

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	

Modification History

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

Content

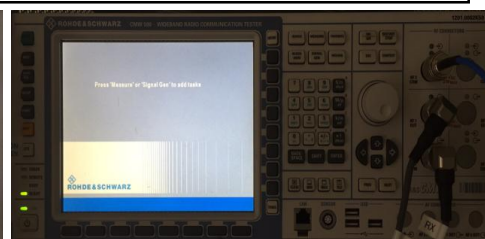
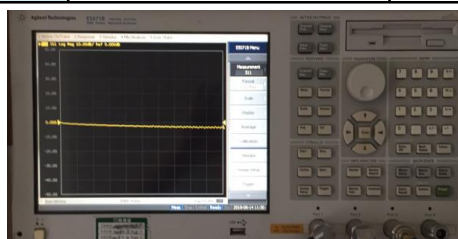
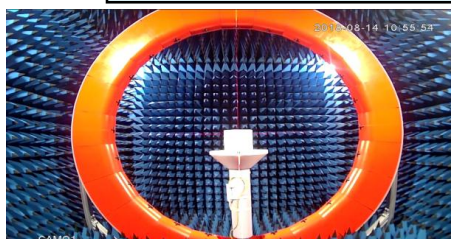
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

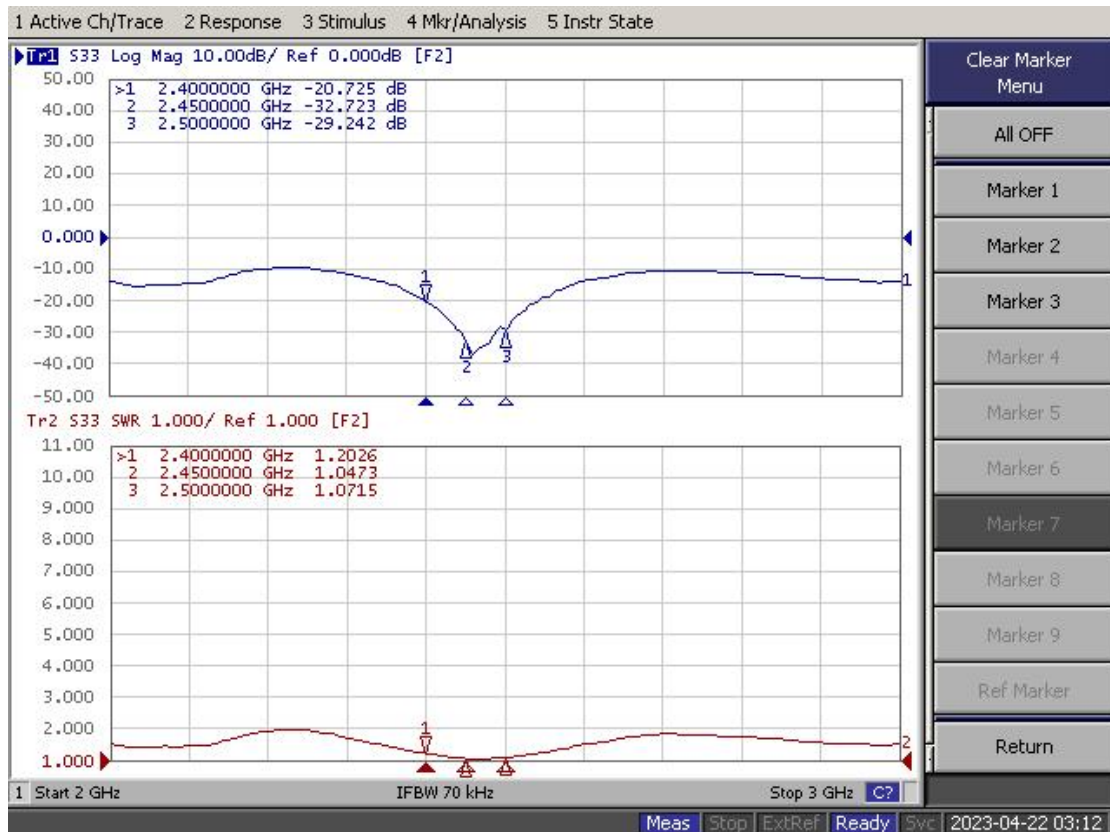
Characteristics	Specifications	Unit
Outline Dimensions	130.97*19.11,L=250	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	3 $\pm$ 0.5	dBi
Efficiency	>65	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-40 $^{\circ}$ C~+50 $^{\circ}$ C	

