承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G W35 白色天线 L=250mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C250W3Da760A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY	lina	
APPROVED BY:	Changxing.liu	
DATE:	2023-4-24	

东莞市优比电子有限公司 工程专用章

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2023-4-24

Content

ltem ***Description***

1.----------Electrical Specification

2.----------Test Items and Equipment

3.----------S Parameter

4.----------Efficiency and Gain

5.----------Radiation Pattern

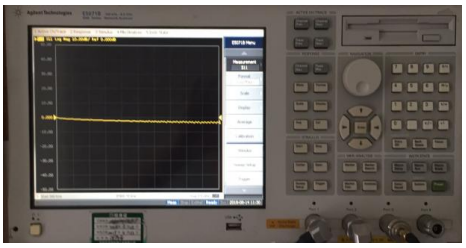
6.----------Mechanical Specification

1. Electrical Specification:

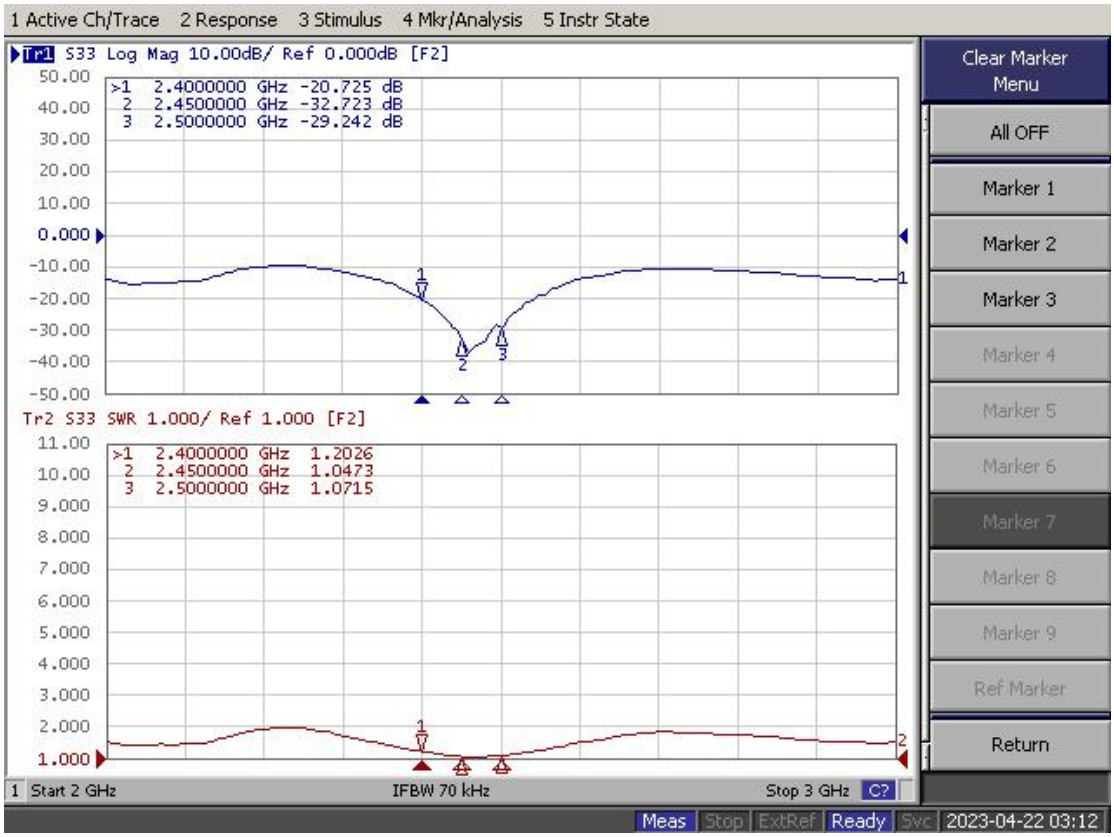
Characteristics	Specifications	Unit
Outline Dimensions	130.97*19.11,L=250	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	⩽ 2.0	
Polarization	Linear Polarization	
Gain	3±0.5	dBi
Efficiency	>65	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+50℃	

