

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=51mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C51F2D3319A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Eddy	
APPROVED BY:	Changxing. Liu	
DATE:	2022/11/9	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2022-11-9

Content

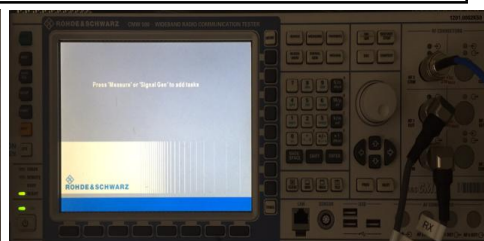
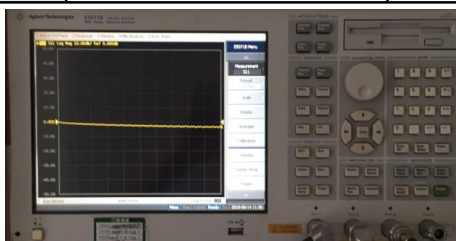
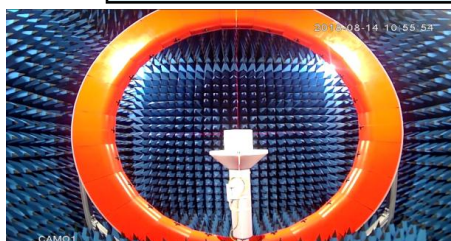
<i>Item</i>	<i>Description</i>
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3.-----	S Parameter
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5.-----	Radiation Pattern
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7.-----	Mechanical Specification
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1.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

Characteristics	Specifications	Unit
Outline Dimensions	32.4x20.1,L51	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2.5	
Polarization	Linear Polarization	
Gain	1 REF	dBi
Efficiency	< 40	%
Connector Type	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)



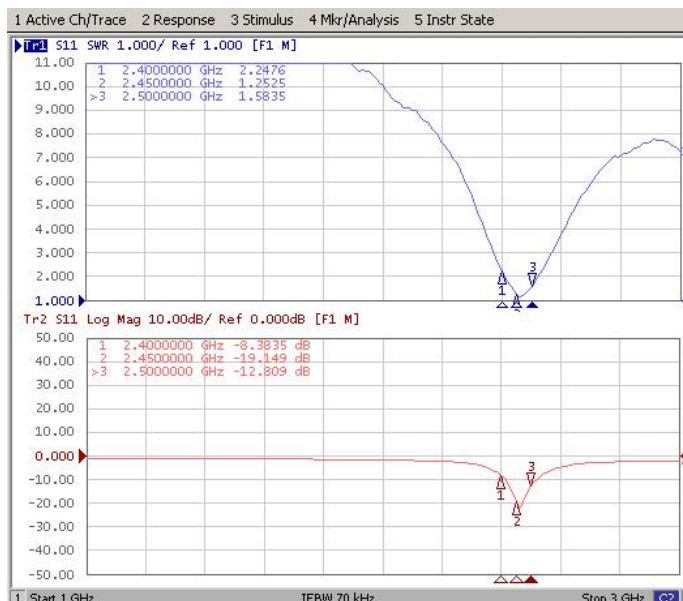
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-8.38	2.24
2450	-19.14	1.25
2500	-12.80	1.58

* Voltage Standing Wave Ratio(VSWR)

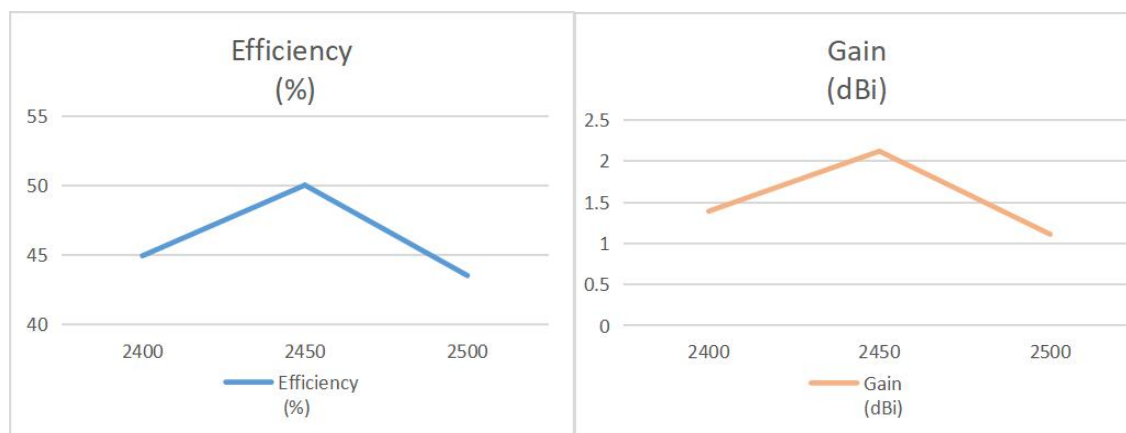
Return Loss(RL)

