



**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 8115

**DESCRIPTION:** 50 OHM FLANGE LOAD

**ASSEMBLY DWG:** 2100094

**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: 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 824W170 AND 824F036 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, FLORIDA 34997	CAGE CODE # 24602		DWG #	1004745000
	CHANGE NOTICE	EN 10-0911	REV LVL	G
			SHEET	1 OF 2