

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: Zhuhai Raysharp Technology Co., Ltd.

产 品 名 称

PRODUCT NAME: 2.4/5.8GHz FPC 内置天线 L=50mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C50F2D3708A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	 Changxing. Liu	
DATE:	2024/6/12	



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co.,Ltd

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-6-12

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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	35.2x8,L50	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	< 3	
Polarization	Linear Polarization	
Gain	2.4G @ 3 ± 1 5.8G @ 5 ± 1	dBi
Efficiency	>50	%
Connector Type	RF 1	
Operating temperature	-40°C~+85°C	
Storage Temp	10°C~+40°C	

2. Test Items and Equipment

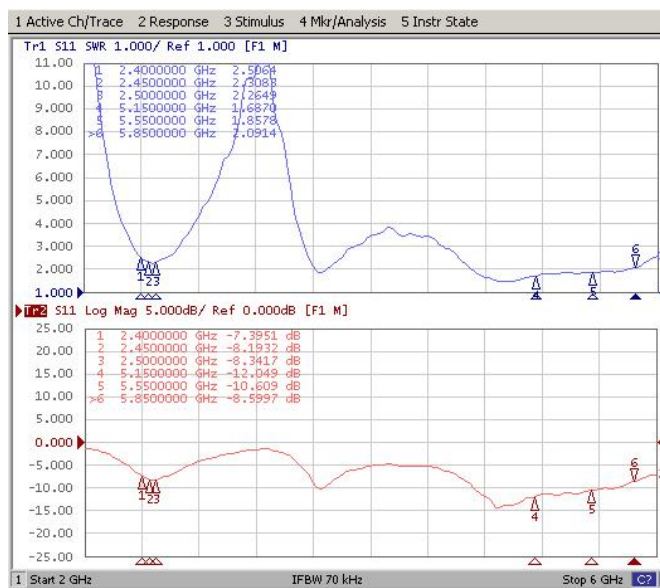
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter

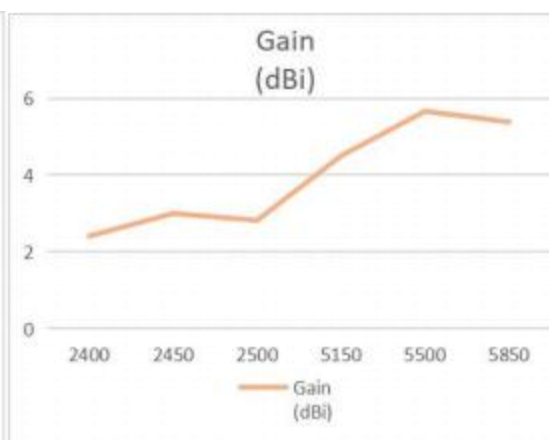
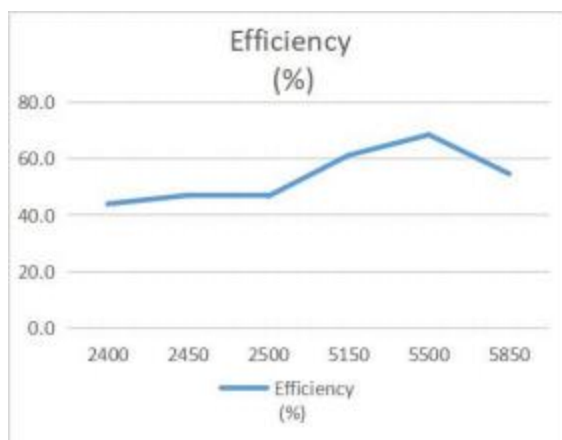
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-7.39	2.50
2450	-8.19	2.30
2500	-8.34	2.26
5150	-12.04	1.68
5550	-10.60	1.85
5850	-8.59	2.09

* 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 (%)	43.99	47.05	46.72	61.25	68.52	54.65
Gain (dBi)	2.41	3.00	2.82	4.50	5.66	5.38