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



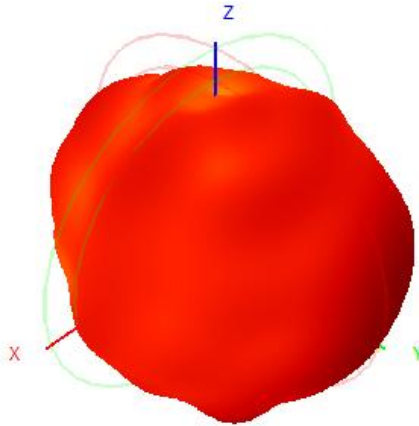
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	44.93	50.01	43.51
Gain (dBi)	1.39	2.12	1.11

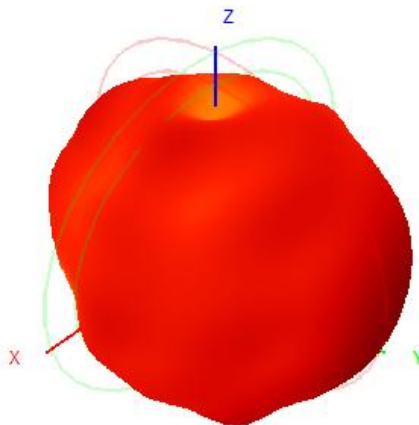


5. Radiation Pattern

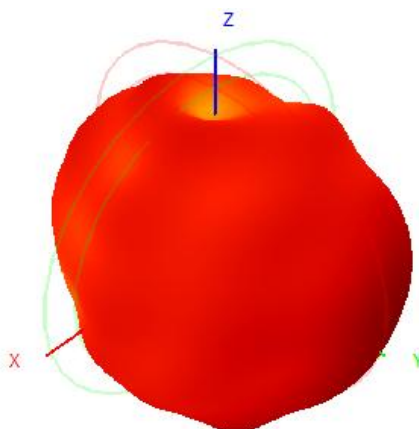
5-1 Antenna 3D Radiation Pattern



2400MHz

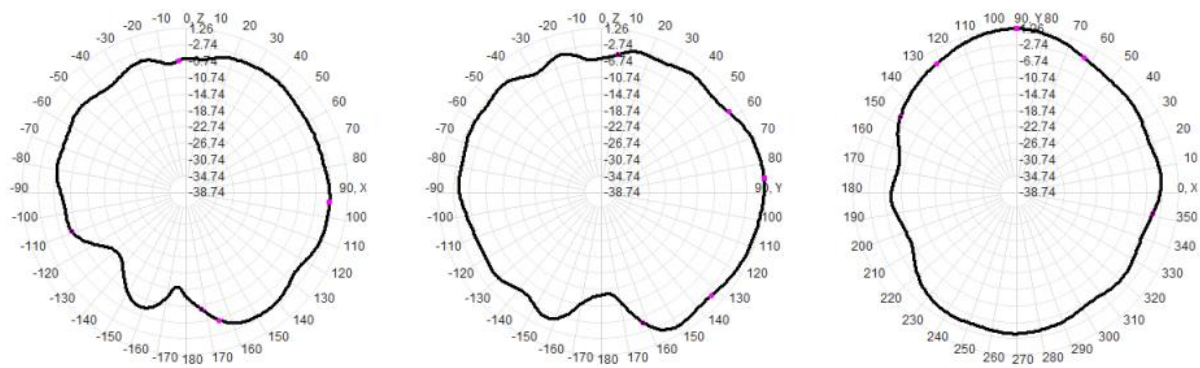


2450MHz