2.Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter



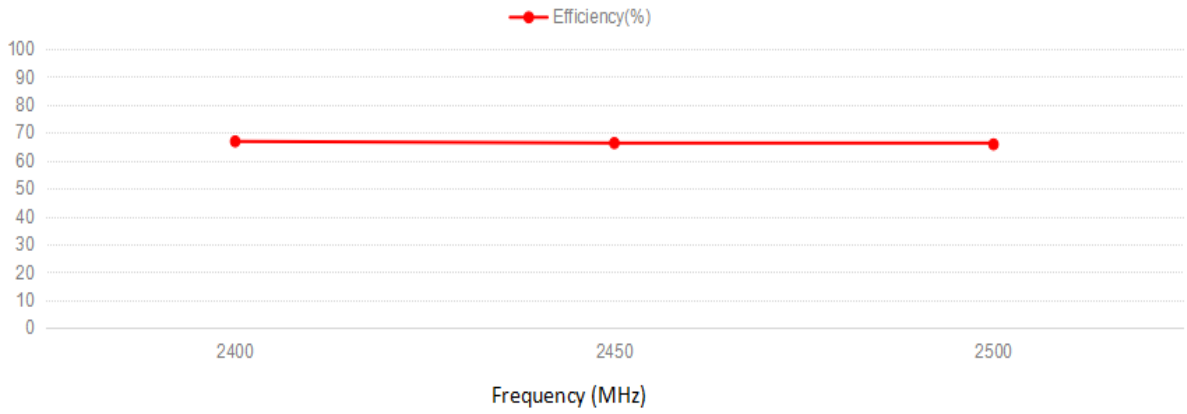
Frequency(MHz)	Return Loss (dB)	VSWR
2400	-20.72	1.20
2450	-32.72	1.04
2500	-29.24	1.07

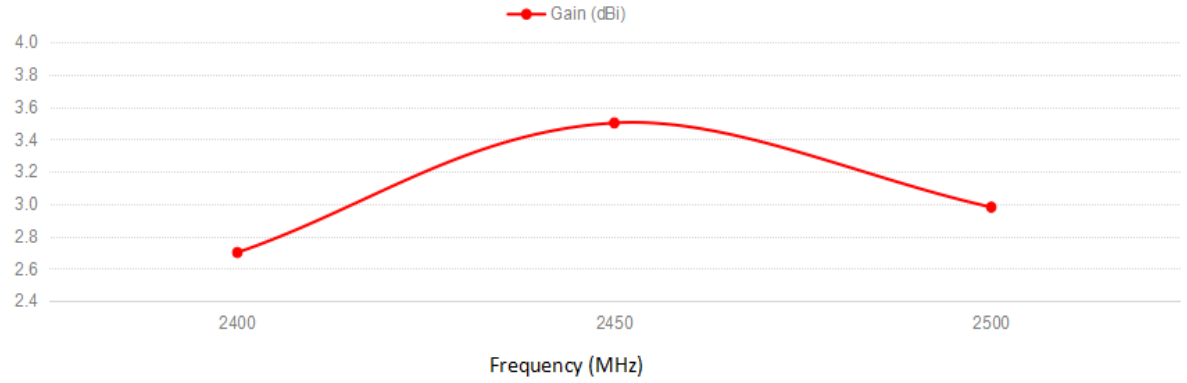
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

RL=20*log10[(VSWR+1)/(VSWR-1)

4. Efficiency and Gain

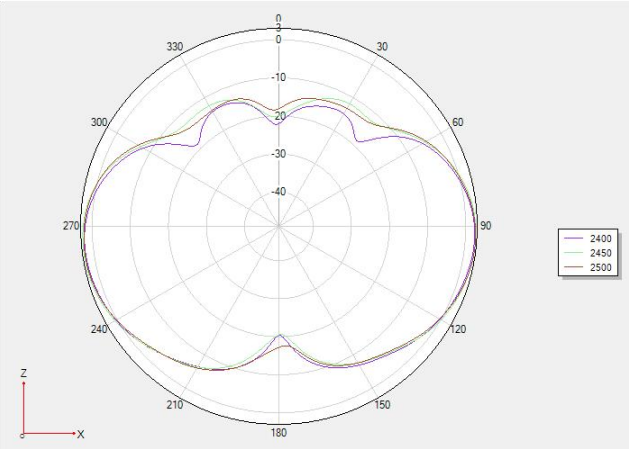




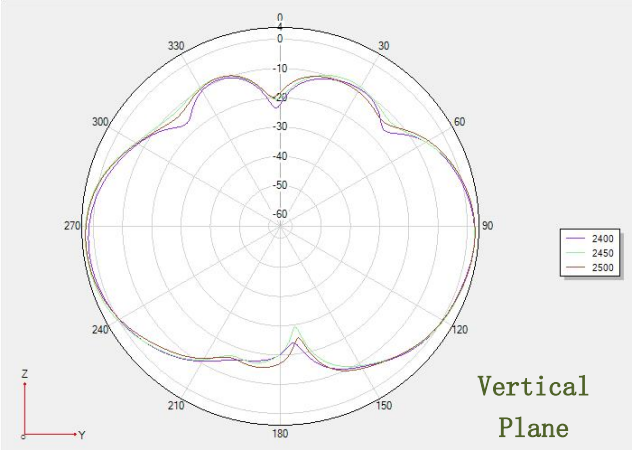
Frequency (MHz)	2400	2450	2500
Gain (dBi)	2.7	3.5	2.98
Efficiency (%)	66.83	66.22	65.77

