

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.

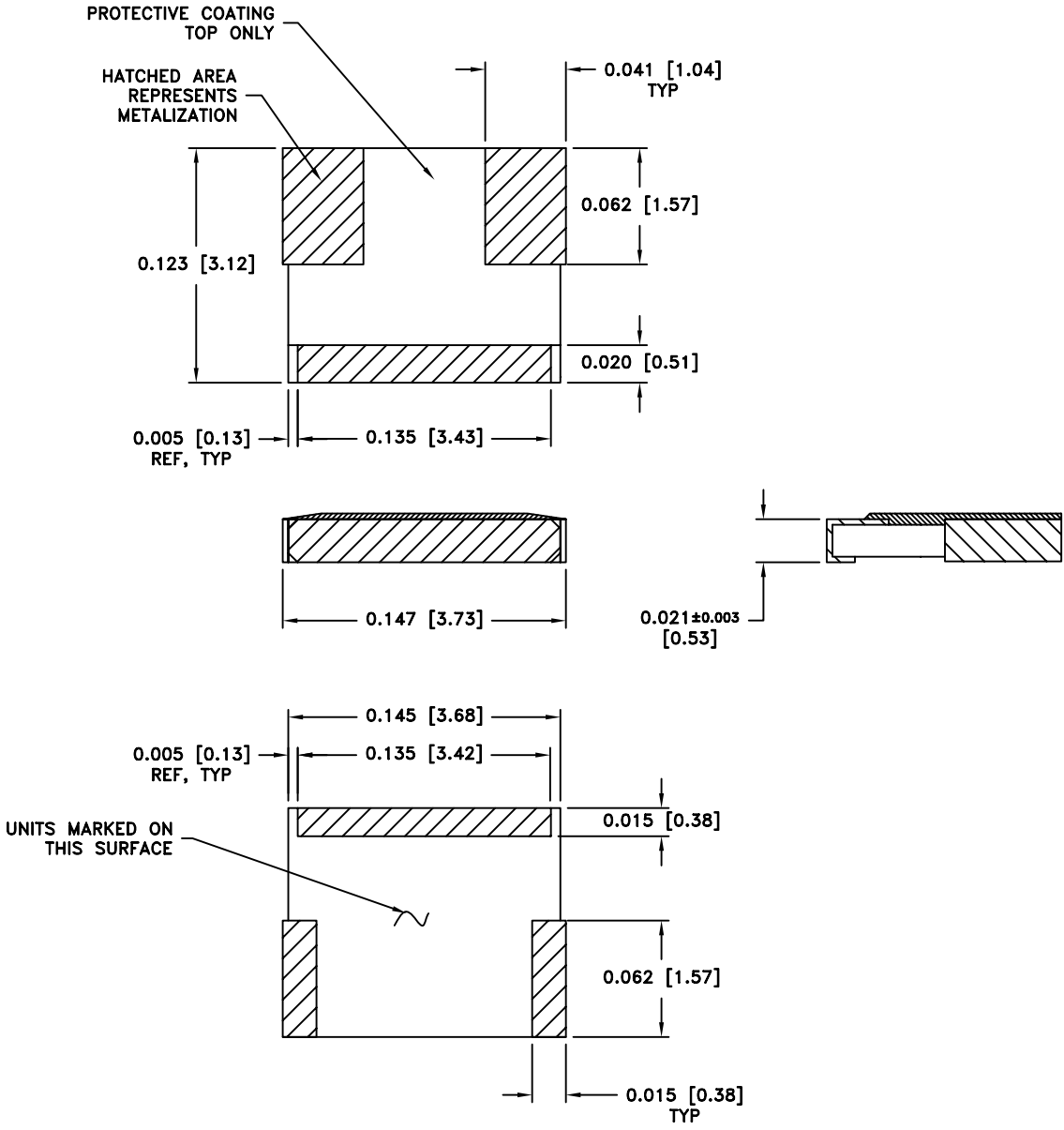
3.0 QUALITY ASSURANCE:

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

PART ID REF
HR03XXXW3

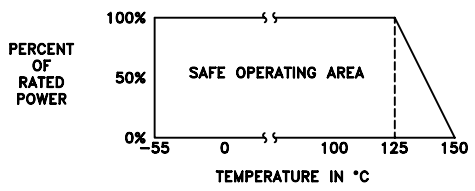


MECHANICAL SPECIFICATIONS:

SUBSTRATE:
 MATERIAL - ALUMINA, MIL-I-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



 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 TOLERANCES 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.					
		CAGE CODE 24602	SCALE 16:1	DRAWN BY JG 11/25/08	CHECKED BY	APPROVED BY	
	REV C	CHANGE NOTICE EN 09-E1001	DRAWING NO 1009895000	SHEET 2 OF 2			