

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G 2DB PCB 内置天线 L=72MM+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C55P2D4808A REV: D

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	Huang	
DATE:	2025/7/24	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-11-12
B	线长变更	Eddy	2024-11-18
C	线长变更	Lina	2025-04-10
D	线长变更	Lina	2025-07-24

Content

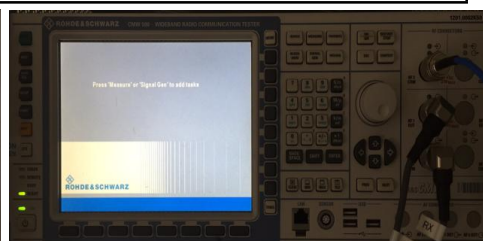
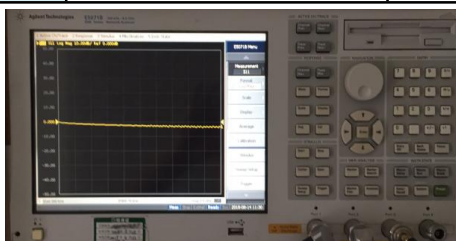
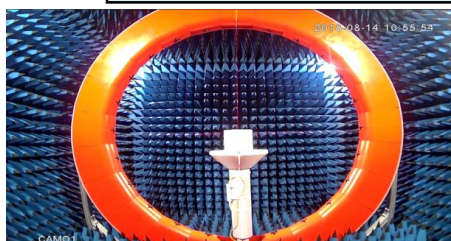
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Antenna installation diagram
7.-----	Mechanical Specification
8.-----	Packaging

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	40*11.7 L=72	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	4.0±0.8	dBi
Efficiency	>50	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

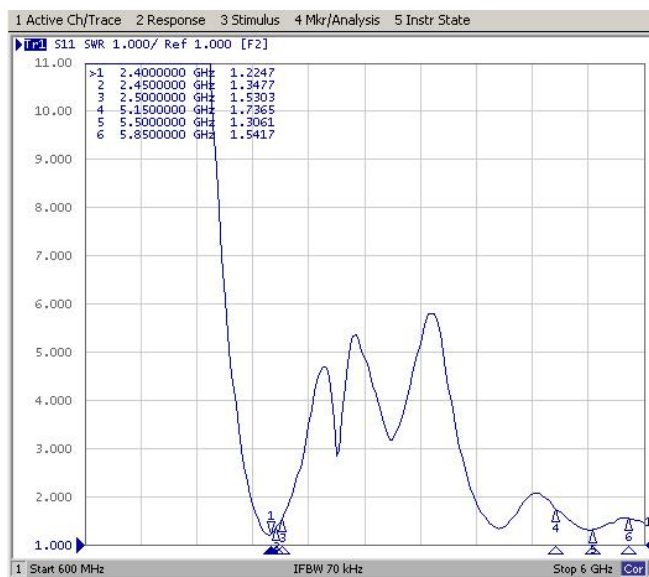
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

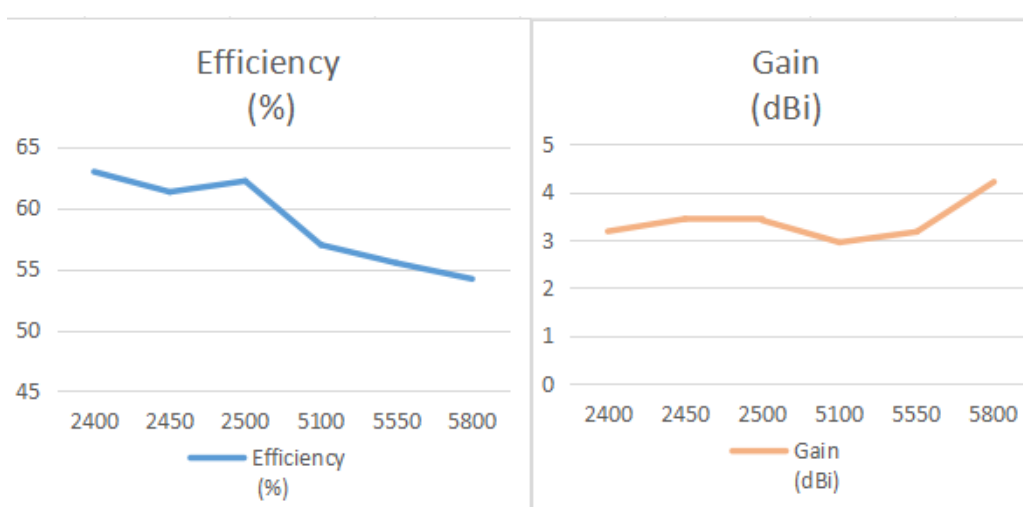
Frequency (MHz)	VSWR
2400	1.22
2450	1.34
2500	1.53
5150	1.73
5500	1.30
5850	1.54

