



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称 2.4G W16 杆套 W16 下固黑色天线 L=120mm+端子

PRODUCT NAME:

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C120B5Da768A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Lina 	
APPROVED BY:	Changxing. Liu	
DATE:	2024-5-27	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-5-27

Content

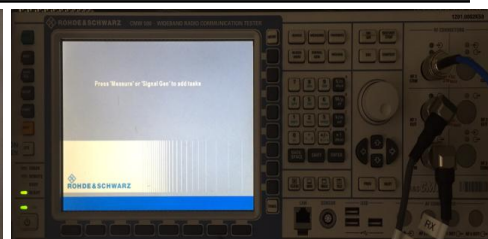
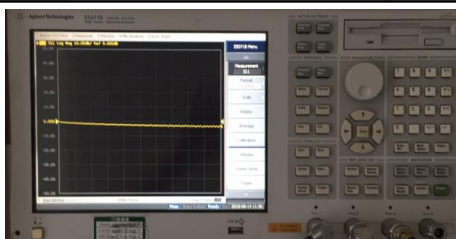
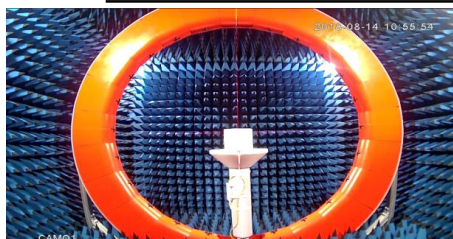
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	19.11x160.78,L120	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	5.23	dBi
Efficiency	>40	%
Connector Type	MHF-1-Plug	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+65℃	

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)



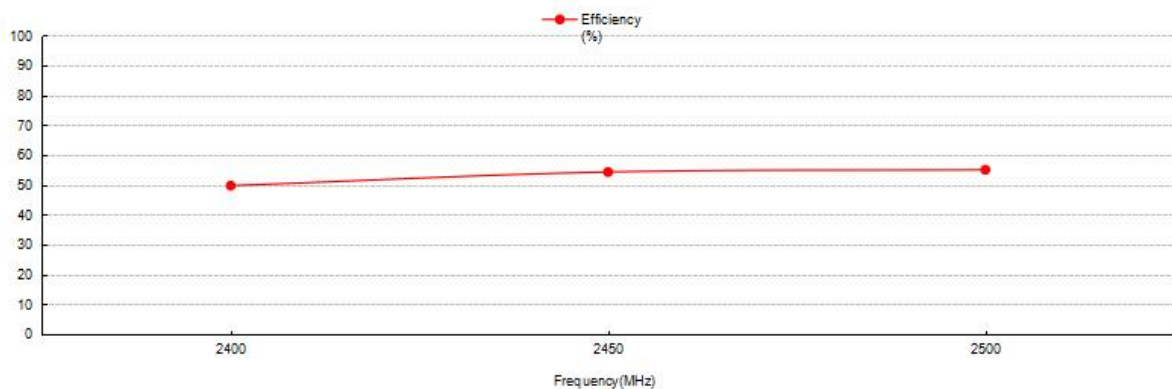
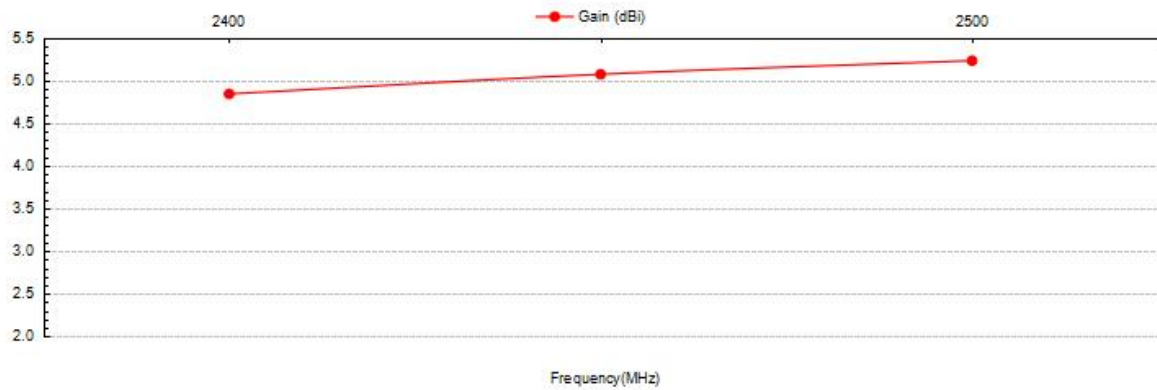
3. S Parameter

