


Product Number: AN2450-3901BRS

Product Name: Antenna



2. Specification

| | |
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| Sample Photo | |
|  | |
| A. Electrical Characteristics | |
| Frequency | 2400 ~ 2500 MHz 5150 ~ 5850 MHz |
| S.W.R. | <= 2.0 @ 2400 ~ 2500 MHz <= 2.5 @ 5150 ~ 5850 MHz |
| Antenna Gain | 2.0 dBi @ 2400 ~ 2500 MHz 2.5 dBi @ 5150 ~ 5850 MHz |
| Efficiency(%) | 70~80% @ 2400~2500 MHz 60~70% @ 5150~5850 MHz |
| Radiation Pattern | Omni-Directional |
| Max Input Power | >= 2 W |
| Polarization | Linear |
| Impedance | 50 Ohm |
| B. Material & Mechanical Characteristics | |
| Material of Radiator | CU |
| Material of Plastic | Body: TPEE Hinge: ABS Holder: ABS |
| Cable Type | RG-178U |
| Connector Type | SMA Male Reverse |
| Connector Pull Test | >= 3 Kg |
| C. Environmental | |
| Operation Temperature | - 40 °C ~ + 65 °C |
| Storage Temperature | - 40 °C ~ + 80 °C |
| Antenna Color Storage life | < 2 year |

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
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3. Characteristics and Reliability Test