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



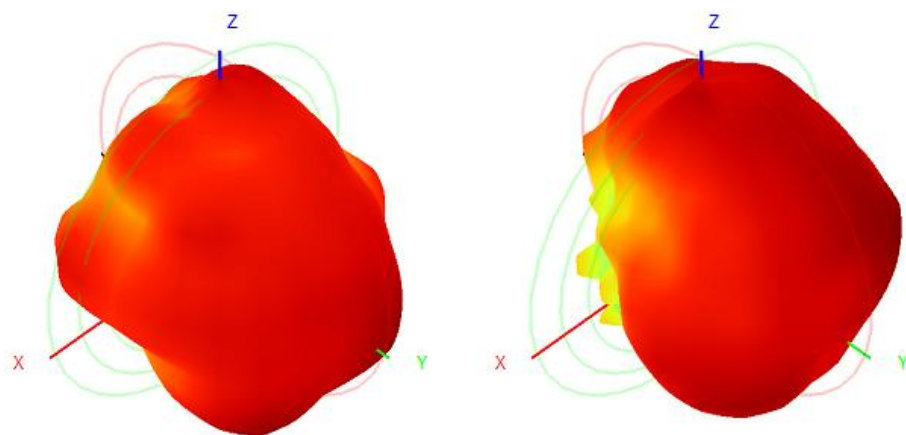
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5100	5550	5800
Efficiency (%)	62.97	61.32	62.21	56.98	55.49	54.19
Gain (dBi)	3.18	3.44	3.41	2.95	3.17	4.21

