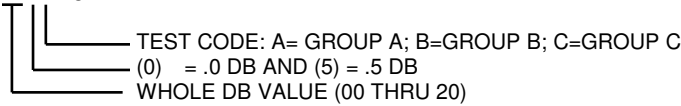


**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** HR3XXXXW3



**DESCRIPTION:** CHIP ATTENUATOR WITH HIGH RELIABILITY TESTING.

**NOTE:** SINGLE LOT AND DATE CODE AVAILABLE UPON REQUEST.

**ASSEMBLY DWG:** N/A

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
  - 1.1.2 FREQUENCY RANGE: DC-8 GHZ.
  - 1.1.3 ATTENUATION VALUES AVAILABLE: 0-20 DB IN .5 DB INCREMENTS.
  - 1.1.4 ATTENUATION ACCURACY: SEE TABLE.

ATTENUATION ACCURACY		
DB	DC - 4 GHZ	4 - 8 GHZ
0	-0,+0.3	-0,+0.5
.5 - 3	±0.3	±0.5
3.5 - 6	±0.4	±0.5
6.5 - 10	±0.5	±0.5
10.5 - 15	±0.75	+0.5,-3.0
15.5 - 20	±1.0	+0.5,-4.0

- 1.1.5 VSWR: DC - 4 GHZ - 1.25.  
4 - 8 GHZ - 1.35.
- 1.1.6 INPUT POWER: 2 WATTS CW.
  - 1.1.6.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.
  - 1.1.6.2 PEAK POWER, 50 WATTS FOR 10US PULSE WIDTH @ 1% DUTY CYCLE.
- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 2.
  - 1.2.2 WORKMANSHIP: PER MIL-PRF-55342.
- 1.3 ENVIRONMENTAL:
  - 1.3.1 ALTITUDE:
    - 1.3.1.1 NON-OPERATING: SEA LEVEL TO 50,000 FEET.
    - 1.3.1.2 OPERATING: SEA LEVEL TO 50,000 FEET.
  - 1.3.2 TEMPERATURE RANGE:
    - 1.3.2.1 NON-OPERATING: -55 C TO +150 C.
    - 1.3.2.2 OPERATING: -55°C TO +150°C.
  - 1.3.3 VIBRATION: PER MIL-STD-202, METHOD 204, COND. D.
  - 1.3.4 SHOCK: PER MIL-STD-202, METHOD 213, COND. I.
  - 1.3.5 MOISTURE RESISTANCE: PER MIL-STD-202, METHOD 106 EXCEPT SUBCYCLE STEPS 7A AND 7B AND POLARIZATION AND LOAD ARE NOT APPLICABLE.

**2.0 UNIT MARKING:** "DB VALUE". GREEN DOT ADDS 0.5DB. LEGIBILITY AND PERMANENCY PER MIL-STD-130.

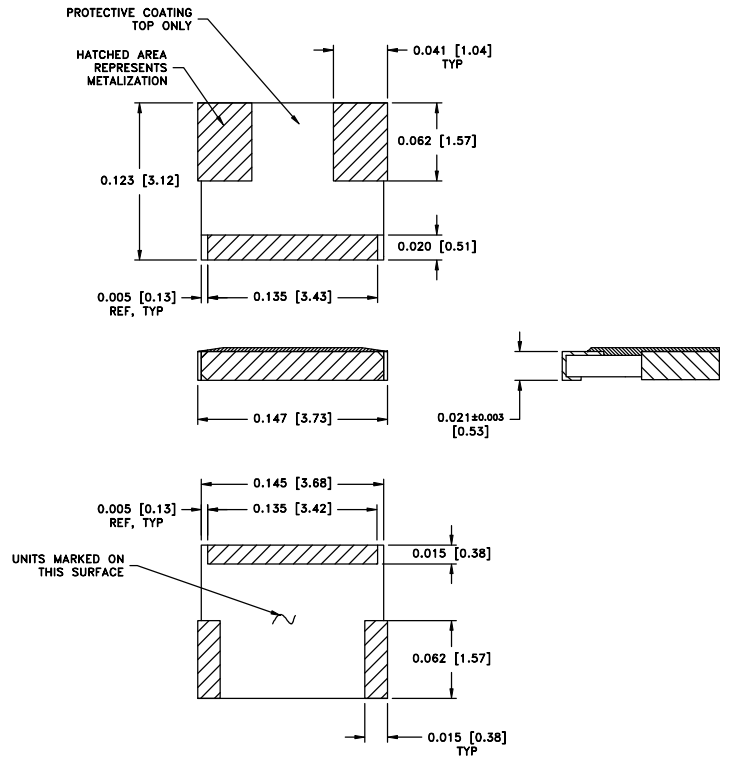
**3.0 QUALITY ASSURANCE:**

- 3.1 VERIFY 100% VISUAL PRE-CAP INSPECTION PERFORMED PER TP-8965.
- 3.2 PERFORM GROUP A, B AND/OR C TESTING AS INDICATED BY THE PART NUMBER PER TP-8965.
- 3.3 TEST DATA REQUIREMENTS:
  - 3.3.1 TEST DATA REQUIRED FOR CUSTOMER-SEE TP-8965
  - 3.3.2 DATA RETENTION-24 MONTHS
  - 3.3.3 TEST SAMPLES REQUIRED FOR CUSTOMER- SEE TP-8965

**4.0 PACKAGING:** STANDARD PACK PER 755W002. (SERIALIZED WAFFLE PACK)

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1012975000
	<b>CHANGE NOTICE</b>	EN 13-3241	<b>REV LVL</b>	-
			<b>SHEET</b>	1 OF 2

PART ID REF
HR3XXXXW3

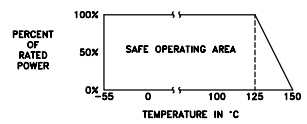


**MECHANICAL SPECIFICATIONS:**

SUBSTRATE:  
 MATERIAL - ALUMINA, MIL-1-10.  
 TERMINAL:  
 MATERIAL - THICK FILM, NICKEL BARRIER,  
 SOLDER PLATED.  
 RESISTIVE ELEMENT:  
 MATERIAL - THIN FILM TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm]  
 FOR REFERENCE INFORMATION ONLY

**POWER RATING AND DERATING**



	<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</small>					<small>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.</small>					
	<small>TOLERANCES</small> FRACT --- ANG --- XX --- XXX ±0.005 XXXX ---		CAGE CODE <b>24602</b>	SCALE <b>N/A</b>	DRAWN BY <b>CRH 05/02/07</b>	CHECKED BY	APPROVED BY	<small>CHANGE NOTICE</small> <b>EN 13-3241</b>			DRAWING NO <b>1012975000</b>
<small>8851 SW OLD KANSAS AVE          STUART, FL 34997          PHONE NO. (772) 286-9300          FAX NO. (772) 283-5286</small>											