



**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 8124

**DESCRIPTION:** 50 OHM FLANGE LOAD

**ASSEMBLY DWG:** 2101014

**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:
  - DC TO 4 GHZ - 1.10 MAX.
  - 4.1 TO 12 GHZ - 1.15 MAX.
  - 12.1 TO 26.5 GHZ - 1.20 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:**

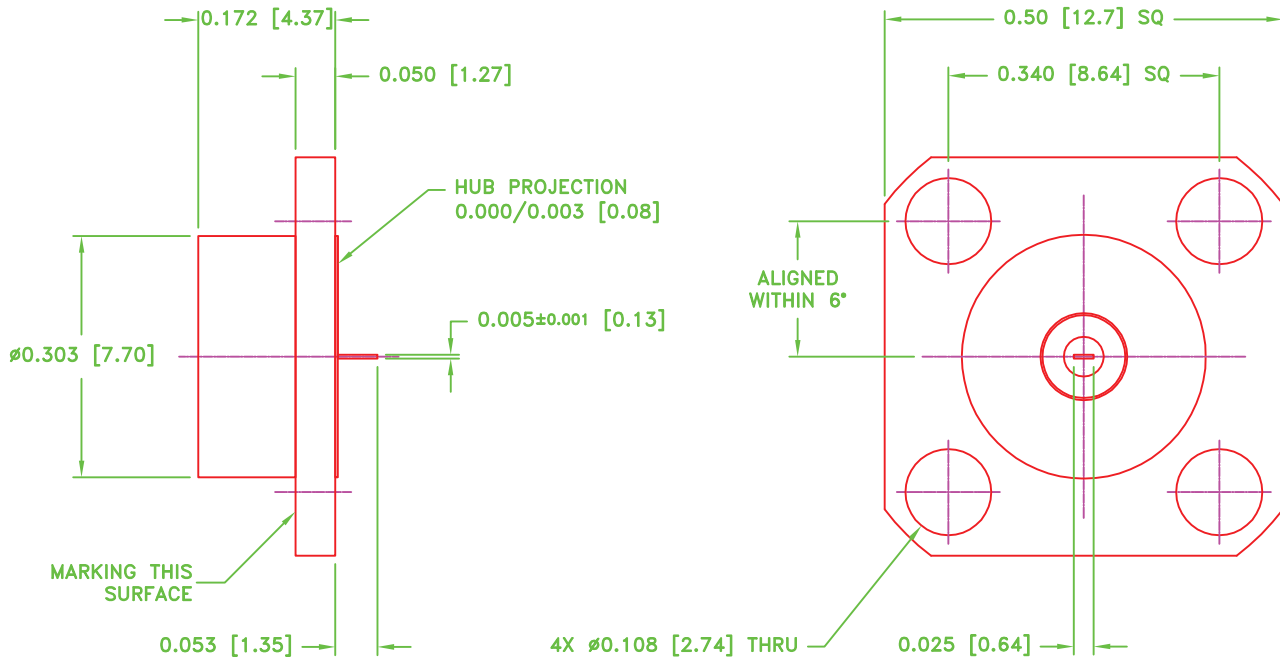
- 3.1 PERFORM INSPECTION IN ACCORDANCE WITH QA0006 AND FORM0357 FOR COMMERCIAL GRADE PRODUCT.
- 3.2 TEST DATA REQUIREMENTS:
  - 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.2.2 DATA RETENTION – 24 MONTHS.

**4.0 PACKAGING: STANDARD PACKING PER 755W002**

<b>EMC TECHNOLOGY</b> <b>8851 SW OLD KANSAS AVE.</b> <b>STUART, FL 34997</b>	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1004945000
	<b>CHANGE NOTICE</b>	EN 16-0589	<b>REV LVL</b>	E
			<b>SHEET</b>	1 OF 2

PART NO.

8124



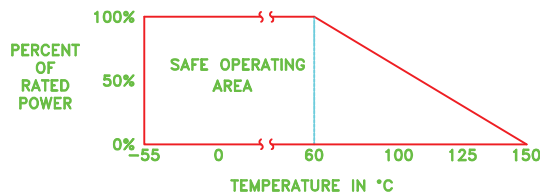
**MECHANICAL SPECIFICATIONS:**

- FLANGE FACE:
  - MATERIAL - ALUMINUM ALLOY, QQ-A-250.
  - FINISH - CHROMATE, MIL-C-5541, CLASS 3, TYPE 1
- FLANGE HUB:
  - MATERIAL - ALUMINUM ALLOY, QQ-A-225.
  - FINISH - CHROMATE, MIL-C-5541, CLASS 3, TYPE 1
- 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 METRIC FOR REFERENCE INFORMATION ONLY



**POWER RATING AND DERATING**



**TOLERANCES**  
DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED

X.XX	$\pm 0.01$
X.XXX	$\pm 0.005$
X.XXXX	$\pm$
FRACTIONS	$\pm 1/16$
ANGLES	$\pm 5$

VENDOR CODE: -	EMC CAGE CODE: 24602	RF CAGE CODE: 2Y194	TITLE: <b>FLANGE LOAD</b>
CURRENT EN NUMBER: 16-0589	CURRENT REVISION: E	DRAWN BY: KT	DATE: 5/31/16
LAST EN NUMBER: 14-1960	LAST REVISION: D	DRAWN BY: TS	DATE: 2/5/15
DRAWING NUMBER: <b>1004945000</b>		REFERENCE / MRP NUMBER: 8124	PLOT SCALE: -
SHEET: 2 of 2			