

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** HRXCT0505XWB1  
X = OHM VALUE  
X = A, B OR C TESTING

**DESCRIPTION:** 5 WATT, TERMINATION BEO WITH HIGH RELIABILITY TESTING

**ASSEMBLY DWG:** N/A

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 RESISTANCE VALUES: 10 TO 100Ω +/- 5%
  - 1.1.2 FREQUENCY RANGE: DC – 10 GHZ.
  - 1.1.3 THERMAL RESISTANCE: <1.9 °C/W
  - 1.1.4 INPUT POWER:
    - 1.1.4.1 5 WATTS @ 100°C BASE TEMPERATURE DERATED LI NERLY TO 0 WATTS @ 125°C
    - 1.1.4.2 20 WATTS PULSED, 10µS PULSE WIDTH, 1% DUTY CYCLE
- 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.
    - 1.3.1.3 SOLDERING: +300°C MAX FOR 10 SECONDS
  - 1.3.2 TEMPERATURE COEFFICIENT: < 200PPM/°C

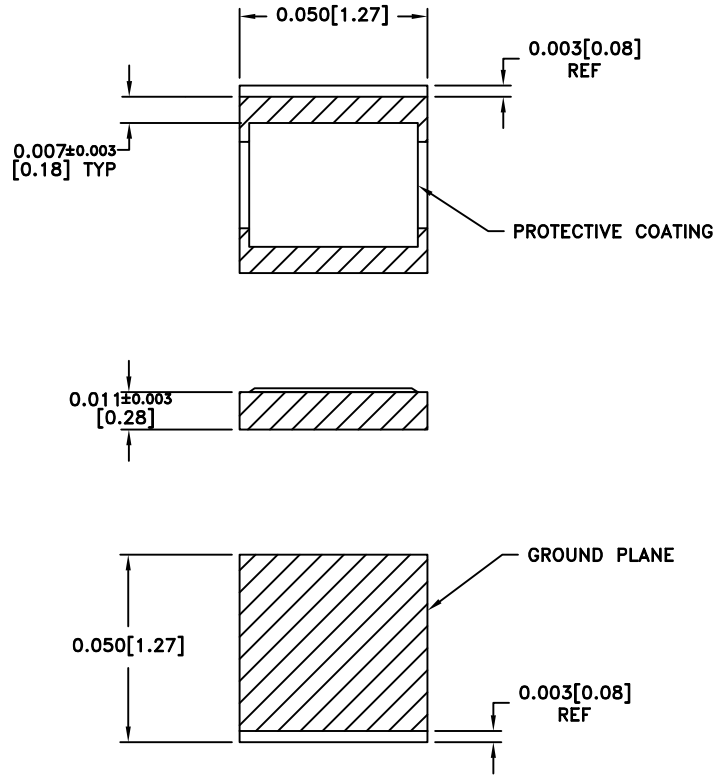
**2.0 UNIT MARKING:** NONE.

**3.0 QUALITY ASSURANCE:**

- 3.1 VERIFY 100% VISUAL PRE-CAP INSPECTION PERFORMED PER TP-9085.
- 3.2 PERFORM GROUP A, B AND/OR C TESTING AS INDICATED BY THE PART NUMBER PER TP-9085.
- 3.3 TEST DATA REQUIREMENTS:
  - 3.3.1 TEST DATA REQUIRED FOR CUSTOMER - SEE PARAGRAPH 6.0 OF TP-9085.
  - 3.3.2 DATA RETENTION – 24 MONTHS.
  - 3.3.3 TEST SAMPLES REQUIRED FOR CUSTOMER – SEE PARAGRAPH 6.0 OF TP-9085.

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


EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1012705000
	<b>CHANGE NOTICE</b>	EN 12-2099	<b>REV LVL</b>	-
			<b>SHEET</b>	1 <u>OF</u> 2



**MECHANICAL SPECIFICATIONS:**

SUBSTRATE:  
 MATERIAL - BERYLLA, ASTM F356.  
 TOP TERMINALS:  
 MATERIAL - BONDABLE GOLD  
 GROUND PLANE:  
 MATERIAL - THICK FILM SOLDERABLE  
 RESISTIVE ELEMENT:  
 MATERIAL - THIN FILM, TANTALUM NITRIDE.

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 <b>TOLERANCES</b> FRACT --- --- ANG --- --- XX --- --- XXX ±0.005 XXXX --- ---	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EMC TECHNOLOGY INC AND SHALL NOT BE DUPLICATED OR USED AS BASIS FOR THE MANUFACTURE OR SALE OF PARTS OR DEVICES WITHOUT PERMISSION.					
	<b>CAGE CODE</b> 24602	<b>SCALE</b> N/A	<b>DRAWN BY</b> NOA 02/22/12	<b>CHECKED BY</b>	<b>APPROVED BY</b>		
	<b>REV</b> -	<b>CHANGE NOTICE</b> EN 12-2099	<b>DRAWING NO</b> 1012705000	<b>SHEET</b> 2 OF 2			