



公司地址：东莞市塘厦镇清湖头三坑工业区1号

东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

电话：0769-38940168 传真：0769-39010966 网址：http://rflink.net.cn

规格书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 睿联

产品名称

PRODUCT NAME: 2.4/5G 5dBI 黑色天线 SMA

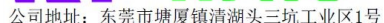
客户料号

CUSTOMER P/N: 54.07.001.0097

仁丰料号

RenFeng P/N: U00T01S010N03637 REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	赵文天	
AUDITOR BY:	黄 超	
APPROVED BY:	姚定军	
DATE:	2023-12-20	



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履历表 Resume

[illegible]

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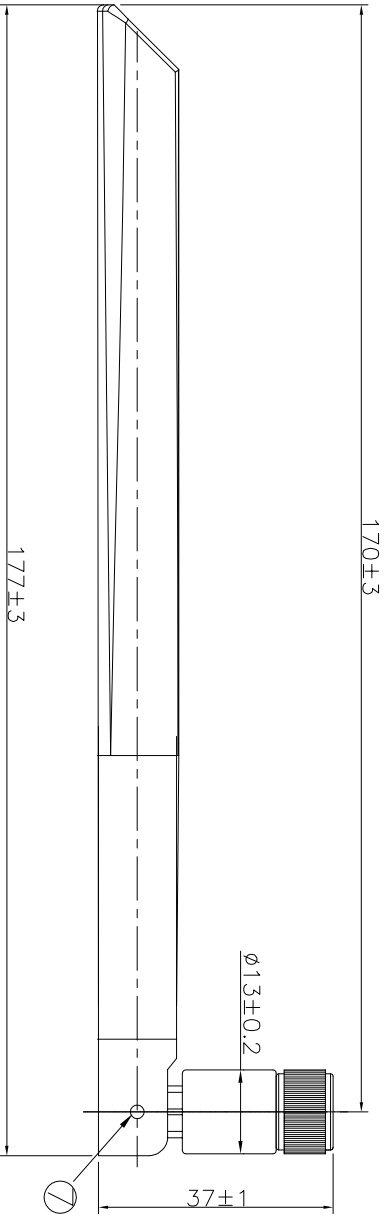
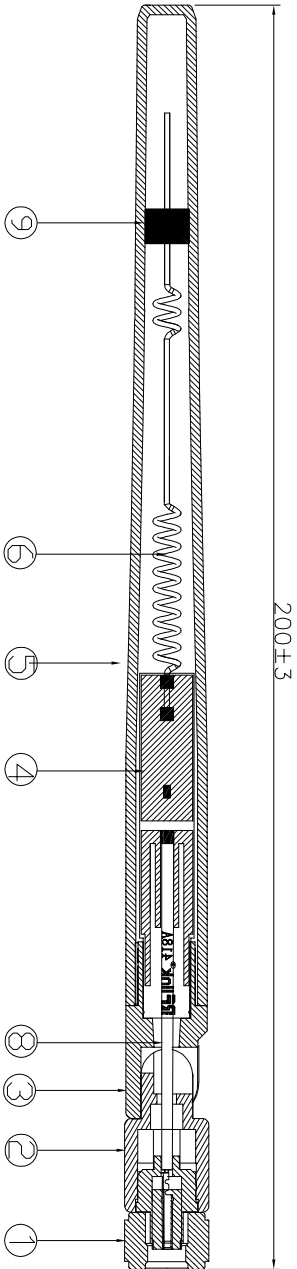
一、 变更履历

四、规格表：

产品主要技术参数

主要技术指标		Maintechnicalspecifications	
频率范围 (MHZ)	2400-2500 5150-5825	FrequencyRange (MHZ)	2400-2500 5150-5825
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	5 ± 0.5	PeakGain(dBi)	5 ± 0.5
输出电压 驻波比	≤ 2.0	VSWR	≤ 2.0
极化方式	垂直极化	Polarization	Linear,Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	SMA	ConnectorType	SMA
物理性能		PhysicalProperties	
天线材料	PP	Antennacover	PP
工作温度	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	OperatingTemp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	StorageTemp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

