

Floor 3, Building D, No. 96, Fenghuang Lingxia Road, Fuyong, Shenzhen, Guangdong, China

Customer Name:                     LANGUANG                    

Address:

Product Name: 2.4G FPC antenna

Part NO. : C113H-IPXR2430-100MM

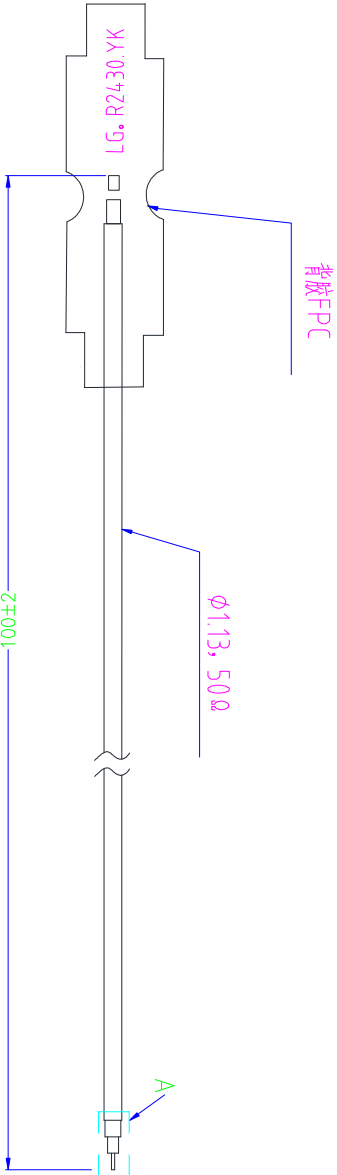
Write By: Zhou Min

Issued Date: 2023-10-8

|          |               |             |
|----------|---------------|-------------|
| R&D Dept | Business Dept | Approved By |
|          |               |             |

|          |                   |          |
|----------|-------------------|----------|
| R&D Dept | Engineer Dept     | Approval |
| Ni Sheng | <b>Zhang Ming</b> | xiong    |

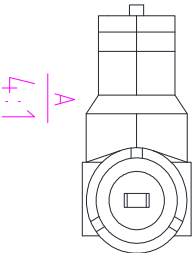
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1st generation terminals

Specifications:

- Frequency range: 2.4GHz ~2.5GHz;
- Power gain: 1.91dBi.



|                                |        |          |                 |                            |         |
|--------------------------------|--------|----------|-----------------|----------------------------|---------|
| TITLE: antenna                 |        |          | MATERIAL: _____ |                            | FINISH: |
| PART/NO.: C113H-IPXR2430-100MM |        |          | TOLERANCE: ??   |                            |         |
| UNIT IN                        | SCALE: |          | LINEAR ??       | ANGULAR??                  |         |
| mm                             | 2.5:1  |          | L<30     ±0.10  | X.XX -±0.1°                |         |
|                                |        |          | 30<L<100 -±0.15 | X.X    ±0.2°               |         |
|                                |        |          | L>100     ±0.20 | UNLESS OTHERWISE SPECIFIED |         |
| DRAWING                        | DATE   | CHECKING | DATE            | REV                        |         |
|                                | 23-9-1 |          |                 | 01                         |         |

Dongguan Lixinwei Electronics Co., Ltd

# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <2.0

**Efficiency** >70%

**Impedance** 50 Ohm

**Coaxial antenna**

**Polarization** Line

**Gain** 1.91DBi

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type** 1.13

**Connector Type** : IPEX1

**Dimension**

## C. Environmental

**Operation Temperature** - 30 °C ~ + 80 °C

**Storage Temperature** - 30 °C ~ + 85 °C

# Test Equipment & Conditions

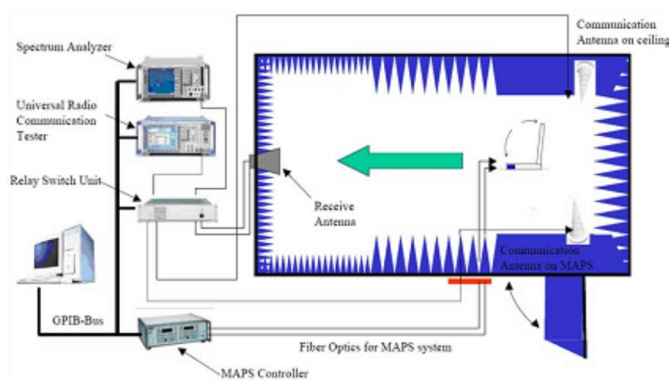
## 1. Network Analyzers :

