

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER NAME:

产品名称

PRODUCT NAME: 2.4G FPC 内置天线 L=110mm+端子

客户料号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C110F2D3551A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	工程专用章 Changxing. Liu	
DATE:	2023/3/22	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2023-3-22

Content

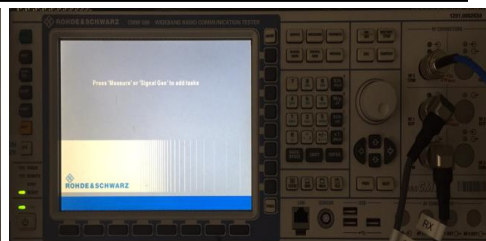
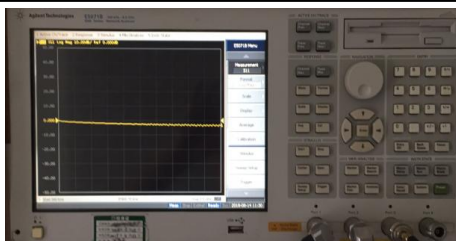
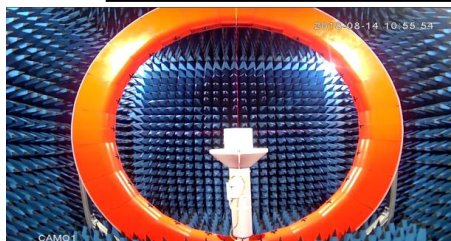
<i>Item</i>	<i>Description</i>
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3.-----	S Parameter
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5.-----	Radiation Pattern
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1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	39x16.5,L110	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3.5±0.5	dBi
Efficiency	>40	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+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

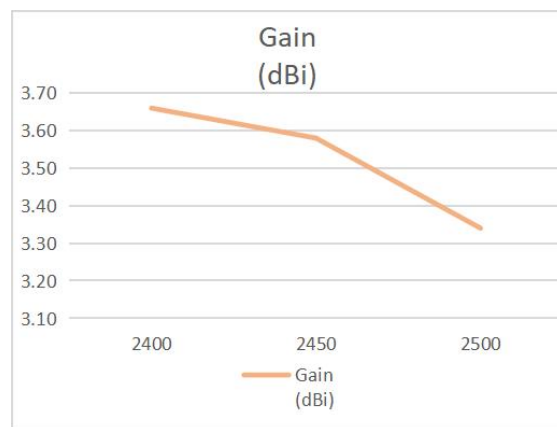
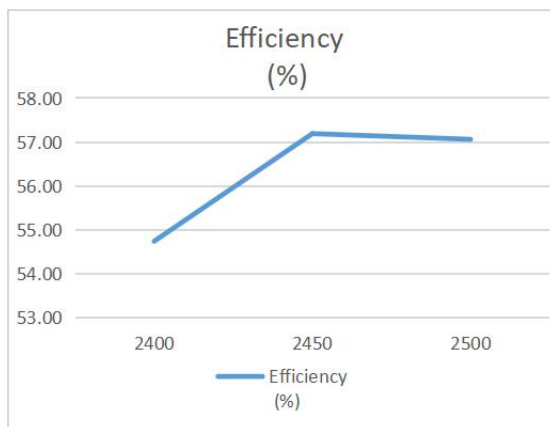
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-19.16	1.24
2450	-18.18	1.27
2500	-14.81	1.45



* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

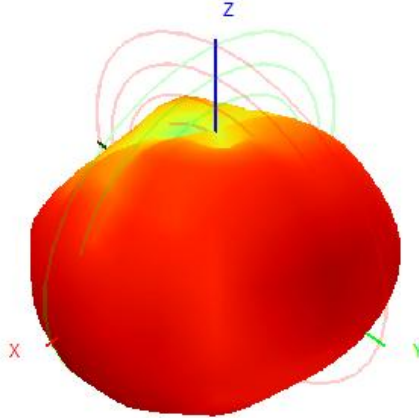
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	54.74	57.19	57.06
Gain (dBi)	3.66	3.58	3.34

