

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G FPC 内置天线 L=28mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C28F2D4733A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing.Liu	
DATE:	2024/11/5	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-11-5

Content

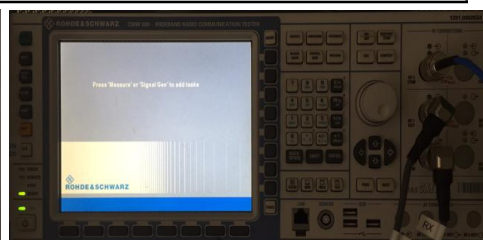
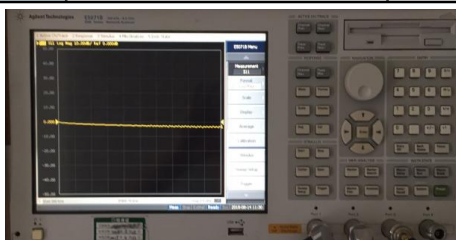
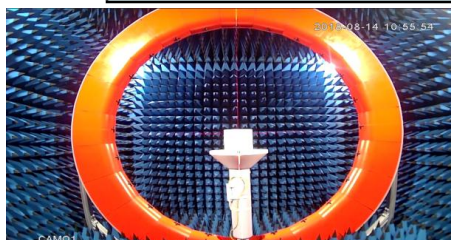
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	35.2x12.61,L28	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	< 2.0	
Polarization	Linear Polarization	
Gain	2 REF	dBi
Efficiency	>40	%
Connector Type	RF 1	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

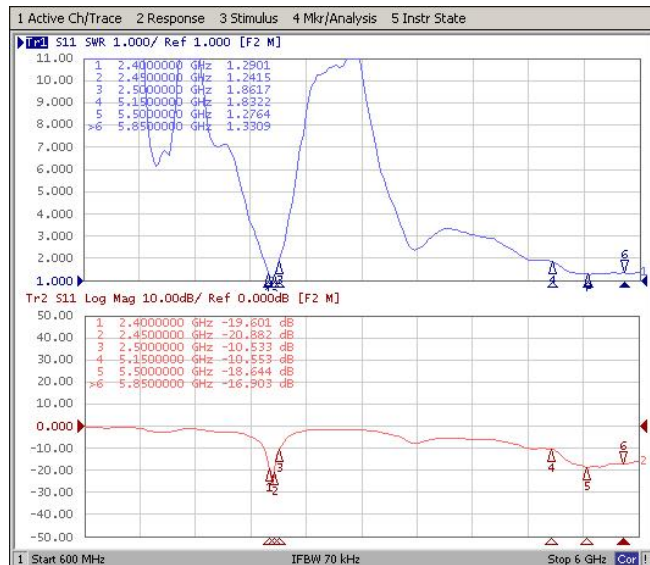
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter

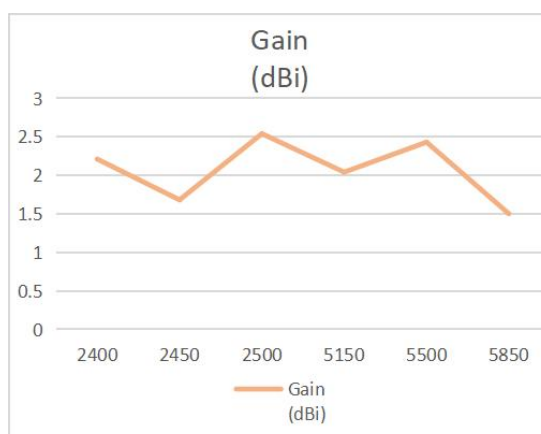
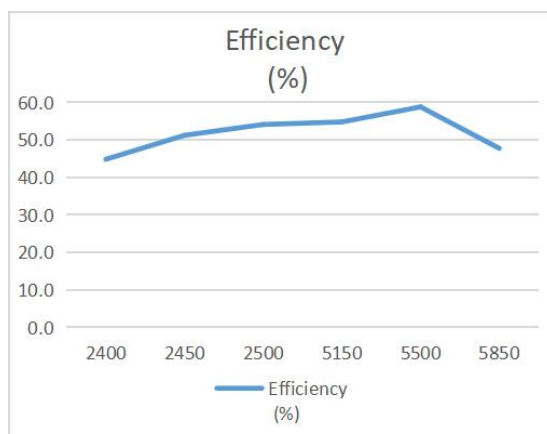
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-19.60	1.29
2450	-20.88	1.24
2500	-10.53	1.86
5150	-10.55	1.83
5500	-18.64	1.27
5850	-16.90	1.33