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



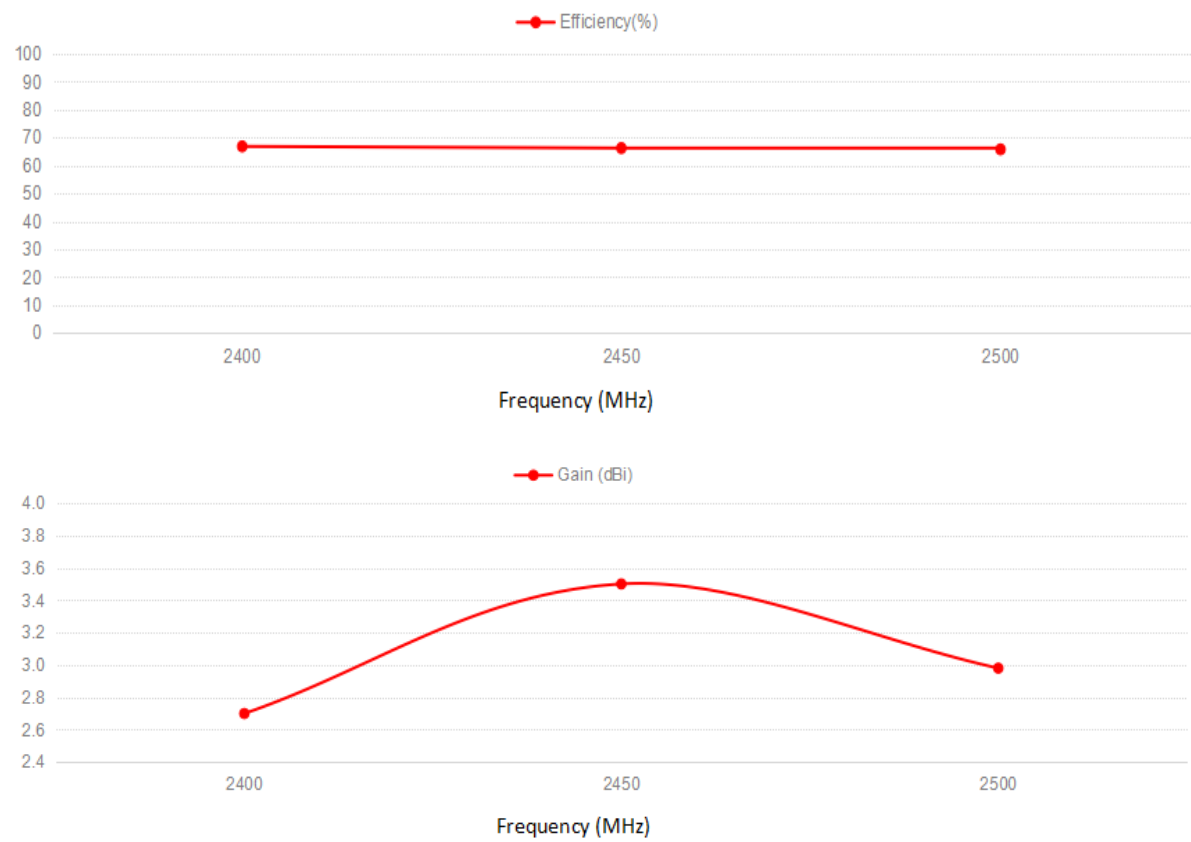
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-20.72	1.20
2450	-32.72	1.04
2500	-29.24	1.07

* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

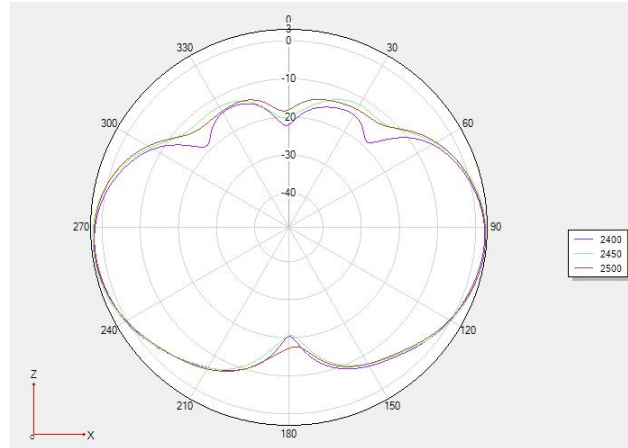
4. Efficiency and Gain



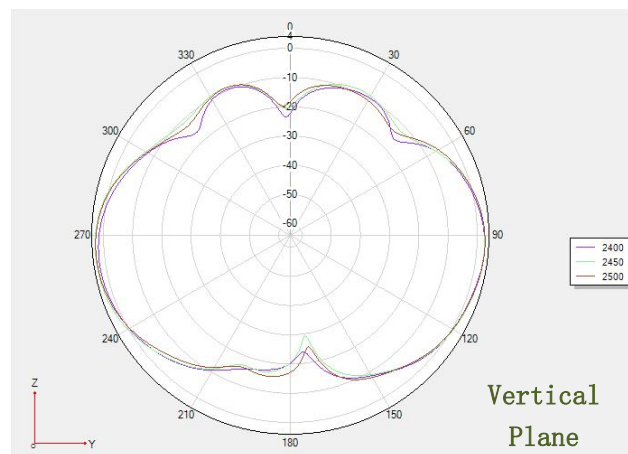
Frequency (MHz)	2400	2450	2500
Gain (dBi)	2.7	3.5	2.98
Efficiency (%)	66.83	66.22	65.77

5. Radiation Pattern

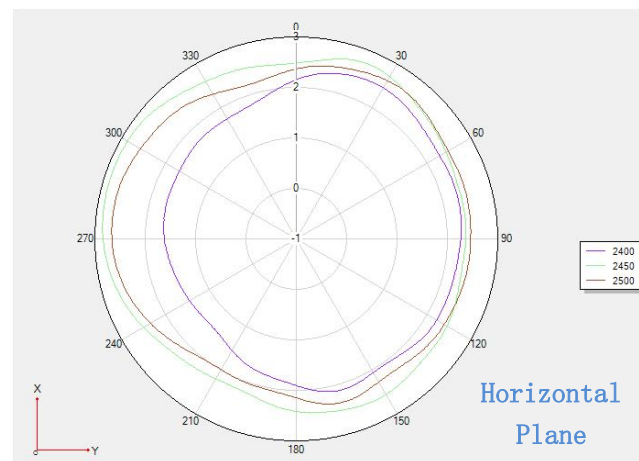
Antenna 2D Radiation Pattern unit:dBi



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

REV.	DESCRIPTION	ECN NO.	DATE	DRAWN BY
A	First Sample	/	2023.4.25	Yongxin

ROHS
COMPLIANT

Specification:

Frequency Range : 2400~2500MHz

VSWR : ≤1.92

DETAIL A
SCALE: 4/1

- Pack full: 25PCS/箱; 2孔/DIE Bag
- PCB板须贴上1pcs内箱标签至所放中间。

- 外箱须贴上1pcs/ROHS环保标签至外箱标签上;
- 外箱须贴上1pcs外箱标签至外箱左上角。

(注: 如果标签客户有要求则按客户要求贴; 否则按优化比标签贴)。

ITEM	PART NAME	DESCRIPTION	QTY	GENERAL TOLERANCE: CIST. P/N:	LINEAR: X.XX ±0.25 TITLE: ±0.3 ±0.5 2.4G W35白色天线=250mm+端子 XXX. XX. ±2.0 ±0.5 ANGLE: P/N.: UB02C250W3Da760A	APPR.: Changxing Liu	CHECK.: Dillon	DRAWN BY: 黄锡林
6	杆套	ABS, 白色	1					
5	PCB	FR-4, 黑色	1					
4	防水圈	硅胶, 红色	1					
3	固定座	PC+PBT, 白色	1					
2	线材	1.13线材, 灰色	1					
1	端子	1.13端子, 磷铜镀金	1					

UANT 东莞市优比电子有限公司
Dongguan Youbi Electronics Co., Ltd