REV	DATE	DESCRIPTION
A	2023-06-29	NEW ISSUE



9	foam	1	EVA;Black
8	Wire rod	1	RG178 Black
7	rivet	2	POM; Black
6	spring	1	Brass
5	Pole sleeve	1	PP; Black
4	POB	1	FR-4
3	Upper fixing	1	PC+ABS; Black
2	Seater fixing seat	1	PC+PBT; Black
1	SMA	1	SMA PLUG -PIN(F); Brass Nickel age
NO.	DESCRIPTION	QTY	REMARK

			
尺寸范围 (mm)	公差 (mm)	APPROVED	
0<L≤6	±0.10	CUSTOMER:	
6<L≤30	±0.10	PART NO. :	
30<L≤90	±0.15	PARTNAME : RF Antenna Assembly	
90<L≤180	±0.20	CHECKED	
180<L≤315	±0.25	R.F P/NO : U00T01S010N03637	
315<L≤800	±0.35	DRAWING	
角度	±0.5°	REV UNIT SCALE SIZE SHEET	
		A mm 1 : 1 A4 10F1	



RenFeng Electronic technology Co., LTD.

规格Specification:

频率Frequency Range: 2.4~2.483GHz

回波损耗Return loss: -9.5dB or less

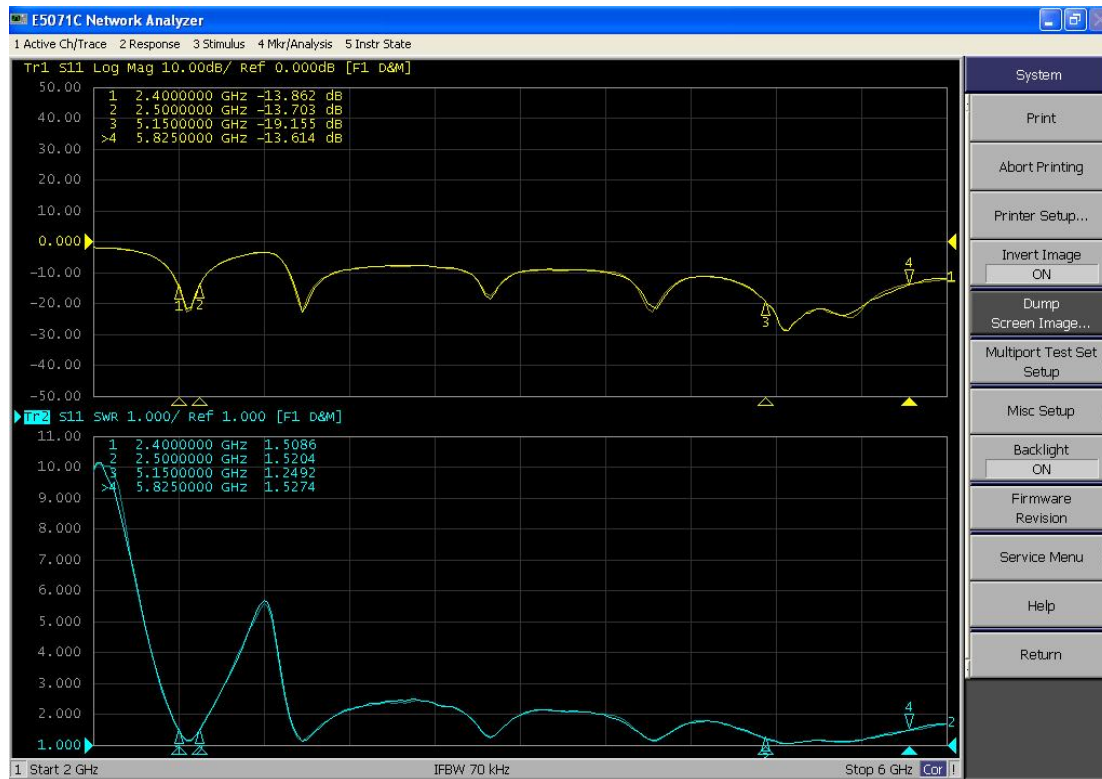
驻波比VSWR: 2.0 max

增益Gain(peak): 5dBi

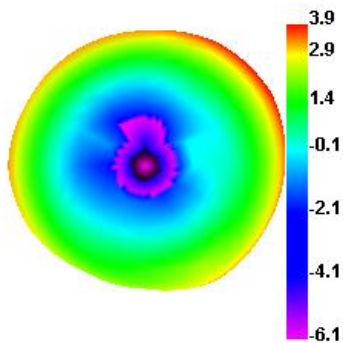


RenFeng Electronic technology
Co., LTD.

