

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 8464

**DESCRIPTION:** 50 OHM FLANGE LOAD

**ASSEMBLY DWG:** 2100504

**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 FOR 100 US PULSE WIDTH @ 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"**

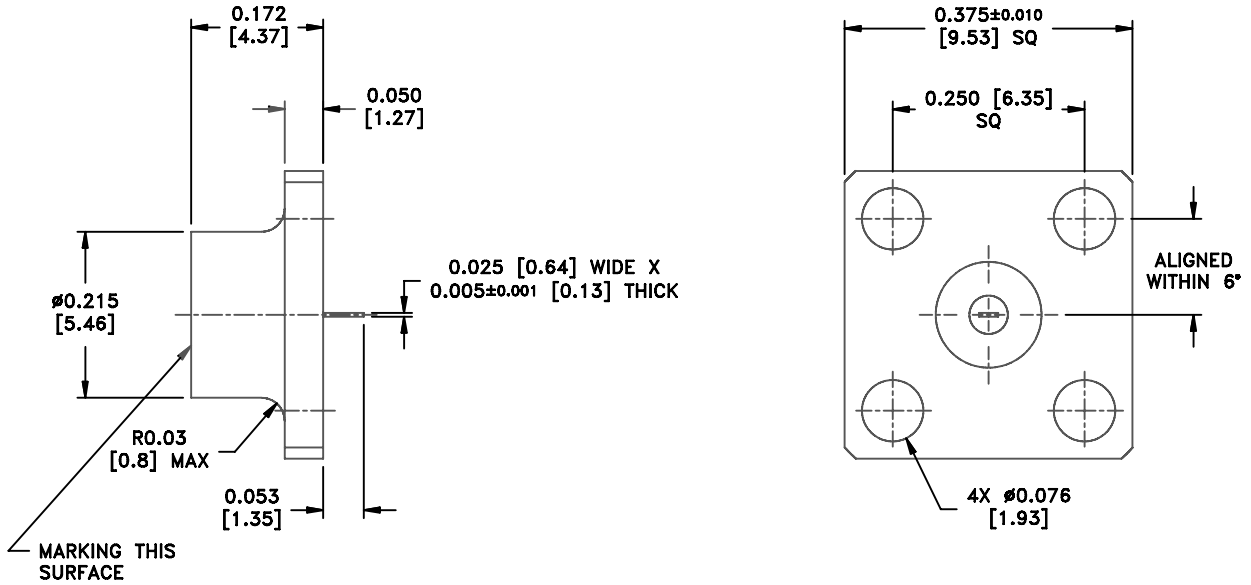
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

**3.0 QUALITY ASSURANCE:**

- 3.1 PERFORM INSPECTION IN ACCORDANCE WITH 824W107 AND 824F036 FOR COMMERCIAL GRADE PRODUCT.
- 3.2 TEST DATA REQUIREMENTS:
  - 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.2.1 DATA RETENTION – 24 MONTHS.

**4.0 PACKAGING: STANDARD PACK PER 755W002.**

|  |                          |            |                |            |
|--|--------------------------|------------|----------------|------------|
| <b>EMC TECHNOLOGY</b><br><b>8851 SW OLD KANSAS AVE</b><br><b>STUART, FLORIDA 34997</b> | <b>CAGE CODE # 24602</b> |            | <b>DWG #</b>   | 1002305000 |
|  | <b>CHANGE NOTICE</b>     | EN 10-0911 | <b>REV LVL</b> | G          |
|  |                          |            | <b>SHEET</b>   | 1 OF 2     |



**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:**

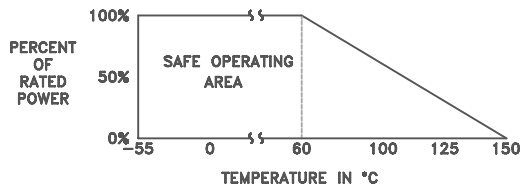
MATERIAL - TEFLON, ASTM D1710.

**CERAMIC:**

MATERIAL - ALUMINA, MIL-I-10.

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

TOLERANCES

|       |        |
|-------|--------|
| FRACT | ---    |
| ANG   | ---    |
| XX    | ±0.01  |
| XXX   | ±0.005 |
| XXXX  | ---    |

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|           |               |                |            |             |
|-----------|---------------|----------------|------------|-------------|
| CAGE CODE | SCALE         | DRAWN BY       | CHECKED BY | APPROVED BY |
| 24602     | 1:1           | CRH 02/08/2007 |            |             |
| REV       | CHANGE NOTICE | DRAWING NO     | SHEET      |             |
| G         | EN 10-0911    | 1002305000     | 2 OF 2     |             |