWG: 1101654

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: 20 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.

- 3.2 DC RESISTANCE: 50Ω ± 5%.

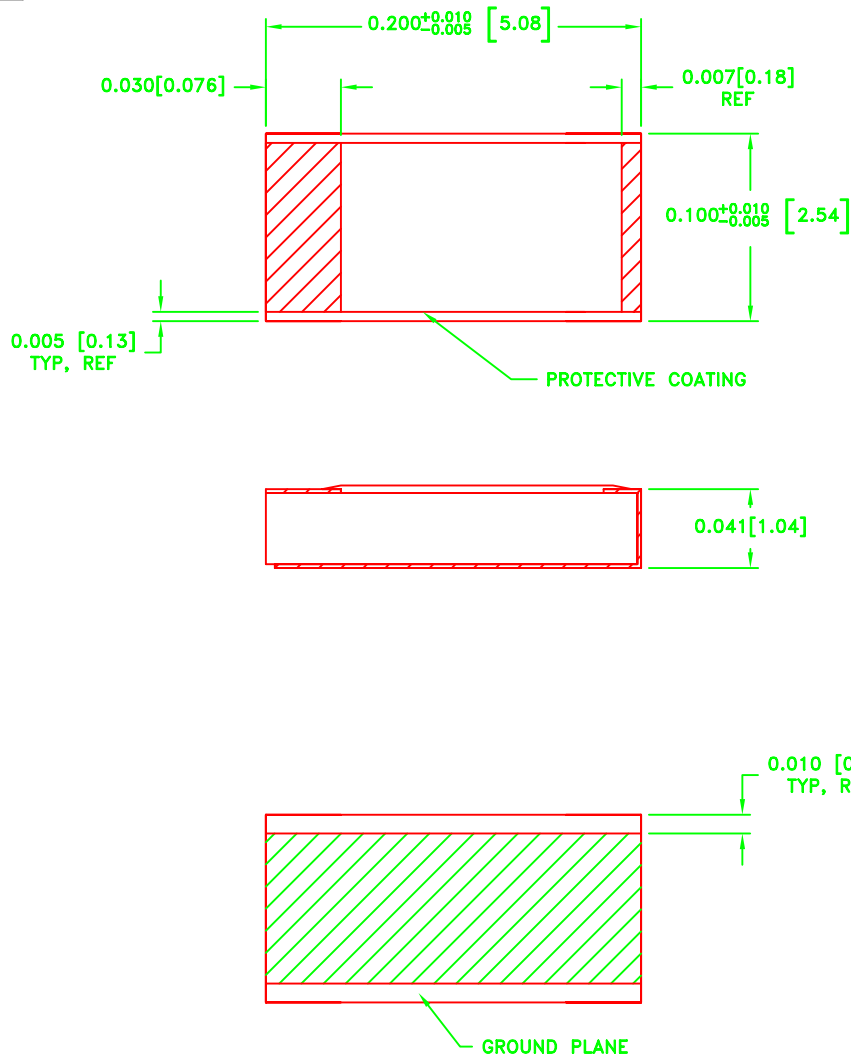
- 3.3 DATA REQUIREMENTS:
 - 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
 - 3.3.2 DATA RETENTION – 24 MONTHS.

4.0 PACKAGING: STANDARD PACK PER 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1010135000
	CHANGE NOTICE	EN 09-E0833	REV LVL	B
			SHEET	1 <u>OF</u> 2

PART ID REF

CT2010ALNF



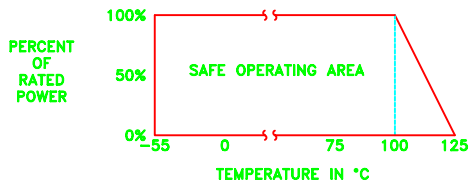
MECHANICAL SPECIFICATIONS:

SUBSTRATE:
 MATERIAL - ALUMINUM NITRIDE MIL-I-10.
TERMINALS AND GROUND PLANE:
 MATERIAL - THICK FILM LEAD FREE PLATING

RESISTIVE ELEMENT:
 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	1:1	CRH 08/24/09		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
B	EN 09-E0833	1010135000	2 OF 2	