6.1 Testing report

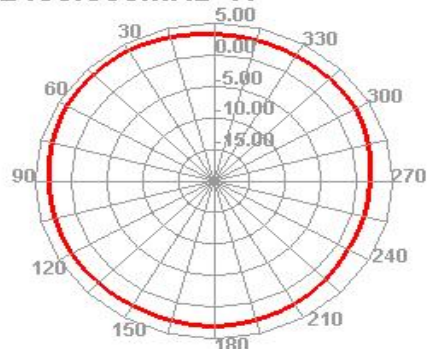


2450.000MHz

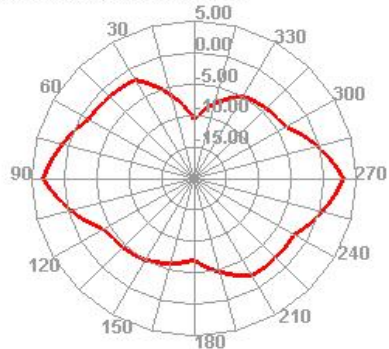


2.4G
2400MHz

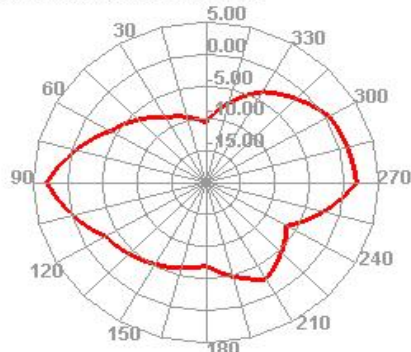
2450.000MHz H



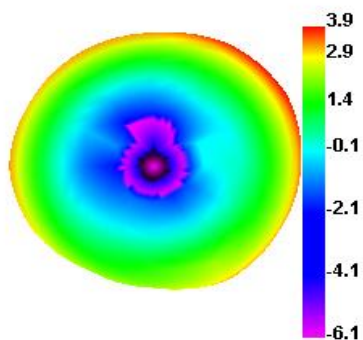
2450.000MHz E1



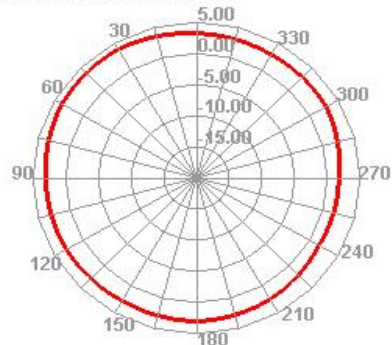
2450.000MHz E2



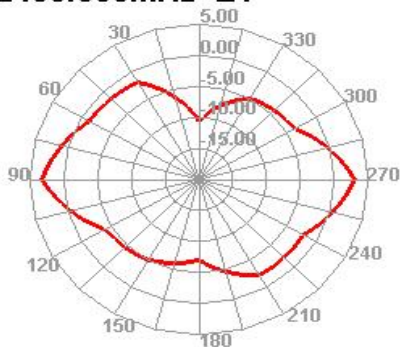
2450.000MHz



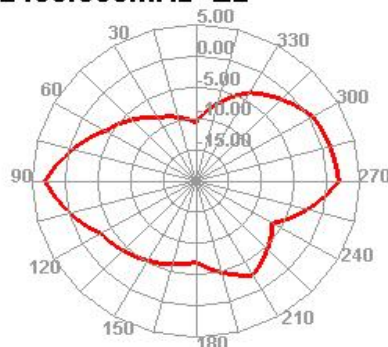
2450.000MHz H



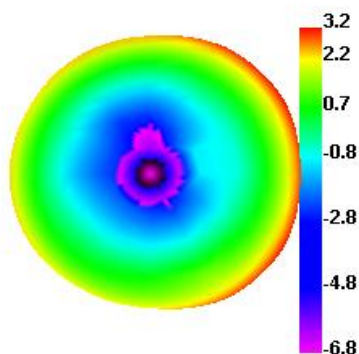
2450.000MHz E1



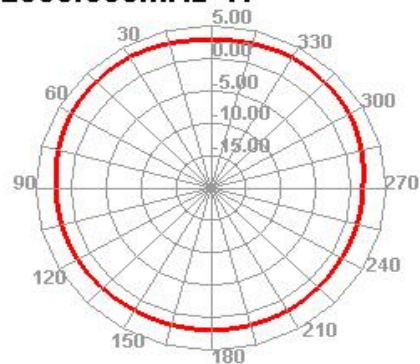
2450.000MHz E2



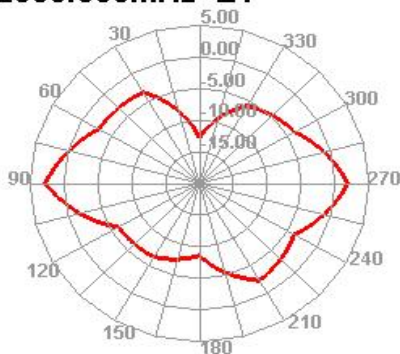
2500.000MHz



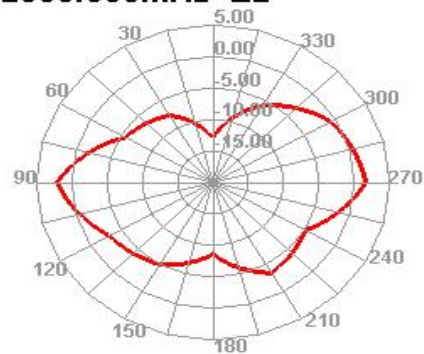
2500.000MHz H



2500.000MHz E1

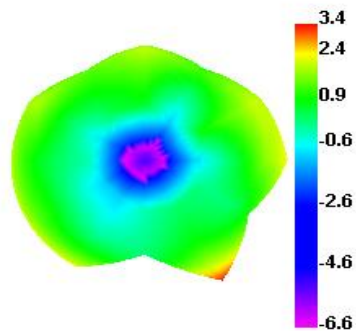


2500.000MHz E2

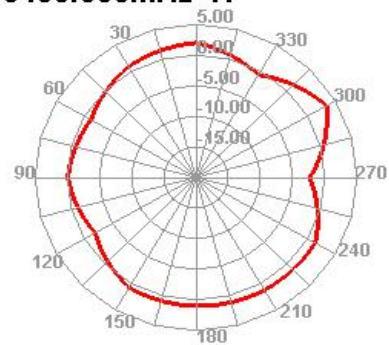


5G
5500MHz

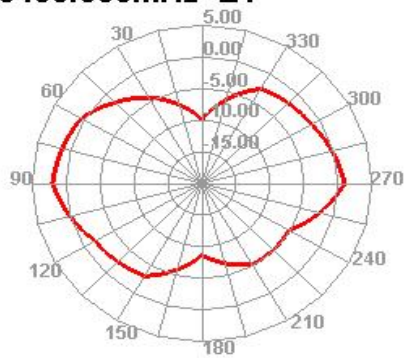
5400.000MHz



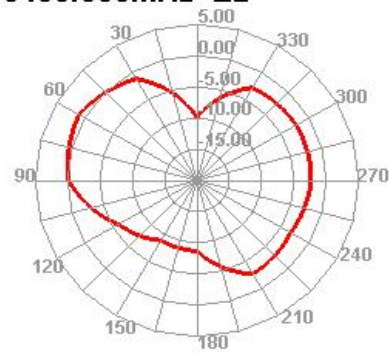
5400.000MHz H