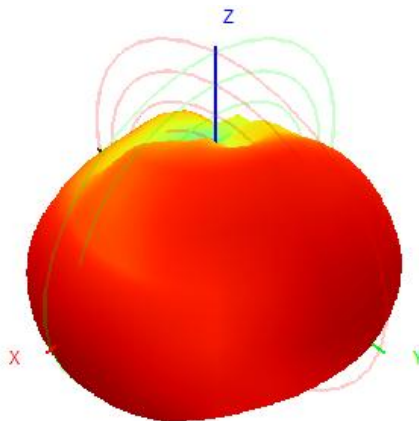


5. Radiation Pattern

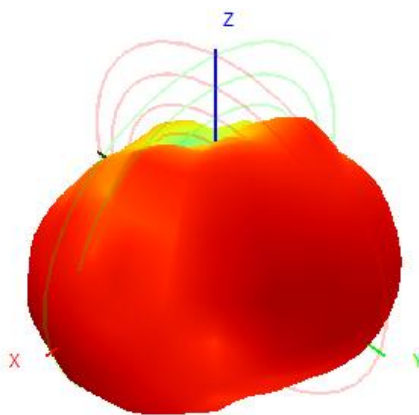
5-1 Antenna 3D Radiation Pattern



2400MHz

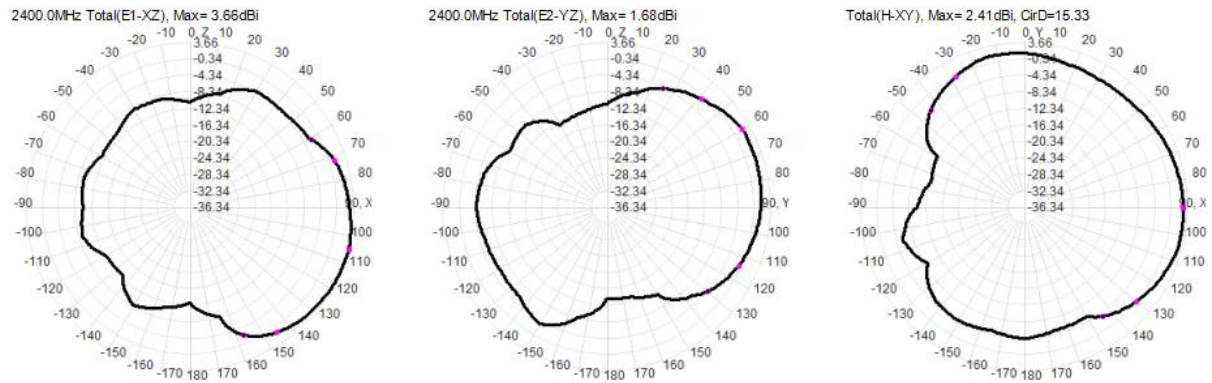


2450MHz

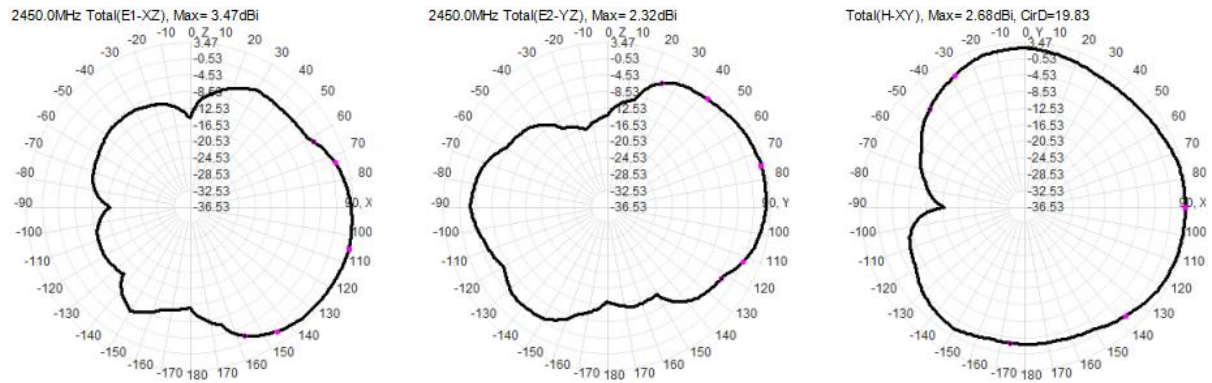


2500MHz

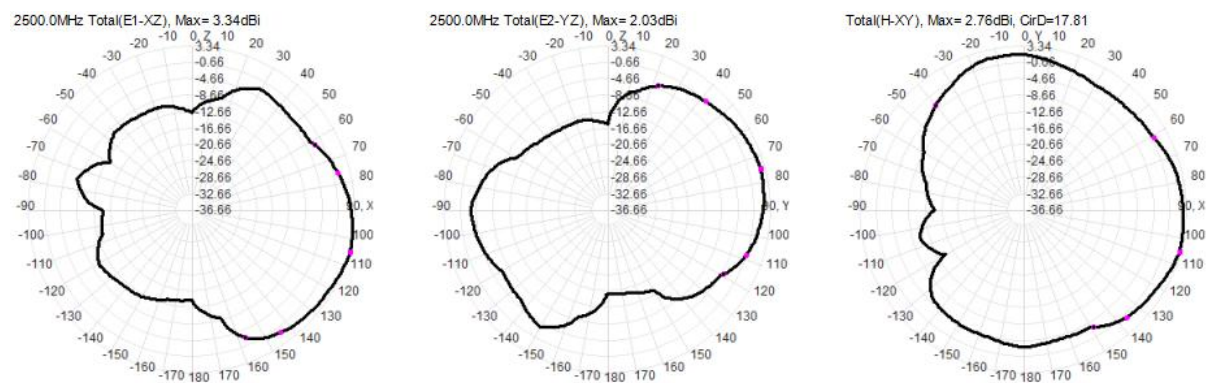
5-2 Antenna 2D Radiation Pattern



2400MHz



2450MHz



2500MHz

6. Active test data

802.11b : 11Mbps		
Item	Measurement	Total
1	TRP	20.03
6	TRP	19.64
11	TRP	17.85
1	TIS(EIRP)	-86.92
6	TIS(EIRP)	-85.04
11	TIS(EIRP)	-87.78

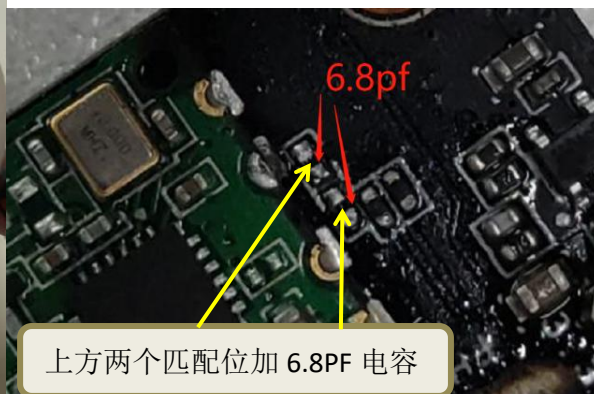
802.11g : 54Mbps		
Item	Measurement	Total
1	TRP	19.8
6	TRP	20.57
11	TRP	17.44
1	TIS(EIRP)	-70.03
6	TIS(EIRP)	-71.01
11	TIS(EIRP)	-72.04

802.11n: MCS7		
