

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 8113

DESCRIPTION: 50 OHM FLANGE LOAD

ASSEMBLY DWG: 2100074

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-26.5 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: 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 755W002.

| | | | | |
|---|-------------------|------------|---------|------------|
| EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997 | CAGE CODE # 24602 | | DWG # | 1004725000 |
| | CHANGE NOTICE | EN 14-1247 | REV LVL | G |
| | | | SHEET | 1 OF 2 |