



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: Out-board PCB Antenna L=40mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C40P1D4298A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	 Changxing. Liu	
DATE:	2024/7/12	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-7-12

Content

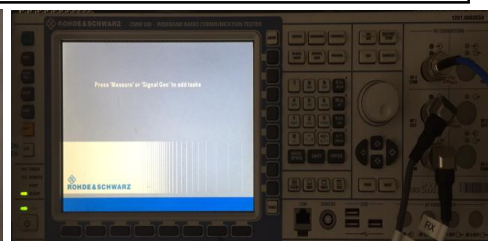
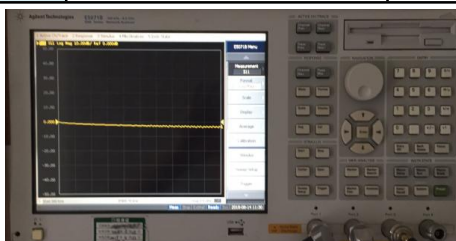
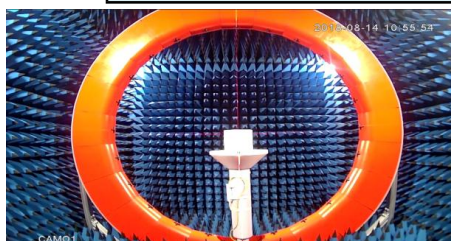
<i>Item</i>	<i>Description</i>
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2.-----	Test Items and Equipment
3.-----	S Parameter
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5.-----	Radiation Pattern
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1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	38x20,L40	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3.0 ± 0.5	dBi
Efficiency	>60%	
Connector Type	RF1	
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)



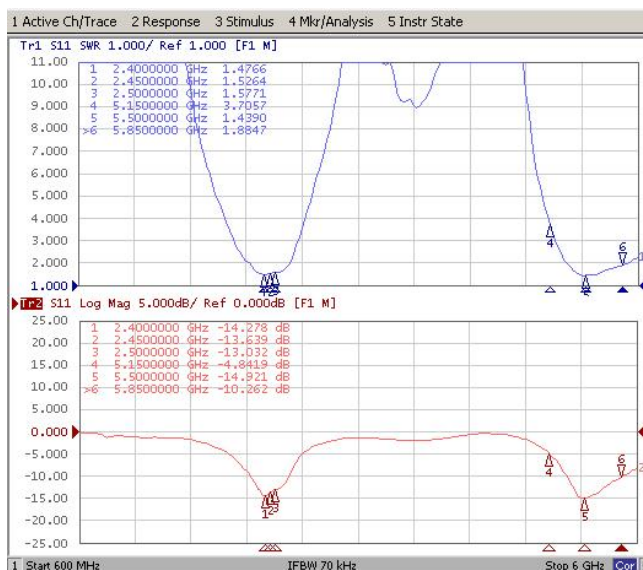
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-14.27	1.47
2450	-13.63	1.52
2500	-13.03	1.57

* Voltage Standing Wave Ratio(VSWR)

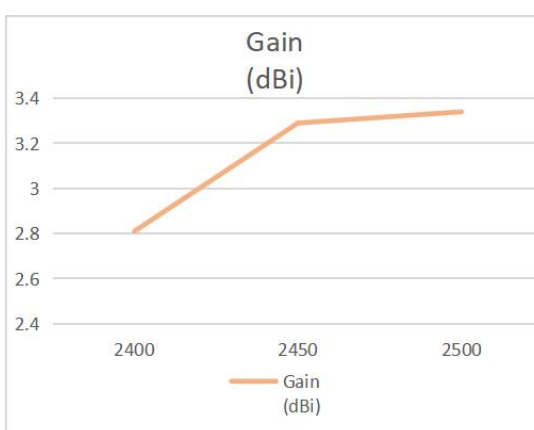
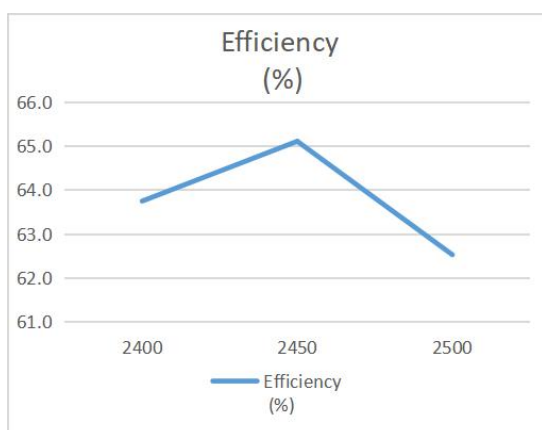
Return Loss(RL)

