# TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TS03XXW3S

(XX) DB VALUE

**DESCRIPTION: CHIP ATTENUATOR** 

ASSEMBLY DWG: 1900334

#### 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.

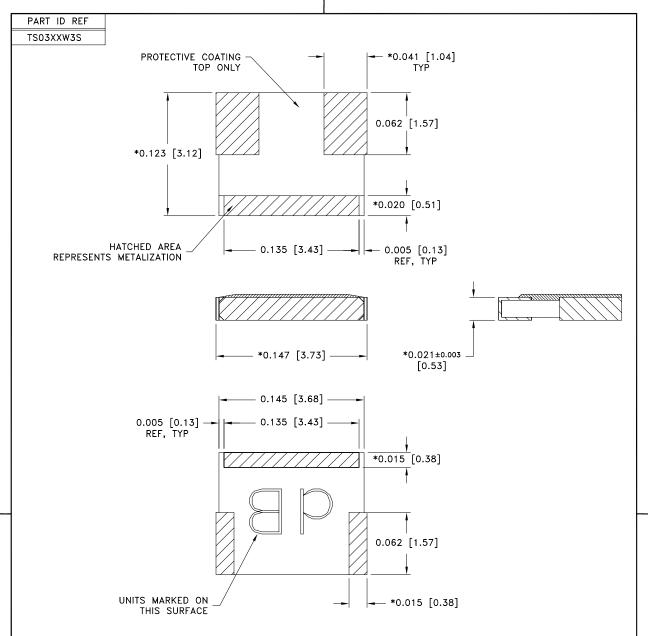
ATTENUATION ACCURACY								
DB	DC - 4 GHZ	4 - 8 GHZ						
0	-0,+0.3	-0,+0.5						
1 -3	±0.3	±0.5						
4 - 6	±0.4	±0.5						
7 - 10	±0.5	±0.5						
11 - 15	±0.75	+0.5,-3.0						
16 - 20	±1.0	+0.5,-4.0						

- 1.1.5 VSWR: DC 4 GHZ 1.25.
  - 4 8 GHZ 1.35.
- 1.1.6 INPUT POWER: 2 WATTS CW.
  - 1.1.6.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.
  - 1.1.6.2 PEAK POWER, 50 WATTS FOR 10US PULSE WIDTH @ 1% DUTY CYCLE.
- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 2.
  - 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.
- 1.4 ELECTROSTATIC DISCHARGE CONTROL: PER MIL-STD-1686.
- 2.0 UNIT MARKING: "DB VALUE". LEGIBILITY AND PERMANENCY PER MIL-STD-130.

#### 3.0 QUALITY ASSURANCE:

- 3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
  - 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.
- 4.0 PACKAGING: STANDARD PACK PER 755W002.

EMC TECHNOLOGY	CA	DWG#	100	1005675000		
8851 SW OLD KANSAS AVE	CHANGE NOTICE	EN 10-0911	REV LVL	L	•	
STUART, FLORIDA 34997			SHEET	1	OF	2



## MECHANICAL SPECIFICATIONS:

SUBSTRATE:

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

MATERIAL - THICK FILM, NICKEL BARRIER,

SOLDER COATED.

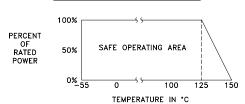
RESISTIVE ELEMENT:

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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