

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# 1012195000	SHEET	REF
			REV LEVEL	-

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: TT5XX0G
(XX) DB VALUE

DESCRIPTION: CHIP ATTENUATOR

ASSEMBLY DWG: 1902234

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-18 GHZ.
- 1.1.3 ATTENUATION VALUES AVAILABLE: 0-20 DB IN 1 DB INCREMENTS.
- 1.1.4 ATTENUATION ACCURACY: SEE TABLE.

ATTENUATION ACCURACY				
DB	DC - 4 GHZ	4 - 8 GHZ	8 - 12.4 GHZ	12.4 - 18 GHZ
0	-0,+3	-0,+5	-0,+5	-0,+5
1 -3	±0.3	±0.5	±0.5	±0.5
4 - 6	±0.4	±0.5	±0.5	±0.75
7 - 10	±0.5	±0.5	±0.75	±1.0
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: DC - 4 GHZ - 1.25 MAX 8 - 18 GHZ - 1.50 MAX
4 - 8 GHZ - 1.35 MAX

- 1.1.6 INPUT POWER: 100 MILLIWATTS 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, 1 WATT 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.

2.0 UNIT MARKING: MARKED ONLY WITH COLOR DOT. 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 DWG REQUIREMENTS.

3.2 PERFORM INSPECTION IN ACCORDANCE WITH QA0006 AND FORM0357 FOR COMMERCIAL GRADE PRODUCT.

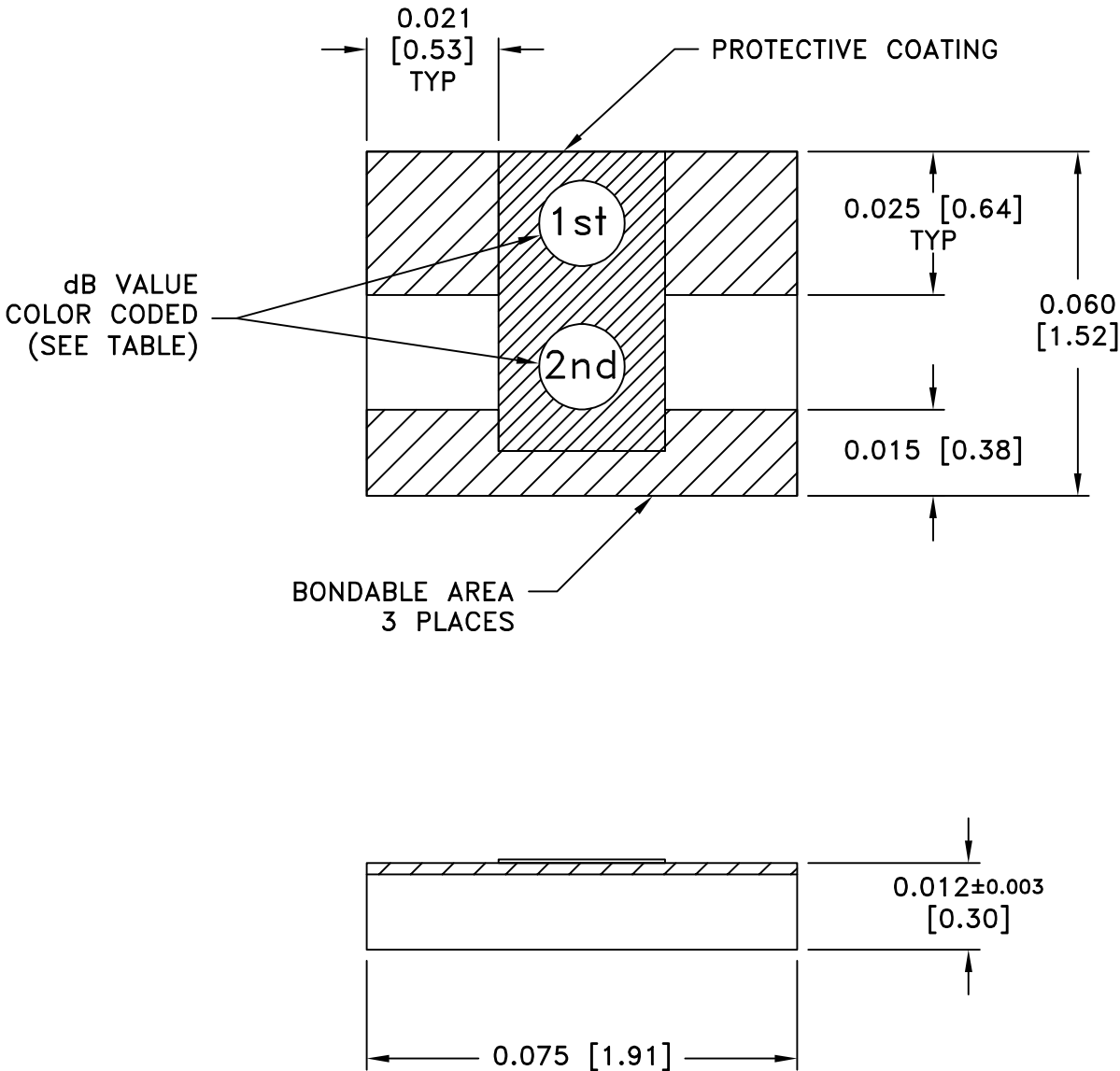
3.3 TEST DATA REQUIREMENTS:

- 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
- 3.3.2 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 #	1012195000
	CHANGE NOTICE	EN 09-E0956	REV LVL	-
			SHEET	1 OF 2

PART ID	REF
TT5XXXG	



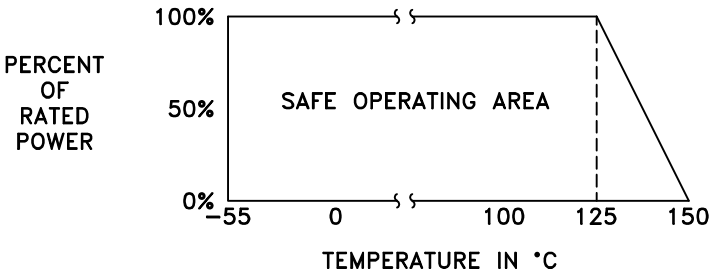
MECHANICAL SPECIFICATIONS:


SUBSTRATE:
MATERIAL – ALUMINA, MIL-I-10.
TERMINALS:
MATERIAL – THICK FILM, BONDABLE GOLD.
RESISTIVE ELEMENT:
MATERIAL – THIN FILM, TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY

REFERENCE TABLE					
dB VAL	DOT COLOR		dB VAL	DOT COLOR	
	1st	2nd		1st	2nd
0	BLK	---	11	BRN	BRN
1	BRN	---	12	BRN	RED
2	RED	---	13	BRN	ORG
3	ORG	---	14	BRN	YEL
4	YEL	---	15	BRN	GRN
5	GRN	---	16	BRN	BLU
6	BLU	---	17	BRN	VIO
7	VIO	---	18	BRN	GRY
8	GRY	---	19	BRN	WHT
9	WHT	---	20	RED	BLK
10	BRN	BLK			

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	--- --	24602	32:1	JG 10/15/09		
	ANG	--- --	REV	CHANGE NOTICE		DRAWING NO	SHEET
	XX	---	—	EN 09—E0956		1012195000	2 OF 2
	XXX	±0.005					
	XXXX	---					