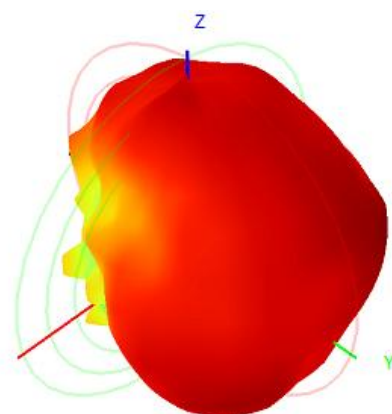


5. Radiation Pattern

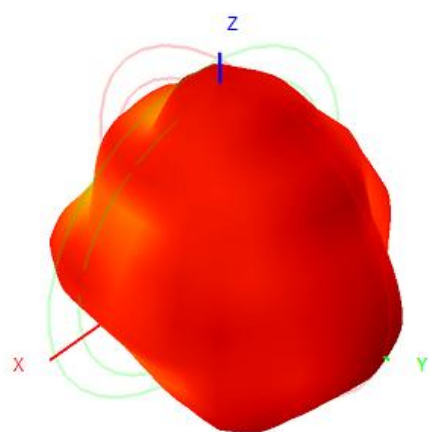
5-1 Antenna 3D Radiation Pattern



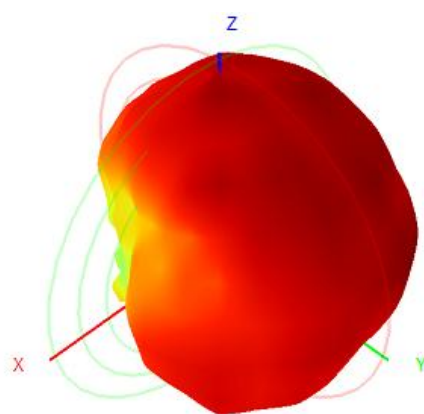
2400MHz



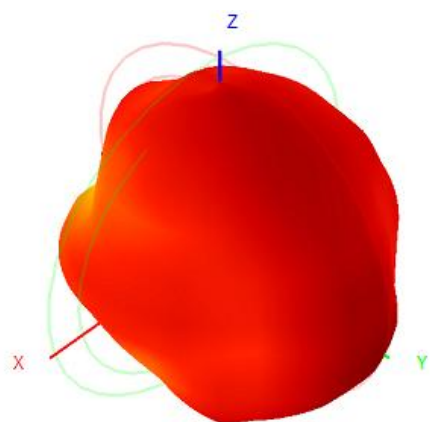
5100MHz



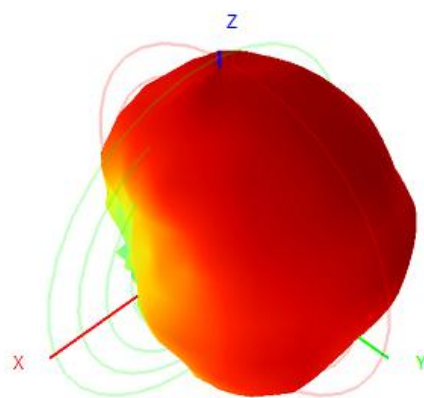
2450MHz



5550MHz

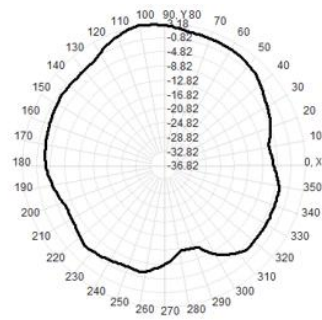
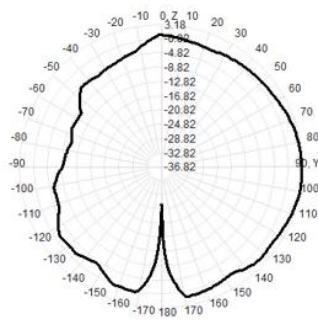
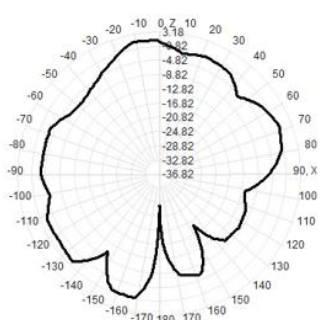


2500MHz

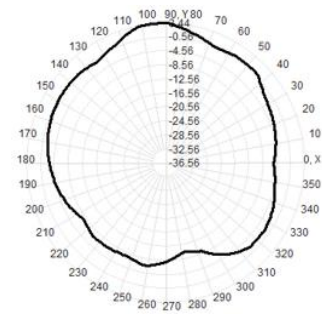
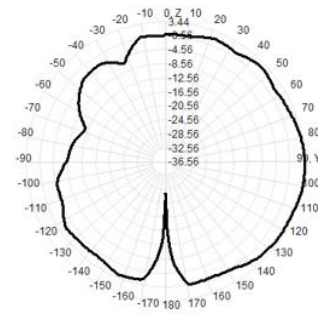
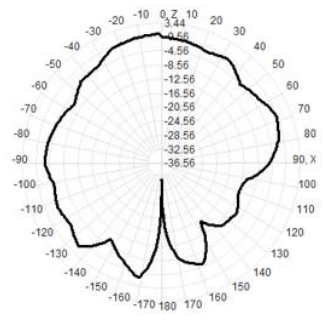


5800MHz

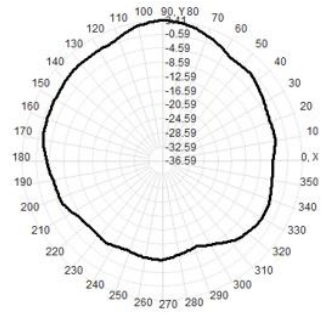
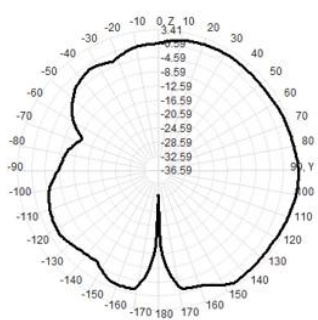
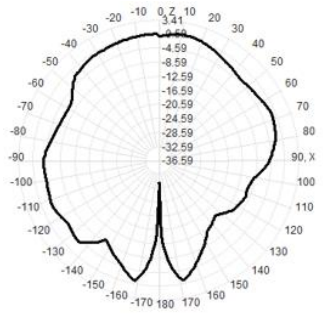
5-2 Antenna 2D Radiation Pattern