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

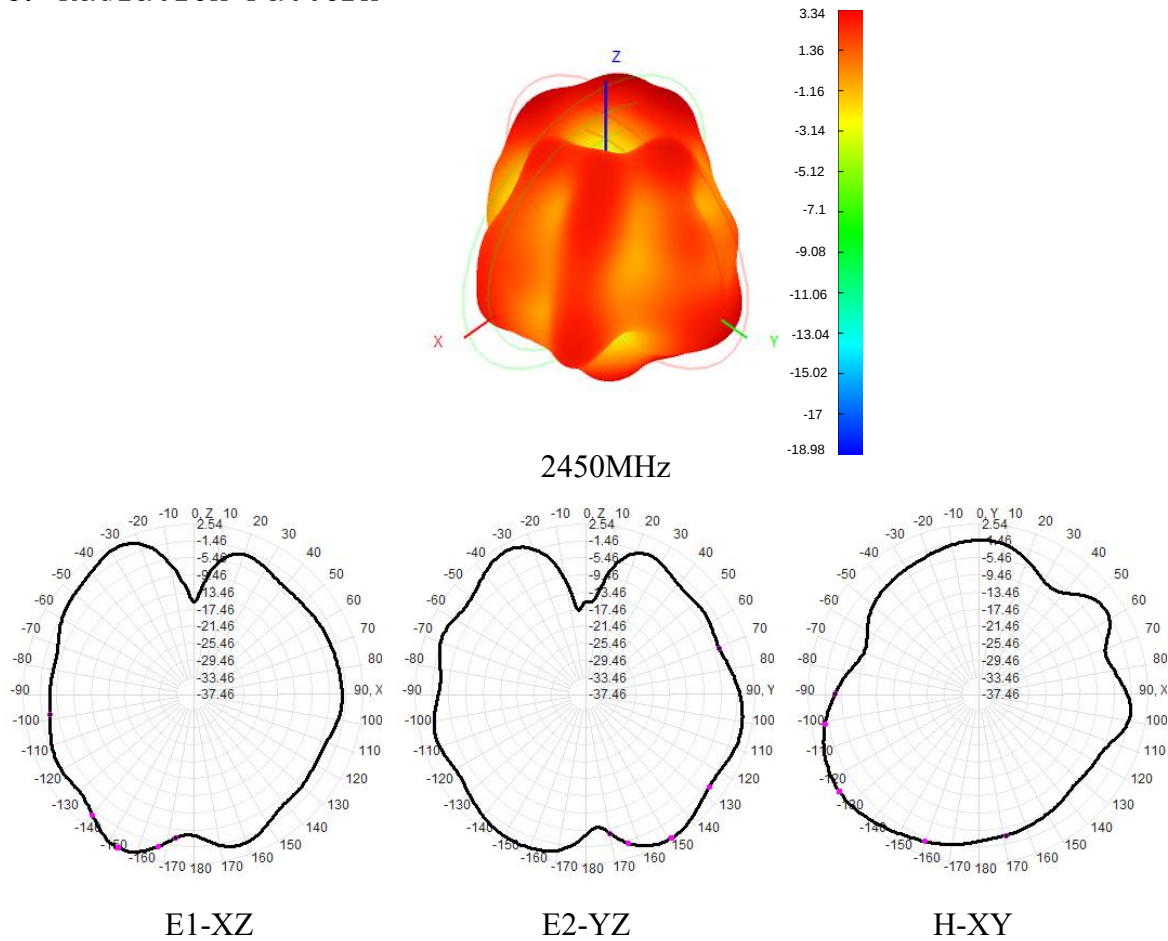


4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	63.75	65.11	62.53
Gain (dBi)	2.81	3.29	3.34



