

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	

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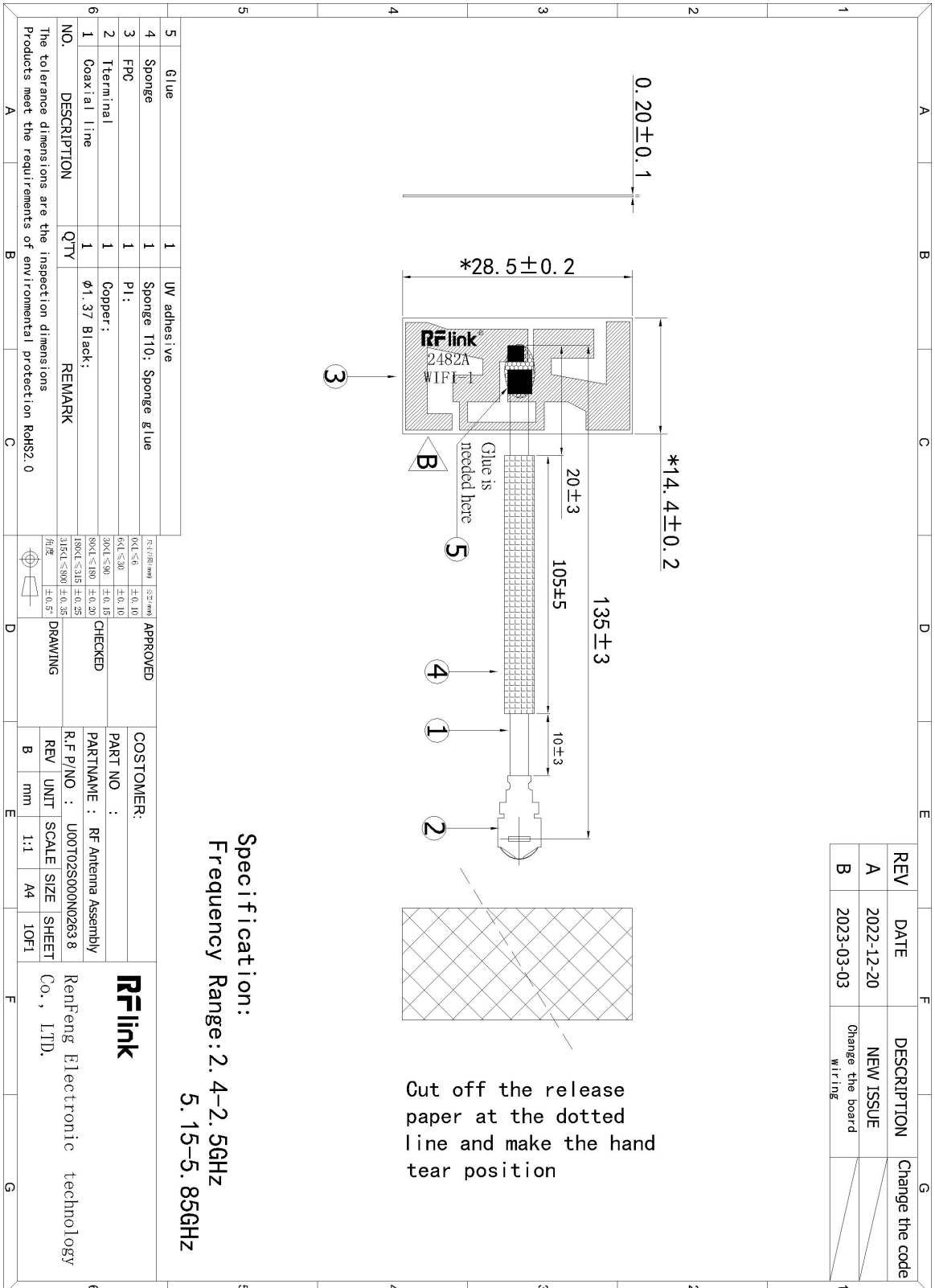
二、 Specification sheet:

