

TITLE: SPECIFICATION CONTROL DRAWING
EMC PROPRIETARY

REVISIONS RECORD			
REV	SHEET	DATE	DESCRIPTION


[illegible]

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602	DWG# 1001635000	SHEET	REF
			REV LEVEL	K

423F006 REV. -

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TT3XXX

 (0) = .0 DB AND (5) = .5 DB
VALUE WHOLE DB VALUE (00 THRU 20)

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.

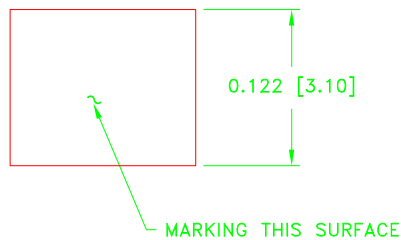
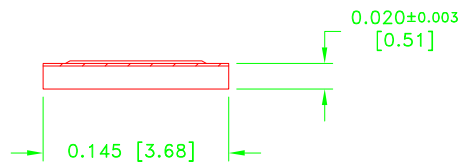
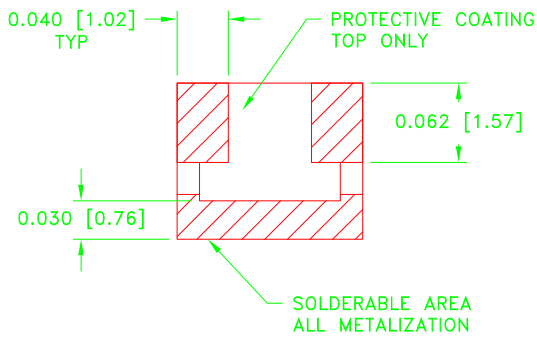
3.3 TEST DATA REQUIREMENTS:

3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.

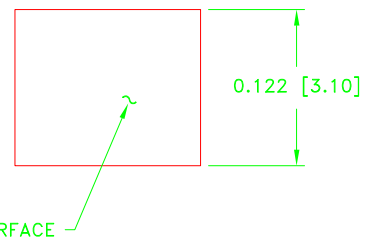
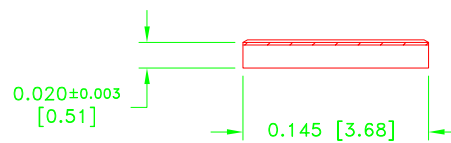
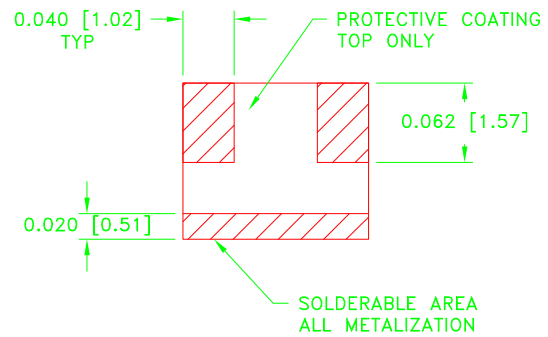
3.3.1 DATA RETENTION - 24 MONTHS.

4.0 PACKAGING: STANDARD PACK PER 755W002.

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



0-10.5dB



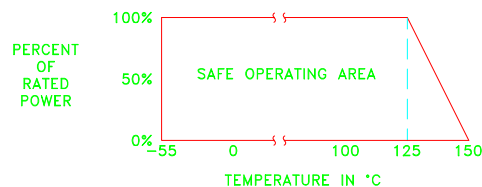
11-20dB

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