Frequency (MHz)	VSWR
2400	1.18
2450	1.28
2500	1.19



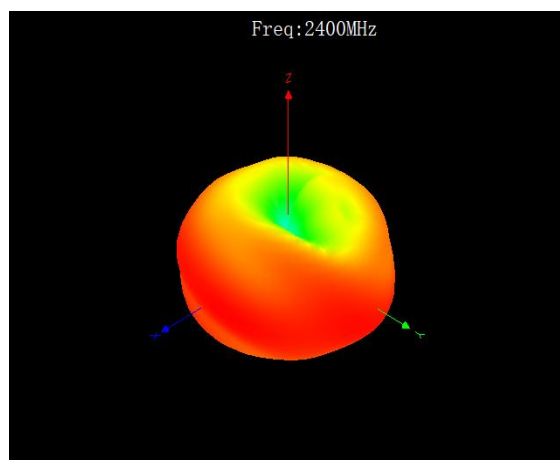
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	49.78	54.34	55.09
Gain (dBi)	4.84	5.07	5.23

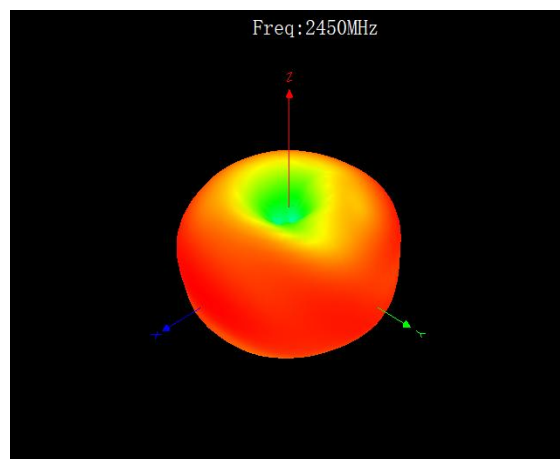


5. Radiation Pattern

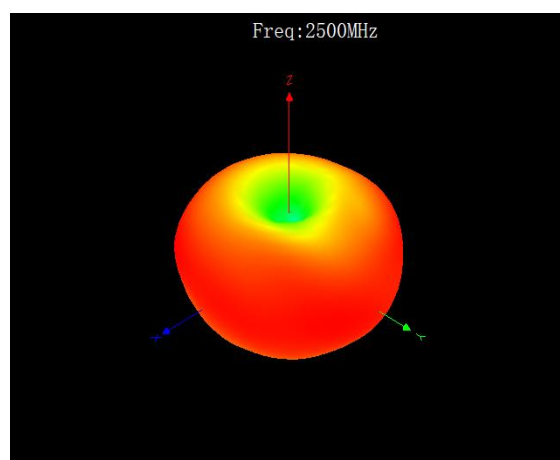
5-1 Antenna 3D Radiation Pattern



2400MHz

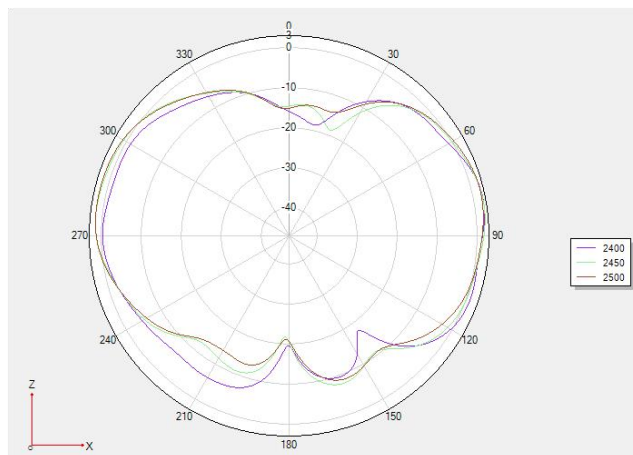


2450MHz

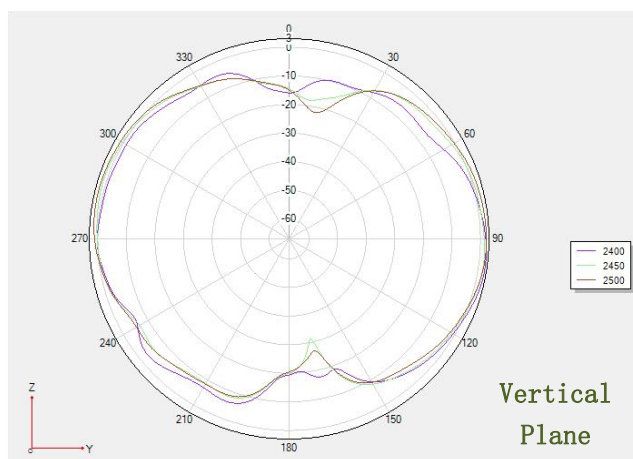


2500MHz

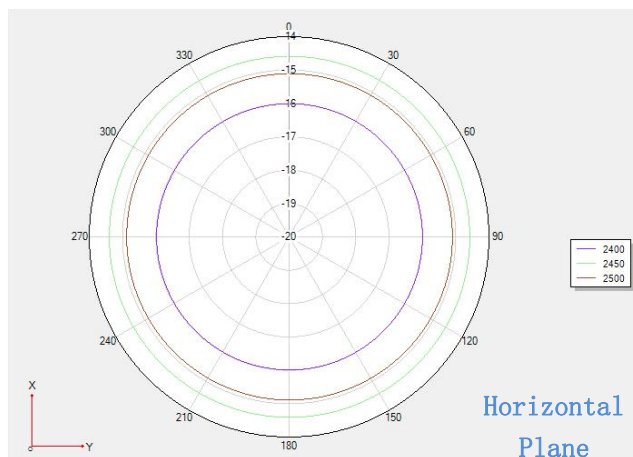
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

REV.	DESCRIPTION	ECN NO.	DATE	DRAFTED
A	First Sample	/	2023.4.30	Yongxin
B	杆套增加镭射		2024.2.27	Yongxin

REV.	DESCRIPTION	ECN NO.	DATE	DRAFTED
A	First Sample	/	2023.4.30	Yongxin
B	杆套增加镭射		2024.2.27	Yongxin

ROHS
COMPLIANT

Specification:

Frequency Range :2.4G

VSWR : ≤1.92

DETAIL A
SCALE:4/1

1. 外箱须贴上1pcs/ROHS环保标签至外箱标签上;
2. 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; 否则按优先级标签贴)。

ITEM	PART NAME	DESCRIPTION	QTY
1	端子	L13端子, 镀铜鍍金	1
2	线材	1.13线材, 灰色	1
3	固定座	PC+PBT, 黑色	1
4	PCB	FR-4, 黑色	1
5	杆套	ABS, 黑色	1
6	海绵	EVA, 黑色	1
7	弹簧	碳钢镀锌	1

GENERAL TOLERANCE: QEST, P/A:	
LINEAR:	X.XX
	±0.25
X.	±0.3
XX.	±0.5
XXX.	±2.0
ANGLE:	±0.5°
TITLE:	2.4G WiFi杆套 W16下固黑色天线
P/N:	UB02C120BSDa768A
REV.	A
UNITS	mm
SCALE	1 : 1

APPR.: Changxing Liu	CHECK.: Dillon	DRAW.: 黄锡林
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