

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 12-125-TP

**DESCRIPTION:** PILL TERMINATION

**ASSEMBLY DWG:** 1400194

**1.0 SPECIFICATIONS:**

**1.1 ELECTRICAL:**

- 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
- 1.1.2 FREQUENCY: DC-26.5 GHZ.
- 1.1.3 INPUT POWER (MAX @ 25°C): (DERATED LINEARLY TO ZERO POWER @ 150°C)
  - 1.1.3.1 AVERAGE: 3 WATTS.
  - 1.1.3.2 PEAK: 100 WATTS, 100US PULSE WIDTH AND 0.1% DUTY CYCLE.
- 1.1.4 VSWR: 1.35 MAX.
- 1.1.5 SCHEMATIC: SEE SHEET 2, FIG. 2.

**1.2 MECHANICAL:**

- 1.2.1 OUTLINE DWG: SEE SHEET 2, FIGURE 1.
- 1.2.2 WORKMANSHIP: PER MIL-D-39030.

**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.

**2.0 UNIT MARKING:** "12-125-TP AND EMCT"  
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

**3.0 QUALITY ASSURANCE:**

- 3.1 PERFORM INSPECTION IN ACCORDANCE WITH 824F170 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.

<b>EMC TECHNOLOGY</b> <b>8851 SW OLD KANSAS AVE</b> <b>STUART, FLORIDA 34997</b>	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1004045000
	<b>CHANGE NOTICE</b>	EN 10-0911	<b>REV LVL</b>	E
			<b>SHEET</b>	1 OF 2

