

**TITLE: ENGINEERING CONTROL DRAWING.**

**PART IDENTIFIER:** CT2010AF

**DESCRIPTION:** HIGH POWER CHIP TERMINATION, ALUMINA, LEAD FREE PLATING

**ASSEMBLY DWG:** 2900154

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
  - 1.1.2 FREQUENCY: DC - 2 GHZ.
  - 1.1.3 VSWR: 1.35:1 MAX.
  - 1.1.4 INPUT POWER:
    - 1.1.4.1 HEAT SINK 100°C: 5 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.

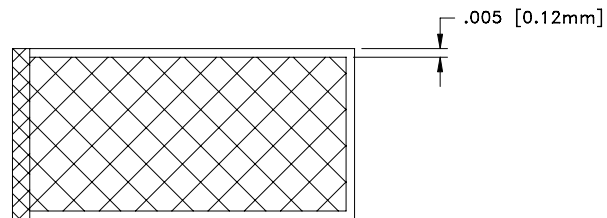
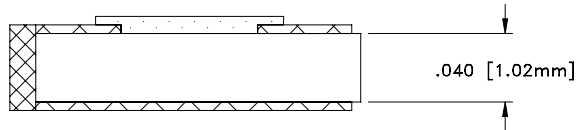
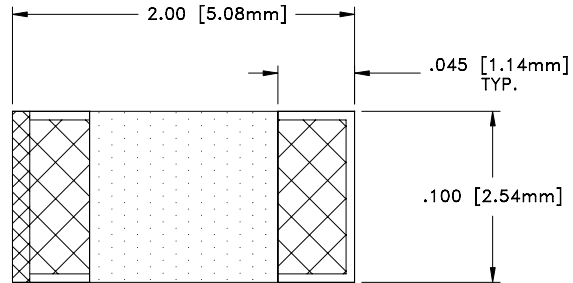
**3.0 QUALITY ASSURANCE:**

- 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.

<b>EMC TECHNOLOGY</b> <b>8851 SW OLD KANSAS AVE.</b> <b>STUART, FL 34997</b>	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1010705000
	<b>CHANGE NOTICE</b>	EN 08-E0712	<b>REV LVL</b>	A
			<b>SHEET</b>	1 <u>OF</u> 2

PART ID REF  
CT2010AF

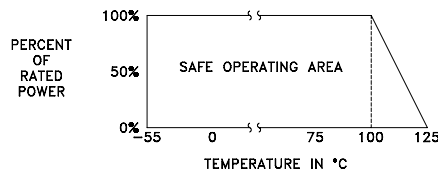


**MECHANICAL SPECIFICATIONS:**

SUBSTRATE:  
MATERIAL - ALUMINA MIL-I-10.  
TERMINALS AND GROUND PLANE:  
MATERIAL - THICK FILM, LEAD FREE  
ROHS COMPLIANT.  
RESISTIVE ELEMENT:  
MATERIAL - THIN FILM.

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

**POWER RATING AND DERATING**



**EMC Technology**  
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 ±0.010  
XXXX ---

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CAGE CODE 24602	SCALE 1:1	DRAWN BY JG 8/8/08	CHECKED BY	APPROVED BY
REV A	CHANGE NOTICE EN 08-E0712	DRAWING NO 1010705000	SHEET 2 OF 2	