



**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 8485

**DESCRIPTION:** 50 OHM FLANGE LOAD

**ASSEMBLY DWG:** 2100714

**1.0 SPECIFICATIONS:**

1.1 ELECTRICAL:

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY RANGE: DC-14.5 GHZ.
- 1.1.3 INPUT POWER (MAX @ 60°C):
  - 1.1.3.1 AVERAGE: 25 WATTS.
  - 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 - 1.15 MAX.
  - 4.0 TO 8.0 GHZ - 1.25 MAX.
  - 8.0 TO 12.0 GHZ - 1.25 MAX.
  - 12.0 TO 14.5 GHZ - 1.50 MAX.

1.2 MECHANICAL:

- 1.2.1 OUTLINE DWG: SEE SHEET 2.
- 1.2.2 WORKMANSHIP: PER MIL-STD-454, REQUIREMENT 9.

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 +125°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 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
  - 3.1.1 VISUAL AND MECHANICAL EXAMINATION FOR CONFORMANCE TO CONTROL DRAWING REQUIREMENTS, INCLUDING SMA INTERFACE.
  - 3.1.2 MEASURE AND RECORD VSWR @ 1 TO 18 GHZ IN 1 GHZ INCREMENTS.
    - 3.1.2.1 ACCEPTANCE LIMITS: SEE ELECTRICAL 1.1.4.
- 3.2 TEST DATA REQUIREMENTS:
  - 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.2.2 DATA RETENTION - STANDARD.

**4.0 PACKAGING:**

STANDARD PACK PER 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE STUART, FLORIDA 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1000725000
	<b>CHANGE NOTICE</b>	EN 12-2139	<b>REV LVL</b>	F
			<b>SHEET</b>	1 OF 2