Product main technical parameters

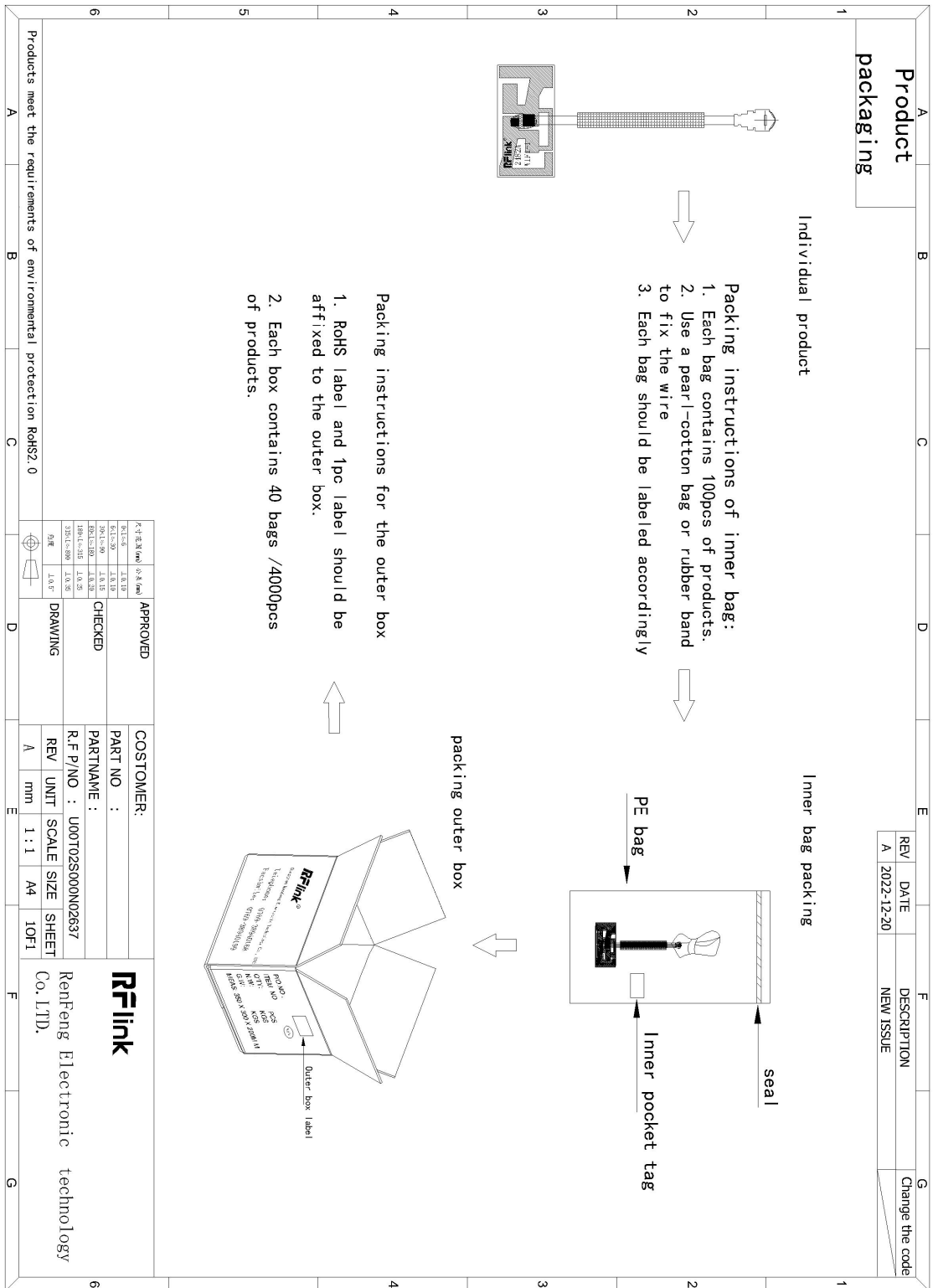
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	2.4G \leq 5.34 5G \leq 5.73	Peak Gain(dBi)	2.4G \leq 5.34 5G \leq 5.73
VSWR	\leq 2.0	VSWR	\leq 2.0
Radiation	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 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

三、 Finished product drawing & packing drawing:

