

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: 5653ALN

DESCRIPTION: HIGH POWER LOAD, ALUMINUM NITRIDE

ASSEMBLY DWG: 1700464

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: 100 WATTS.
 - 1.1.2.2 PEAK: 1000 WATTS (BASED ON 100US PULSE WIDTH AND 1% DUTY CYCLE).
- 1.1.3 FREQUENCY RANGE: DC - 4.0 GHZ.
- 1.1.4 VSWR: 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.
 - 1.3.1.2 OPERATING: -55°C TO +150°C.

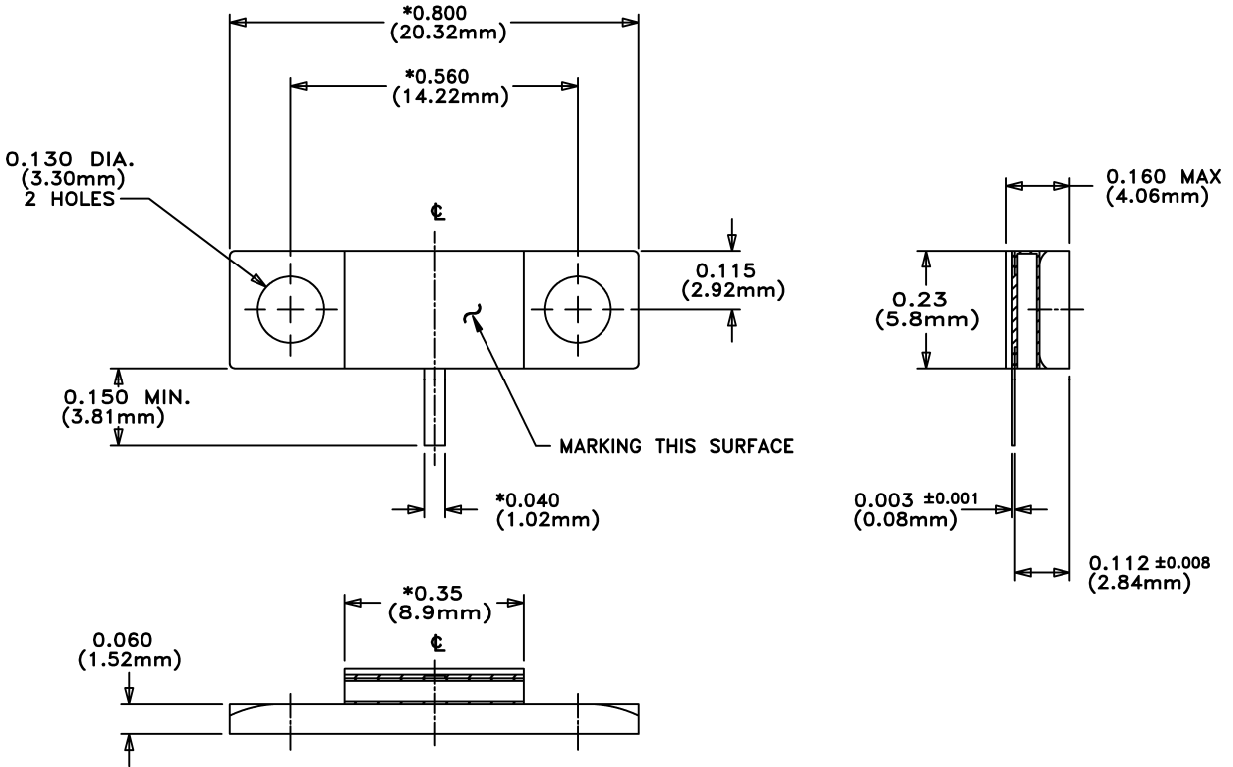
2.0 UNIT MARKING: LOGO AND PART IDENTIFIER
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

- 3.1 VISUAL AND MECHANICAL PER 824W155.
- 3.2 100% DC RESISTANCE CHECK (GO/NO GO): 50Ω ± 3%.
- 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 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1008985000
	CHANGE NOTICE	EN 10-E0640	REV LVL	D
			SHEET	1 OF 2



MECHANICAL SPECIFICATIONS:

CHIP:
 MATERIAL - ALUMINUM NITRIDE, MIL-I-10.
 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 ARE GIVEN FOR
REFERENCE INFORMATION ONLY

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



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	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	1:1	JG 4/29/10		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
D	EN 10-E0640	1008985000	2 OF 2	