

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 55XX
(XX) DB VALUE

DESCRIPTION: HIGH POWER STRIPLINE ATTENUATOR

ASSEMBLY DWG: 1700334

1.0 SPECIFICATIONS:

- 1.1 ELECTRICAL:
 - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
 - 1.1.2 FREQUENCY RANGE: DC-2.0 GHZ.
 - 1.1.3 ATTENUATION VALUES AVAILABLE: 0-10DB IN 1DB INCREMENTS AND 20DB.
 - 1.1.4 ATTENUATION ACCURACY @ 1 GHZ: 0 - 10 DB, ±0.5 DB.
20 DB, ±1.0 DB.
 - 1.1.5 POWER DISSIPATION (MAX @ 100°C):
 - 1.1.5.1 AVERAGE: 125 WATTS.
 - 1.1.5.2 PEAK: 1250 WATTS FOR 10US WIDTH @ 1% DUTY CYCLE..
 - 1.1.6 VSWR: DC - 1 GHZ - 1.25 MAX.
- 1.2 MECHANICAL:
 - 1.2.1 OUTLINE DWG: SEE SHEET 2.
 - 1.2.2 WORKMANSHIP: PER MIL-PRF-55342.
- 1.3 ENVIRONMENTAL:
 - 1.3.1 TEMPERATURE RANGE:
 - 1.3.1.1 STORAGE: -65°C TO +150°C.
 - 1.3.1.2 OPERATING: -55°C TO +150°C.

2.0 UNIT MARKING: "INPUT" EMC LOGO AND PART ID
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

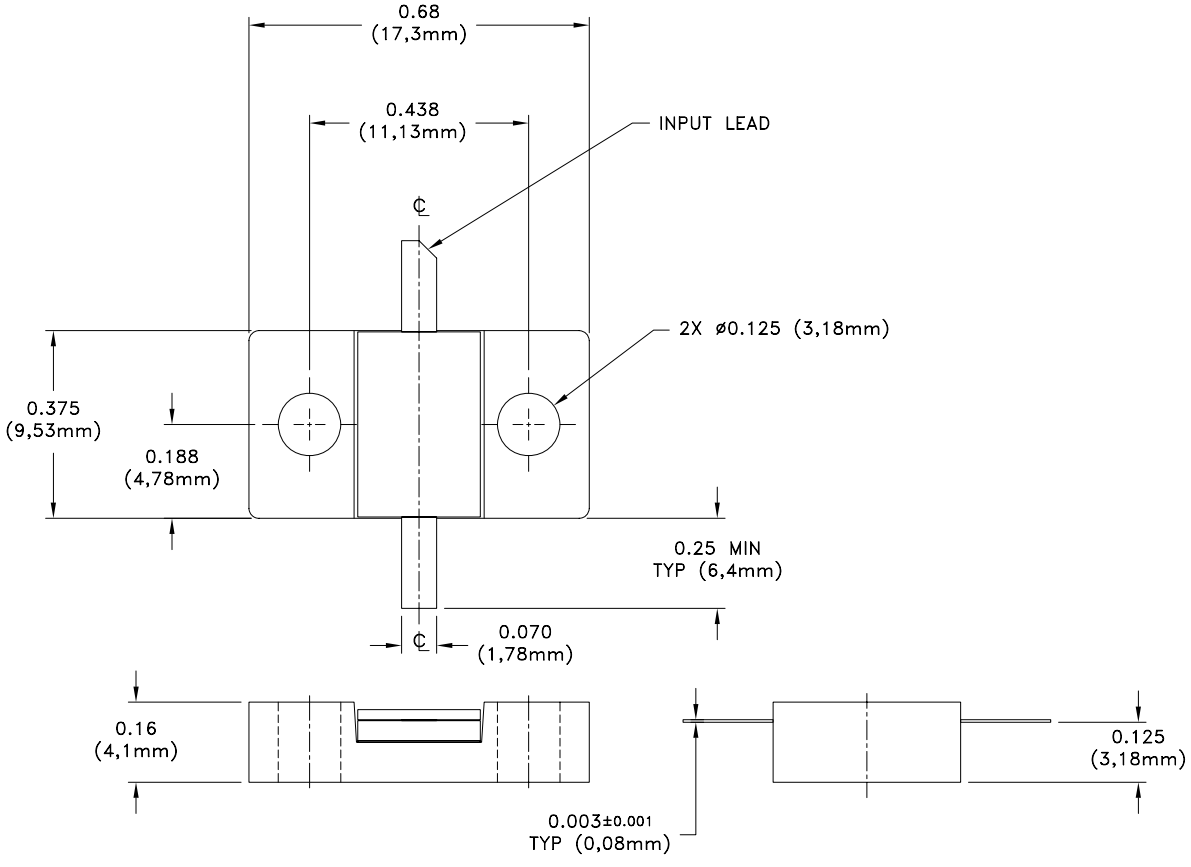
3.0 QUALITY ASSURANCE:

- 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 MIL-PRF-55342 AND CONTROL DRAWING REQUIREMENTS.
 - 3.1.2 MEASURE AND RECORD VSWR AND ATTENUATION @ 1 GHZ.
 - 3.1.3 ACCEPTANCE LIMITS:
 - 3.1.3.1 VSWR: SEE ELECTRICAL 1.1.6.
 - 3.1.3.2 ATTENUATION: SEE ELECTRICAL 1.1.4.
 - 3.1.4 **ONLY FOR ITEM 5520 (20Db) PERFORM THE FOLLOWING TEST:**
 - 3.1.4.1 5 CYCLE BURN-IN (1-1/2 HR. ON ; 1/2 HR. OFF) @ 125 WATTS @ 100°C.
 - 3.1.4.2 MEASURE AND RECORD VSWR AND ATTENUATION @ 1 GHZ..
 - 3.1.4.3 ACCEPTANCE LIMITS:
- 3.2 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 #	1008225000
	CHANGE NOTICE	EN 10-0911	REV LVL	G
			SHEET	1 OF 2

PART ID REF
55XX




MECHANICAL SPECIFICATIONS:

- CHIP:
MATERIAL - BERYLLIA, ASTM F356.
- TOP PLATE:
MATERIAL - ALUMINA, MIL-I-10.
- TAB:
MATERIAL - BERYLLIUM COPPER, ASTM B194.
FINISH - GOLD, MIL-G-45204, TYPE II, CLASS 1.
- HEAT SINK:
MATERIAL - COPPER, ASTM B187.
FINISH - NICKEL, QQ-N-290.

ALLOW +/- ON TOP PLATE FOR MISALIGNMENT.

METRIC EQUIVALENTS ARE GIVEN FOR
REFERENCE INFORMATION ONLY

 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 --- --	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 24602	SCALE 1:1	DRAWN BY JG 8/14/07	CHECKED BY	APPROVED BY DAR 8/14/07
	REV G	CHANGE NOTICE EN 10-0911	DRAWING NO 1008225000	SHEET 2 OF 2	