* 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	5150	5500	5850
Efficiency (%)	44.80	51.19	54.07	54.75	58.76	47.72
Gain (dBi)	2.21	1.68	2.54	2.04	2.43	1.50



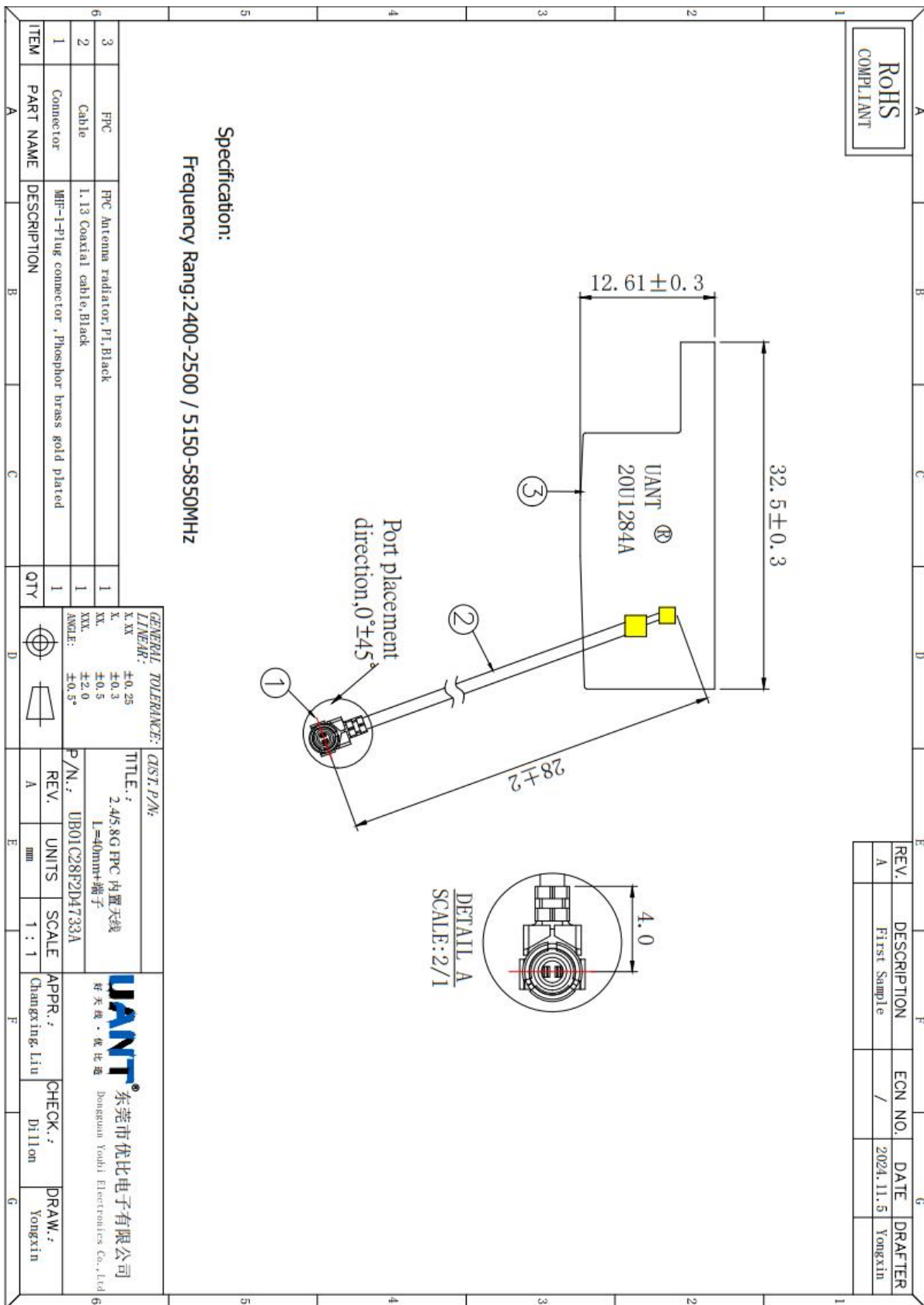
5.Active test data

Channel	Measurement	Total-B 模	Total-A 模
1	TRP	15.61	13.92
6	TRP	16.15	13.14
11	TRP	16.12	13.38
1	TIS(EIRP)	-80.46	-72.60
6	TIS(EIRP)	-81.12	-72.42
11	TIS(EIRP)	-80.46	-74.53