5. Active test data

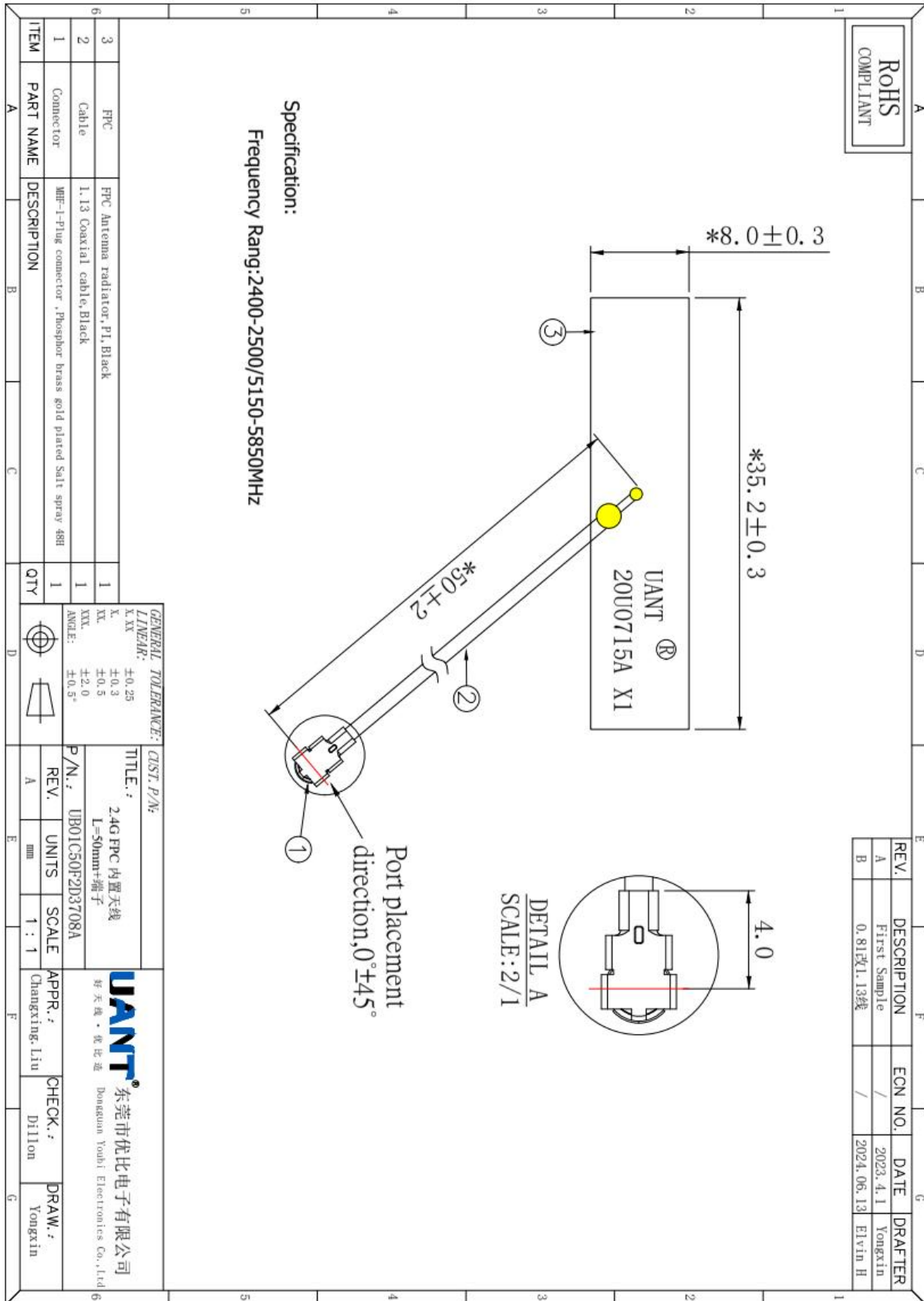
Channel	Measurement	Total-B 模	Total-G 模	Total-N 模
1	TRP	16.61	16.82	17.07
6	TRP	16.32	16.96	16.62
11	TRP	16.26	16.95	16.57
1	TIS(EIRP)	-78.94	-65.38	-59.65
6	TIS(EIRP)	-86.20	-74.29	-70.35
11	TIS(EIRP)	-86.57	-74.54	-70.08