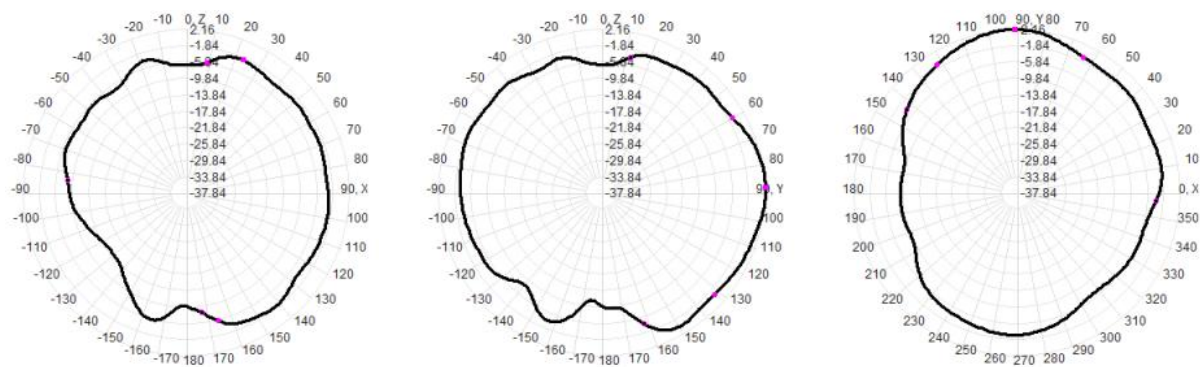


2500MHz

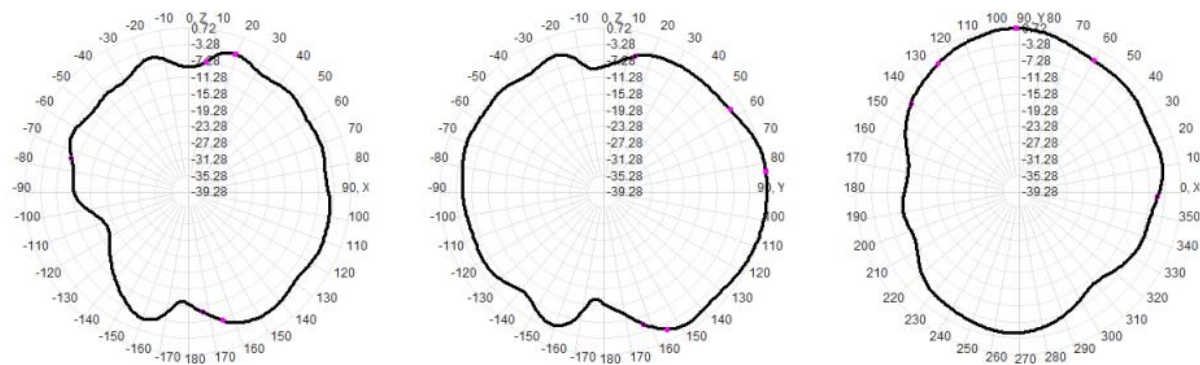
5-2 Antenna 2D Radiation Pattern



2400MHz

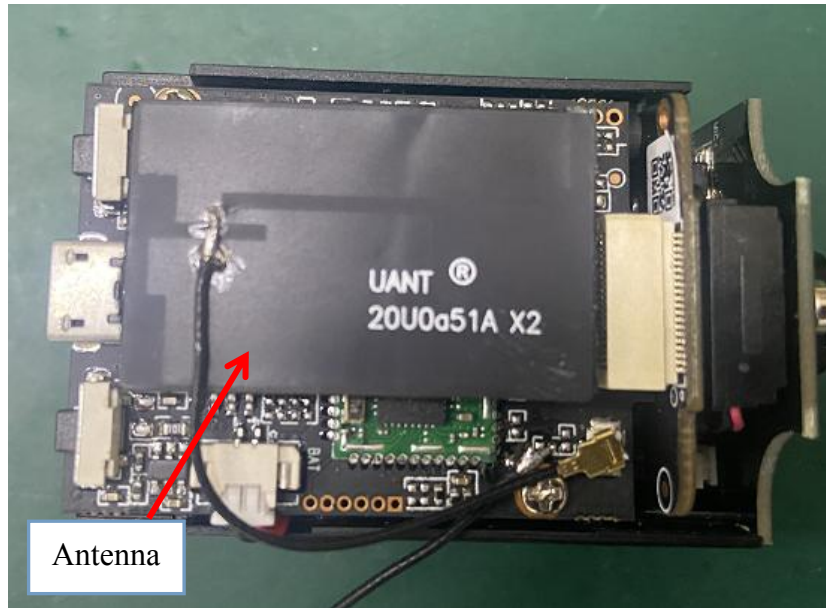


2450MHz

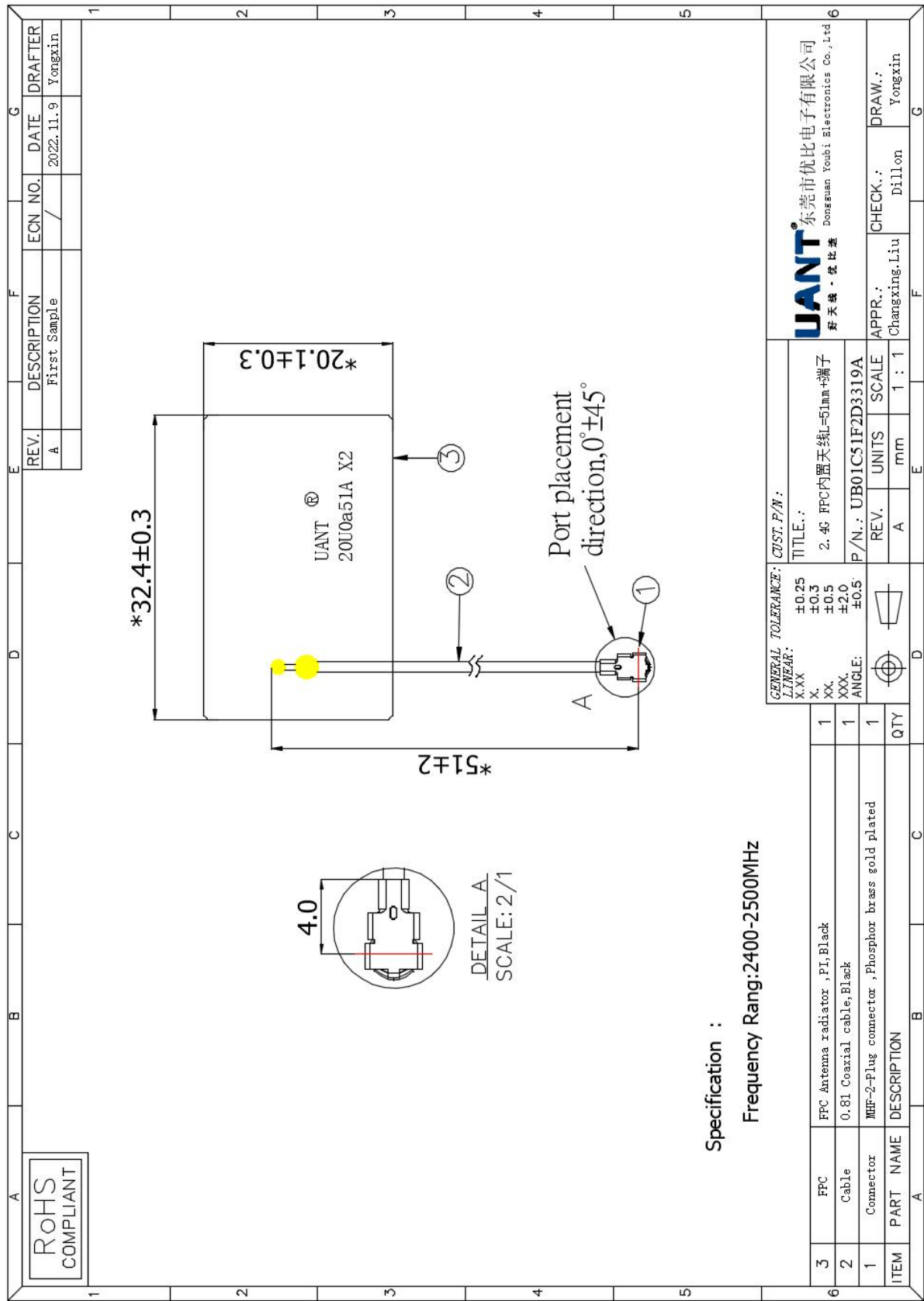


