

# Dongzhen Electronics Co. , Ltd

## Antenna Specification for Approval

Customer Name: \_\_\_\_\_

Product Name: \_\_\_\_\_ 2.4G antenna \_\_\_\_\_

Product Name: \_\_\_\_\_

Part NO. : \_\_\_\_\_ X113H-3MMBT27-150 \_\_\_\_\_

Write By: \_\_\_\_\_ Mr. zhou \_\_\_\_\_

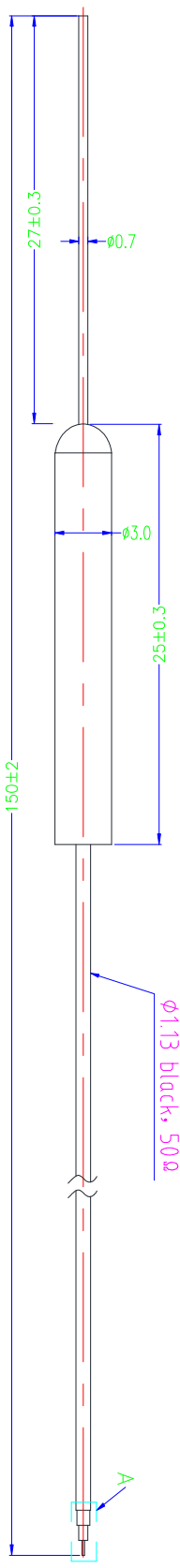
Issued Date: \_\_\_\_\_ 2023-6-13 \_\_\_\_\_