Channel	Measurement	Total
36	TRP	13.60
149	TRP	13.88
165	TRP	14.13
36	TIS(EIRP)	-74.84
149	TIS(EIRP)	-74.71
165	TIS(EIRP)	-74.31

6. Antenna installation diagram

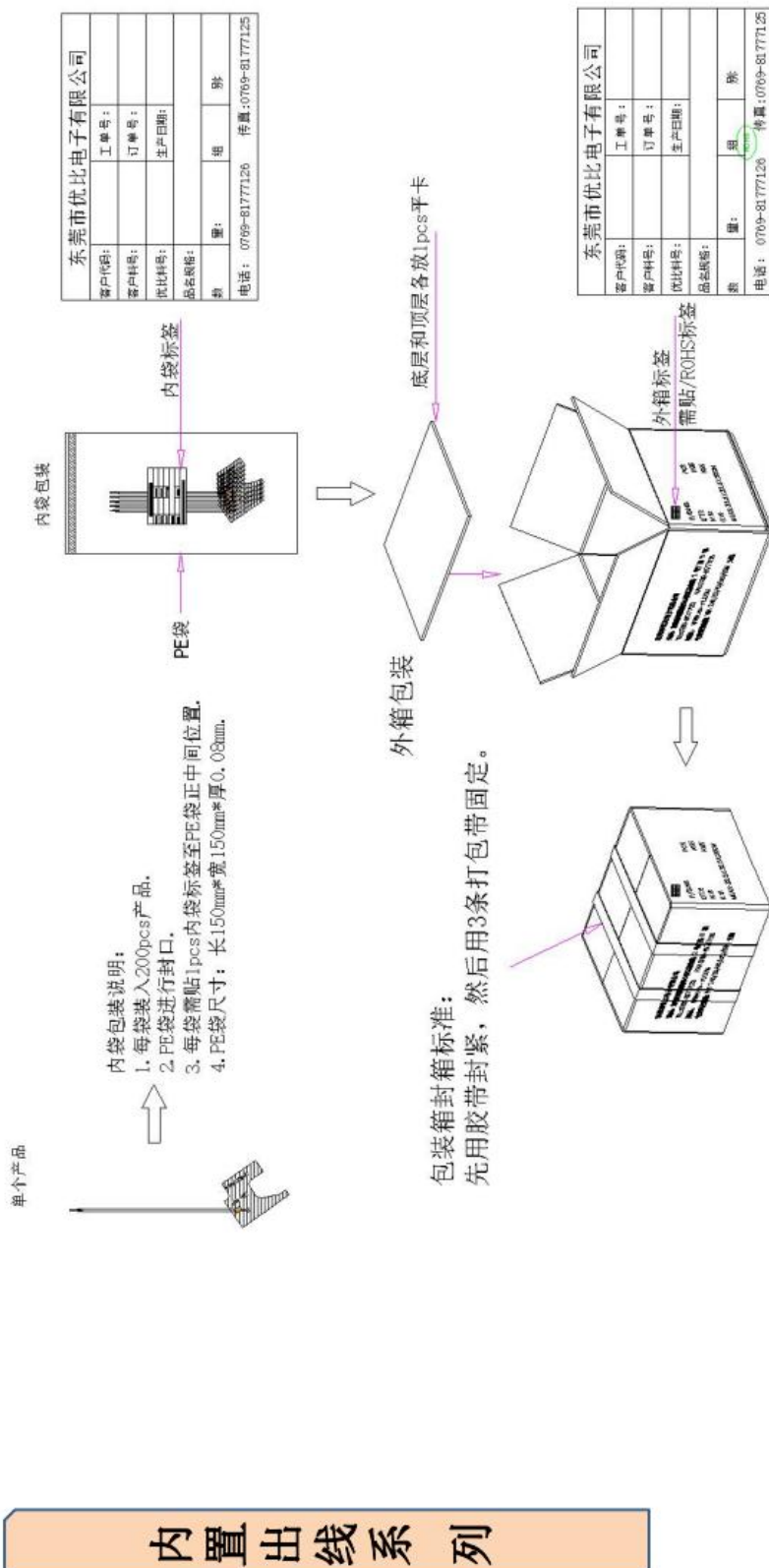


7. Mechanical Specification



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.