2500MHz

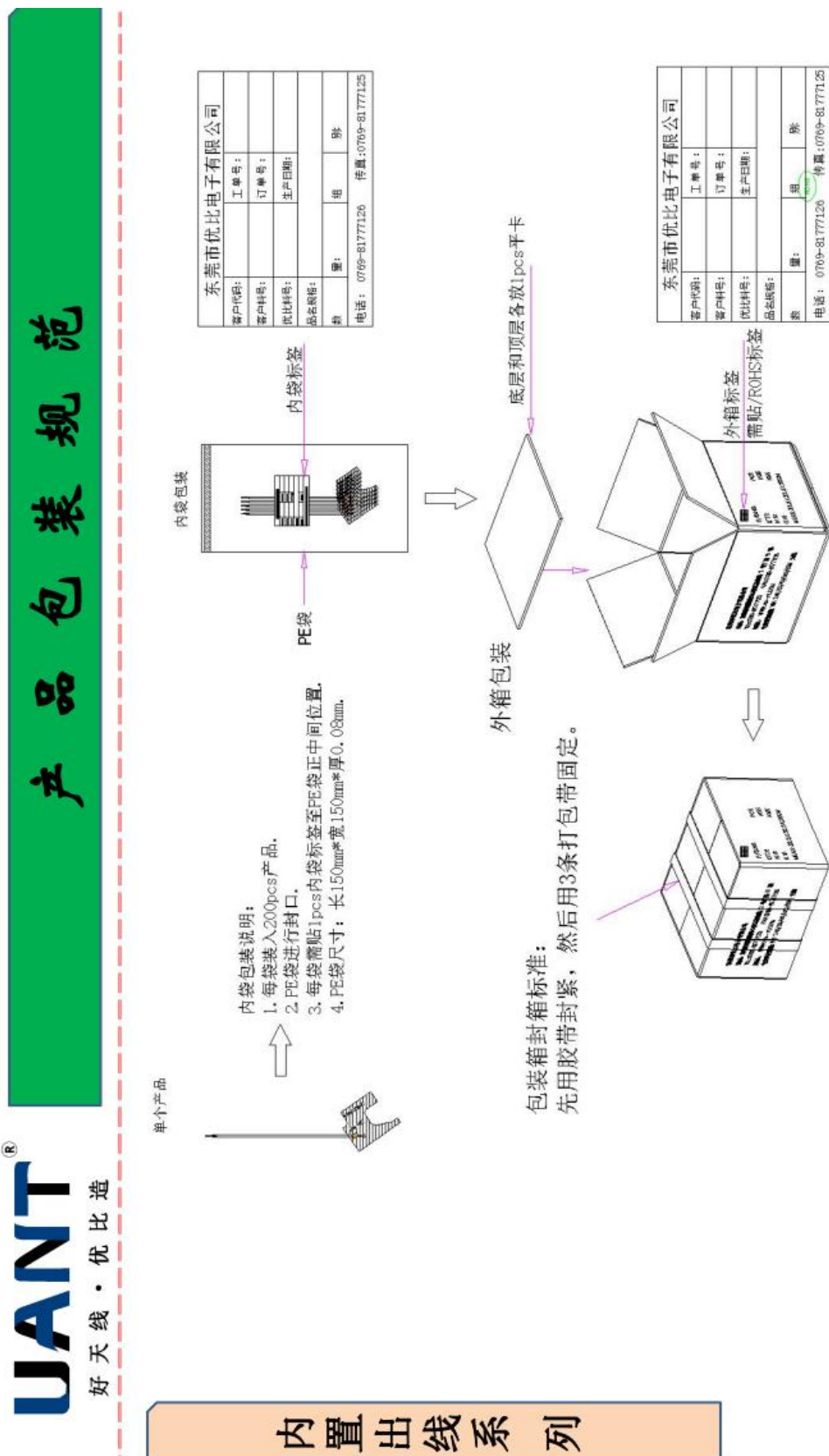
6. Antenna installation diagram



7.Mechanical Specification



8. Packaging



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.

内置出线系列