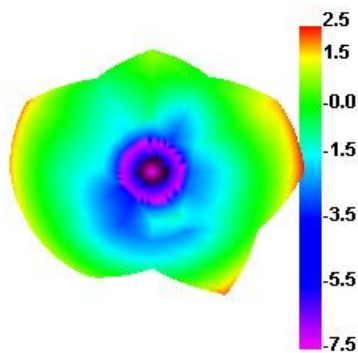
5400.000MHz E1



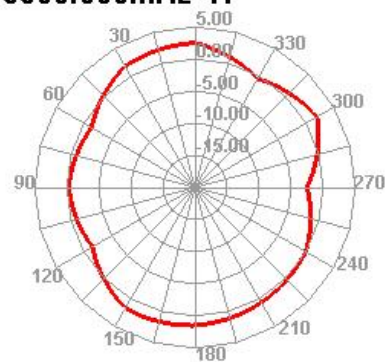
5400.000MHz E2



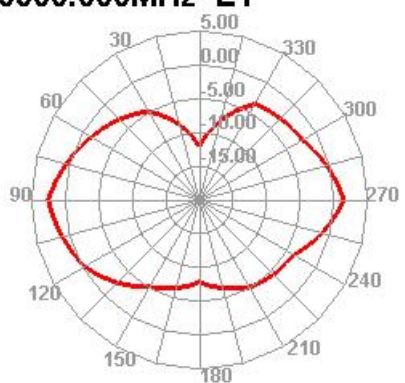
5500.000MHz



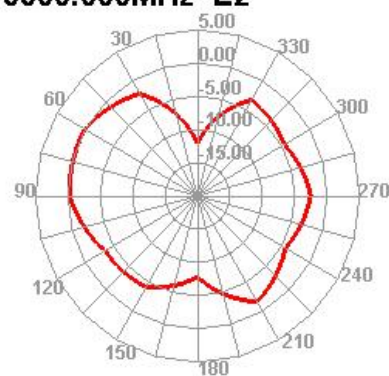
5500.000MHz H



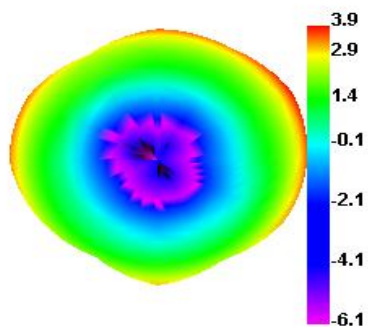
5500.000MHz E1



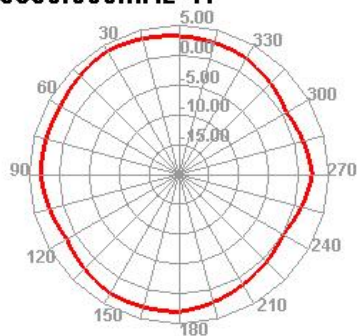
5500.000MHz E2



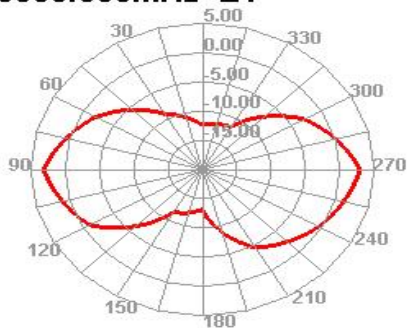
5850.000MHz



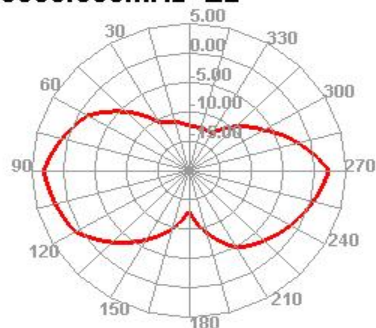
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



Frequency (MHz)	ANT	
	Efficiency (%)	Peak Gain (dBi)
2400	77.21	3.43
2450	79.21	3.95
2500	82.33	3.24
5150	82.65	3.46
5500	83.15	4.27
5850	77.52	3.93

扭力测试报告 (Torsion test report of SMA head and rod sleeve)

厂商/客户 (Manufacturer / customer) : 睿联 生产日期 (Date of manufacture) : 2023/12/20

设备编号 (NO.): RF-YQ-086 测试日期 (Test date): 2023/12/20

品名 (Part Name) : 外置天线 规格 (Specifications) : /

料号 (Part No.) : U00T01S010N03637 扭力标准 (Lock attached to the force) 500-1000gf

