## TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: HR05XXXW3S

(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-12.4 GHZ.
  - 1.1.3 ATTENUATION VALUES AVAILABLE: 0-20DB IN 1DB INCREMENTS.
  - 1.1.4 ATTENUATION ACCURACY: SEE TABLE.
  - 1.1.5 ATTENUATION STABILITY: 0.0001 DB/DB/C°

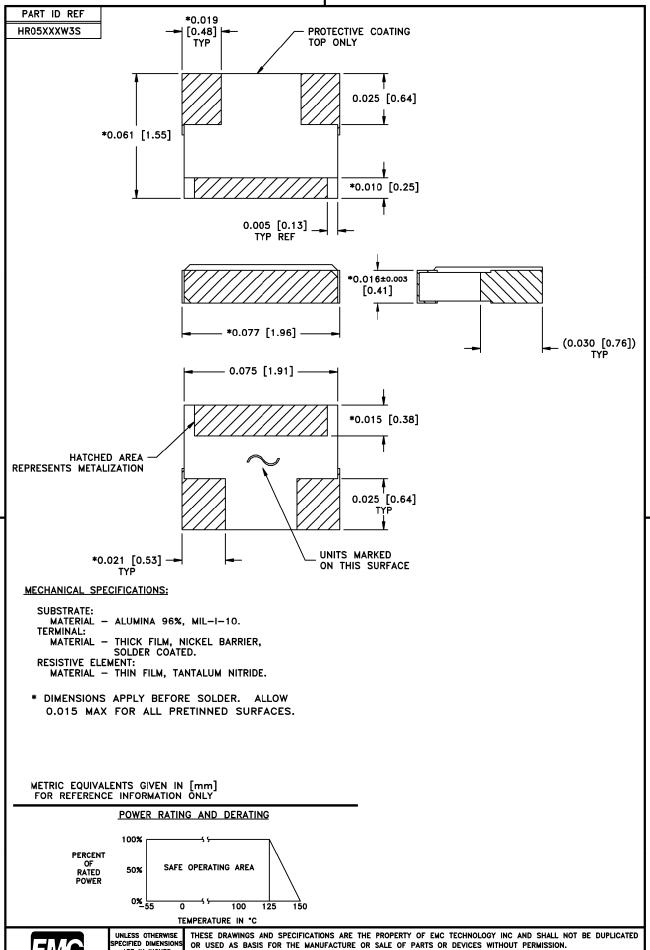
ATTENUATION ACCURACY						
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ			
0	-0,+.3	-0,+.5	-0,+.5			
1 -3	±0.3	±0.5	±0.5			
4 - 6	±0.4	±0.5	±0.5			
7 - 10	±0.5	±0.5	±0.75			
11 - 15	±0.75	+0.5,-3.0	+0.5,-3.5			
16 - 20	±1.0	+0.5,-4.0	+1.0,-6.0			

- 1.1.7 INPUT POWER: 100 MILLIWATTS 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, 1 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: MARKED WITH 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 PREFOM 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	CAGE CODE # 24602		DWG#	1010005000
8851 SW OLD KANSAS AVE.	CHANGE NOTICE	EN 09-E1001	REV LVL	D
STUART, FL 34997			SHEET	1 <u>OF</u> 2



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAGE CODE SCALE DRAWN BY CHECKED BY APPROVED BY **TOLERANCES** Technolog 24602 32:1 JG 9/28/09 FRACT ANG CHANGE NOTICE SHEET REV ±0.005 XXX PHONE NO. (772)286-9300 FAX NO. (772)283-5286 EN 09-E1001 1010005000 D 2 OF 2 XXXX