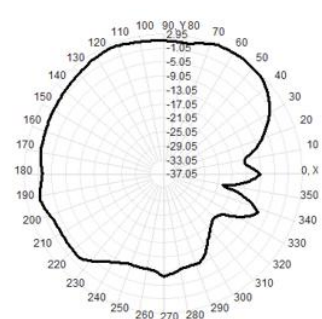
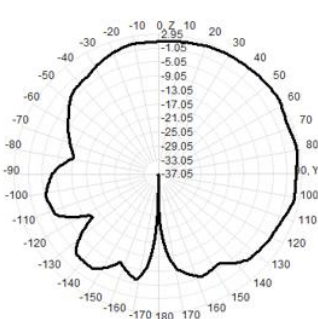
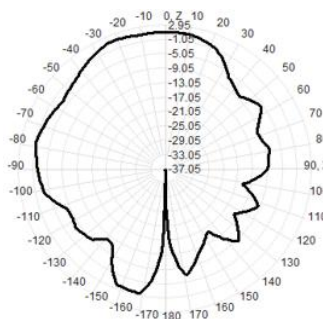
2400MHz



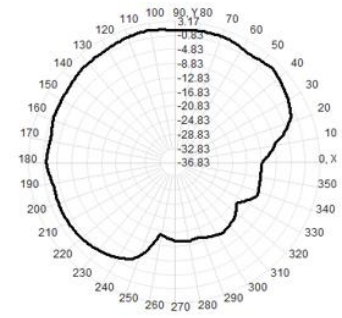
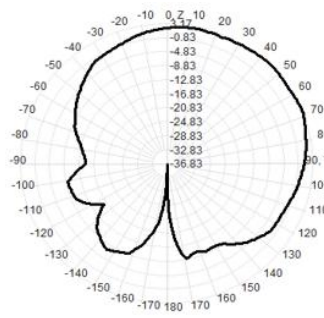
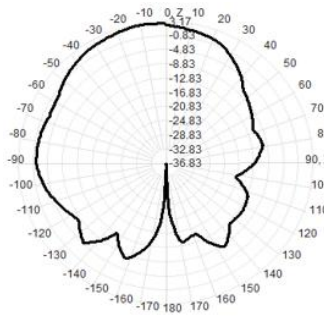
2450MHz



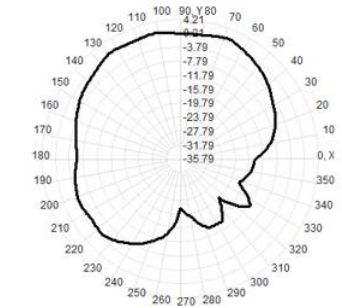
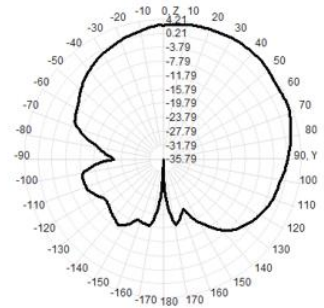
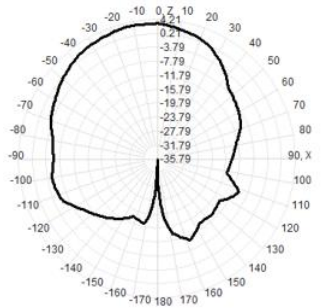
2500MHz



