

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Guoguang Electric Company Limited

PRODUCT NAME: 2.4/5G WIFI-2 Built-in antenna L=268mm

CUSTOMER P/N: EAN00304

Ren Feng P/N: U00T02S000N02637 REV: B

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2023-03-08	

Contents

<i>Item</i>	<i>Description</i>
一、 -----	Change of resume
二、 -----	Specification sheet
三、 -----	Finished drawing
四、 -----	Antenna position diagram
五、 -----	Test report
六、 -----	Raw material list

一、Change your resume

[illegible]

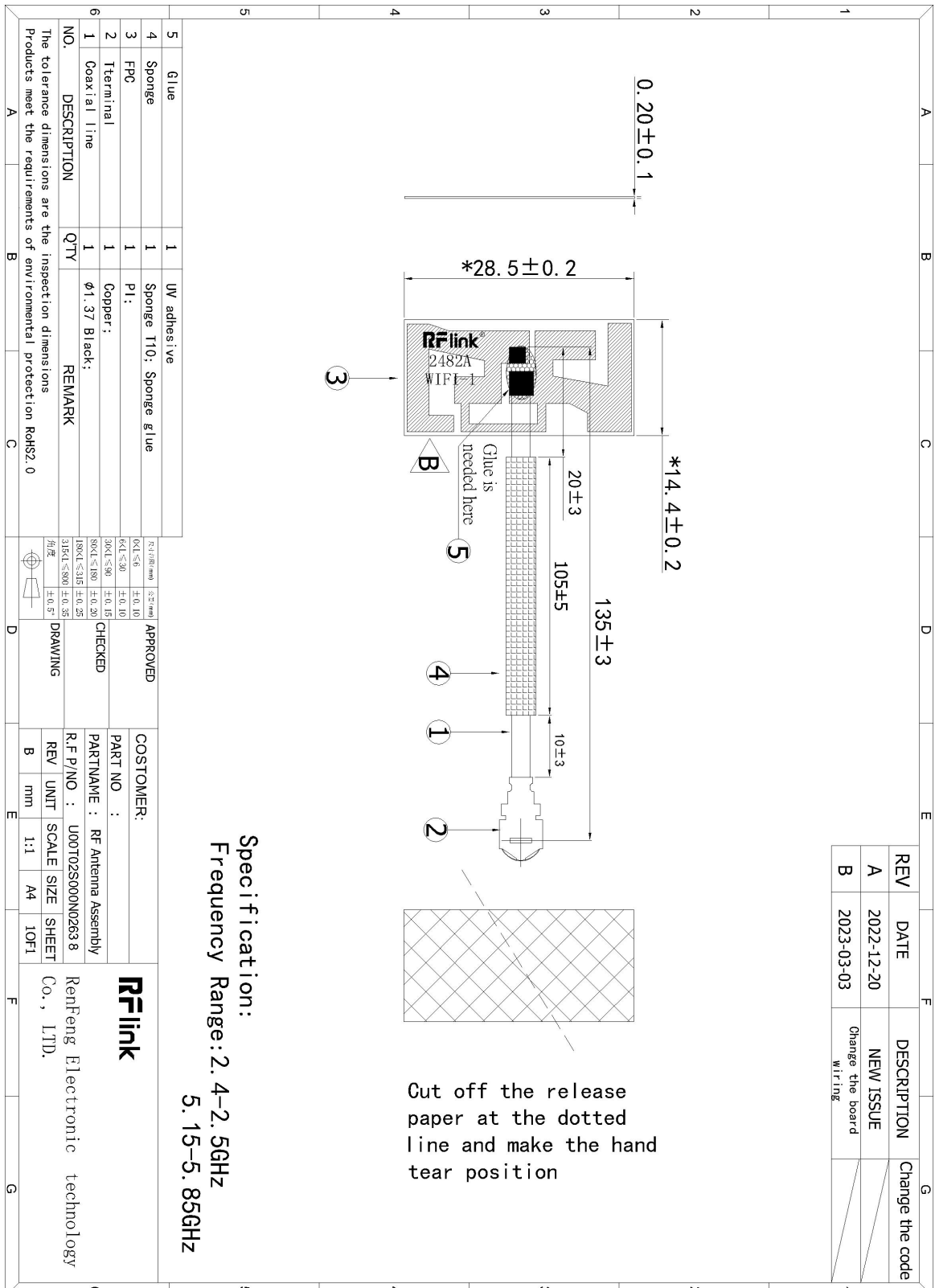
二、 Specification sheet:

Product main technical parameters

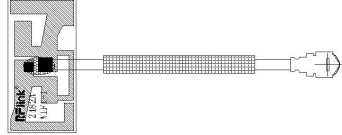
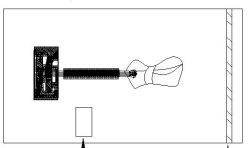
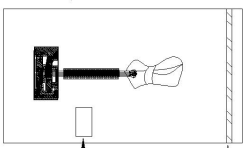
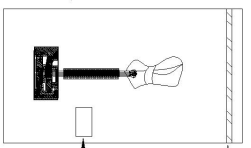
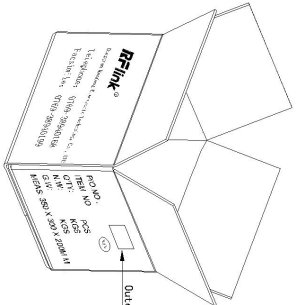
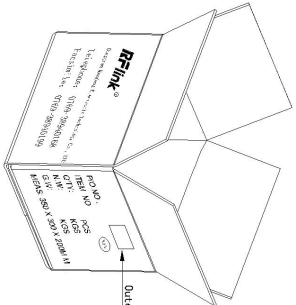
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	$2.4G \leq 5.34$ $5G \leq 5.73$	Peak Gain(dBi)	$2.4G \leq 5.34$ $5G \leq 5.73$
VSWR	≤ 2.0	VSWR	≤ 2.0
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	I-PEX	Connector Type	I-PEX
Physical Properties		Physical Properties	
Antenna cover	FPC	Antenna cover	FPC
Operating Temp	-20℃~+70℃	Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+70℃	Storage Temp	-20℃~+70℃

三、Finished product drawing & packing drawing:

