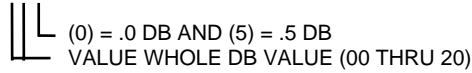


**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** TT3XXXS



**DESCRIPTION:** CHIP ATTENUATOR

**ASSEMBLY DWG:** 1900024

**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: 0-20 DB IN 0.5 DB INCREMENTS.
  - 1.1.4 ATTENUATION ACCURACY: SEE CHART.

ATTENUATION ACCURACY			
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ
0	-0, +0.3	-0, +0.5	-0, +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

- 1.1.5 VSWR: 1.30 MAX.
- 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", GREEN DOT ADDS 0.5DB.  
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

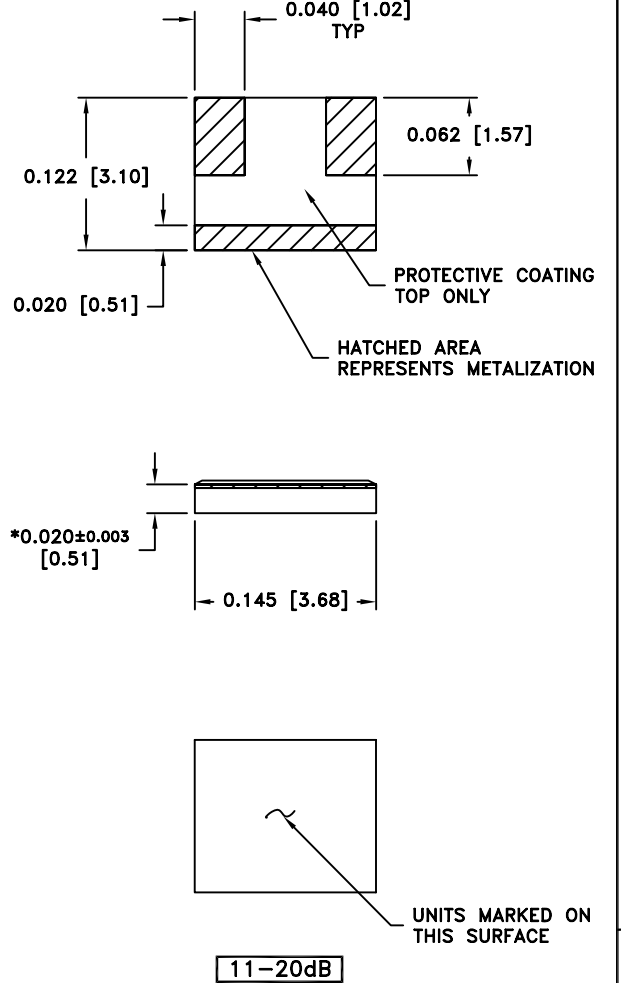
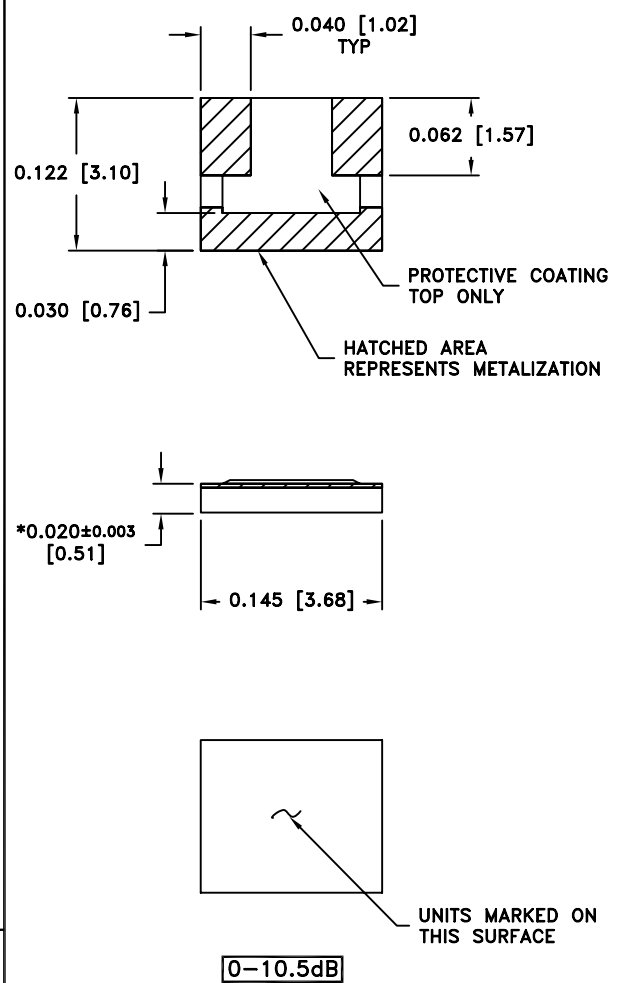
**3.0 QUALITY ASSURANCE:**

- 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 DRAWING 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.

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE STUART, FLORIDA 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1003365000
	<b>CHANGE NOTICE</b>	EN 10-0911	<b>REV LVL</b>	F
			<b>SHEET</b>	1 OF 2

PART ID REF  
TT3XXS



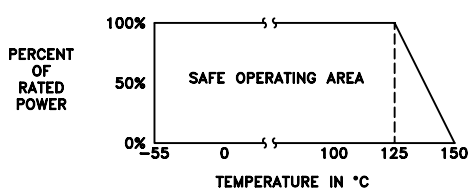
**MECHANICAL SPECIFICATIONS:**

MATERIAL - ALUMINA 96%, MIL-I-10.  
 SUBSTRATE:  
 MATERIAL - THICK FILM, NICKEL BARRIER,  
 TERMINAL: SOLDER COATED.  
 RESISTIVE ELEMENT:  
 MATERIAL - THIN FILM, TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm]  
 FOR REFERENCE INFORMATION ONLY

\*DIMENSIONS APPLY BEFORE SOLDER, ALLOW  
 0.015 MAX FOR ALL PRETINNED SURFACES.

**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	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	10:1	BC 4/3/02		DAR 4/3/02
REV	CHANGE NOTICE	DRAWING NO	SHEET	
F	EN 10-0911	1003365000	2 OF 2	