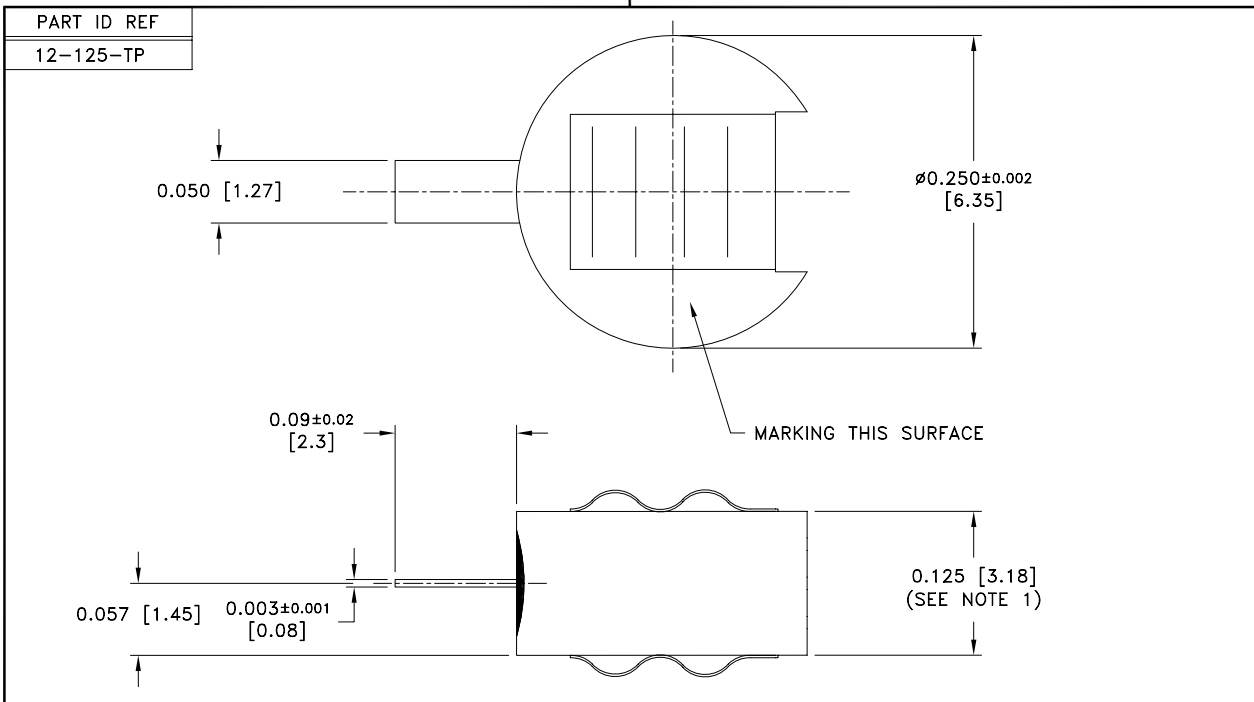


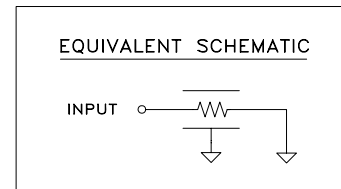
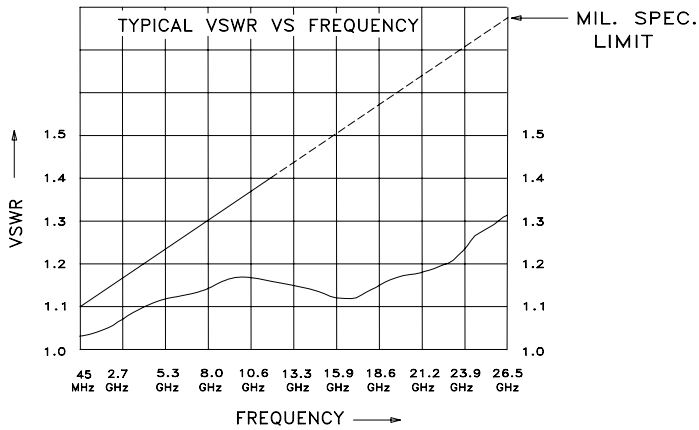
FIGURE 1

**MECHANICAL SPECIFICATIONS:**

**CASE:**  
 MATERIAL - BRASS, ASTM B16.  
 FINISH - GOLD, MIL-G-45204, TYPE II, CLASS 1.  
**TAB:**  
 MATERIAL - BERYLLIUM COPPER, ASTM B197.  
 FINISH - GOLD, MIL-G-45204, TYPE II, CLASS 1.  
**SPRING:**  
 MATERIAL - BERYLLIUM COPPER, ASTM B194.  
 FINISH - GOLD, MIL-G-45204, TYPE II CLASS 1.  
**CERAMIC:**  
 MATERIAL - ALUMINA, MIL-I-10.

METRIC EQUIVALENTS GIVEN IN [mm]  
 FOR REFERENCE INFORMATION ONLY

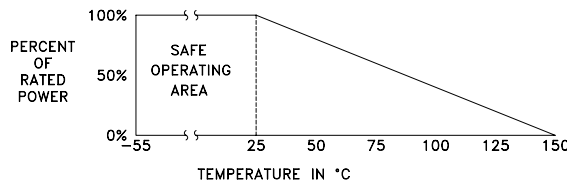
**NOTE:**  
 1. MINIMUM EXPANDED SIZE - 0.125 + 0.015.  
 MAXIMUM COMPRESSED SIZE - 0.125 - 0.004.



NOTE: EFFECTS OF TEST FIXTURE REMOVED USING T.D.R. GATING TECHNIQUES.  
 (MEASURED ON H.P. 8510 NETWORK ANALYZER)

FIGURE 2

**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 <b>TOLERANCES</b> FRACT --- ANG --- XX --- XXX ±0.005 XXXX ---	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EMC TECHNOLOGY INC AND SHALL NOT BE DUPLICATED OR USED AS BASIS FOR THE MANUFACTURE OR SALE OF PARTS OR DEVICES WITHOUT PERMISSION.					
		CAGE CODE <b>24602</b>	SCALE <b>1:1</b>	DRAWN BY <b>CME 08/30/2001</b>	CHECKED BY	APPROVED BY <b>DAR 9/4/01</b>	
	REV <b>E</b>	CHANGE NOTICE <b>EN 10-0911</b>		DRAWING NO <b>1004045000</b>	SHEET <b>2 OF 2</b>		