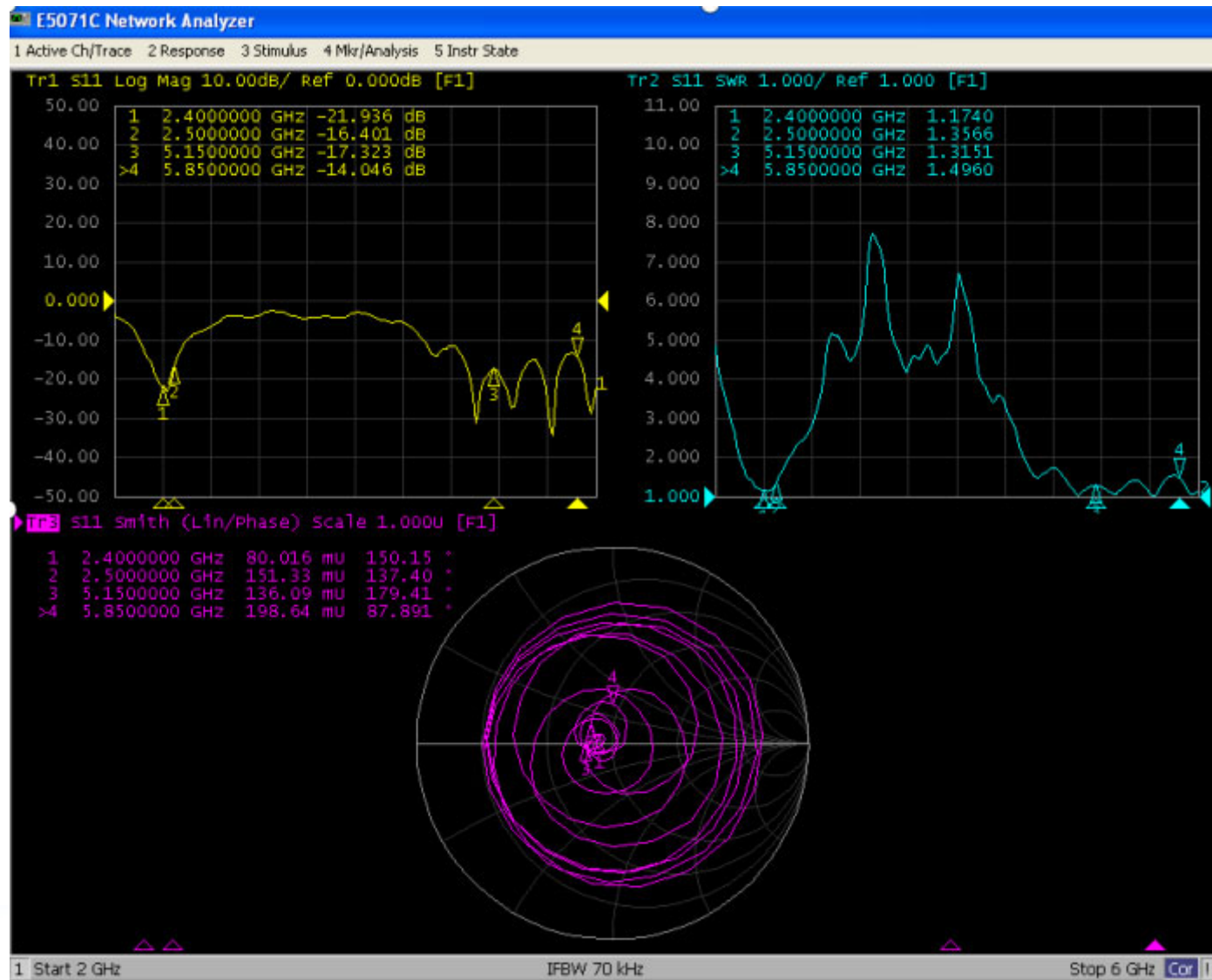
2. 1、Antenna size diagram



2.2、Packing specification

Product packaging		Individual product		Inner bag packing		PE bag		Inner pocket tag		Outer box	
											
Packing instructions of inner bag: 1. Each bag contains 100pcs of products. 2. Use a pearl-cotton bag or rubber band to fix the wire 3. Each bag should be labeled accordingly		Packing instructions for the outer box 1. RoHS label and 1pc label should be affixed to the outer box. 2. Each box contains 40 bags /4000pcs of products.		seal		PE bag		Inner pocket tag		Outer box label	
Products meet the requirements of environmental protection RoHS2.0		APPROVED		CUSTOMER:		PART NO. :		RF link		RenFeng Electronic technology Co.,LTD.	
CHECKED		PARTNAME :		REV / UNIT		SCALE SIZE		SHEET		10F1	
DRAWING		REV / UNIT		SCALE SIZE		SHEET		SHEET		10F1	
尺寸范围 (mm)		公差 (mm)		尺寸范围 (mm)		公差 (mm)		尺寸范围 (mm)		公差 (mm)	
61.2-50		1.5-10		61.2-50		1.5-10		61.2-50		1.5-10	
201.2-50		1.5-10		201.2-50		1.5-10		201.2-50		1.5-10	
180.1-105		1.5-10		180.1-105		1.5-10		180.1-105		1.5-10	
220.1-100		1.5-10		220.1-100		1.5-10		220.1-100		1.5-10	
1.5-10		1.5-10		1.5-10		1.5-10		1.5-10		1.5-10	

