

TITLE: SPECIFICATION CONTROL DRAWING
EMC PROPRIETARY


[illegible]

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE STUART, FLORIDA 34997	CAGE CODE # 24602	DWG# 1003365000	SHEET	REF
			REV LEVEL	F

423F006 REV. -

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TT3XXXS

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

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.

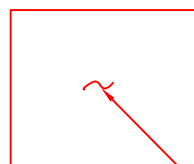
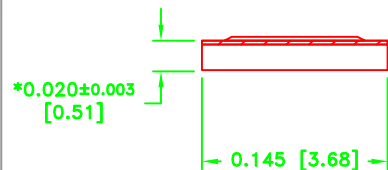
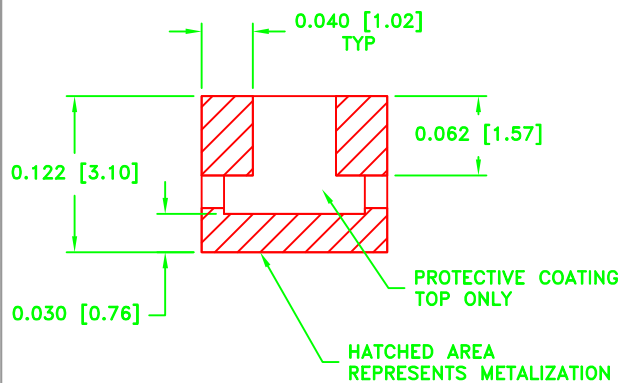
2.0 UNIT MARKING: "DB VALUE", GREEN DOT ADDS 0.5DB.
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

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.

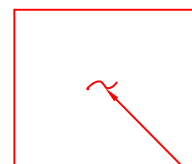
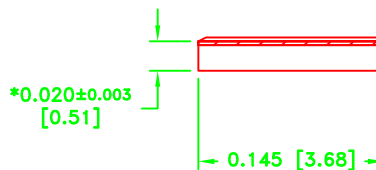
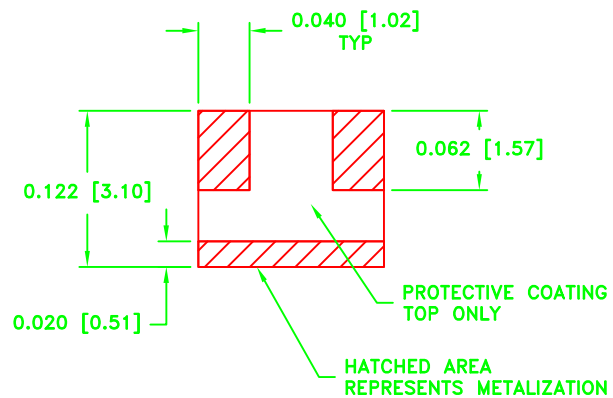
4.0 PACKAGING: STANDARD PACK PER 755W002.

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



UNITS MARKED ON THIS SURFACE

0-10.5dB

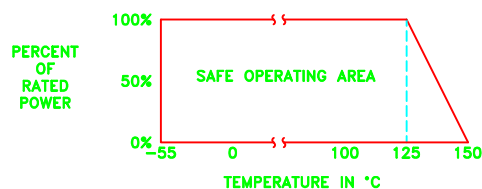


UNITS MARKED ON THIS SURFACE

11-20dB

MECHANICAL SPECIFICATIONS:

MATERIAL - ALUMINA 96%, MIL-I-10.

SUBSTRATE:
MATERIAL - THICK FILM, NICKEL BARRIER,
SOLDER COATED.TERMINAL:
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 DERATING8851 SW OLD KANSAS AVE
STUART, FL 34997
PHONE NO. (772)286-9300
FAX NO. (772)283-5286UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHESTOLERANCESFRACT ---
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

24602

SCALE

10:1

DRAWN BY

BC 4/3/02

CHECKED BY

APPROVED BY

DAR 4/3/02

REV

F

CHANGE NOTICE

EN 10-0911

DRAWING NO

1003365000

SHEET

2 OF 2