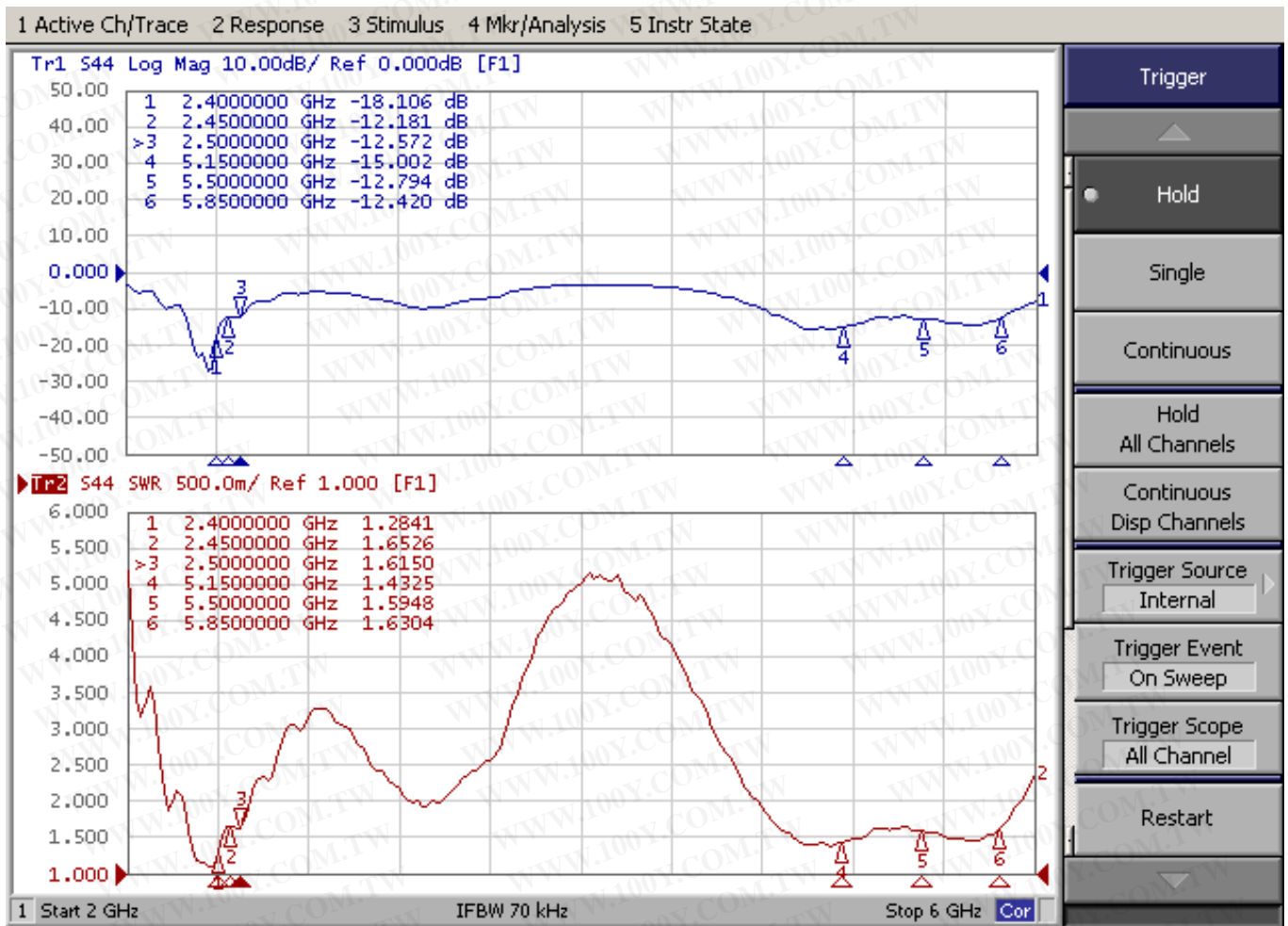
| Test Items | | Test Condition and Procedure | Requirements |
|------------|----------------------|---|---|
| C1 | S.W.R. | Set DUT on Network Analyzer; make individual calibration to test | Directive DUT specification |
| C2 | Antenna Gain | Set DUT on Antenna Chamber; make individual calibration to test | Directive DUT specification |
| M1 | Vibration | GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction | 1. No Visual Damage 2. Frequency Tol.<= 5% |
| M2 | Random Drop | GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction | 1. No parts separated 2. Frequency Tol.<= 5% |
| M3 | Solderability | GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds | 1. Mounted on PCB 2. No Visual Damage |
| M4 | Terminal-Pull Test | Holding with individual specification; force applied to axis of terminal | 1. Directive DUT specification 2. Frequency Tol.<= 5% |
| M5 | Terminal-Torque Test | Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal | 1. Directive DUT specification 2. Frequency Tol.<= 5% |
| M6 | Dimension | Inspection of dimension, color, material, package, surface process | Directive DUT specification |
| E1 | Salt Spray | GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours | After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5% |
| E2 | Humidity | GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours | After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5% |
| E3 | Thermal Shock | GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24 | After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5% |
| E4 | Life (High Temp.) | GB / T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours | After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5% |
| R1 | RoHS | With Reference to IEC 62321:2008 with flow chart | Directive RoHS 2002/95/EC |
| R2 | PFOS | With Reference to USA EPA 3540C:1996 by LC/MS | Directive RoHS 2006/122/EC |
| R3 | PFOA | With Reference to USA EPA 3540C:1996 by LC/MS | Directive RoHS 2006/122/EC |

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4. Antenna - S Parameter Test Data