5100MHz

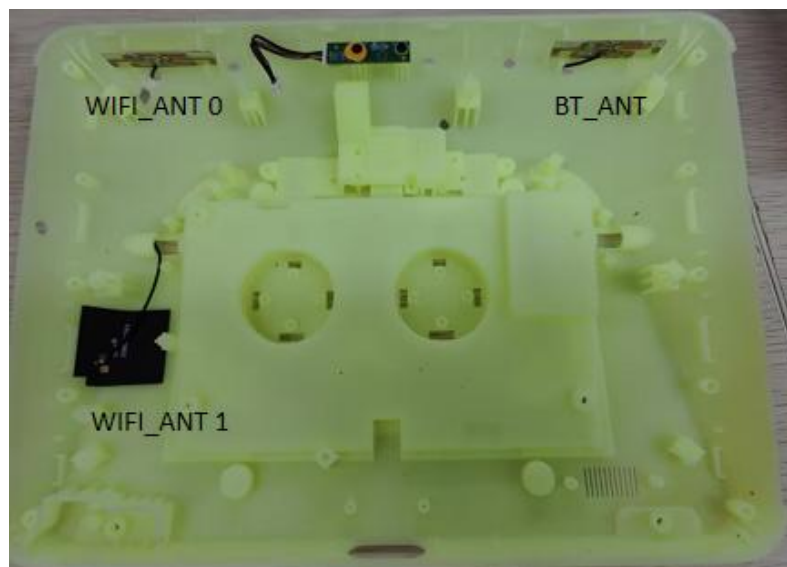


5550MHz

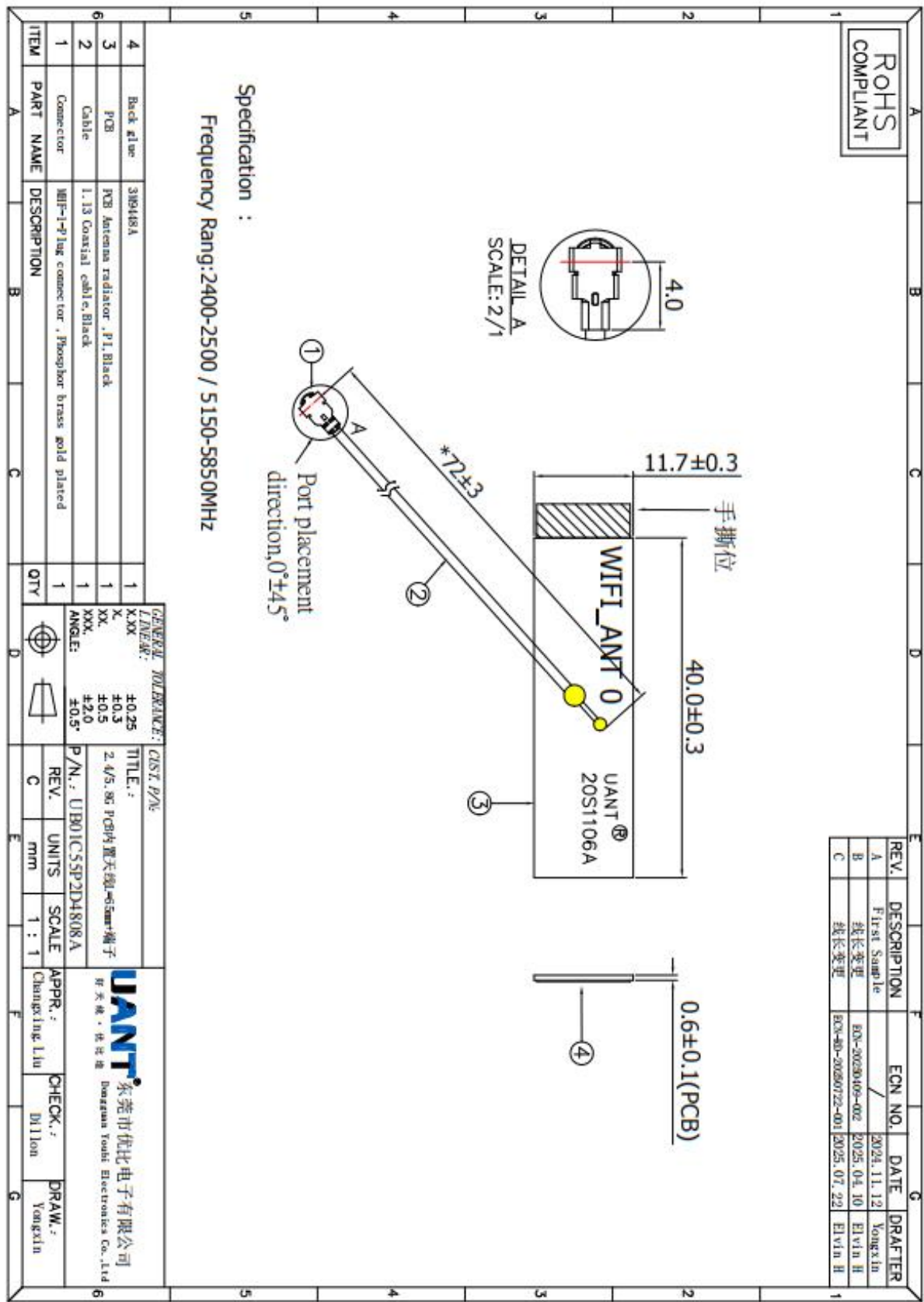


5800MHz

6. Antenna installation diagram