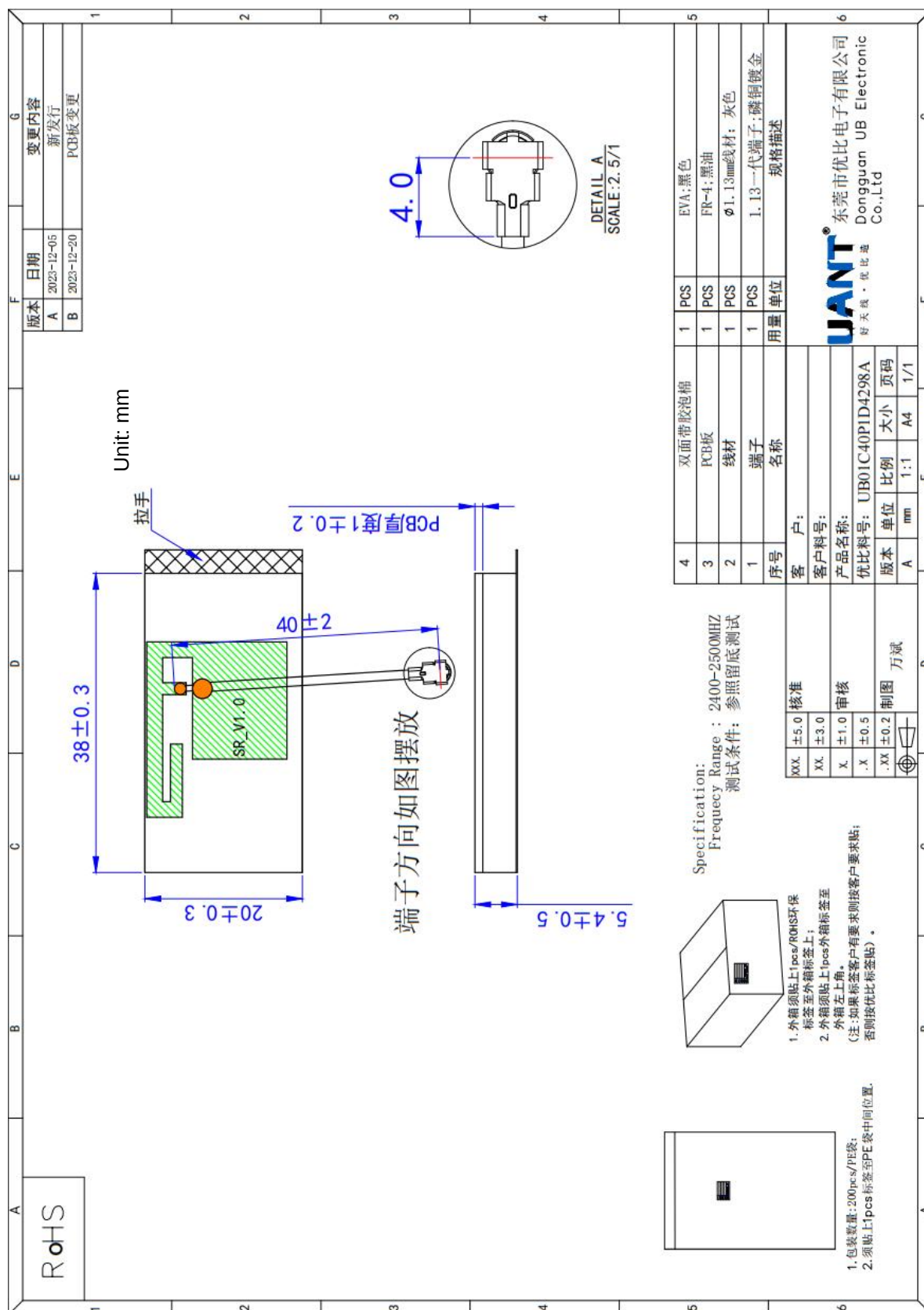
5. Radiation Pattern



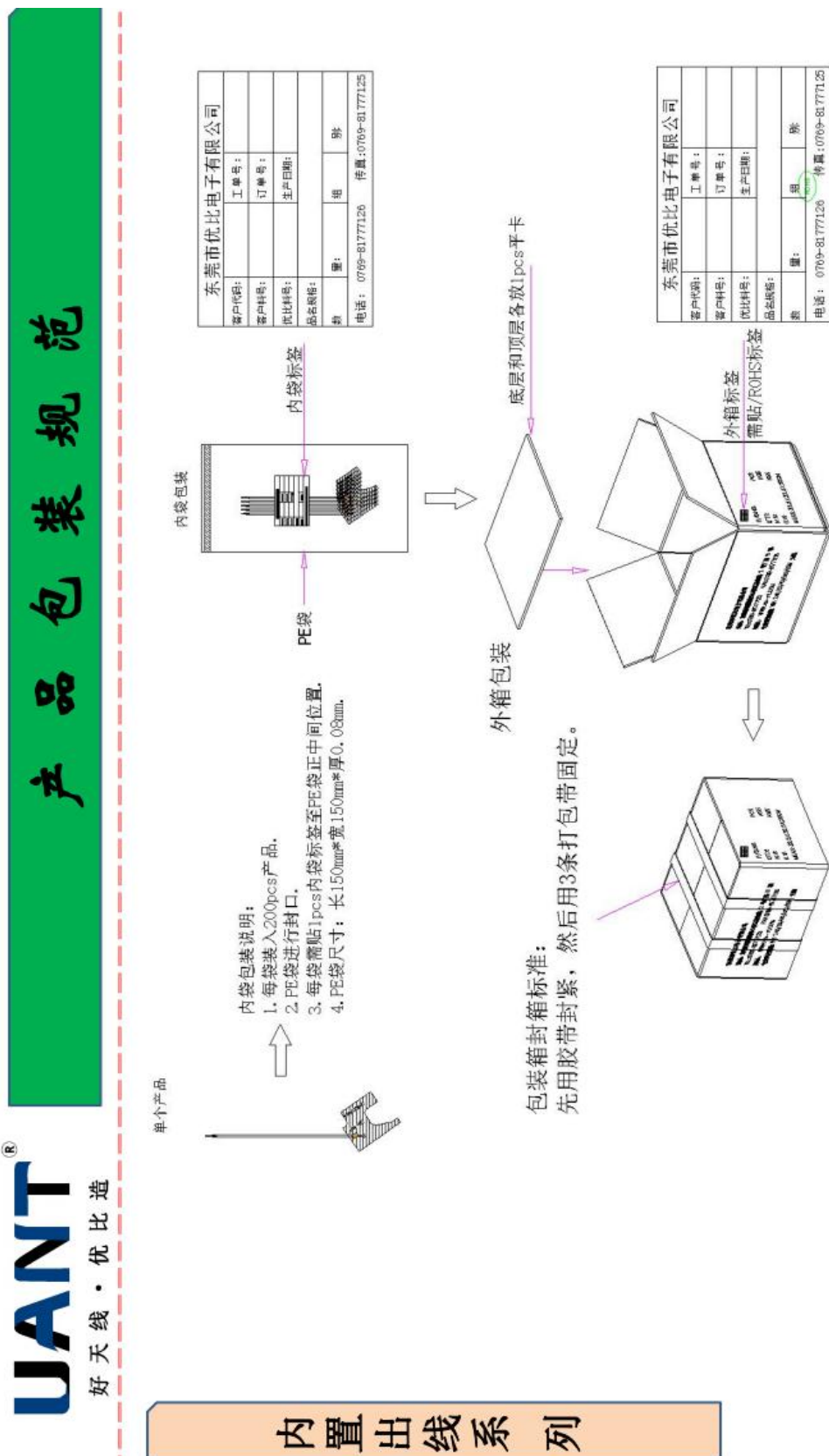
7. Antenna installation diagram



8. Mechanical Specification



9. 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。