

DA-2450-02-IPEX-01

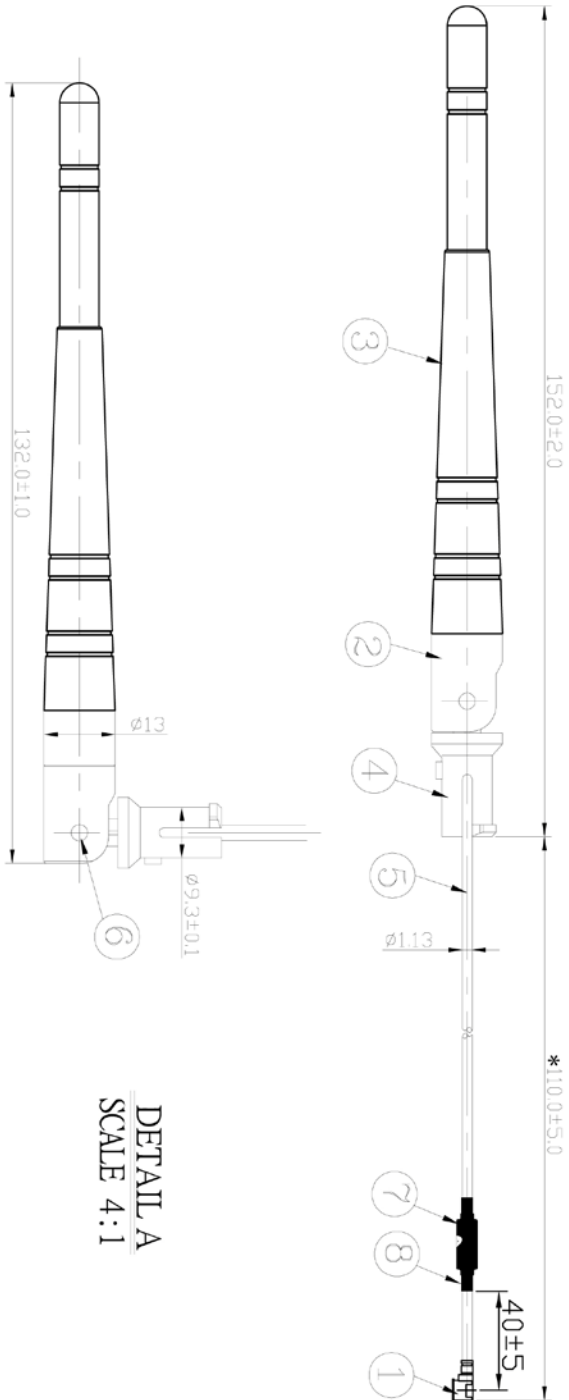
2.4GHz 2dBi Dipole Antenna with IPEX



Specification:

| Technical Information | |
|-----------------------|---------------------|
| Item No. | DA-2450-02-IPEX-01 |
| Frequency | 2400-2500MHz |
| Gain | 2 dBi |
| Polarization | Vertical |
| VSWR | $\leq 2.0:1$ |
| Impedance | 50 Ω |
| Dimensions | |
| Size | H 132 mm |
| Cable length | RG1.13cable,L=110mm |
| Weight | 10.5 g |
| Connector | IPEX |

| REV | DESCRIPTION | DRAWN | DATE |
|-----|-------------|-------|------|
| | | | |
| | | | |




DETAIL A
SCALE 4:1

| NO | Description | Qty | Material | Finish |
|----|--------------------|-----|----------|---------------|
| 8 | Heat Shrink Tubing | 1 | PE | BLACK |
| 7 | BODY3 | 1 | FE | BLACK |
| 6 | PIN | 2 | ABS | BLACK |
| 5 | CABLE | 1 | RG1.13mm | BLACK |
| 4 | BODY2 | 1 | TPC+PBT | BLACK |
| 3 | BODY1 | 1 | TPE | BLACK |
| 2 | CONNECTOR | 1 | ABS | BLACK |
| 1 | I-PEX MALE | 1 | BRASS | Copper plated |



| * MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES | | | |
|---|-------|------------|----------|
| SCALE | 1/1 | UNIT | MM |
| APPROVED | CASH | CHECKED | LYDIA |
| DRAWN | KEVIN | DRAWN DATE | 12/05/11 |

| | |
|---|--------------------------------------|
|  | |
| 華城電子有限公司 RF CASTLE ELECTRONICS CO., LTD | |
| TITLE | 2.4GHz 2dBi Dipole Antenna with IPEX |
| DRAWING NO. | DA-2450-02-1PEX-01 |
| REV | A |