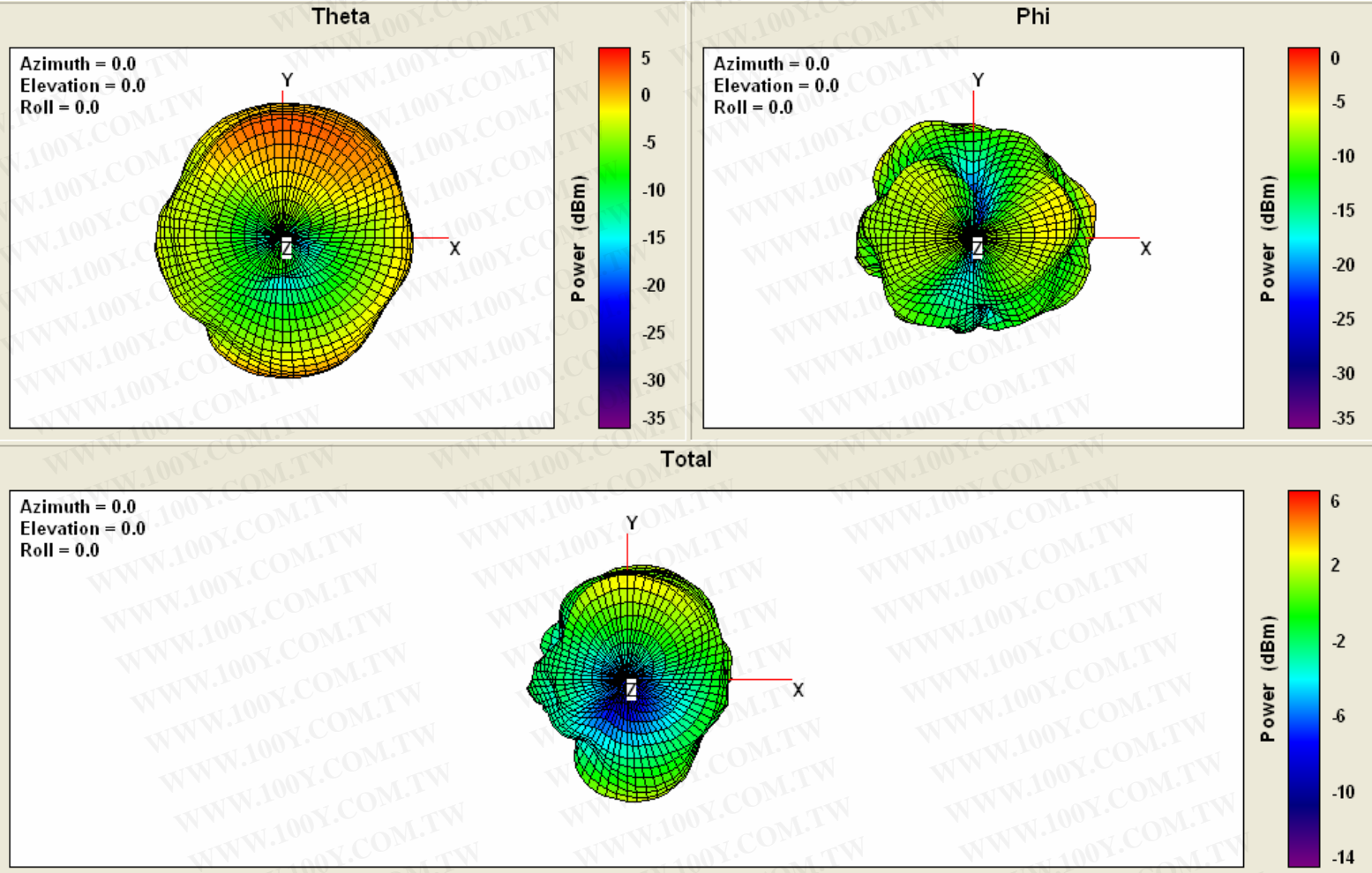


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5. Antenna - Radiation Pattern Test Data



