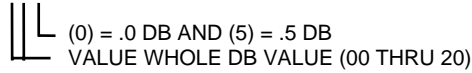


**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** TT3XXX



**DESCRIPTION:** CHIP ATTENUATOR

**ASSEMBLY DWG:** 1900014

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

ATTENUATION ACCURACY			
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ
0	-0, +0.3	-0, +0.5	-0, +0.5
1 - 3.5	±0.3	±0.5	±0.5
4 - 6.5	±0.4	±0.5	±0.5
7 - 10.5	±0.5	±0.5	±0.75
11 - 15.5	±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.

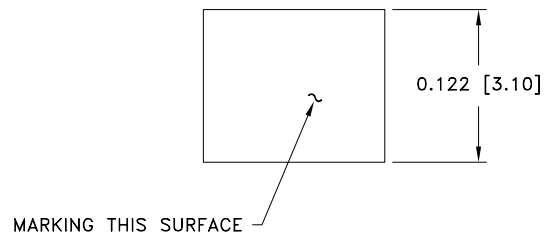
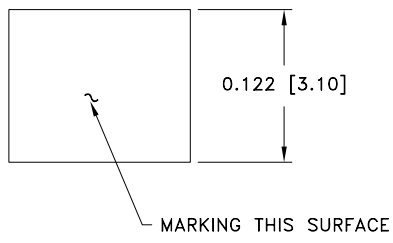
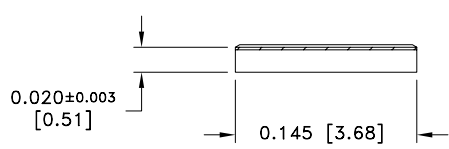
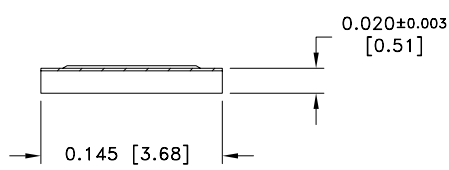
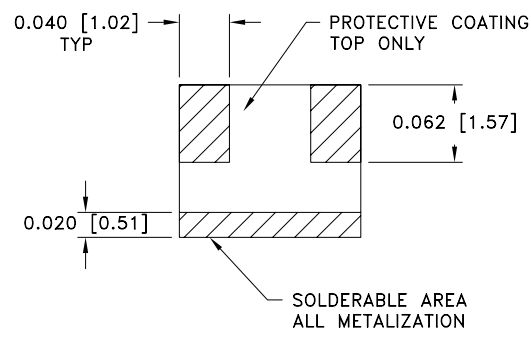
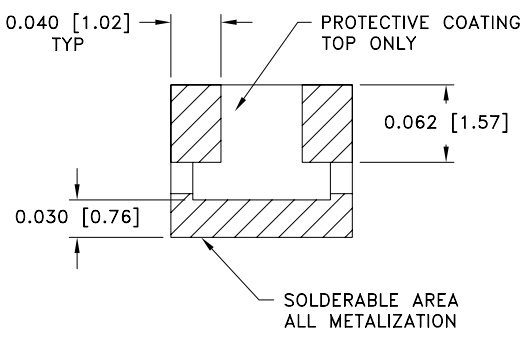
**3.0 QUALITY ASSURANCE:**

- 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.
  - 3.3.1 DATA RETENTION – 24 MONTHS.

**4.0 PACKAGING:** STANDARD PACK PER 755W002.

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1001635000
	<b>CHANGE NOTICE</b>	EN 10-0911	<b>REV LVL</b>	K
			<b>SHEET</b>	1 OF 2

PART ID REF  
TT3XXX



0-10.5dB

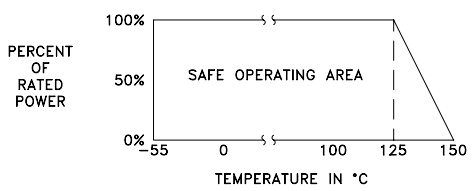
11-20dB

**MECHANICAL SPECIFICATIONS:**

SUBSTRATE:  
MATERIAL - ALUMINA 96%, MIL-I-10.  
TERMINAL:  
MATERIAL - THICK FILM, NICKEL BARRIER,  
SOLDER PLATE Sn90 P10.  
RESISTIVE ELEMENT:  
MATERIAL - 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 ---

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CAGE CODE 24602	SCALE 10:1	DRAWN BY CSS 8-1-02	CHECKED BY	APPROVED BY DAR 8/15/02
REV K	CHANGE NOTICE EN 10-0911	DRAWING NO 1001635000	SHEET 2 OF 2	