

TITLE: SPECIFICATION CONTROL DRAWING

PART IDENTIFIER: CT1005S

DESCRIPTION: HIGH POWER CHIP TERMINATION, BERYLLIA

ASSEMBLY DWG: 1101744

1.0 SPECIFICATIONS:

- 1.1 ELECTRICAL:
 - 1.1.1 IMPEDANCE: 50Ω NOMINAL.
 - 1.1.2 FREQUENCY: DC - 4 GHZ.
 - 1.1.3 VSWR: 1.25:1 MAX.
 - 1.1.4 INPUT POWER:
 - 1.1.4.1 HEAT SINK 100°C: 15 WATTS. (DERATE POWER LINEARLY TO 0 WATTS @ 125°C)
- 1.2 MECHANICAL:
 - 1.2.1 OUTLINE DWG: SEE SHEET 2.
 - 1.2.2 WORKMANSHIP: PER MIL-STD-454, REQUIREMENT 9.
- 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 +125°C.

2.0 UNIT MARKING: NONE.

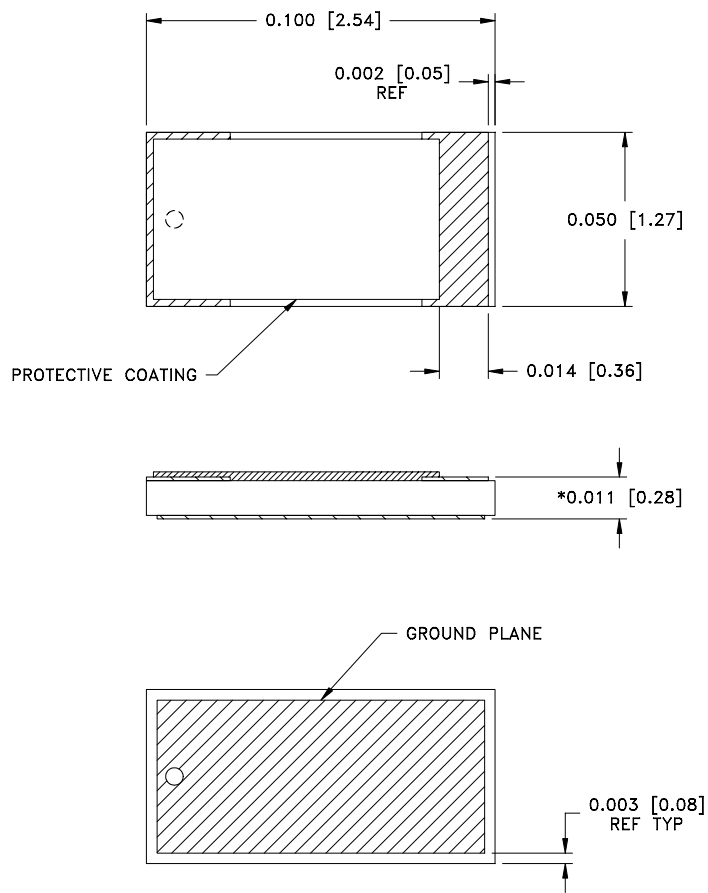
3.0 QUALITY ASSURANCE:

- 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 - STANDARD.

4.0 PACKAGING: STANDARD BULK PACKING PER 755W002.

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| EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997 | CAGE CODE # 24602 | | DWG # | 1010275000 |
| | CHANGE NOTICE | EN 08-E0534 | REV LVL | A |
| | | | SHEET | 1 <u>OF</u> 2 |

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| PART ID REF |
| CT1005S |




MECHANICAL SPECIFICATION:

SUBSTRATE:
 MATERIAL - BERYLLIA, ASTM F356.
 TERMINAL & GROUND PLANE:
 MATERIAL - THICK FILM, NICKEL BARRIER,
 SOLDER COATED.
 RESISTIVE ELEMENT:
 MATERIAL - THICK FILM.

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

* DIMENSIONS APPLY BEFORE SOLDER. ALLOW
 0.015 MAX FOR ALL PRETINNED SURFACES.

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|---|---|---|-----------------------|------------|-------------|----------|------------------------------|--------------------------|
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| | CAGE CODE 24602 | SCALE 30:1 | DRAWN BY JG 7/7/08 | CHECKED BY | APPROVED BY | REV A | CHANGE NOTICE EN 08-E0534 | DRAWING NO 1010275000 |