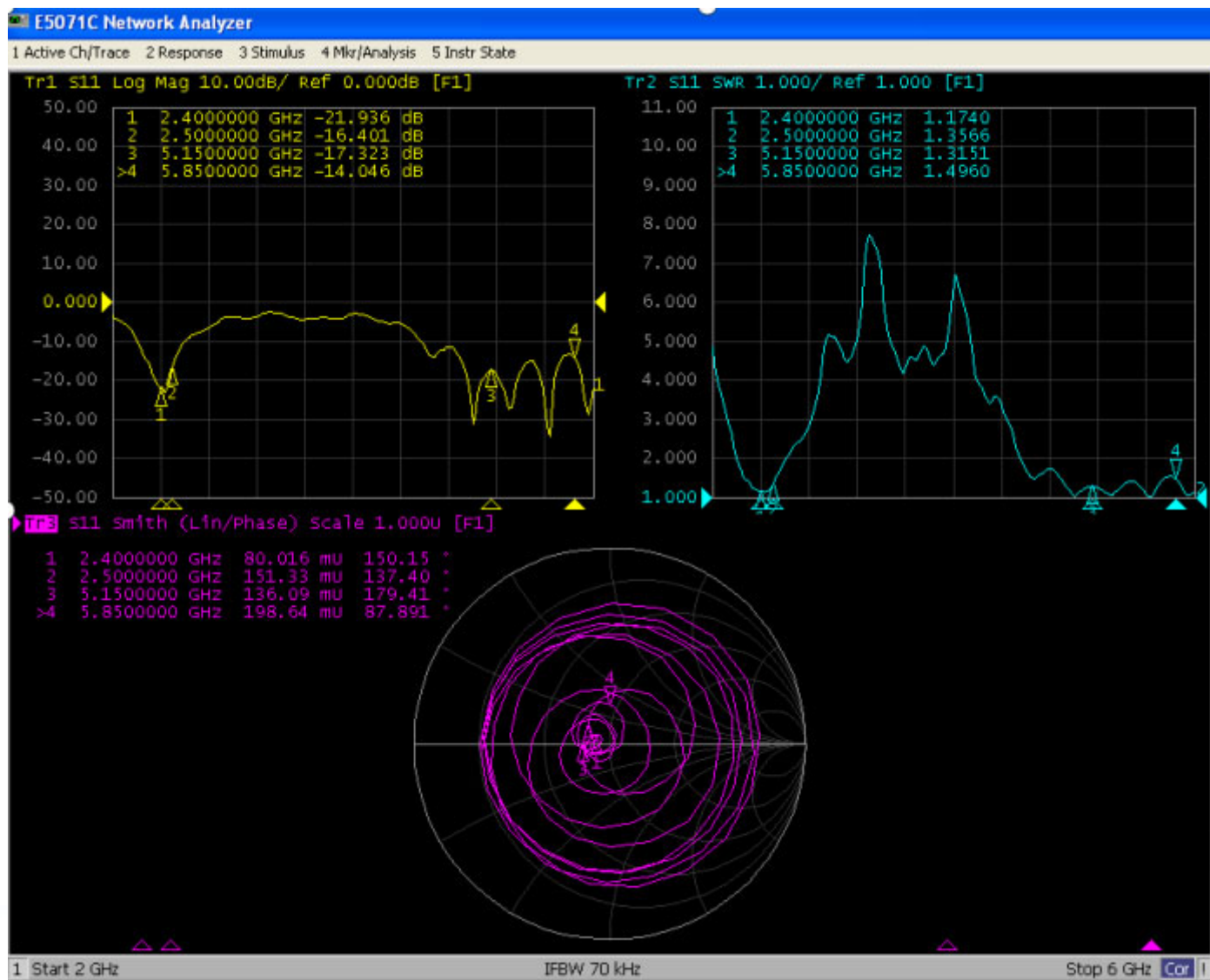
2.1、 Antenna size diagram



2.2、Packing specification



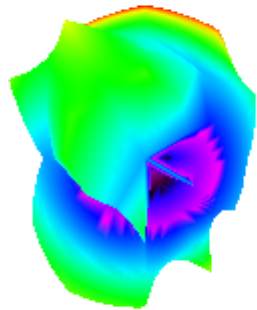
Measurement data--Return Loss -WIFI 2-2.4G&5G



