

# 承 认 书

## APPROVAL SHEET

客户名称

CUSTOMER NAME:

产品名称

PRODUCT NAME: 2.4G W70 白色天线 L=130mm+端子

客户料号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C130W3D2511A REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Yongxin. Lu 	
APPROVED BY:	Changxing. Liu	
DATE:	2021/10/29	

### Modification History

Version	Content Revision	Issued by	Date
A	Original version	Yongxin.Lu	2021-10-23

## *Content*

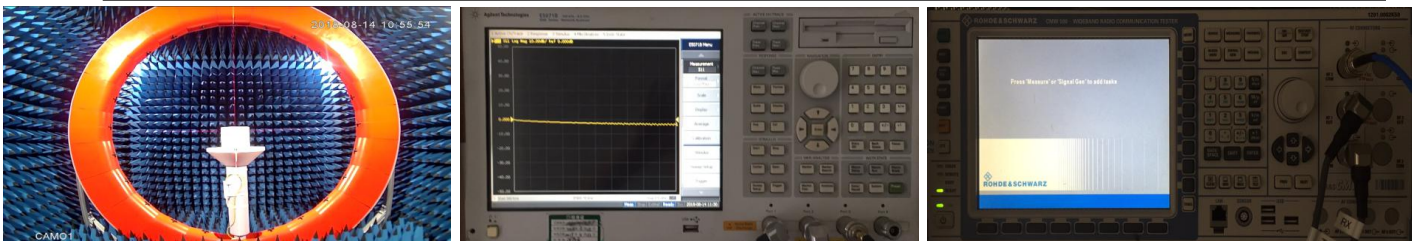
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification
7.-----	Packaging

### 1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	13x105,L130	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	3.0±0.5	dBi
Efficiency	>50	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+50℃	
Storage Temp	-20℃~+50℃	

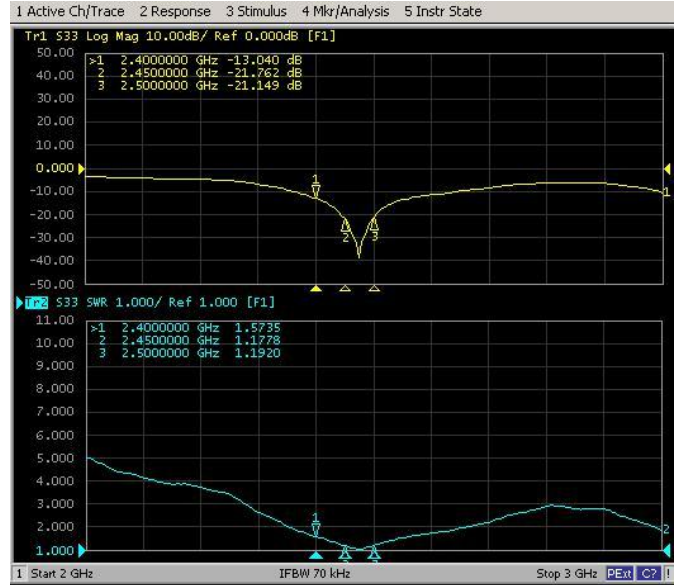
### 2. Test Items and Equipment

	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

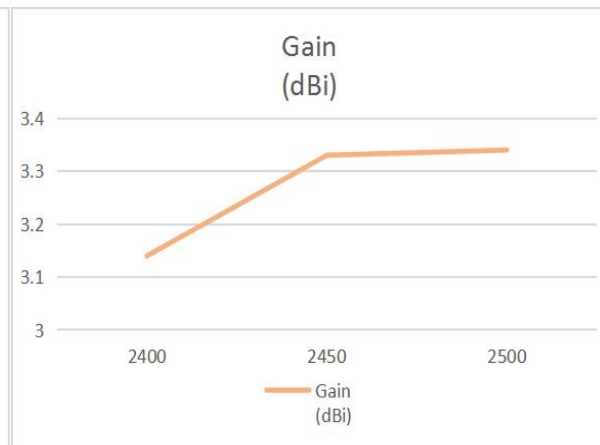
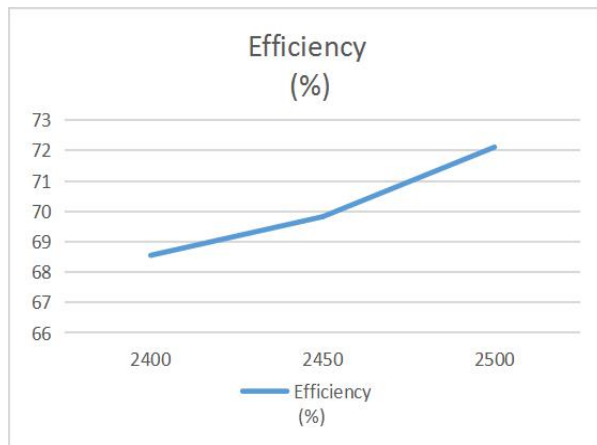
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-13.04	1.57
2450	-21.76	1.17
2500	-21.14	1.19



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

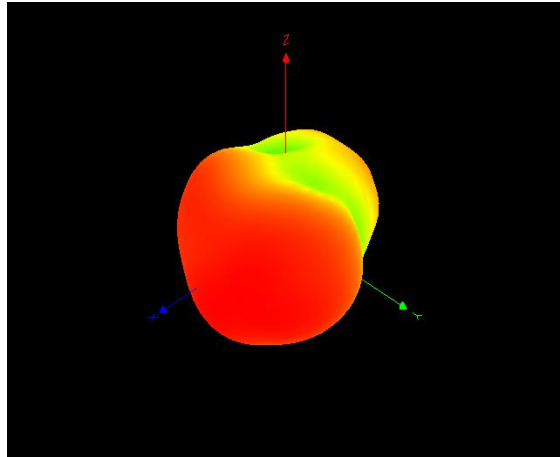
### 4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	68.55	69.82	72.11
Gain (dBi)	3.14	3.33	3.34

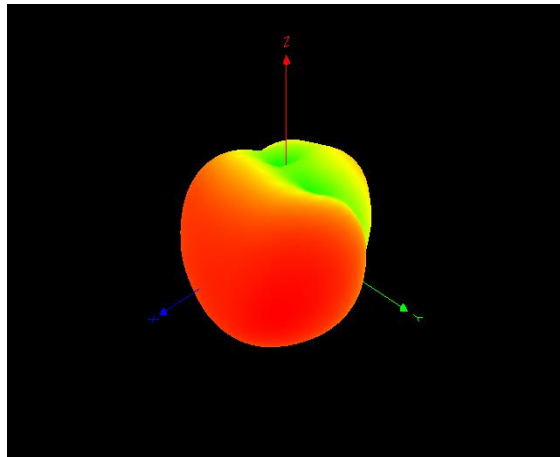


## 5. Radiation Pattern

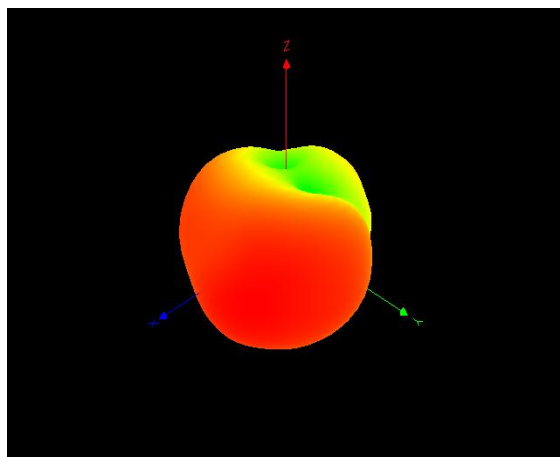
5-1 Antenna 3D Radiation Pattern



2400MHz

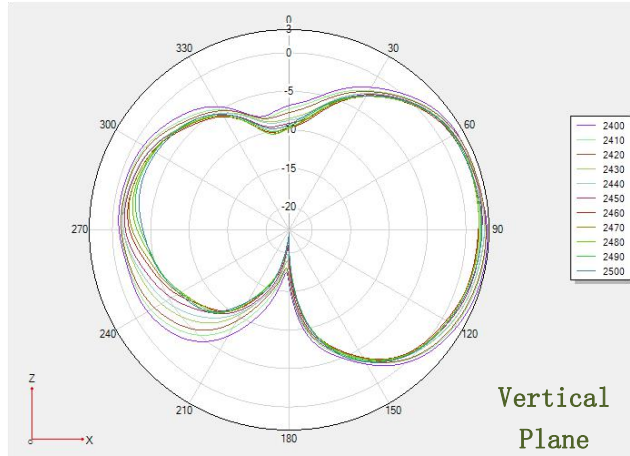


2450MHz

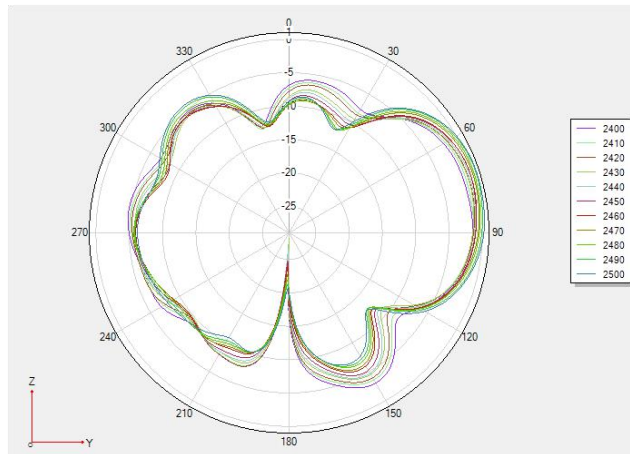


2500MHz

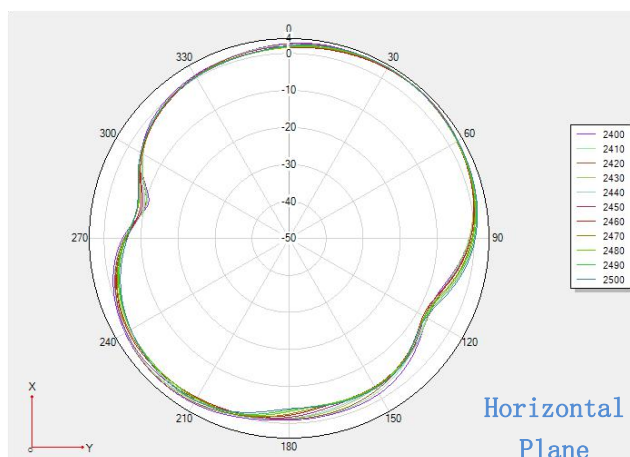
5-2 Antenna 2D Radiation Pattern



**Phi 0 2D**



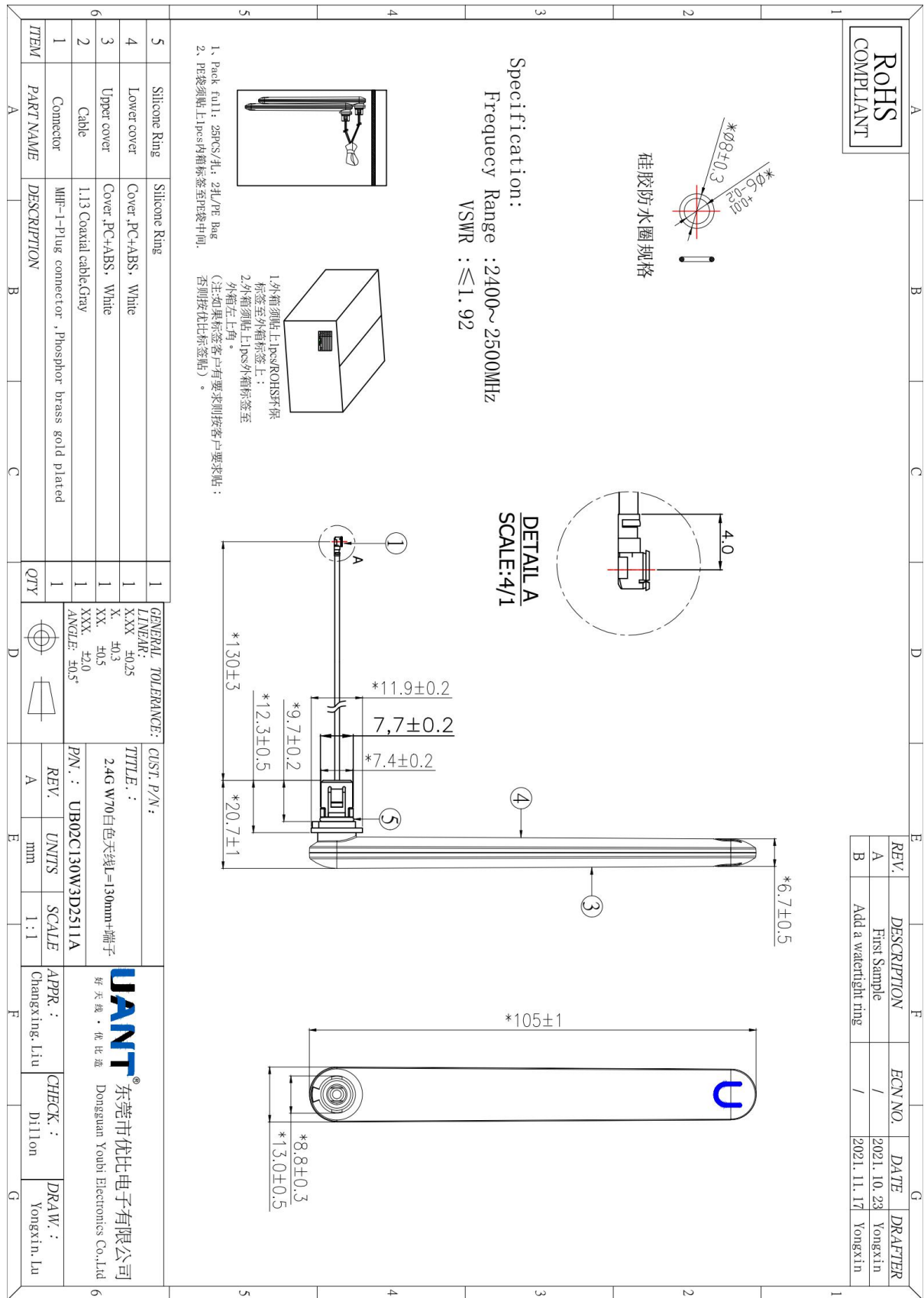
**Phi 90 2D**



**Theta 90 2D**



## 6. Mechanical Specification:





### 7. Packaging

**ROHS COMPLIANT**

单个产品

内袋包装说明:  
1. 25pcs产品包成一扎,  
每袋装入2扎产品共计50pcs.  
2. PE袋进行封口.  
3. 每袋需贴1pcs内袋标签至PE袋正中间位置.

内袋包装

内袋标签

包装箱封箱标准:  
先用胶带封紧, 然后用2条打包带固定.

外箱包装

1. 纸箱尺寸: 长320mm\*宽320mm\*高200mm.  
2. 每箱装16袋产品, 共计装800pcs产品每箱.

外箱标签

需贴/ROHS标签

客户代码:	工单号:
客户料号:	订单号:
批号/料号:	生产日期:
品名规格:	组别:
数量:	电话: 0769-81777126
	传真: 0769-81777125

REV.	DESCRIPTION	ECN NO.	DATE	DRAFTER
A	First Sample	/	2021-10-11	Yongxin

客户代码:	工单号:
客户料号:	订单号:
批号/料号:	生产日期:
品名规格:	组别:
数量:	电话: 0769-81777126
	传真: 0769-81777125

**GENERAL TOLERANCE: CUST. P/N:**

LINEAR:	±0.10
X,XXX	±0.3
XX	±0.5
XXX	±2.0
ANGLE:	±0.5°

**UANT<sup>®</sup> 东莞市优比电子有限公司**  
新天线 · 优比造 Dongguan Youbi Electronics Co., Ltd

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