### customer :

R&D Dept	Business Dept	Approved By

### supplier

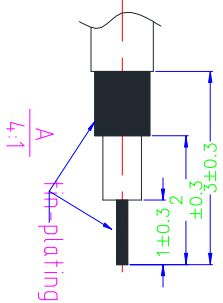
R&D Dept	Engineer Dept	Approval

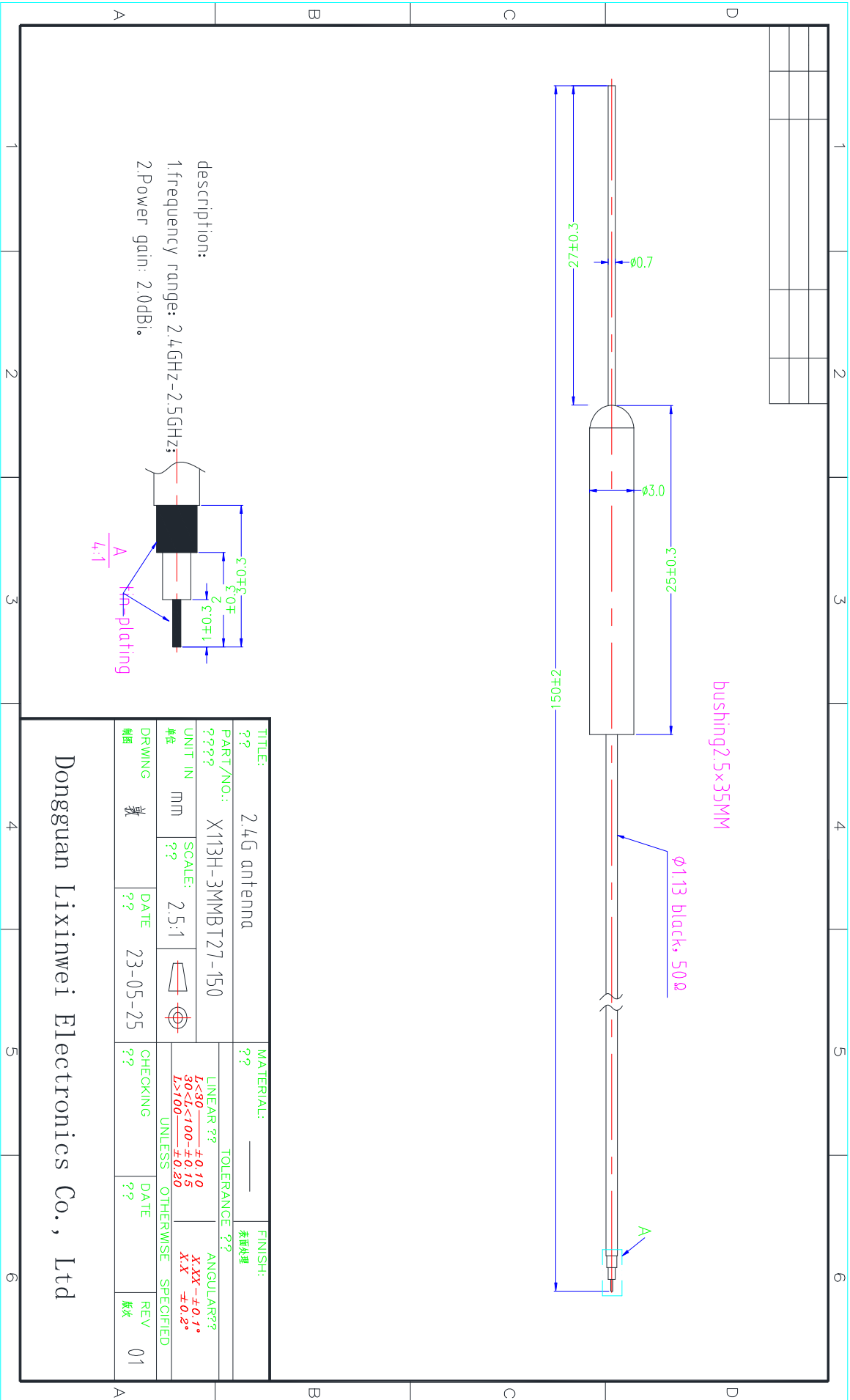
bushing 2.5x35MM

φ1.13 black, 50Ω

description:  
 1.frequency range: 2.4GHz-2.5GHz  
 2.Power gain: 2.0dBi.



TITLE: 2.4G antenna		MATERIAL: ??		FINISH: 表面處理	
PART/NO.: X113H-3MMBT27-150		TOLERANCE: ??		ANGULAR: ??	
UNIT IN mm		SCALE: 2.5:1		X.XX - ±0.1°	
DRAWING 數		DATE 23-05-25		X.XX - ±0.2°	
CHECKING		DATE		OTHERWISE SPECIFIED	
REV 01		DATE		REV 01	
Dongguan Lixinwei Electronics Co., Ltd					



# Product Specification

## A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <2.0

Efficiency >65%

Impedance 50 Ohm

Polarization Line

Gain 2.0DBi

## B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.13 黑色

Connector Type : NO

Dimension

## C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

# Test Equipment & Conditions

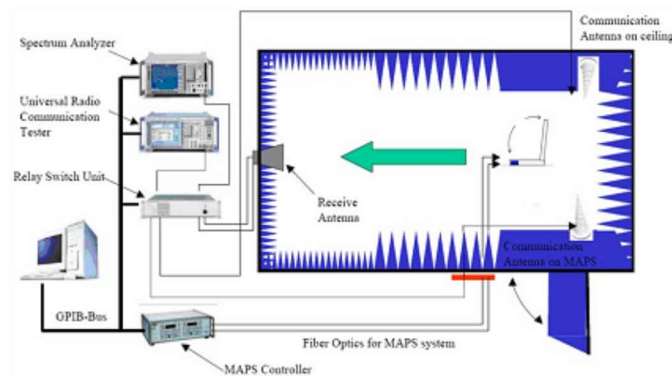
## 1. Network Analyzers :

Agilent 8753D 5071B

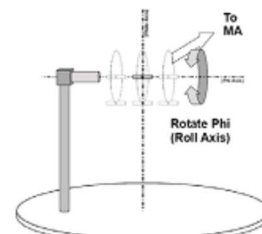
## 2. Communications Test Set:

Agilent E5515C

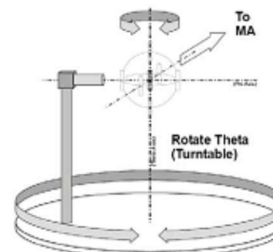
## 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