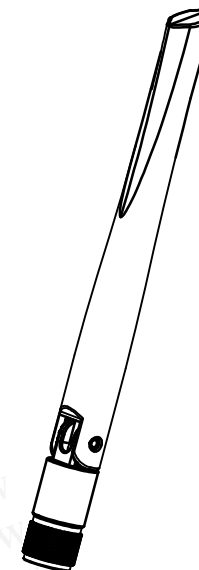
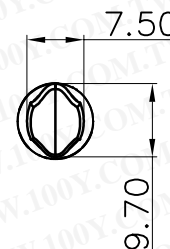
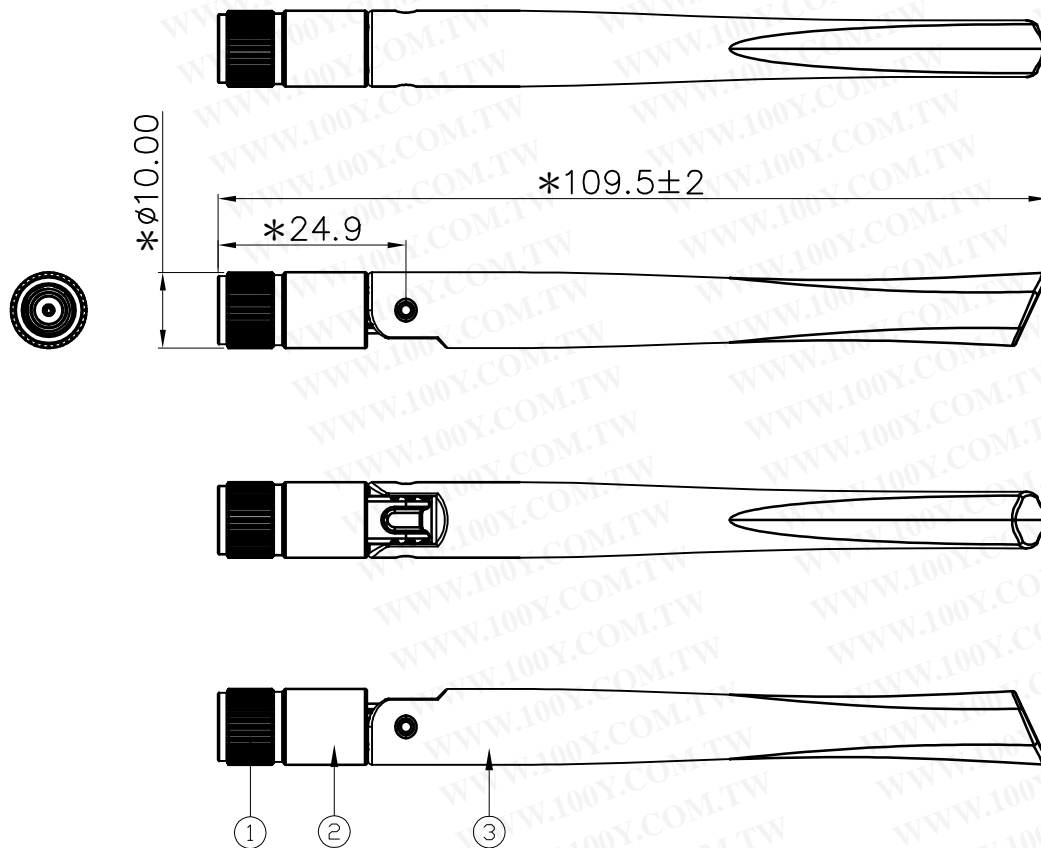
RoHS

Compatible



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| SIGN | DATE | DESCRIPTION | APPROVER |
|------|------|-------------|----------|
| △ | | | |
| △ | | | |
| △ | | | |



Note:

- 1.Mark * is important dimension;"Cpk "Identify for process control(CpK ≥ 1.33).
- 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.

| 3 | BODY-AN39-01B | Body | ABS | Black | 1 |
|-----|------------------|------------------|----------|--------|------|
| 2 | BODY1-AN39-01B | Body1 | ABS | Black | 1 |
| 1 | SMA805-CBR5A56-E | SMA Male Reverse | Cu | Black | 1 |
| No. | Part Number | Name | Material | Finish | Q'ty |

Invax System Group.

Cortec

| | | | | | |
|--------------------------|--------|------------|-----------------|-----------|------|
| TITLE: 2.4&5GHz Antenna | | | | | |
| PART NO.: AN2450-3901BRS | | | CUSTOMER P/N: / | | |
| APP BY | CHK BY | DES BY | | Tolerance | |
| | | Kenny | UNITS: mm | X.X | ±0.5 |
| | | 2014/09/22 | SCALE: 1/1 | X.XX | ±0.2 |
| | | | REVISION: A | X° | ±1 |