

Dongguan Lixinwei Electronics Co., Ltd

Antenna Specification for Approval

Customer Name: Shenzhen Tianzhiheng Electronic Technology Co., Ltd

address: F7-016, Hedong Building, Haoyunlai Square,

Bao'an District 80, Hedong Community, Xixiang Street,

Bao'an District, Shenzhen

Product Name: 2.4G copper tube antenna

Part NO.: C113H-IPXBT44/12-29-55

Write By: Zhou Min

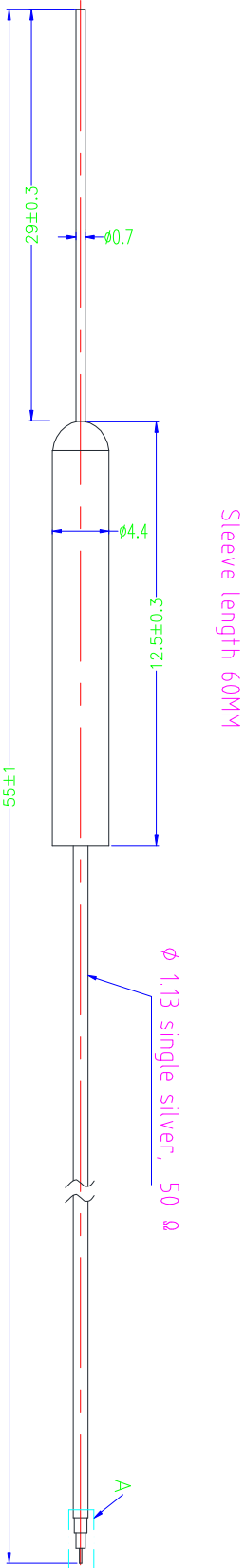
Issued Date: 2025-11-25

customer:

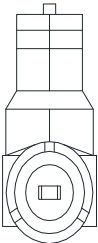
R&D Dept	Business Dept	Approved By

supplier

R&D Dept	Engineer Dept	Approval



1 IPEX



A
4:1

Specifications:

- Frequency range: 2.4GHz -2.5GHz;
- Power gain: 1.87dBi.

TITLE: ??		2.4G antenna		MATERIAL: ??		FINISH: 表面処理	
PART/NO.: C113H-IPXBT44/12-29-55		TOLERANCE ??		ANGULAR??			
UNIT IN mm	SCALE: ??	2.5:1		LINEAR ??		X.XX ±0.1°	
				30<L<100 ±0.15 L>100 ±0.20		X.X ±0.2°	
DRAWING	DATE	25-11-20		CHECKING	DATE	REV	01
Dongguan Lixinwei Electronics Co., Ltd							

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <2.0

Efficiency >75%

Impedance 50 Ohm

Polarization mode:linear polarization

Gain 2.87DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.13 black

Connector Type : 1IPEX

Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

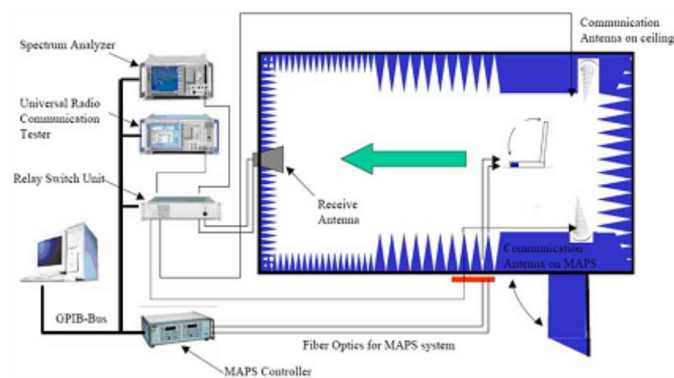
1. Network Analyzers :

Agilent 8753D 5071B

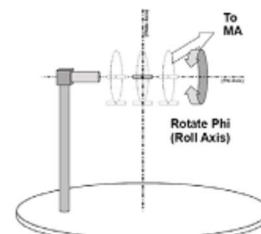
2. Communications Test Set:

Agilent E5515C

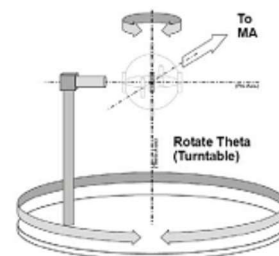
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