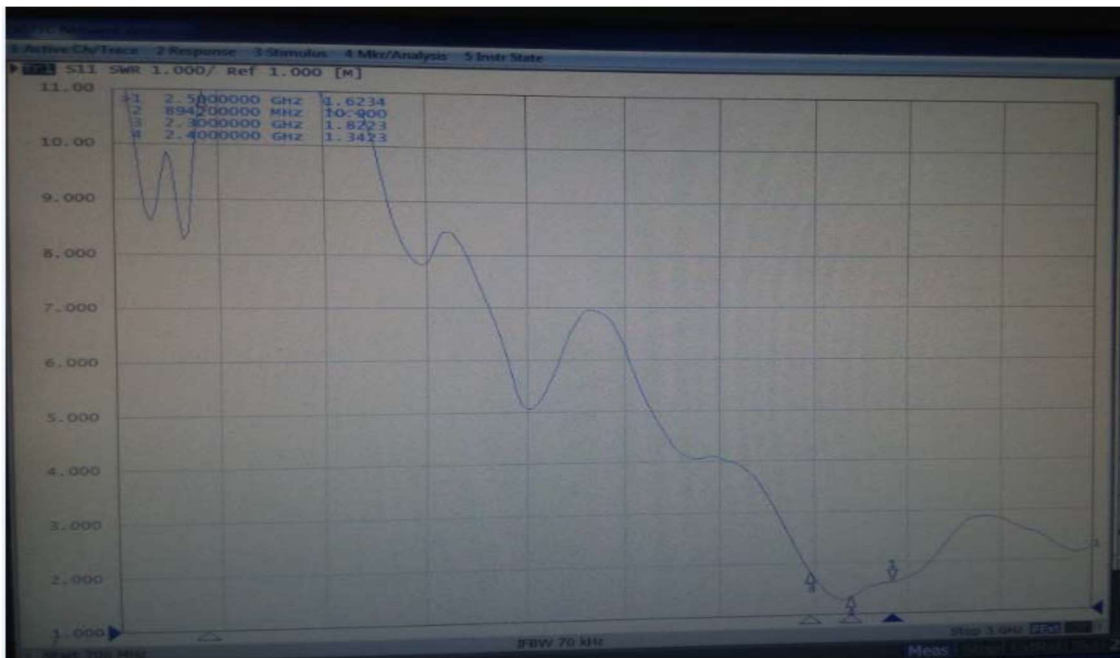


Theta axis test

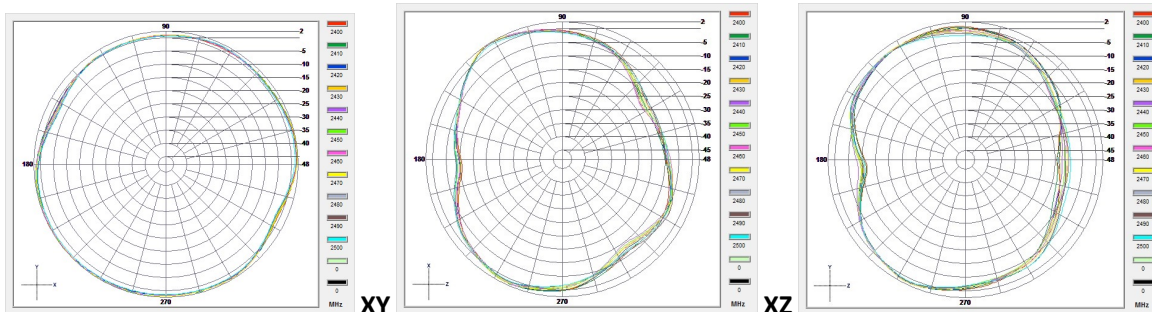
# Efficiency & Gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	56.95	1.4
2410	64.84	1.96
2420	54.68	1.8
2430	62.55	1.87
2440	61.66	1.51
2450	52.06	1.73
2460	64.87	2.0
2470	62.95	1.80
2480	52.43	1.78
2490	58.41	1.72
2500	57.46	1.33

# S11



# Radiation Pattern:



YZ