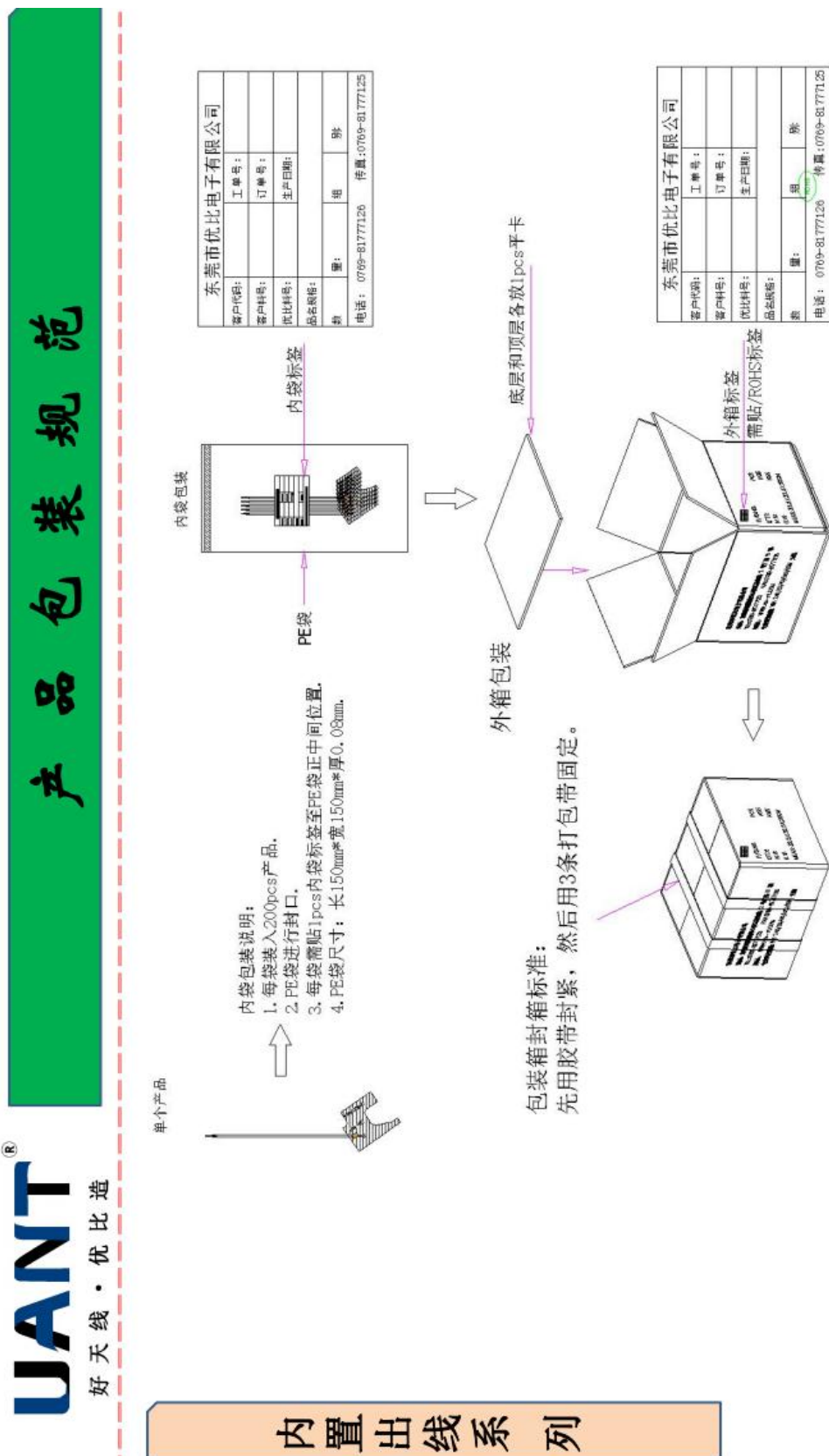
6.Antenna installation diagram



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