

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 5308 X,X

TOLERANCE

VALUE

DESCRIPTION: HIGH POWER RESISTOR, BERYLLIA

ASSEMBLY DWG: 1700054

1.0 SPECIFICATIONS:

1.1 ELECTRICAL:

- 1.1.1 RESISTANCE VALUES AVAILABLE: 25Ω TO 250Ω.
- 1.1.2 TOLERANCE: ± 5%.
- 1.1.3 INPUT POWER: (@ 100°C HEAT SINK, DERATED LINEARLY TO ZERO POWER AT 150°C):
 - 1.1.3.1 AVERAGE: 150 WATTS.
 - 1.1.3.2 PEAK: 1500 WATTS (BASED ON 100US PULSE WIDTH AND 1% DUTY CYCLE).
- 1.1.4 FREQUENCY RANGE: DC - 2.0 GHZ.
- 1.1.5 RESISTANCE TEMPERATURE COEFFICIENT: ±100 PPM/°C.
- 1.1.6 CAPACITANCE: 3.8PF TYPICAL.

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, "5308" AND "VALUE".
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

3.1 SAMPLE INSPECT PER MIL-STD-105, LEVEL II, 1.0% AQL.

- 3.1.1 VISUAL AND MECHANICAL EXAMINATION FOR CONFORMANCE TO MIL-R-55342 AND CONTROL DRAWING REQUIREMENTS.
- 3.1.2 MEASURE AND RECORD DCR.
 - 3.1.2.1 ACCEPTANCE LIMITS: SEE ELECTRICAL 1.1.2.

3.2 DATA REQUIREMENTS:

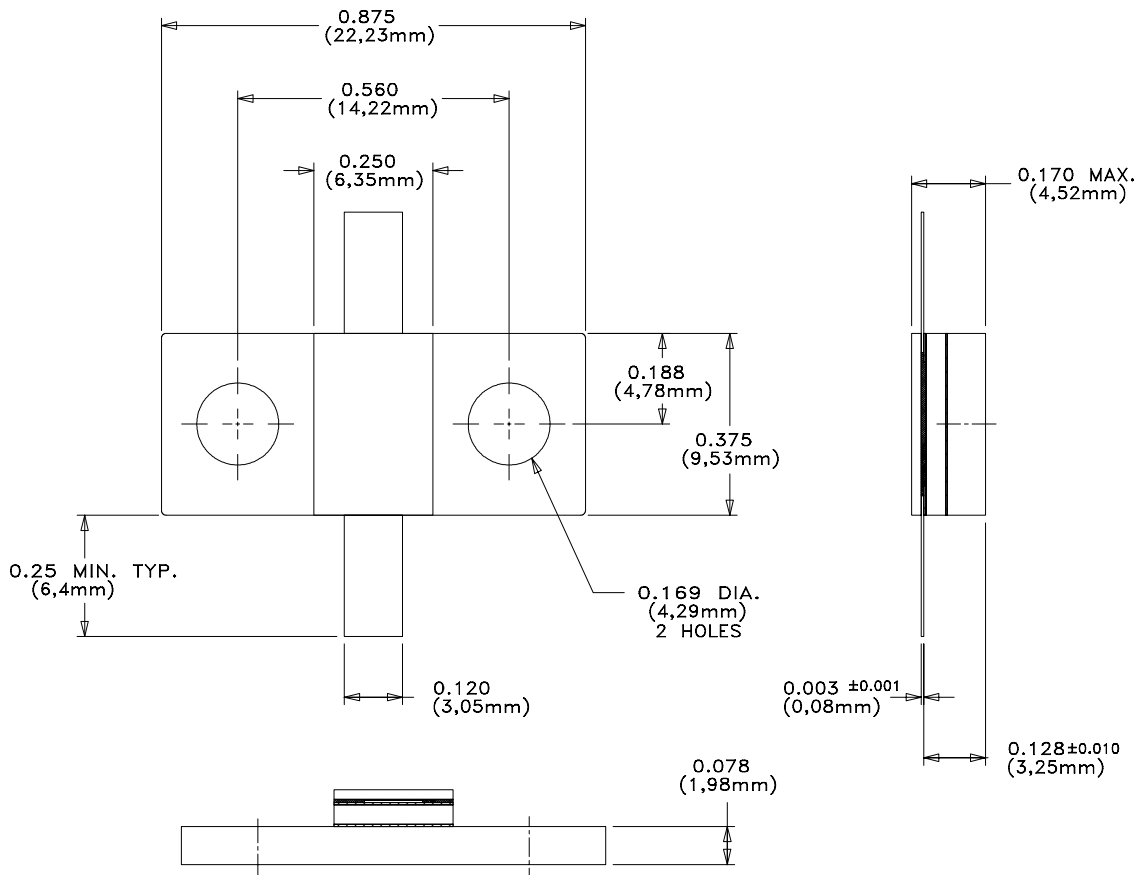
- 3.2.1 NO TEST DATA REQUIRED FOR CUSTOMER.
- 3.2.2 DATA RETENTION - STANDARD.

4.0 PACKAGING: STANDARD PACKING PER MC0023.

	INT	DATE		INT	DATE		INT	DATE
CC			SALES			MFG		
MC			QA			ENG		
EMC TECHNOLOGY, INC. 1971 OLD CUTHBERT ROAD CHERRY HILL, NJ 08034			CAGE CODE # 24602				DWG #	1001305000
			CHANGE NOTICE	ECN 95-125			REV LVL	B
							SHEET	1 OF 2

PART ID REF

5308

**MECHANICAL SPECIFICATIONS:****CHIP:**

MATERIAL - BERYLLIA, ASTM F356.

TOP PLATE:

MATERIAL - ALUMINA, MIL-I-10.

TABS:

MATERIAL - COPPER, ASTM B152.

FINISH - GOLD, MIL-G-45204, TYPE II, CLASS 1.

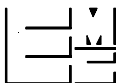
HEAT SINK:

MATERIAL - COPPER, ASTM B187.

FINISH - NICKEL, QQ-N-290.

METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY

ALLOW ±0.010 ON TOP PLATE FOR MISALIGNMENT



EMC TECHNOLOGY INC
1971 OLD CUTHBERT RD
CHERRY HILL, NJ 08034
PHONE NO. (856) 429-7800
FAX NO. (856) 429-1807

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES
TOLERANCES

FRACT --- --
ANG --- --
XX --- --
XXX ±0.005
XXXX --- --

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CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	1:1	BEC 7-9-96		FJV 7-10-96
REV	CHANGE NOTICE	DRAWING NO	SHEET	
B	ECN 95-125	1001305000	2 OF 2	