Item	Measurement	Total
1	TRP	18.45
6	TRP	18.71
11	TRP	16.57
1	TIS(EIRP)	-67.86
6	TIS(EIRP)	-66.11
11	TIS(EIRP)	-67.71

7. Antenna installation diagram



装整机时这些线束缠绕并远离天线放置



上方两个匹配位加 6.8PF 电容

9. Packaging

产品包装规范

内置出线系列

内袋包装说明:

- 50pcs产品包扎成一扎, 每袋装入4扎产品共计200pcs.
- PE袋进行封口.
- 每袋需贴1pcs内袋标签至PE袋正中间位置.
- PE袋尺寸: 长250mm*宽150mm*厚0.08mm.

单个产品

橡皮筋固定
PE袋

内袋包装

外箱包装

底层和顶层各放1pcs平卡
外箱标签
需贴/ROHS标签

包装箱封箱标准:
先用胶带封紧, 然后用3条打包带固定。

东莞市优比电子有限公司				
客户代码:	工单号:	客户料号:	订单号:	优比料号:
品名规格:	数量:	组	别	别
电话: 0769-81777126	传真: 0769-81777125			

东莞市优比电子有限公司				
客户代码:	工单号:	客户料号:	订单号:	优比料号:
品名规格:	数量:	组	别	别
电话: 0769-81777126	传真: 0769-81777125			

注: 此份包装规范适用于FPC, PCB天线类的线材总长 ≥ 90 mm带ipex和不带ipex产品, 属于通用类型。
1. **中号纸箱**装10000pcs产品每箱。