

# ShenZhen xinErSheng Technology Co. , Ltd

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

## Antenna Specification for Approval

Customer Name: LANGUANG

Address: \_\_\_\_\_

Product Name: 2.4G FPC antenna

Part NO. : C113H-IPXR2430-100MM

Write By: Zhou Min

Issued Date: 2023-10-8

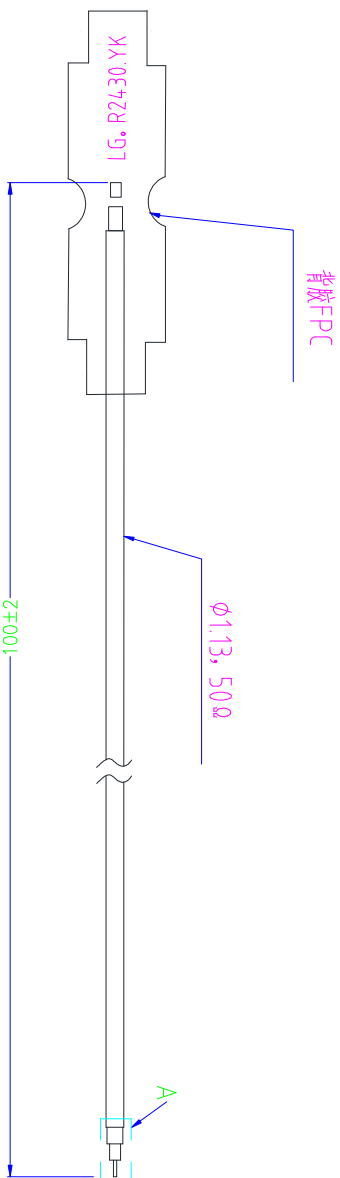
### Customer :

R&D Dept	Business Dept	Approved By

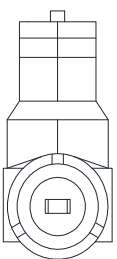
### Supplier

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

1	2	3	4	5	6



1st generation terminals



- Specifications:
1. Frequency range: 2.4GHz -2.5GHz;

2. Power gain: 1.91dBi.

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

Dongguan Lixinwei Electronics Co., Ltd

1

2

3

4

5

6

# 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

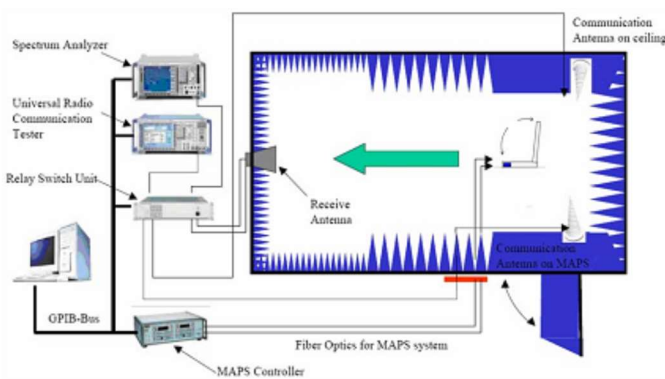
## 1. Network Analyzers :

Agilent 8753D 5071B

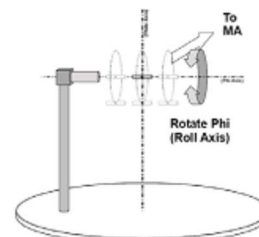
## 2. Communications Test Set:

Agilent E5515C

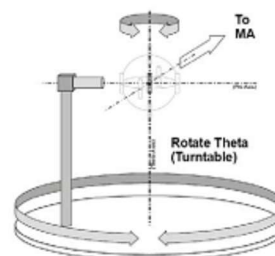
## 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

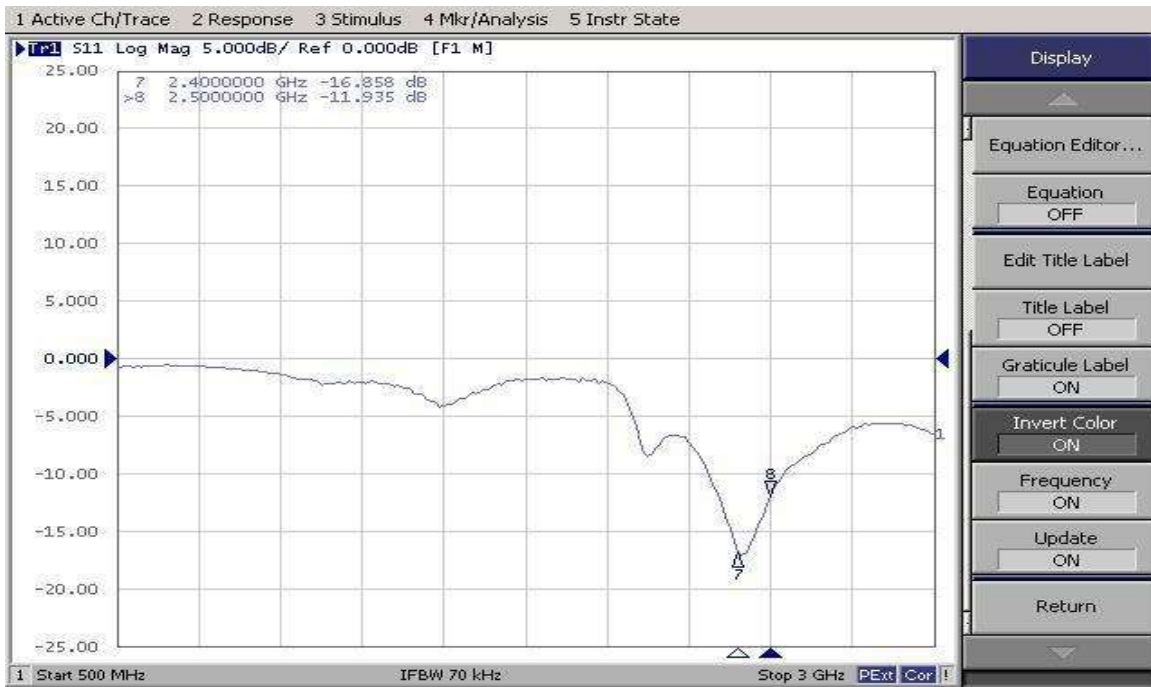


Theta axis test

## Efficiency & 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:

