## TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: HR03XXXW3

(X)=TEST CODE: A=GROUP A; B=GROUP B; C=GROUP C

(XX)=DB VALUE (01-20DB)

**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 1 DB INCREMENTS.
  - 1.1.4 ATTENUATION ACCURACY: SEE TABLE.
  - 1.1.5 ATTENUATION STABILITY: 0.0001 DB/DB/C°

ATTENUATION ACCURACY							
DB	DC - 4 GHZ	4 - 8 GHZ					
0	-0,+0.3	-0,+0.5					
1 -3	±0.3	±0.5					
4 - 6	±0.4	±0.5					
7 - 10	±0.5	±0.5					
11 - 15	±0.75	+0.5,-3.0					
16 - 20	±1.0	+0.5,-4.0					

1.1.6 VSWR: DC - 4 GHZ - 1.25.

4 - 8 GHZ - 1.35.

1.1.7 INPUT POWER: 2 WATTS CW.

1.1.7.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.

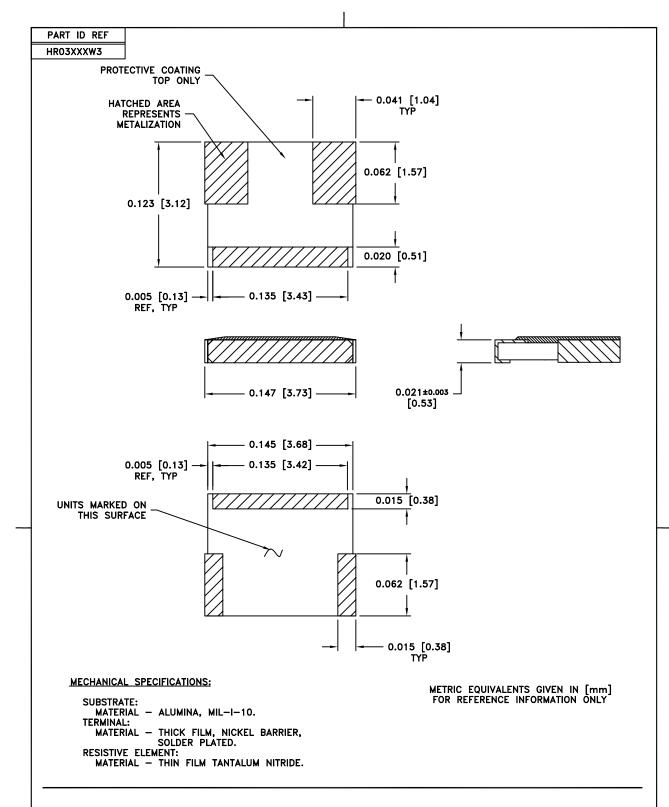
1.1.7.2 PEAK POWER, 50 WATTS FOR 10US PULSE WIDTH @ 1% DUTY CYCLE.

- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 3.
  - 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". LEGIBILITY AND PERMANENCY PER MIL-STD-130.

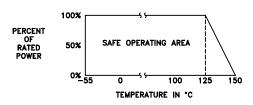
## 3.0 QUALITY ASSURANCE:

- 3.1 VERIFY 100% VISUAL PRE-CAP INSPECTION PERFORMED. PER TP-8965
- 3.2 PREFORM 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 PARAGRAPH 5.0 OF TP-8965.
  - 3.3.2 DATA RETENTION 24 MONTHS.
  - 3.3.3 TEST SAMPLES REQUIRED FOR CUSTOMER SEE PARAGRAPH 5.0 OF TP-8965.
- 4.0 PACKAGING: STANDARD PACK PER 755W002. (SERIALIZED WAFFLE PACK)

EMC TECHNOLOGY	CA	GE CODE # 24602	DWG#	1009895000		
8851 SW OLD KANSAS AVE.	CHANGE NOTICE	EN 09-E1001	REV LVL	С		
STUART, FL 34997			SHEET	1 <u>OF</u> 2		



## POWER RATING AND DERATING



	SPECIFIED	OTHERWISE DIMENSIONS INCHES	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.								
		RANCES	CAGE COD	-		DRAWN BY	CHECKED BY	APPI	ROVED B	Υ	
Technology	FRACT		2460	2   1	6:1	JG 11/25/08					
8851 SW OLD KANSAS AVE STUART, FL 34997	XX	 ±0.005	REV CHANGE		IGE NOTICE		DRAWING NO		SHEET		
 PHONE NO. (772)286-9300 FAX NO. (772)283-5286	xxxx		С	E	ΞN	09-E1001	100989500	00	2	OF	2