Measurement data--Return Loss -WIFI 2-2.4G&5G

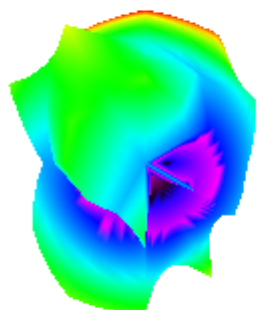


RF link

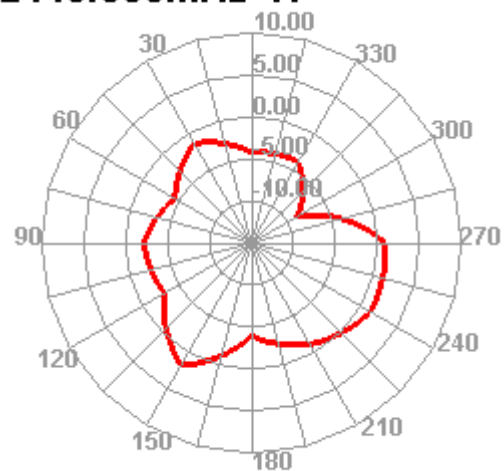
WIFI-2 2.4G 3D Pattern

2440

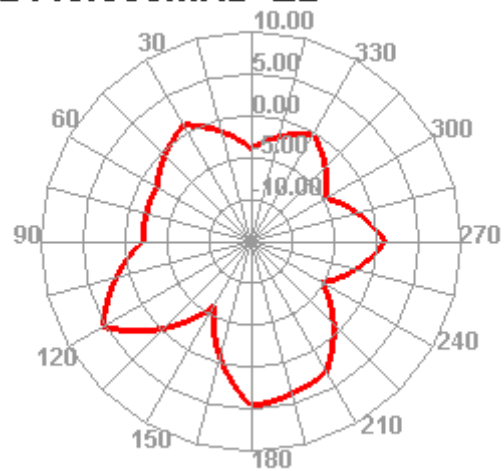
2440.000MHz



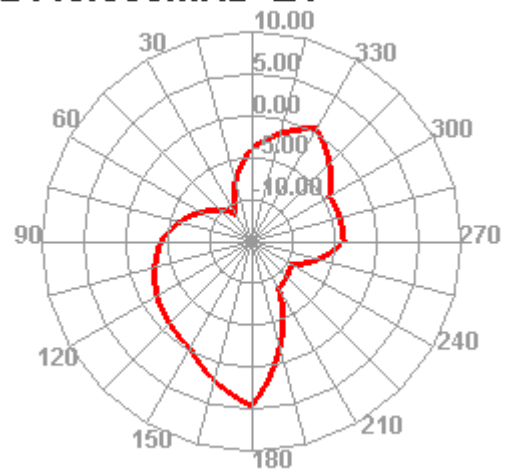
2440.000MHz H



2440.000MHz E2



2440.000MHz E1

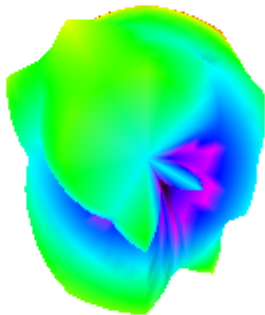


RF link

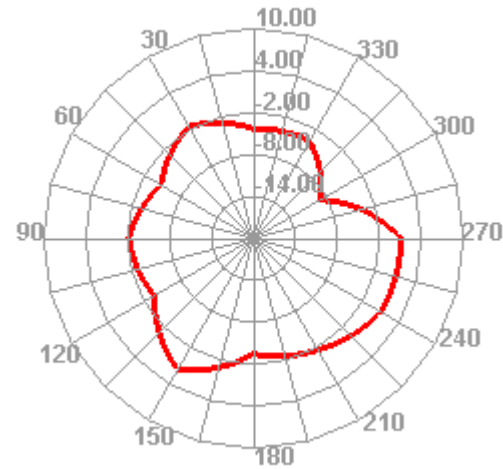
WIFI-2 2.4G 3D Pattern

2450

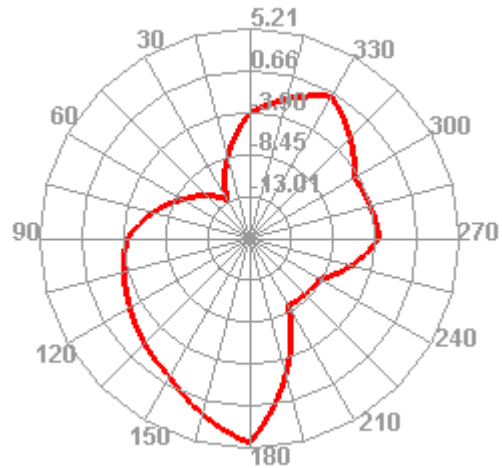
2450.000MHz



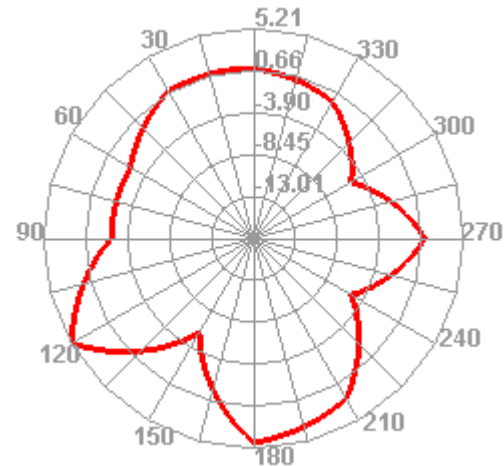
2450.000MHz H



2450.000MHz E1



