SPECIFICATION CONTROL DRAWING TITLE:

PART IDENTIFIER: HR03XXXW3S

(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:

- **ELECTRICAL**:
 - IMPEDANCE: 50 OHMS NOMINAL. 1.1.1
 - 1.1.2 FREQUENCY RANGE: DC-8 GHZ.
 - ATTENUATION VALUES AVAILABLE: 0-20 DB IN 1 DB INCREMENTS. 1.1.3
 - 1.1.4 ATTENUATION ACCURACY: SEE TABLE.
 - 1.1.5 ATTENUATION STABILITY: 0.0001 DB/DB/C°

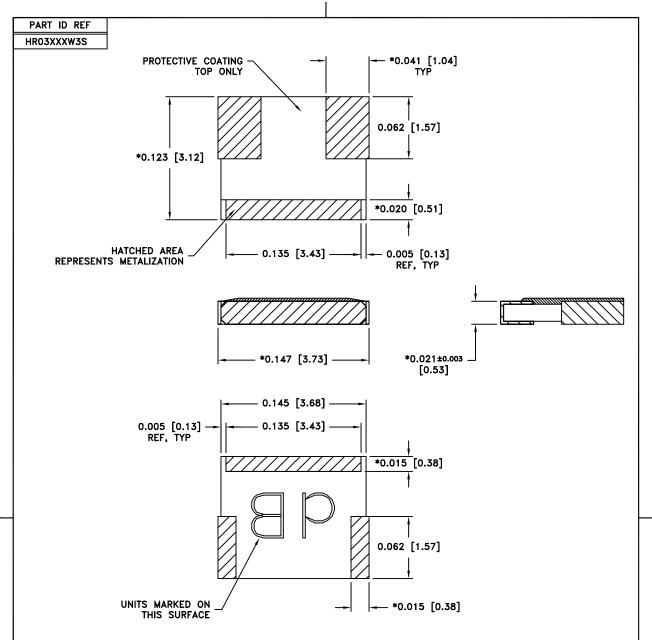
ATTENUATION ACCURACY							
DB	DC - 4 GHZ 4 - 8 GHZ						
0	-0,+0.3	-0,+0.5					
1 -3	±0.3	±0.5					
4 - 6	±0.4	±0.5					
7 - 10	±0.5	±0.5					
11 - 15	±0.75	+0.5,-3.0					
16 - 20	±1.0	+0.5,-4.0					

- 1.1.6 VSWR: DC - 4 GHZ - 1.25.
 - 4 8 GHZ 1.35.
- INPUT POWER: 2 WATTS CW. 1.1.7
 - 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:
 - 121 OUTLINE DWG: SEE SHEET 3.
 - WORKMANSHIP: PER MIL-PRF-55342. 1.2.2
- **ENVIRONMENTAL:** 1.3
 - 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.
 - VIBRATION: PER MIL-STD-202, METHOD 204, COND. D. 1.3.3
 - SHOCK: PER MIL-STD-202, METHOD 213, COND. I. 1.3.4
 - MOISTURE RESISTANCE: PER MIL-STD-202, METHOD 106 EXCEPT SUBCYCLE STEPS 7A AND 1.3.5 7B AND POLARIZATION AND LOAD ARE NOT APPLICABLE.
- 2.0 UNIT MARKING: "DB VALUE". LEGIBILITY AND PERMANENCY PER MIL-STD-130.

QUALITY ASSURANCE: 3.0

- VERIFY 100% VISUAL PRE-CAP INSPECTION PERFORMED. PER TP-8965 3.1
- PREFORM GROUP A, B AND/OR C TESTING AS INDICATED BY THE PART NUMBER PER TP-8965. 3.2
- 3.3 TEST DATA REQUIREMENTS:
 - TEST DATA REQUIRED FOR CUSTOMER SEE PARAGRAPH 5.0 OF TP-8965. 3.3.1
 - 3.3.2 DATA RETENTION - 24 MONTHS.
 - TEST SAMPLES REQUIRED FOR CUSTOMER SEE PARAGRAPH 5.0 OF TP-8965. 3.3.3
- STANDARD PACK PER 755W002. (SERIALIZED WAFFLE PACK) PACKAGING: 4.0

EMC TECHNOLOGY	CA	GE CODE # 24602	DWG#	1009905000		
8851 SW OLD KANSAS AVE.	CHANGE NOTICE	EN 09-E1001	REV LVL	С		
STUART, FL 34997			SHEET	1 <u>OF</u> 2		



MECHANICAL SPECIFICATIONS:

SUBSTRATE:

MATERIAL - ALUMINA 96%, MIL-I-10. TERMINAL:

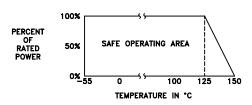
MATERIAL - THICK FILM, NICKEL BARRIER,

SOLDER COATED.

RESISTIVE ELEMENT:
MATERIAL: THIN FILM, TANTALUM NITRIDE.

* DIMENSIONS APPLY BEFORE SOLDER. ALLOW 0.015 MAX FOR ALL PRETINNED SURFACES. METRIC EQUIVALENTS GIVEN IN [mm] FOR REFERENCE INFORMATION ONLY

POWER RATING AND DERATING



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	TOLERANCES		CAGE COD	E	SCALE	DRAWN BY	CHECKED BY	APPI	ROVED B	ΙΥ	
<u>Technology</u>	FRACT ANG		24602		16:1	JG 10/3/08					
8851 SW OLD KANSAS AVE STUART, FL 34997	XX	 ±0.005	REV	CHAN	IGE NOTIC	CE C	DRAWING NO		SHEET		
PHONE NO. (772)286-9300 FAX NO. (772)283-5286	l xxxx		С		ΕN	09-E1001	100990500	0	2	OF	2