Agilent 8753D 5071B

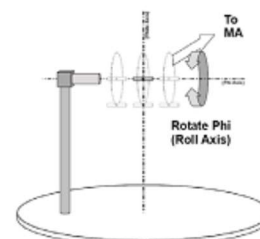
## 2. Communications Test Set:

Agilent E5515C

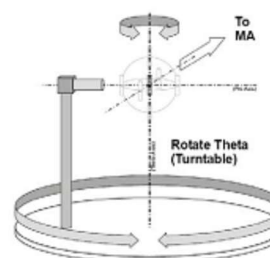
## 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

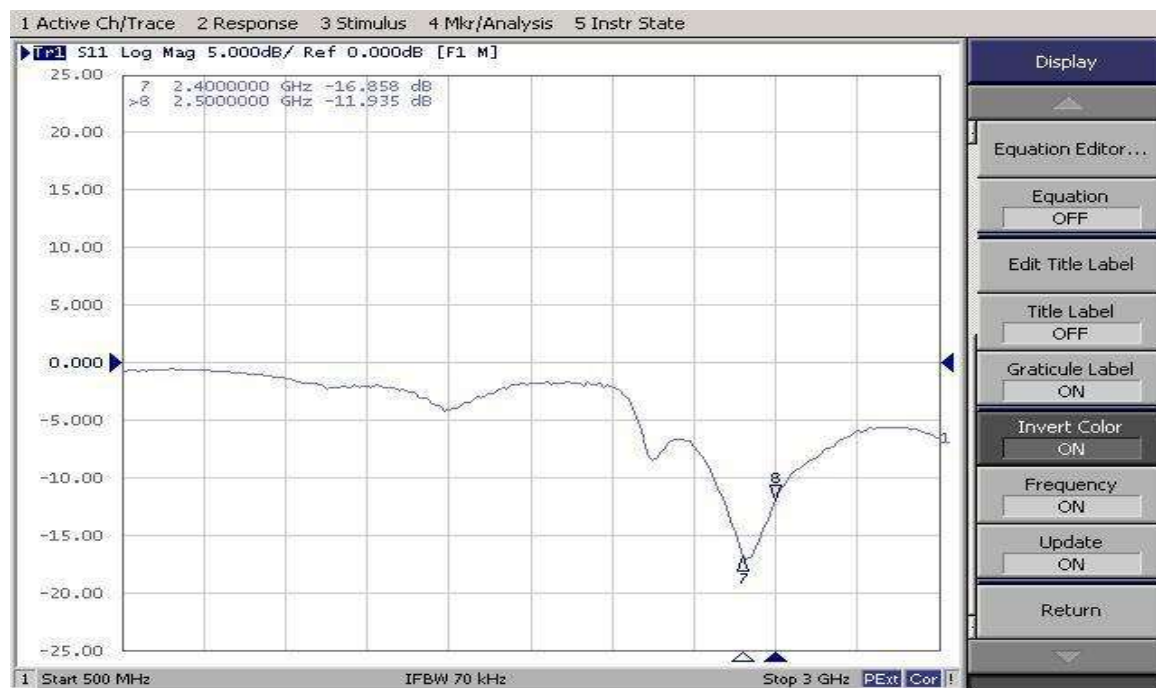


Theta axis test

## Effiency &Gain

| Freq  | Effi  | Gain  |
|-------|-------|-------|
| (MHz) | (%)   | (dBi) |
| 2400  | 70.4  | 1.7   |
| 2410  | 69.34 | 1.81  |
| 2420  | 69.93 | 1.91  |
| 2430  | 70.5  | 1.88  |
| 2440  | 69.04 | 1.58  |
| 2450  | 63.64 | 0.98  |
| 2460  | 60.19 | 0.52  |
| 2470  | 58.4  | 0.3   |
| 2480  | 57.96 | 0.26  |
| 2490  | 60.39 | 0.61  |
| 2500  | 57.79 | 0.74  |

# S11



## Radiation Pattern:

