

Dongguan Lixinwei Electronics Co., Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ 2.4G antenna _____

Product Name: _____

Part NO.: _____ 113H-BT44-1152-29-335R _____

Write By: _____ Mr. zhou _____

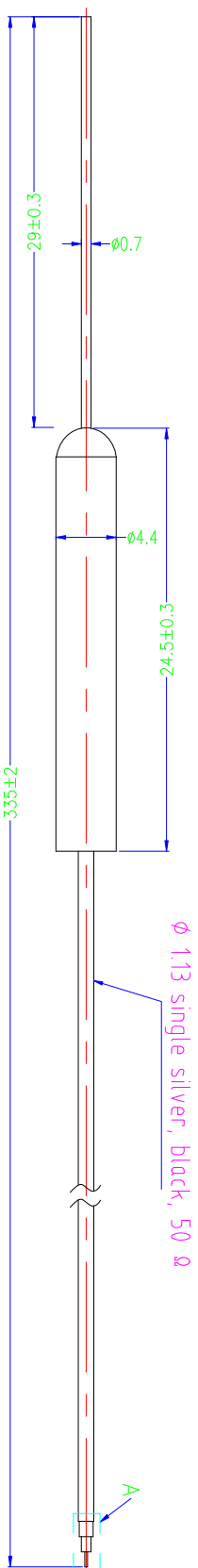
Issued Date: _____ 2025-7-19 _____

customer:

R&D Dept	Business Dept	Approved By

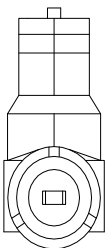
supplier

R&D Dept	Engineer Dept	Approval



Ø 1.13 gray copper tube antenna

Ø 1.13 single silver, black, 50 Ω


$$\frac{A}{4:1}$$

Specification:

1. Frequency range: 2.4GHz - 2.5GHz;
2. Power gain: 1.95dBi.

TITLE: 2.4 Gantenna		MATERIAL: _____		FINISH: _____	
PART/NO.: 113H-BT4-1152-29-335R		TOLERANCE ??			
UNIT IN mm		SCALE: 2.5:1			
DRAWING 数		DATE 24-09-20			
CHECKING		DATE		REV 01	
UNLESS OTHERWISE SPECIFIED		LINEAR ?? $L < 30 \rightarrow \pm 0.10$ $30 < L < 100 \rightarrow \pm 0.15$ $L > 100 \rightarrow \pm 0.20$		ANGULAR ?? $X.XX \rightarrow \pm 0.1^\circ$ $X.X \rightarrow \pm 0.2^\circ$	

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Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <2.0

Efficiency >75%

Impedance 50 Ohm

Polarization Line

Gain 1.95DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.13

Connector Type : NO

Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

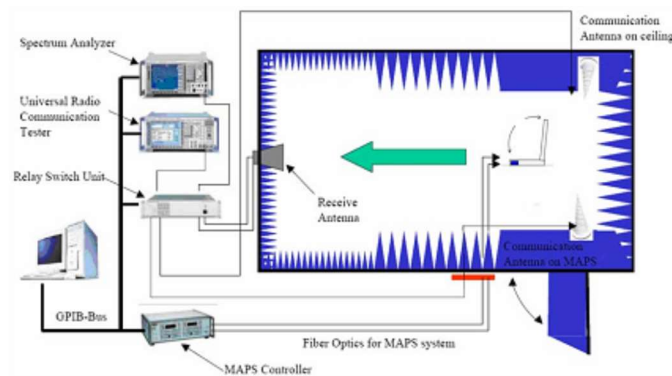
1. Network Analyzers :

Agilent 8753D 5071B

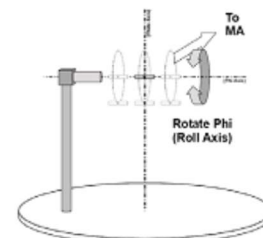
2. Communications Test Set:

Agilent E5515C

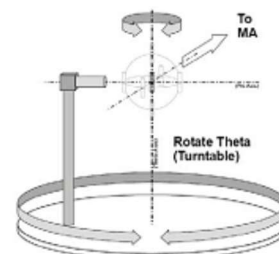
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

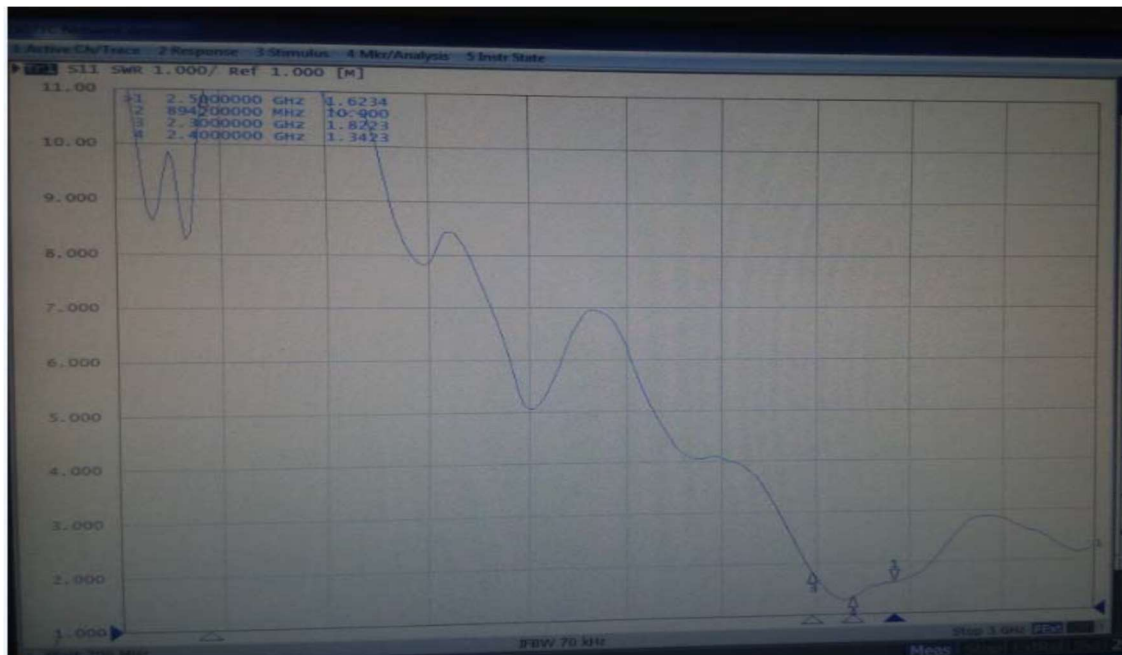


Theta axis test

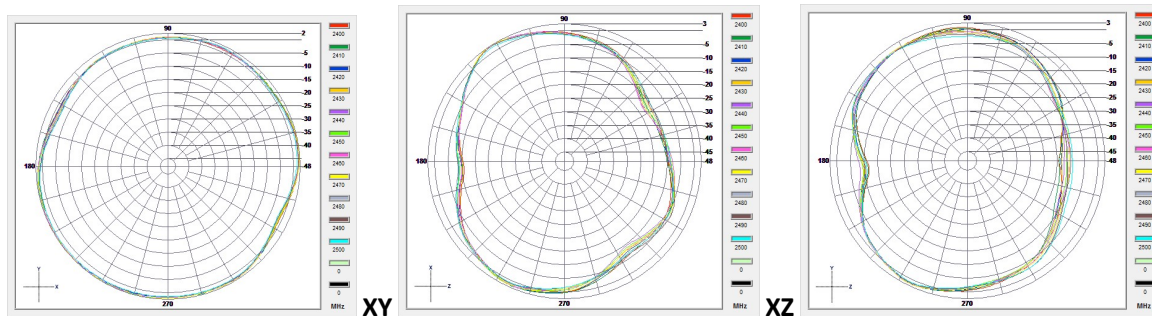
Efficiency & Gain

Freq (MHz)	Effi (%%)	Gain (dBi)
2400	76.95	1.4
2410	74.84	1.86
2420	74.68	1.8
2430	72.55	1.95
2440	66.66	1.51
2450	72.06	1.72
2460	71.87	1.84
2470	72.95	1.83
2480	72.43	1.77
2490	68.41	1.71
2500	67.46	1.32

S11



Radiation Pattern:



YZ

2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

