

**TITLE: SPECIFICATION CONTROL DRAWING**

**PART IDENTIFIER:** 5657

**DESCRIPTION:** HIGH POWER LOAD, BERYLLIA

**ASSEMBLY DWG:** 1700234

**1.0 SPECIFICATIONS:**

1.1 ELECTRICAL:

- 1.1.1 RESISTANCE VALUE: 50 OHMS NOMINAL.
- 1.1.2 INPUT POWER: (@ 100°C HEAT SINK, DERATED LINEARLY TO ZERO POWER AT 150°C.)
  - 1.1.2.1 AVERAGE: 150 WATTS.
  - 1.1.2.2 PEAK: 1500 WATTS (BASED ON 100US PULSE WIDTH AND 1% DUTY CYCLE.
- 1.1.3 FREQUENCY RANGE: DC - 2.0 GHZ.
- 1.1.4 VSWR: DC - 1.0 GHZ - 1.10:1 MAX.  
1.0 - 2.0 GHZ - 1.20:1 MAX.

1.2 MECHANICAL:

- 1.2.1 OUTLINE DWG: SEE SHEET 2.
- 1.2.2 WORKMANSHIP: PER MIL-STD-454, REQUIREMENT 9, AND MIL-R-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:** EMCT LOGO, AND "5657".  
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

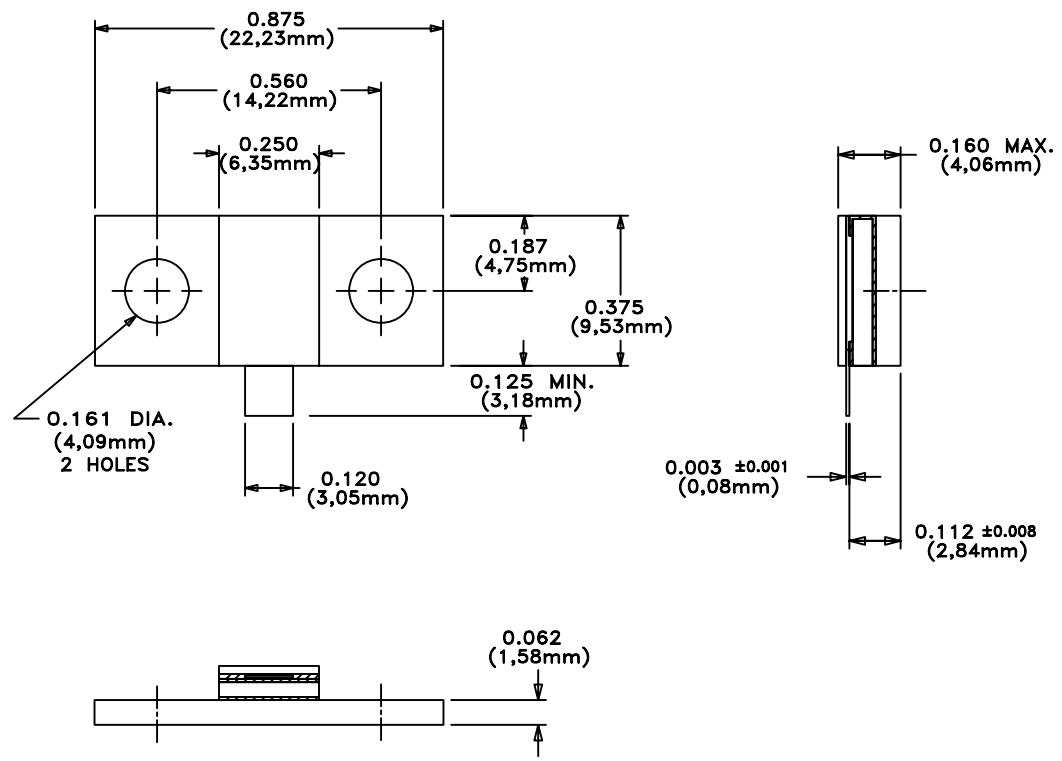
**3.0 QUALITY ASSURANCE:**

- 3.1 VISUAL AND MECHANICAL PER 824W155.
- 3.2 100% DC RESISTANCE CHECK (GO/NO GO):  $50\Omega \pm 5\%$ .
- 3.3 DATA REQUIREMENTS:
  - 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.3.2 DATA RETENTION - STANDARD.

**4.0 PACKAGING:** STANDARD TUBE PACKING PER 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1004345000
	<b>CHANGE NOTICE</b>	EN 08-E0341	<b>REV LVL</b>	F
			<b>SHEET</b>	1 OF 2

PART ID REF
5657




**MECHANICAL SPECIFICATIONS:**

- CHIP:  
MATERIAL - BERYLLIA, ASTM F356.
- TOP PLATE:  
MATERIAL: ALUMINA, MIL-1-10.
- TAB:  
MATERIAL - COPPER, ASTM B152.  
FINISH - SILVER, QQ-5-365, TYPE II, CLASS 1.
- HEAT SINK:  
MATERIAL - COPPER, ASTM B187.  
FINISH - NICKEL, QQ-N-290.

METRIC EQUIVALENTS ARE GIVEN FOR  
REFERENCE INFORMATION ONLY

ALLOW +/-0.010 ON TOP PLATE FOR MISALIGNMENT.

 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.				
	<b>CAGE CODE</b> 24602	<b>SCALE</b> 1:1	<b>DRAWN BY</b> JG 5/1/08	<b>CHECKED BY</b>	<b>APPROVED BY</b>	
	<b>REV</b> F	<b>CHANGE NOTICE</b> EN 08-E0341	<b>DRAWING NO</b> 1004345000	<b>SHEET</b> 2 OF 2		