

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 8111

DESCRIPTION: 50 OHM FLANGE LOAD

ASSEMBLY DWG: 2100054

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-26.5GHZ.
- 1.1.3 INPUT POWER (MAX @ 60°C): (DERATED LINEARLY TO ZERO POWER @ 150°C).
 - 1.1.3.1 AVERAGE: 1 WATT.
 - 1.1.3.2 PEAK: 100 WATTS (100US PULSE WIDTH AND 0.1% DUTY CYCLE).
- 1.1.4 VSWR: SEE TABLE BELOW.

MAXIMUM VSWR				
DC - 4 GHZ	4 - 8 GHZ	8 - 12 GHZ	12 - 18 GHZ	18 - 26.5 GHZ
1.05	1.10	1.15	1.15	1.20

1.2 MECHANICAL:

- 1.2.1 OUTLINE DWG: SEE SHEET 2.

1.3 ENVIRONMENTAL:

- 1.3.1 TEMPERATURE RANGE:
 - 1.3.1.1 NON-OPERATING: -55°C TO +150°C.
 - 1.3.1.2 OPERATING: -55°C TO +150°C.
- 1.3.2 VIBRATION: PER MIL-STD-202, METHOD 201 AND MIL-D-39030.
- 1.3.3 SHOCK: PER MIL-STD-202, METHOD 213, COND. I.
- 1.3.4 MOISTURE: PER MIL-STD-202, METHOD 106 AND MIL-D-39030 EXCEPT LOADING VOLTAGE IS NOT APPLICABLE.

2.0 UNIT MARKING: "EMCT"

LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

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

3.2 TEST DATA REQUIREMENTS:

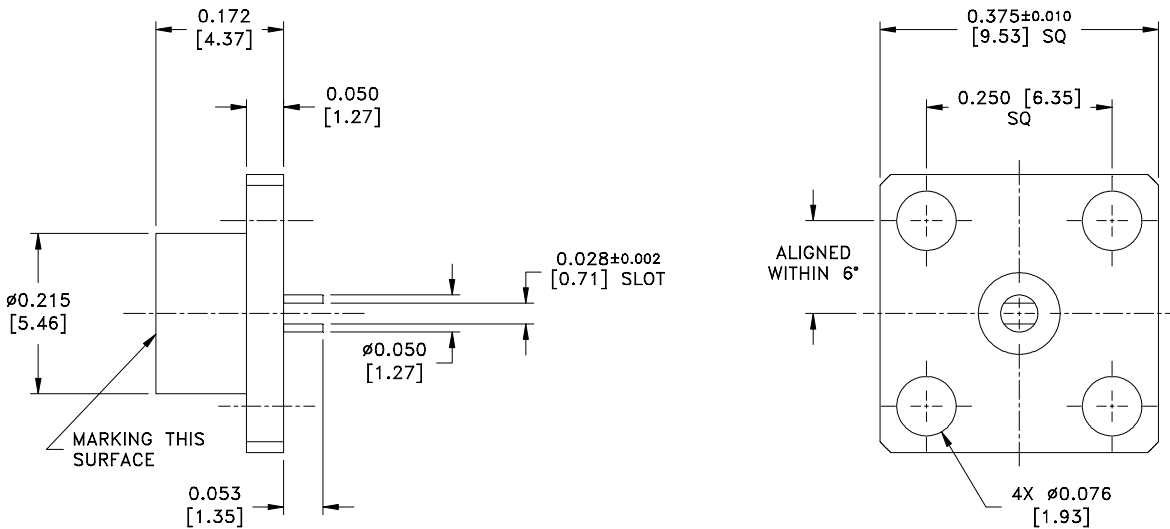
- 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
- 3.2.2 DATA RETENTION - 24 MONTHS

4.0 PACKAGING: STANDARD PACK PER MC0023.

ENG		PUR		MFG		PLAN		SM		
CC				QA						
EMC TECHNOLOGY, INC 1971 OLD CUTHBERT ROAD CHERRY HILL, NJ 08034		CAGE CODE # 24602					DWG #	1004705000		
		CHANGE NOTICE	EN 01-411				REV LVL	F		
							SHEET	1 OF 2		

PART ID REF

8111



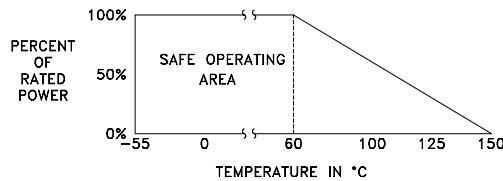
MECHANICAL SPECIFICATIONS:

- CASE:**
 MATERIAL - ALUMINUM ALLOY, QQ-A-225.
 FINISH - CHROMATE, MIL-C-5541.
- PIN:**
 MATERIAL - BERYLLIUM COPPER, ASTM B197.
 FINISH - GOLD, MIL-G-45204, TYPE II, CLASS 1.
- DIELECTRIC:**
 MATERIAL - AIR.
- CERAMIC:**
 MATERIAL - ALUMINA, MIL-I-10.

METRIC EQUIVALENTS GIVEN IN [mm]
 FOR REFERENCE INFORMATION ONLY



POWER RATING AND DERATING



EMC TECHNOLOGY INC
 1971 OLD CUTHBERT RD
 CHERRY HILL NJ 08034
 PHONE NO. (856) 429-7800
 FAX NO. (856) 429-1807

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES
 FRACT ----
 ANG ----
 XX ±0.01
 XXX ±0.005
 XXXX -----

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CAGE CODE 24602	SCALE 1:1	DRAWN BY CME 09/07/2001	CHECKED BY	APPROVED BY DAR 9/14/01
REV F	CHANGE NOTICE EN 01-411	DRAWING NO 1004705000	SHEET 2 OF 2	