测试期间 (Testing Period) : 2023-12-20/19 : 20-19 : 30

测试项目 (Test Description) :

- 1.外观检查 (Check the appearance of the product)
- 2.扭力测试 (The torsion test)
- 3.外观检查 (Check the appearance of the product)

测试方法 (Test Method) :

- 1.外观检查 (Check the appearance of the product)
No deformation, oxidation, looseness, etc
目视无变形，氧化，松动等不良
- 2.扭力测试 (The torsion test)
Adjust the torsion meter to make it return to the zero state and load and clip the test sample;Conduct torque test of products;At the end of the test, record the test
调整扭力计，使扭力计归零状态，装夹好测试样品；进行产品的扭力试验；测试结束时，记录测试结果。
- 3.外观检查 (Check the appearance of the product)
No deformation, oxidation, looseness, etc
目视无变形，氧化，松动等不良

测试结果 (Test Results) :

1.外观检查 (Check the appearance of the product)	■	PASS	☐	FAIL
2.扭力测试 The torsion test)	■	PASS	☐	FAIL
3.外观检查 (Check the appearance of the product)	■	PASS	☐	FAIL

测试项目 (Test Description) :

1..产品外观检查(Check the appearance of the product) 数量 (Quantity) : 5 PCS
Standard : See Test Method

Test Result					
NO.	sample-1	sample-2	sample-3	sample-4	sample-5
Result	PASS	PASS	PASS	PASS	PASS
Conclusion : ■ PASS ☐ FAIL					

2扭力测试 (The torsion test) 数量 (Quantity) : 5 PCS
Standard : See Test Method

Test Result					
NO.	sample-1	sample-2	sample-3	sample-4	sample-5
Result	700gf	700gf	500gf	900gf	800gf
Conclusion : ■ PASS ☐ FAIL					

3.检验产品外观 (Check the appearance of the product) 数量 (Quantity) : 5 PCS
Standard : See Test Method

Test Result					
NO.	sample-1	sample-2	sample-3	sample-4	sample-5
Result	PASS	PASS	PASS	PASS	PASS
Conclusion : ■ PASS ☐ FAIL					

测试照片 (Test Photos)

:



Step 1. 产品外观检查 (Product appearance inspection)



Step 2. 测试图片 (Test picture)



Step 3. 产品外观检查 (Product appearance inspection)

备注：测试后扭力值达到测试要求，判合格。

~ ~ The End Of Test Report ~ ~

Approved: 汤伶俐

Checked: 鄢康凤

Tester: 李姝婧