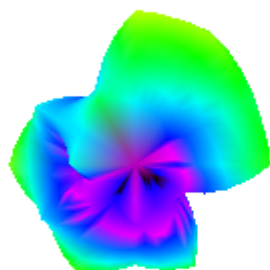
2450.000MHz E2



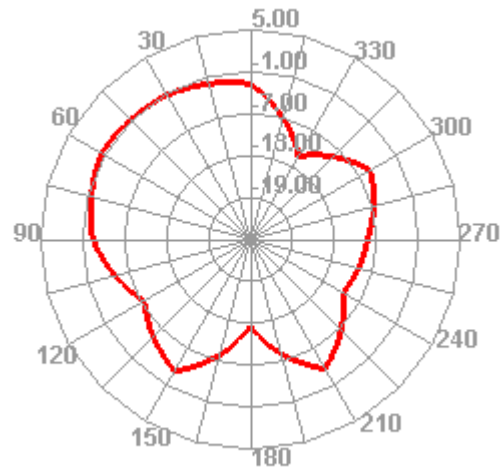
RF link

WIFI-2 5G 3D Pattern
5150

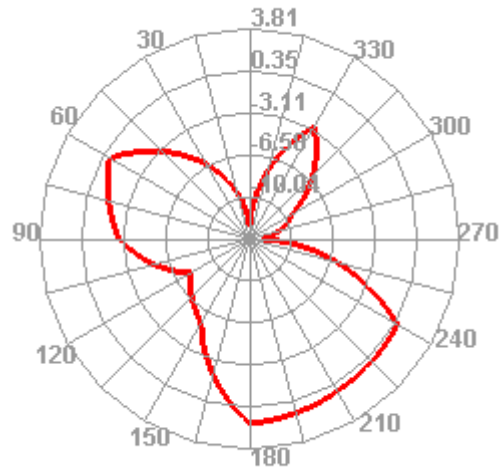
5150.000MHz



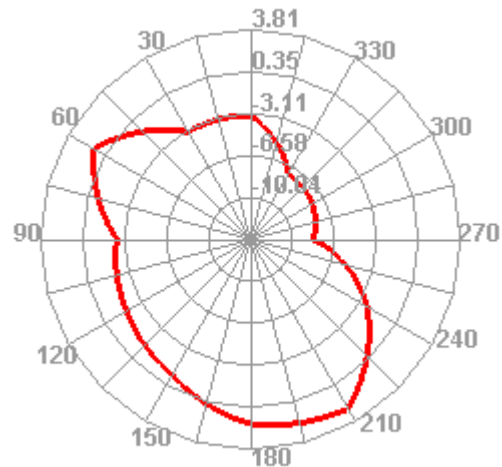
5150.000MHz H



5150.000MHz E1



5150.000MHz E2

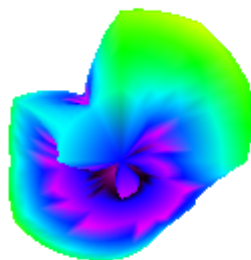


RF link

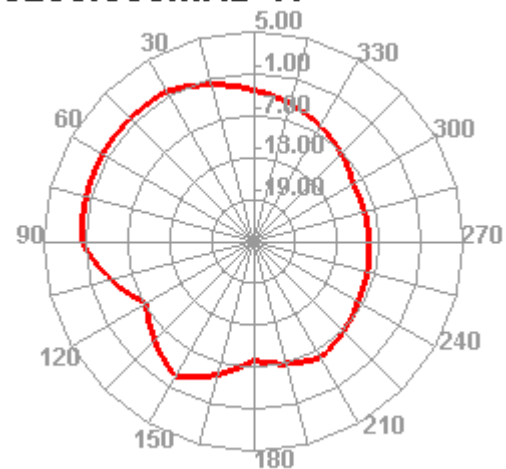
WIFI-2 5G 3D Pattern

5250

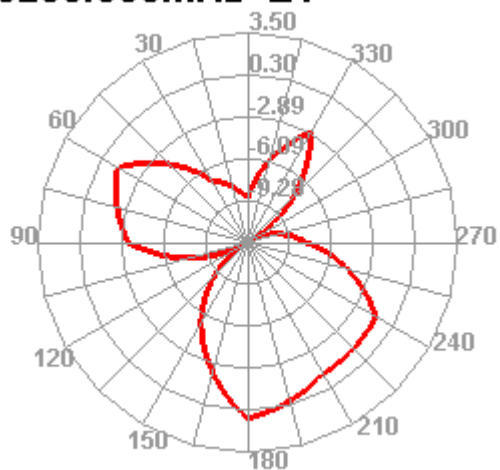
5250.000MHz



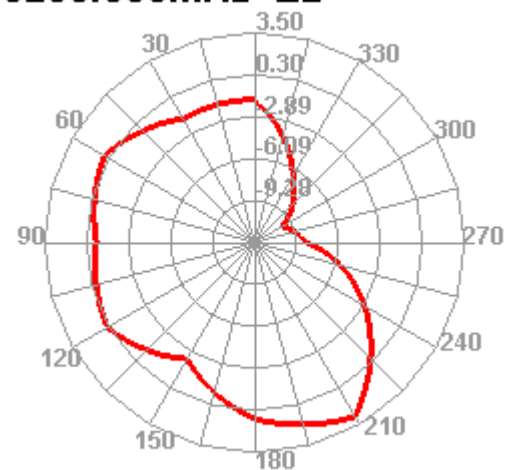
5250.000MHz H



5250.000MHz E1



5250.000MHz E2

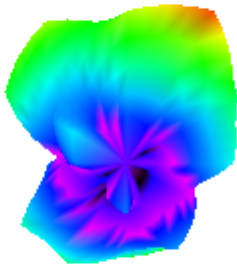


