

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# 1001145000	SHEET	REF
			REV LEVEL	D

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TT3XXXG

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

DESCRIPTION: CHIP ATTENUATOR

ASSEMBLY DWG: 1900724

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 0.5 DB 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	±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.

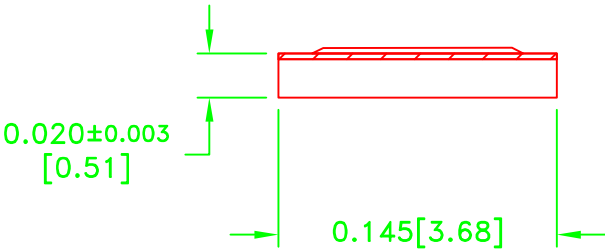
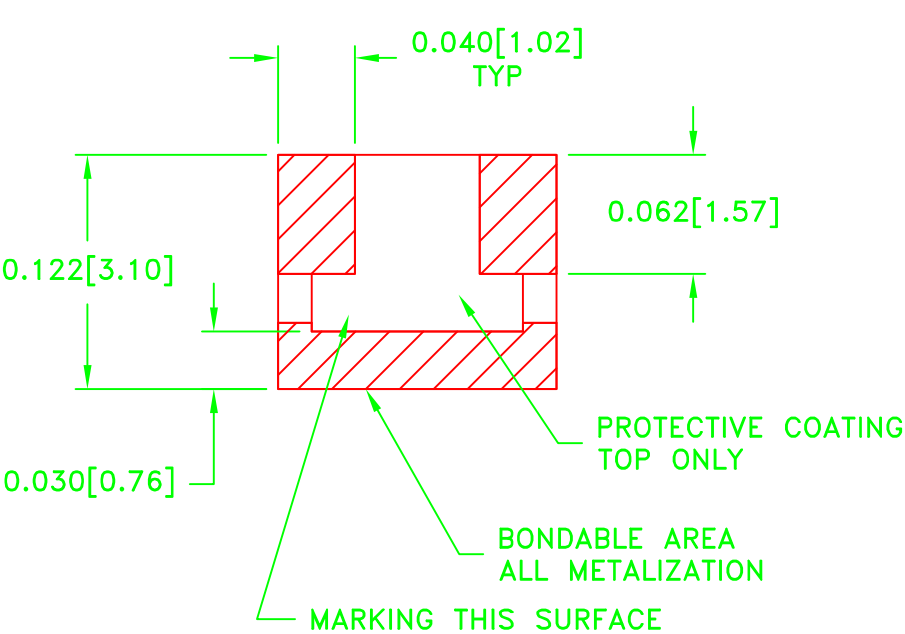
3.0 QUALITY ASSURANCE:

- 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 QA0006 AND FORM0357 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.

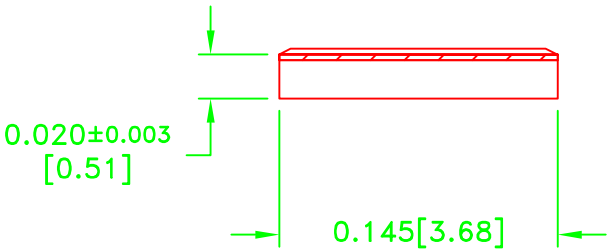
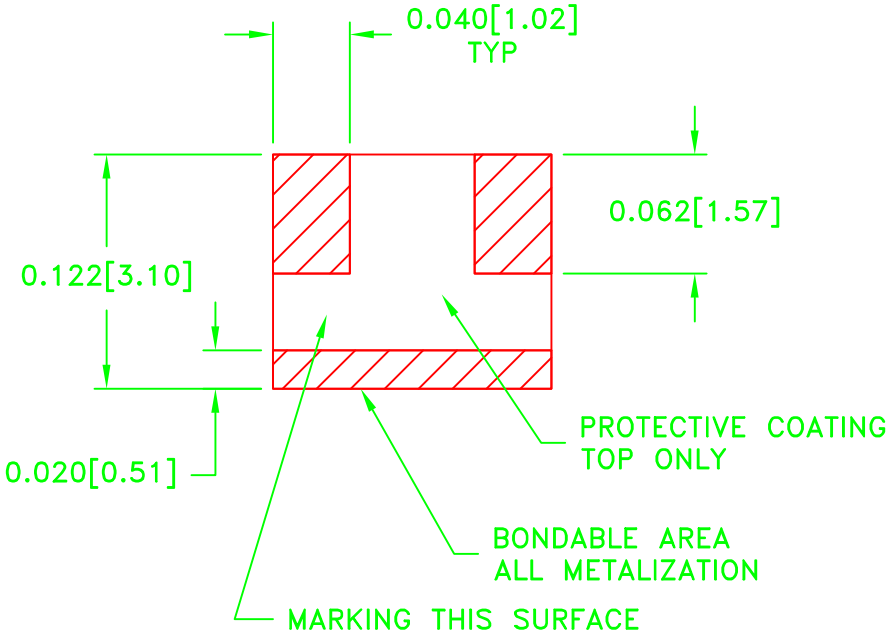
4.0 PACKAGING: STANDARD PACKPER MC0023.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1001145000
	CHANGE NOTICE	EN 04-E231	REV LVL	D
			SHEET	1 OF 2

PART ID REF
TT3XXXG



0-10.5dB



11-20dB

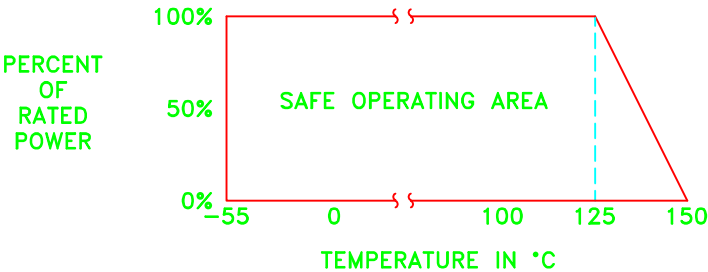
MECHANICAL SPECIFICATIONS:

SUBSTRATE:
MATERIAL - ALUMINA 96%, MIL-I-10.
TERMINAL:
MATERIAL - BONDABLE GOLD.
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		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.				
	TOLERANCES		CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
	FRACT --- -- ANG --- -- XX --- -- XXX ±0.005 XXXX --- --		24602	10:1	BC 4/3/02		DAR 4/3/02
	REV	CHANGE NOTICE	DRAWING NO		SHEET		
	D	EN 02-091	1001145000		2 OF 2		