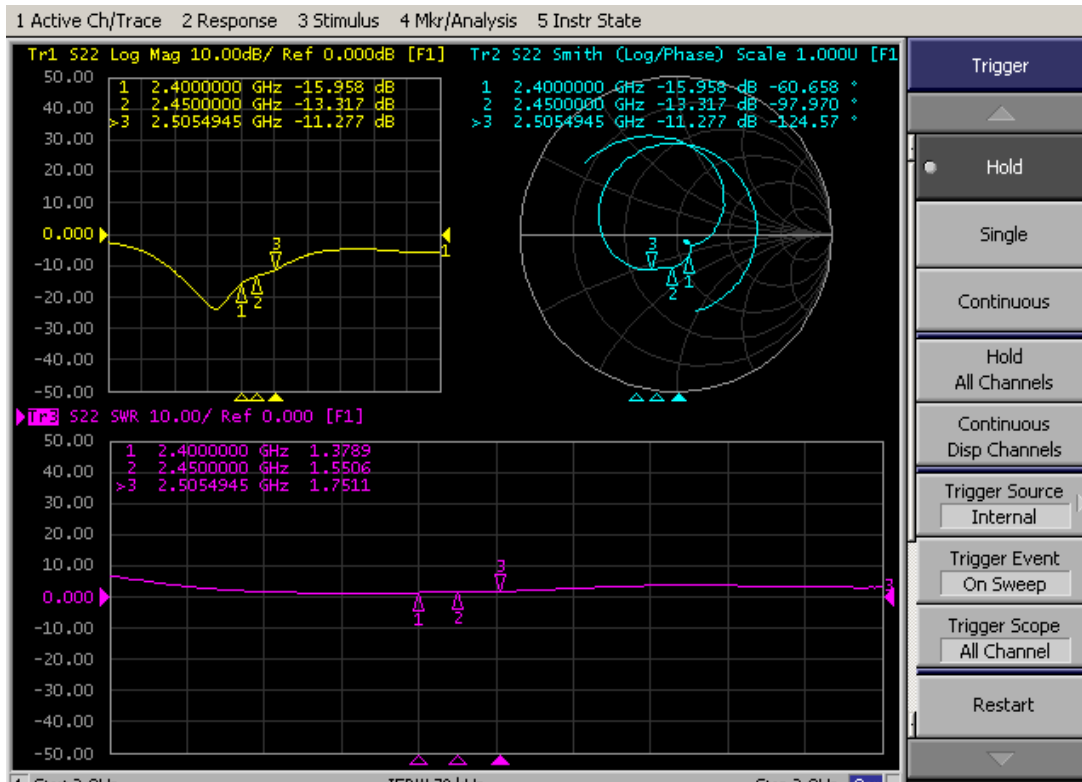
1. Reliability Testing

| Test Item | Procedure | Requirement |
|---|--|--|
| 1. Visual inspection and Dimension Check | Applicable methods using x5 magnification | follow specification |
| 2. Rapid Changing of Temperature | -40°C (30minutes) to 90°C (30minutes); 24 cycles | After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5% |
| 3. Damp Heat | 24 hours at 60°C; 90 ~ 95% RH | After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5% |
| 4. Endurance | 24 hours at 90°C | After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5% |

2.Specification

| A. Electrical Characteristics | |
|--------------------------------------|--------------------------------|
| S.W.R. | 2400-2500MHz: <= 2.0 |
| Antenna Gain | 2.0 dBi |
| Impedance | 50 Ohm |
| B. Material | |
| Material of Radiator | Cu (Plated) |
| Connector Type | IPEX |
| C. Environmental | |
| Operation Temperature | - 30 °C ~ + 85 °C |
| Storage Temperature | -30 °C ~+ 85 °C |

3.S Parameter Test data



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