5. Radiation Pattern

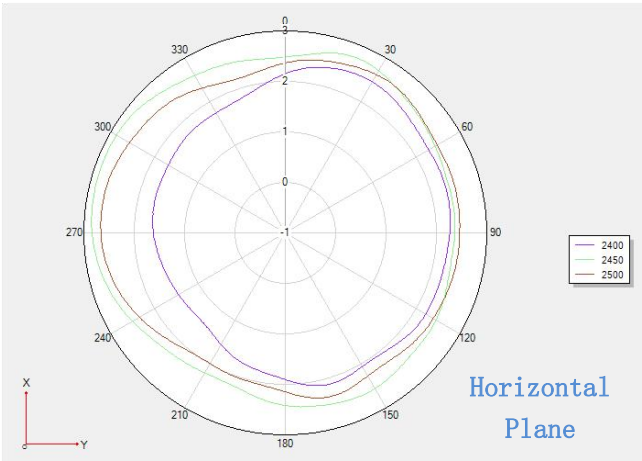
Antenna 2D Radiation Pattern unit:dBi

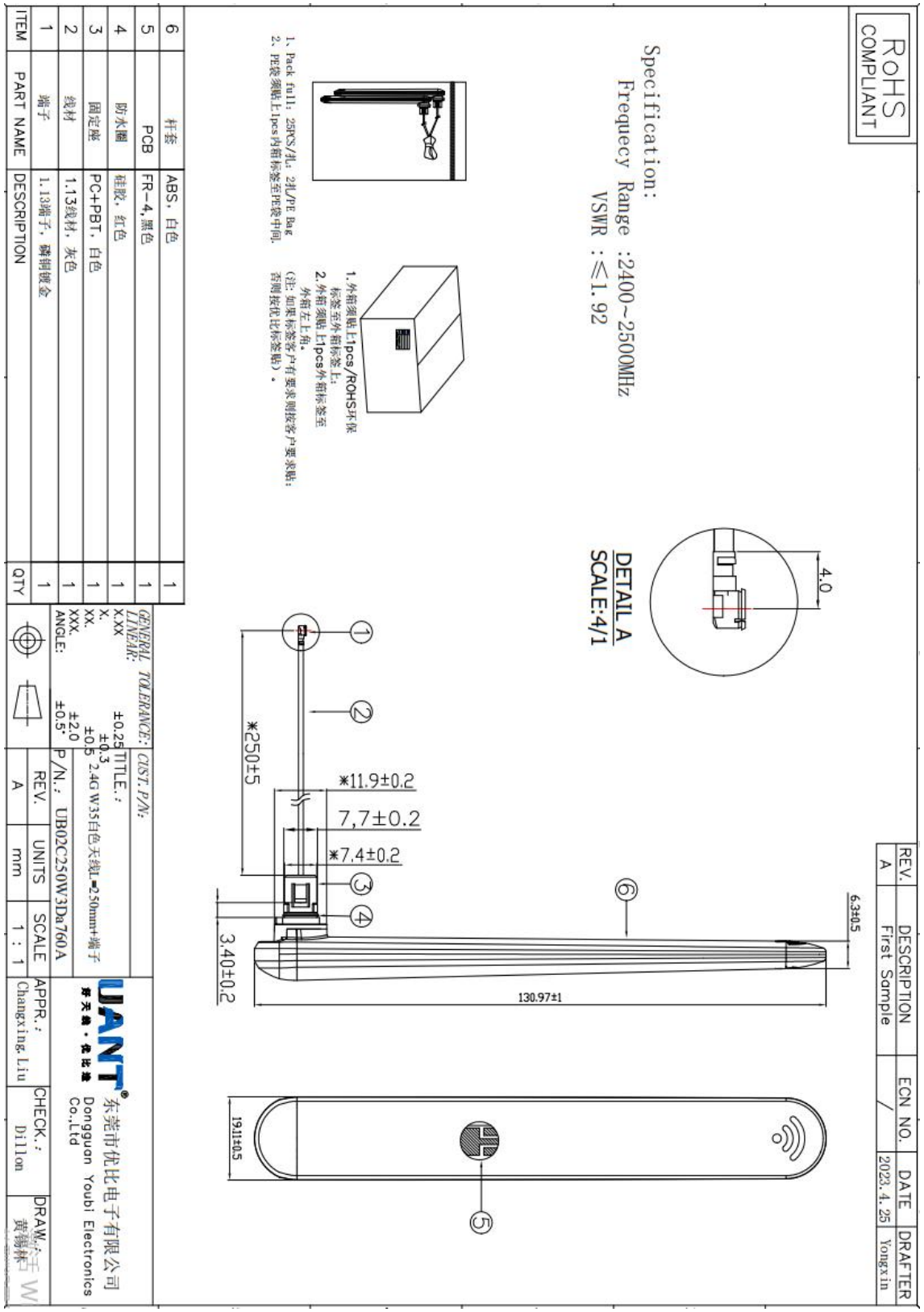


Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification: