

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: 卓创

产 品 名 称 2.4G FPC 内置天线 L=55mm

PRODUCT NAME: +0.81 线材+二代端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C55F2D26a8A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Yongxin. Lu 	
APPROVED BY:	Changxing. Liu	
DATE:	2022/1/8	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Yongxin.Lu	2021-1-8

Content

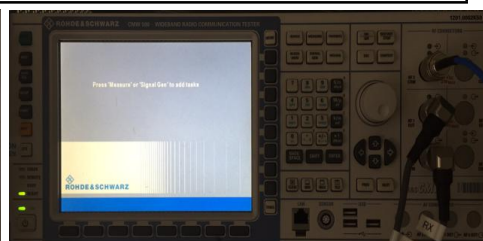
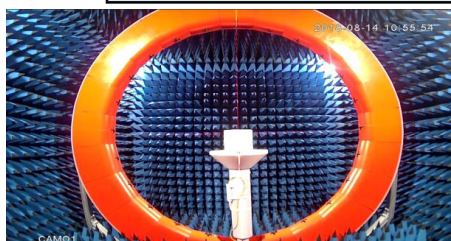
<i>Item</i>	<i>Description</i>
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1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	40x18.5,L55	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	2.77	dBi
Efficiency	>50	%
Connector Type	0.81 MHF-2-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)



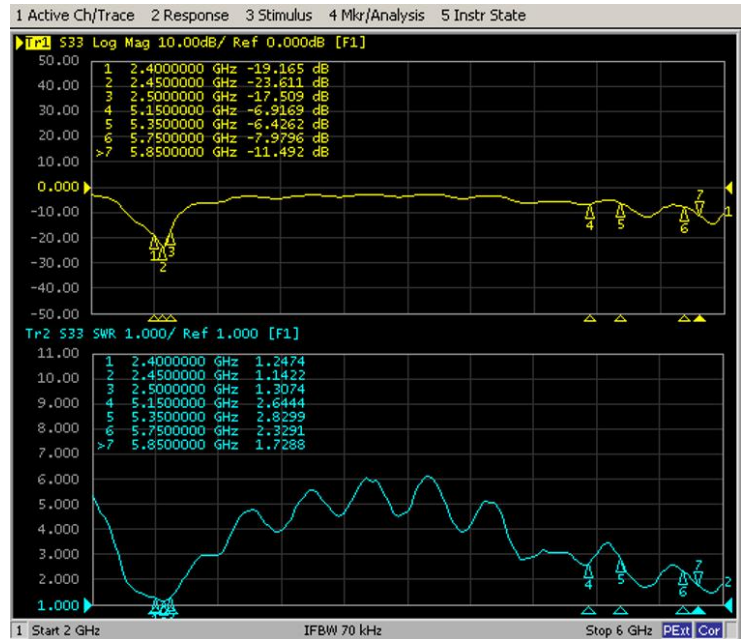
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-19.16	1.24
2450	-23.61	1.14
2500	-17.50	1.30

* Voltage Standing Wave Ratio(VSWR)

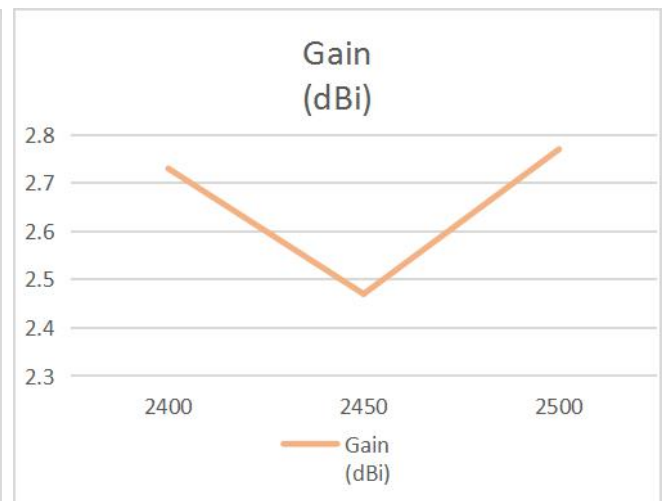
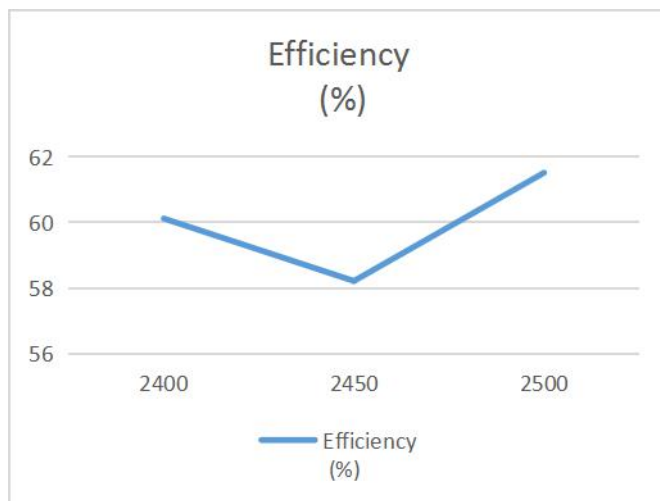
Return Loss(RL)

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



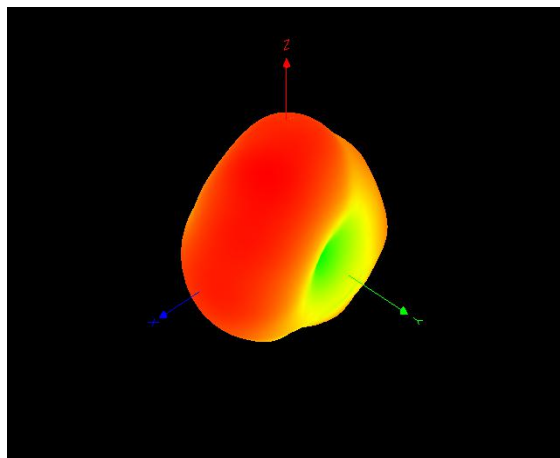
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	60.12	58.21	61.52
Gain (dBi)	2.73	2.47	2.77

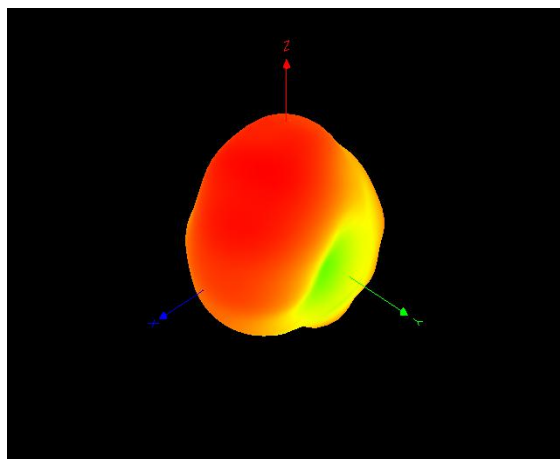


5. Radiation Pattern

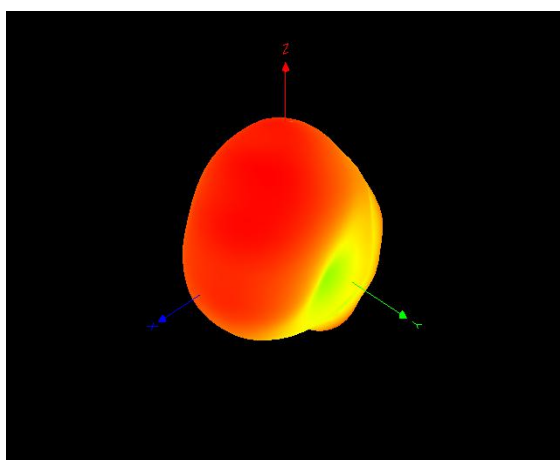
5-1 Antenna 3D Radiation Pattern



2400MHz

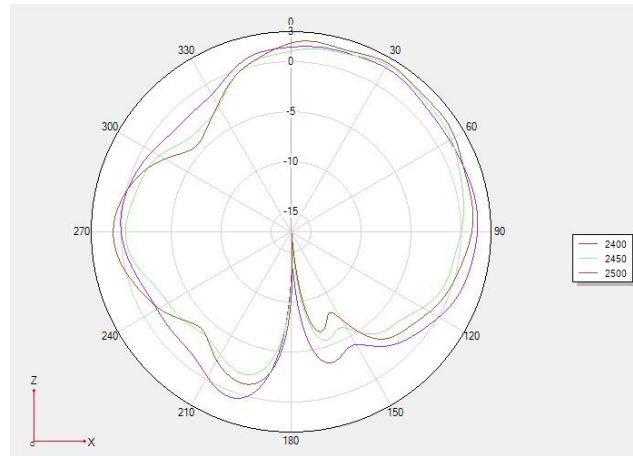


2450MHZ

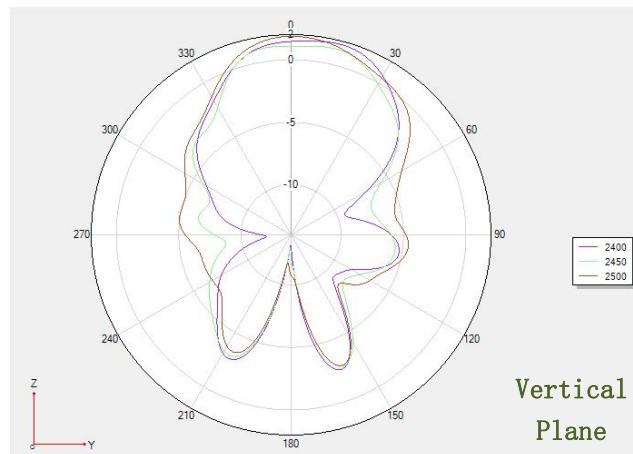


2500MHz

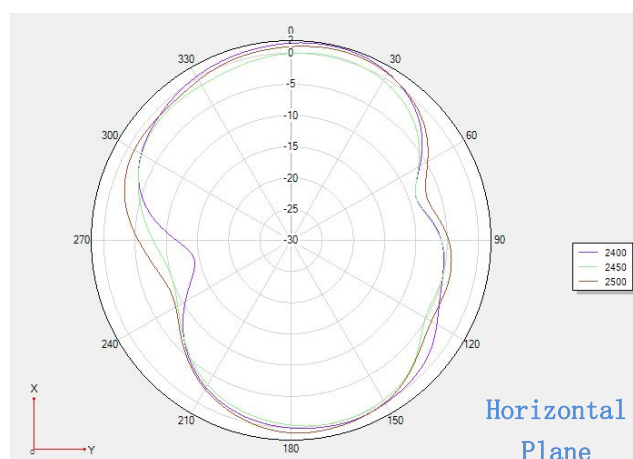
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D

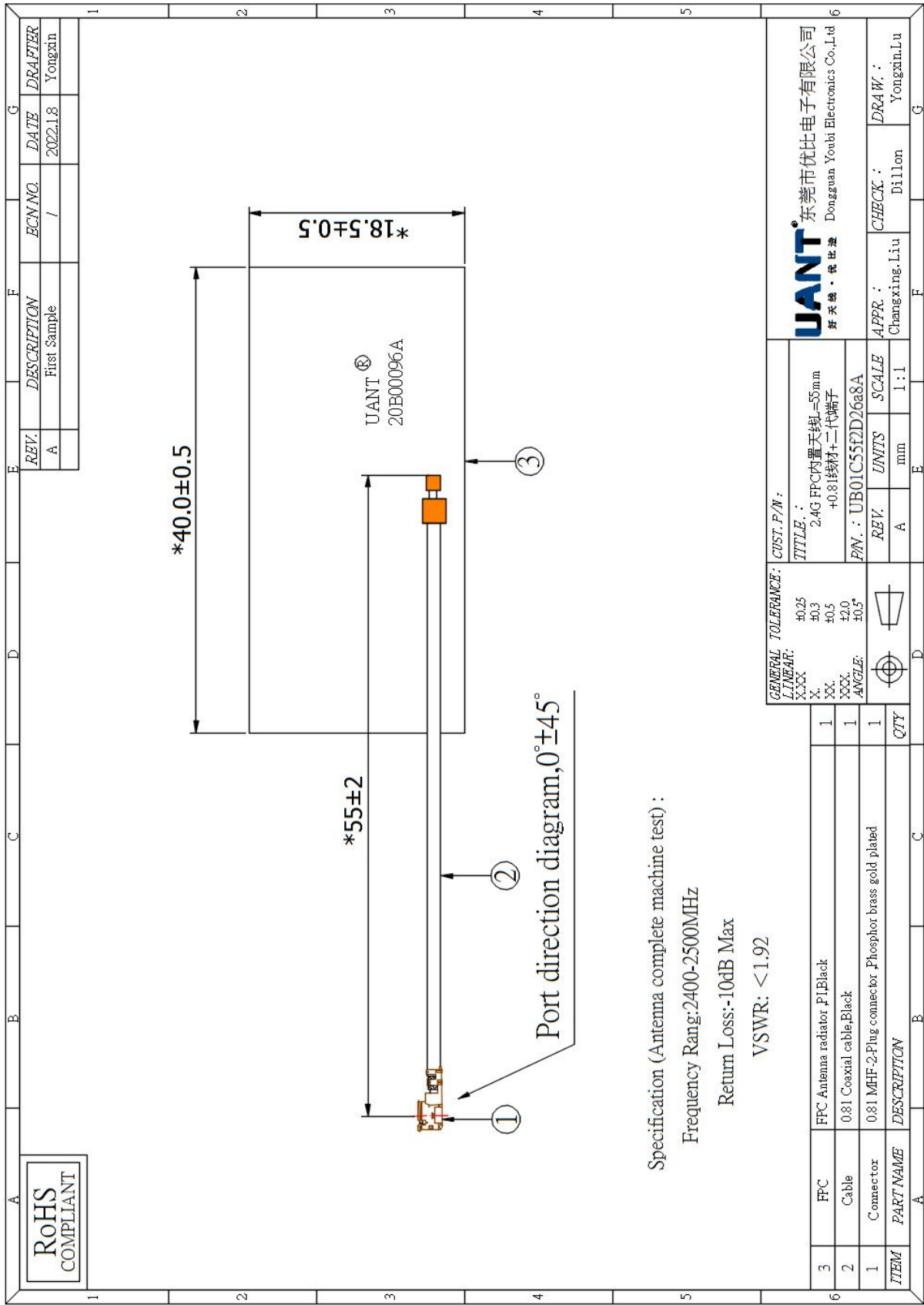


Theta 90 2D

6. Antenna installation diagram

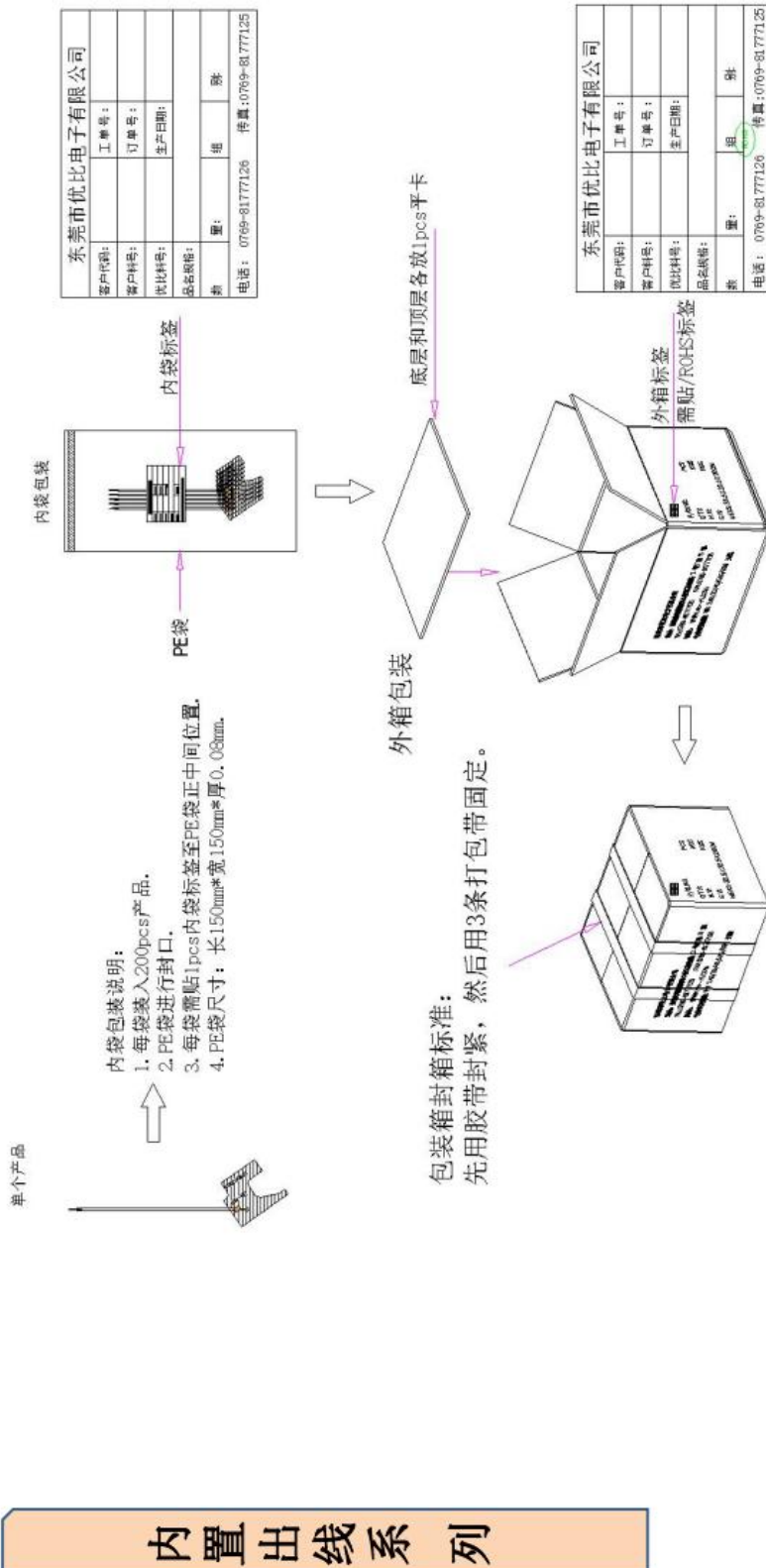


7.Mechanical Specification:



8. Packaging

产品包装规范



注: 此份包装规范适用于FPC, PCB天线类的线材总长<90mm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.