

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 8431

DESCRIPTION: 50 OHM FLANGE LOAD

ASSEMBLY DWG: 2100004

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-18 GHZ.
- 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 (100 US PULSE WIDTH AND 0.1% DUTY CYCLE).
- 1.1.4 VSWR:
 - DC TO 4.0 GHZ - 1.10 MAX.
 - 4.0 TO 8.0 GHZ - 1.15 MAX.
 - 8.0 TO 12.0 GHZ - 1.20 MAX.
 - 12.0 TO 18.0 GHZ - 1.30 MAX.

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:

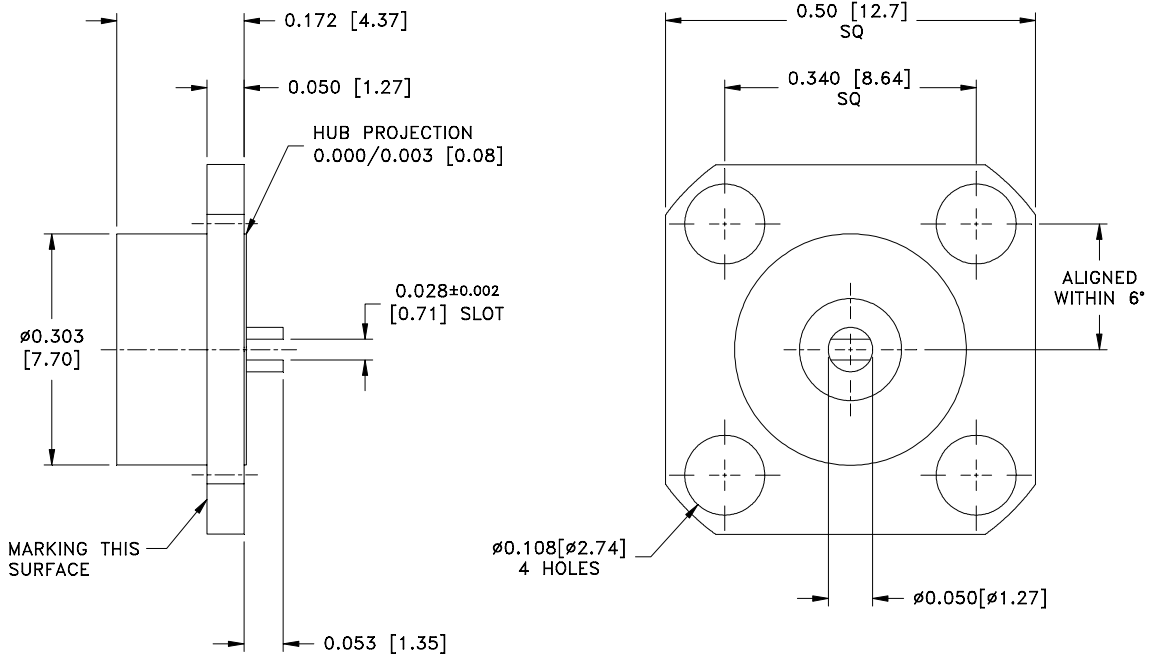
- 3.1 PERFORM INSPECTION IN ACCORDANCE WITH QA0006 AND FORM0357 FOR COMMERCIAL GRADE PRODUCT.
- 3.2 TEST DATA REQUIREMENTS:
 - 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
 - 3.2.2 DATA RETENTION – 24 MONTHS.

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 #	1000175000		
		CHANGE NOTICE	EM 01-305				REV LVL	E		
							SHEET	1 OF 2		

PART ID REF

8431



MECHANICAL SPECIFICATIONS:

FLANGE FACE CASE:

MATERIAL - ALUMINUM ALLOY, QQ-A-250.
FINISH - CHROMATE, MIL-C-5541.

FLANGE HUB:

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.

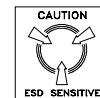
DIELECTRIC:

MATERIAL - TEFLON, ASTM D1710.

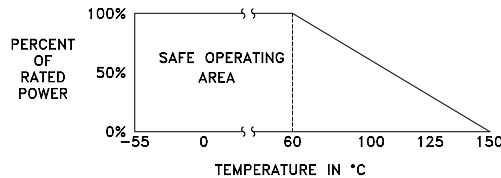
CERAMIC:

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 08/15/2001	CHECKED BY	APPROVED BY DAR 8/21/01
REV E	CHANGE NOTICE EN 01-305	DRAWING NO 1000175000	SHEET 2 OF 2	