

TITLE: ENGINEERING CONTROL DRAWING

PART IDENTIFIER: 5307

DESCRIPTION: HIGH POWER LOAD, BERYLLIA

ASSEMBLY DWG: 1700044

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 RESISTANCE VALUE: 50Ω 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: 1250 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 MAX.
1.0 - 2.0 GHZ, 1.25 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.
 - 1.3.2.1 OPERATING: -55°C TO +150°C.

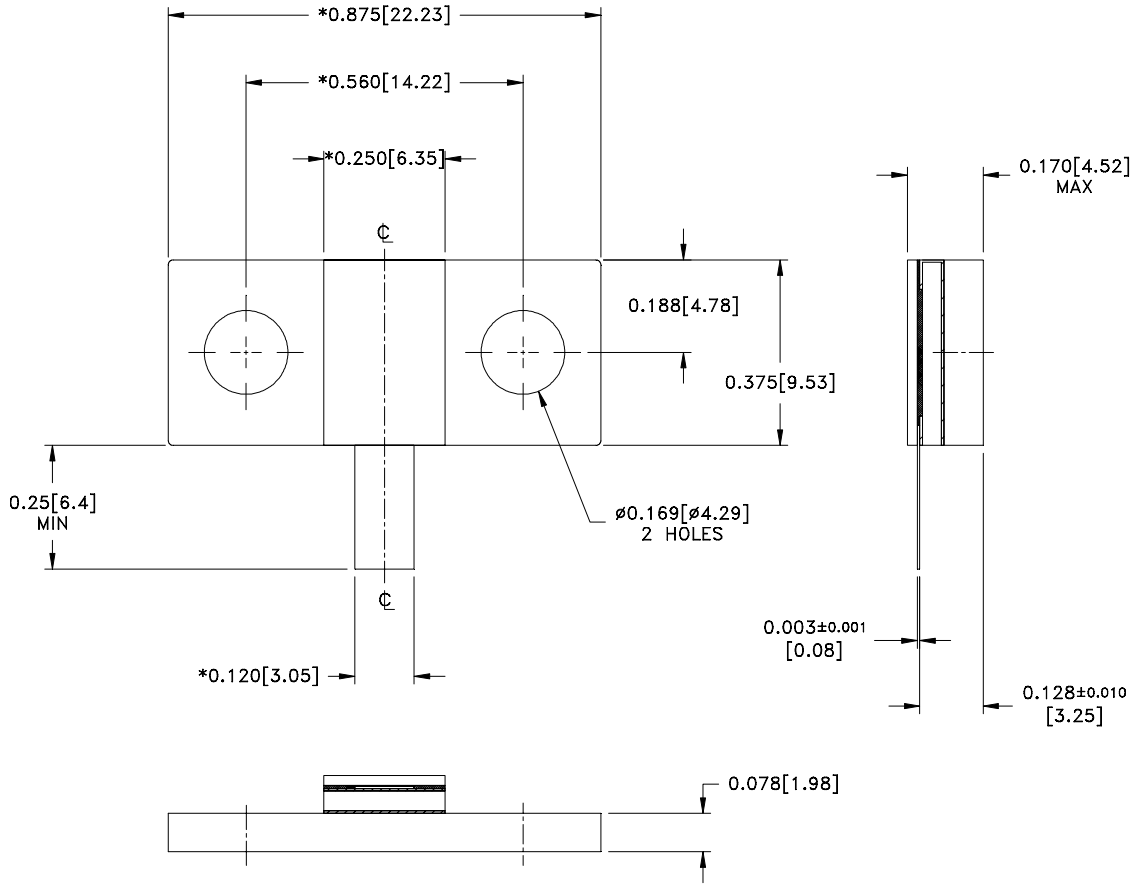
2.0 UNIT MARKING: "EMCT" AND PART IDENTIFIER.
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

- 3.1 VISUAL AND MECHANICAL PER IP-1036.
- 3.2 100% DC RESISTANCE CHECK (GO/NO GO): 50Ω ± 7%.
- 3.3 DATA REQUIREMENTS:
 - 3.3.1 NO TEST DATA REQUIRED FOR CUSTOMER.
 - 3.3.2 DATA RETENTION - STANDARD.

4.0 PACKAGING: STANDARD PACKING PER MC0023.

ENG	PUR	MFG	PLAN	SM	
CC		QA			
EMC TECHNOLOGY, INC 1971 OLD CUTHBERT ROAD CHERRY HILL, NJ 08034	CAGE CODE # 24602			DWG #	1001025000
	CHANGE NOTICE	EN 00-582		REV LVL	K
				SHEET	1 OF 2



MECHANICAL SPECIFICATIONS:

- CHIP:
MATERIAL - BERYLLIA, ASTM F356.
- TOP PLATE:
MATERIAL - ALUMINA, MIL-I-10.
- TAB:
MATERIAL - COPPER, ASTM B152.
FINISH - SILVER, QQ-S-365.
- HEAT SINK:
MATERIAL - COPPER, ASTM B187.
FINISH - NICKEL, QQ-N-290.



METRIC EQUIVALENTS GIVEN IN [mm]
ARE FOR REFERENCE INFORMATION ONLY

ALLOW +/-0.010 ON TOP PLATE FOR MISALIGNMENT.
* DIMENSIONS TO BE SYMMETRICAL ABOUT C.L. WITHIN +/-0.005 .

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		CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY	
		24602	1:1	BEC 12-7-00		FJV 12-15-00	
		REV	CHANGE NOTICE	DRAWING NO	SHEET		
K	EN 00-582	1001025000	2 OF 2				