TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TS05XXF

(XX) DB VALUE

DESCRIPTION: CHIP ATTENUATOR, RoHS COMPLIANT

ASSEMBLY DWG: 1901874

1.0 SPECIFICATIONS:

- 1.1 **ELECTRICAL:**
 - 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
 - FREQUENCY RANGE: DC-18 GHZ. 1.1.2
 - ATTENUATION VALUES AVAILABLE: 0-20 DB IN 1 DB INCREMENTS. 1.1.3
 - 1.1.4 ATTENUATION ACCURACY: SEE TABLE.

ATTENUATION ACCURACY							
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ	12.4 - 18 GHZ			
0	-0,+.3	-0,+.5	-0,+.5	-0,+.5			
1 -3	±0.3	±0.5	±0.5	±0.5			
4 - 6	±0.4	±0.5	±0.5	±0.75			
7 - 10	±0.5	±0.5	±0.75	±1.0			
11 - 15	±0.75	+0.5,-3.0	+0.5,-3.5				
16 - 20	±1.0	+0.5,-4.0	+1.0,-6.0				

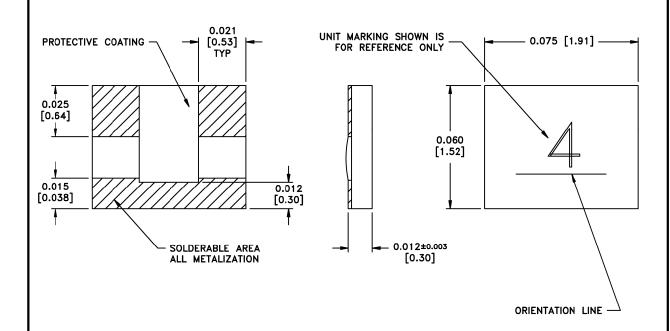
- VSWR: DC 4 GHZ 1.25 MAX 4 8 GHZ 1.35 MAX 1.1.5
- 8 18 GHZ 1.50 MAX
- INPUT POWER: 100 MILLIWATTS CW. 1.1.6
 - 1.1.6.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.
 - 1.1.6.2 PEAK POWER, 1 WATT FOR 10US PULSE WIDTH @ 1% DUTY CYCLE.
- 1.2 MECHANICAL:
 - OUTLINE DWG: SEE SHEET 2. 1.2.1
 - WORKMANSHIP: PER MIL-PRF-55342. 1.2.2
- **ENVIRONMENTAL:** 1.3
 - ALTITUDE: 1.3.1
 - 1.3.1.1 NON-OPERATING: SEA LEVEL TO 50,000 FEET.
 - OPERATING: SEA LEVEL TO 50,000 FEET. 1312
 - 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
 - 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:**

- SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0. 3.1
 - 3.1.1 VISUAL AND MECHANICAL EXAMINATION FOR CONFORMANCE TO OUTLINE DWG REQUIREMENTS.
- 3.2 PERFORM INSPECTION IN ACCORDANCE WITH 824W170 AND 824F036 FOR COMMERCIAL GRADE PRODUCT.
- 3.3 **TEST DATA REQUIREMENTS:**
 - 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
 - 3.3.2 DATA RETENTION - 24 MONTHS.
- PACKAGING: STANDARD PACK PER 755W002. 4.0

EMC TECHNOLOGY	CAGE CODE # 24602		DWG#	1011125000			
8851 SW OLD KANSAS AVE.	CHANGE NOTICE	EN 10-E0351	REV LVL	В			
STUART, FL 34997			SHEET	1	OF	2	\neg

PART ID REF



MECHANICAL SPECIFICATIONS:

SUBSTRATE:

MATERIAL - ALUMINA, MIL-I-10.

TERMINAL:

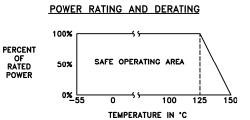
MATERIAL - LEAD FREE PLATING,

ROHS COMPLIANT.

RESISTIVE ELEMENT:

MATERIAL - THIN FILM, TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm] FOR REFERENCE INFORMATION ONLY



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Technology	TOLERANCES FRACT	CAGE CODE SCALE DRAWN BY CHECKED BY 32:1 JG 3/10/10		APPROVED BY			
8851 SW OLD KANSAS AVE STUART, FL 34997 PHONE NO. (772)286-9300 FAX NO. (772)283-5286	XXX ±0.005	REV B	CHANGE NOTICE EN	10-E0351	DRAWING NO 101112500	SHEET 2 OF 2	