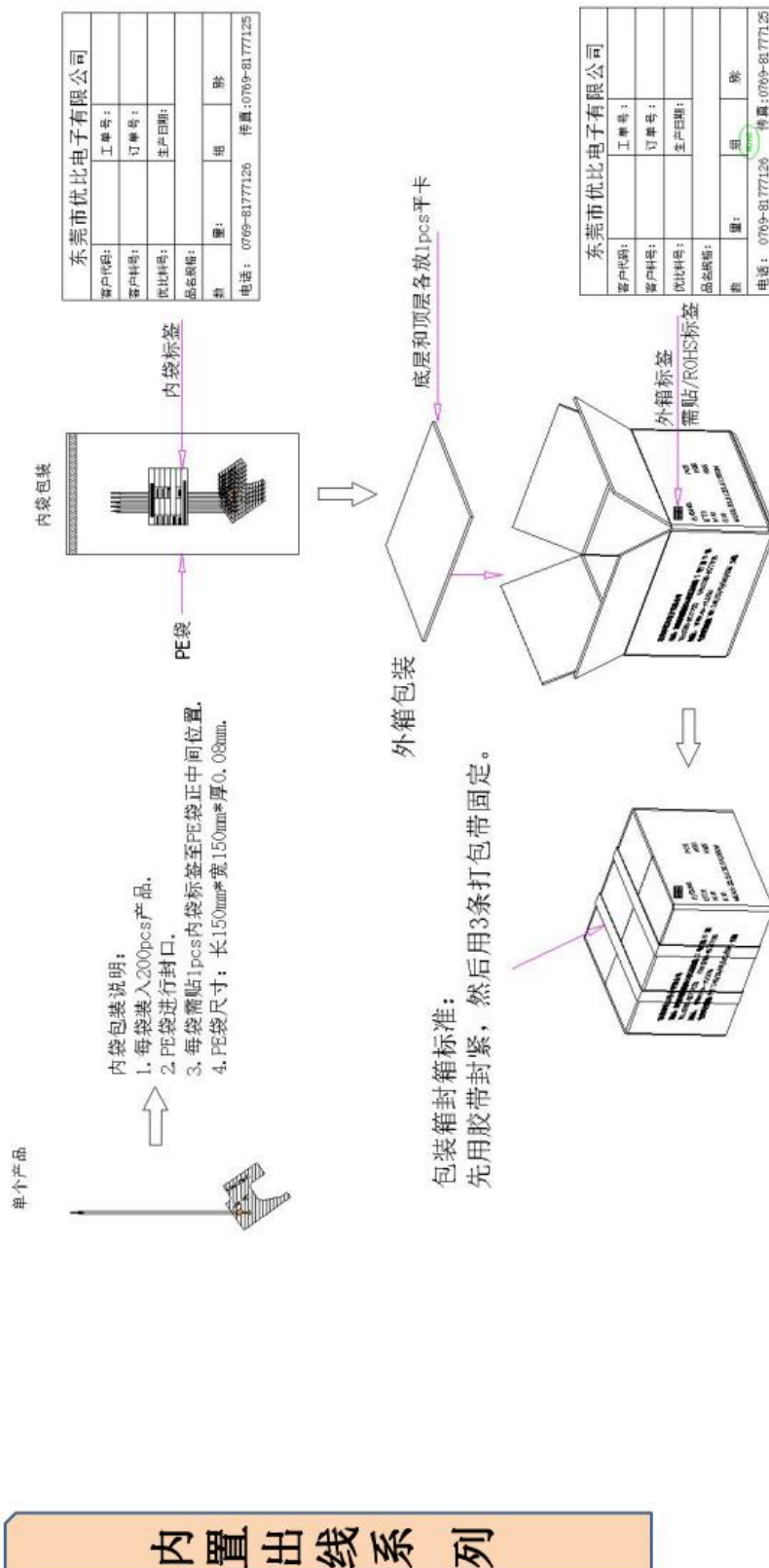


7.Mechanical Specification



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。