

TITLE: ENGINEERING CONTROL DRAWING.

PART IDENTIFIER: CT3737TALN

DESCRIPTION: HIGH POWER CHIP TERMINATION, ALUMINUM NITRIDE, TUNED.

ASSEMBLY DWG: 2900134

1.0 SPECIFICATIONS:

- 1.1 ELECTRICAL:
 - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
 - 1.1.2 FREQUENCY: DC – 3.0 GHZ.
 - 1.1.3 VSWR: 1.15:1 MAX.
 - 1.1.4 INPUT POWER:
 - 1.1.4.1 HEAT SINK 100°C: 180 WATTS (DERATE POWER LINEARLY TO 0 WATTS @ 150°C).
- 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 NON-OPERATING: -55°C TO +150°C.
 - 1.3.1.2 OPERATING: -55°C TO +150°C.

2.0 UNIT MARKING: NONE.

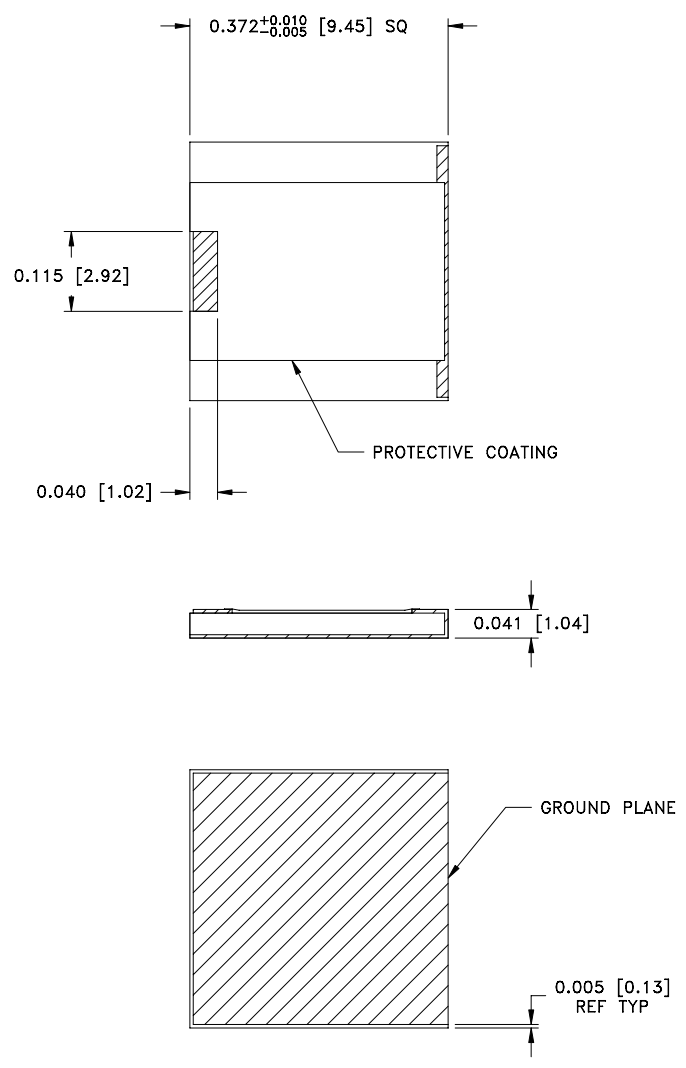
3.0 QUALITY ASSURANCE:

- 3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
 - 3.1.1 VISUAL AND MECHANICAL PER 824W154.
- 3.2 100% DC RESISTANCE CHECK (GO/NO GO): 50Ω ± 5%.
- 3.3 DATA REQUIREMENTS:
 - 3.3.1 NO TEST DATA REQUIRED.
 - 3.3.2 DATA RETENTION – 24 MONTHS.

4.0 PACKAGING: STANDARD PACKING PER 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1010155000
	CHANGE NOTICE	EN 08-E0534	REV LVL	B
			SHEET	1 OF 2

PART ID REF
CT3737TALN

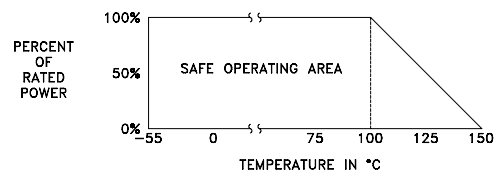


MECHANICAL SPECIFICATIONS:

SUBSTRATE:
MATERIAL - ALUMINUM NITRIDE, MIL-I-10.
TERMINAL & GROUND PLANE:
MATERIAL - THICK FILM, NICKEL BARRIER,
SOLDER PLATED.
RESIST:
MATERIAL - THIN FILM.

METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY

POWER RATING AND DERATING



EMC Technology
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 --- ---
XXX ±0.005
XXXX --- ---

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CAGE CODE 24602	SCALE 6:1	DRAWN BY JG 7/3/08	CHECKED BY	APPROVED BY
REV B	CHANGE NOTICE EN 08-E0534	DRAWING NO 1010155000	SHEET 2 OF 2	