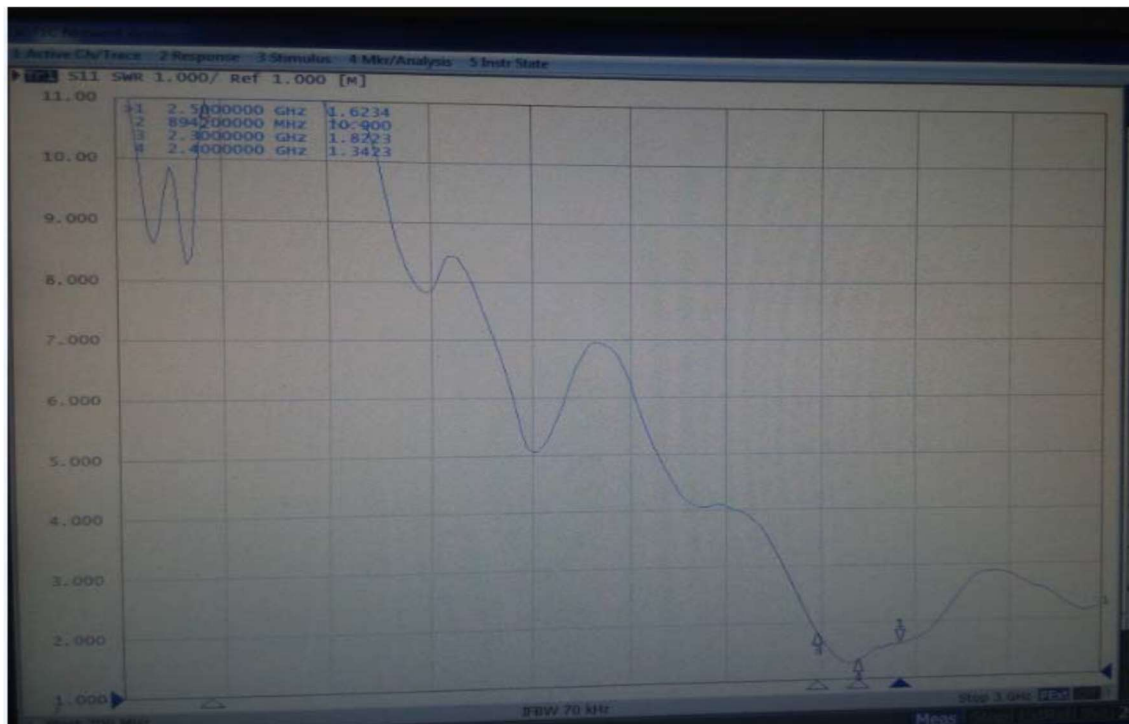


Theta axis test

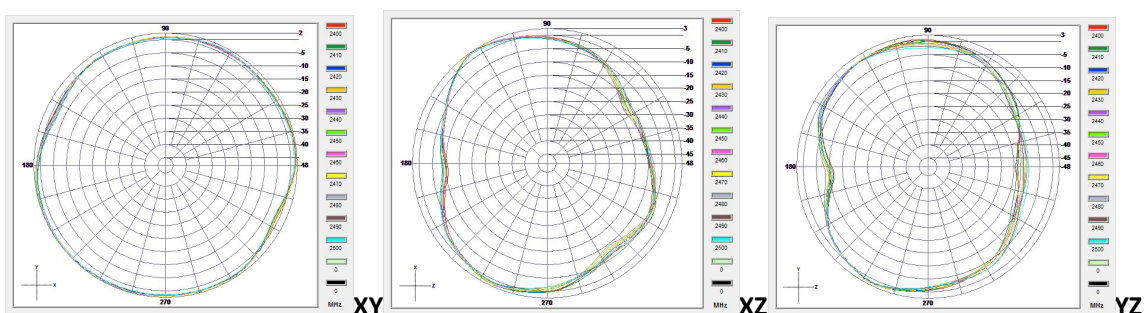
Efficiency & Gain

Freq (MHz)	Effi (%%)	Gain (dBi)
2400	73.85	2.43
2410	73.86	2.86
2420	73.67	2.81
2430	74.45	2.87
2440	74.68	2.52
2450	75.16	2.63
2460	74.67	2.87
2470	73.95	2.78
2480	72.47	2.76
2490	69.43	2.72
2500	68.49	2.53

S11



Radiation Pattern:



2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