RF link

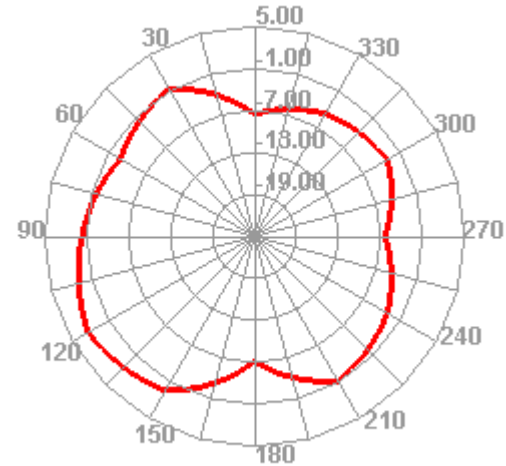
WIFI-2 5G 3D Pattern

5700

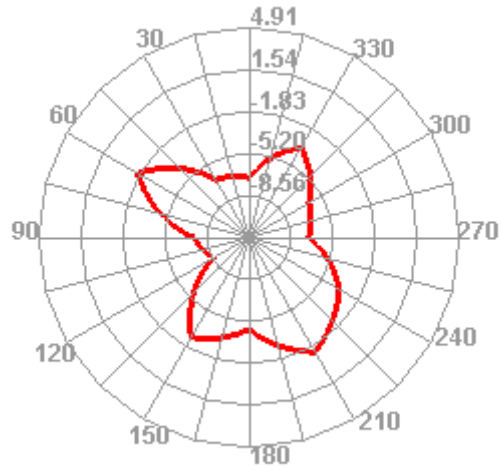
5700.000MHz



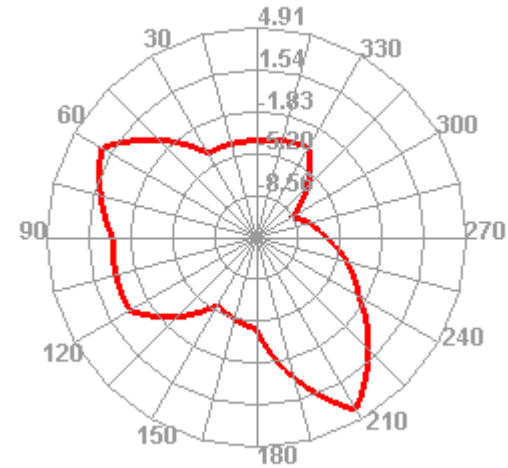
5700.000MHz H



5700.000MHz E1



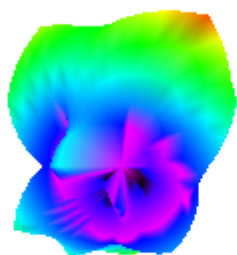
5700.000MHz E2



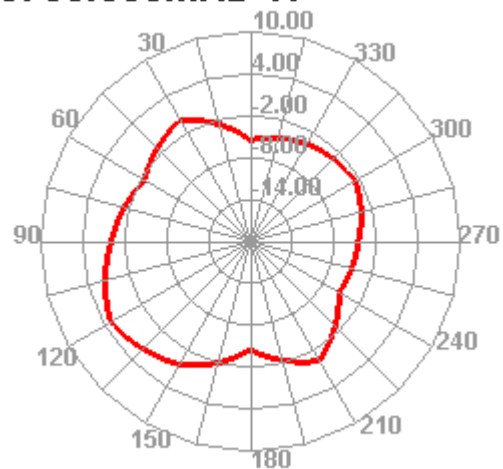
RFlink

WIFI-2 5G 3D Pattern
5750

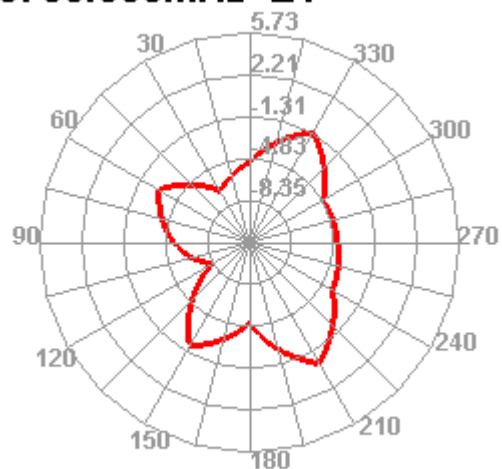
5750.000MHz



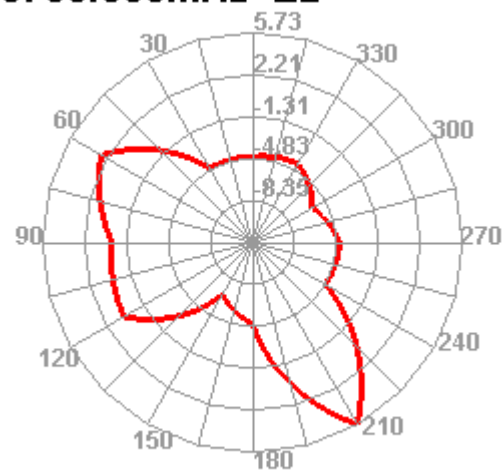
5750.000MHz H



5750.000MHz E1



5750.000MHz E2



RF link

WIFI 2-2.4G &5G

Freq (MHz)	Effi (%)	Gain (dBi)
2400	72.38	4.54
2410	77.39	4.77
2420	79.95	4.92
2430	82.68	5.18
2440	83.05	5.34
2450	79.18	5.21
2460	76.43	5.09
2470	76.22	5.08
2480	72.8	4.84
2490	71.09	4.73
2500	67.44	4.53

Freq (MHz)	Effi (%)	Gain (dBi)
5150	51.3	3.81
5200	52.5	3.42
5250	51.98	3.5
5300	49.37	2.8
5350	51.6	2.84
5400	51.3	2.74
5450	58.1	3.11
5500	54.22	3.21
5550	62.57	4.2
5600	61.99	4.3
5650	62.32	4.76
5700	61.35	4.91
5750	67.2	5.73
5800	68.22	5.72
5850	60.68	4.53

六、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	FPC	PI	1	pc	Junyi	/
2	1.37 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/