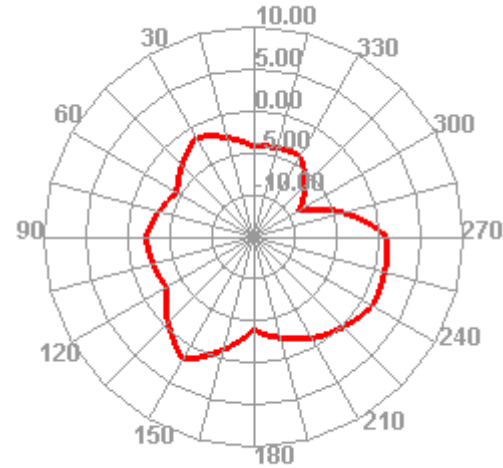
RF link

WIFI-2 2.4G 3D Pattern
2440

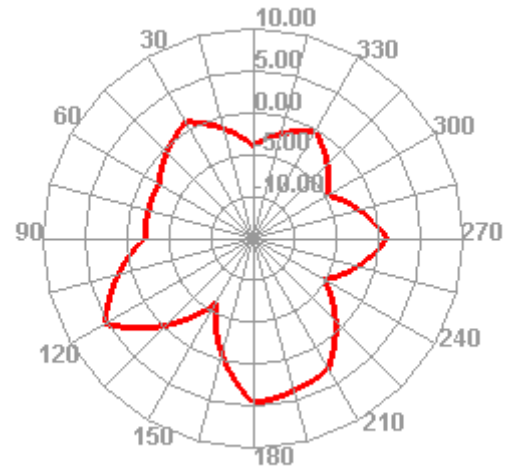
2440.000MHz



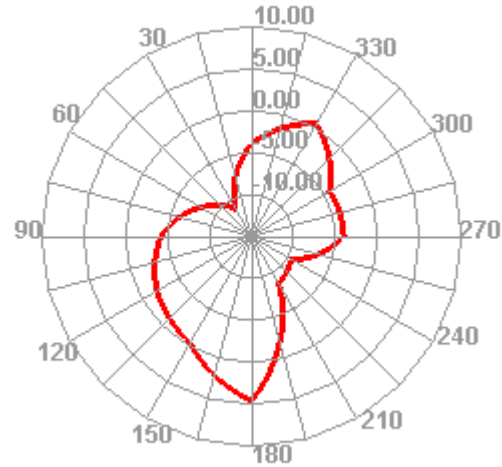
2440.000MHz H



2440.000MHz E2



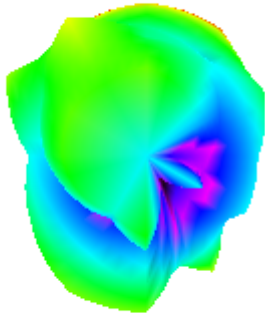
2440.000MHz E1



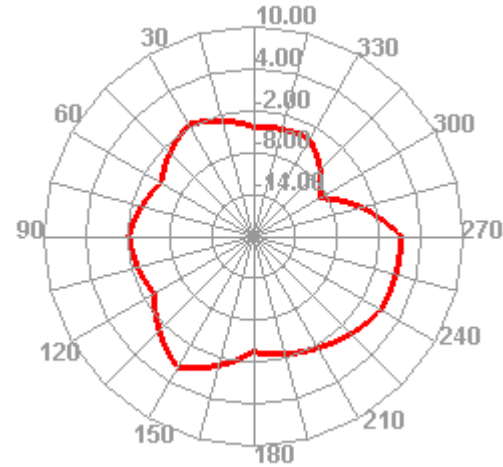
RF link

WIFI-2 2.4G 3D Pattern
2450

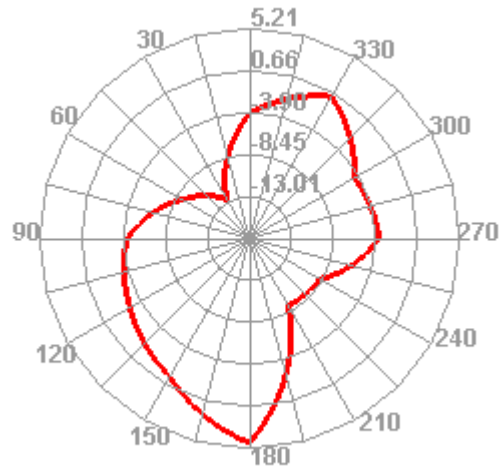
2450.000MHz



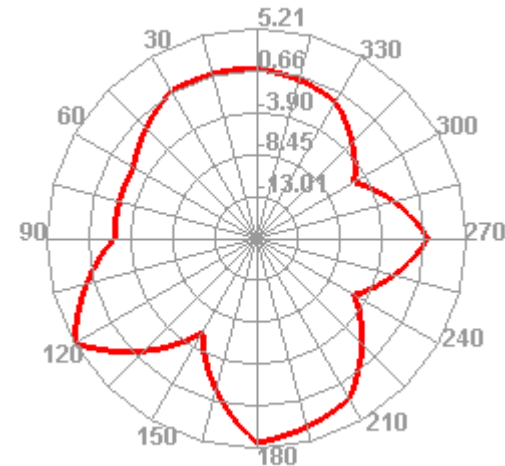
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

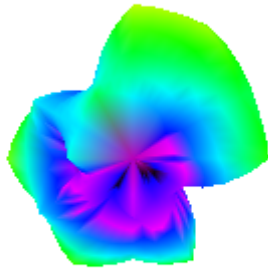


RF link

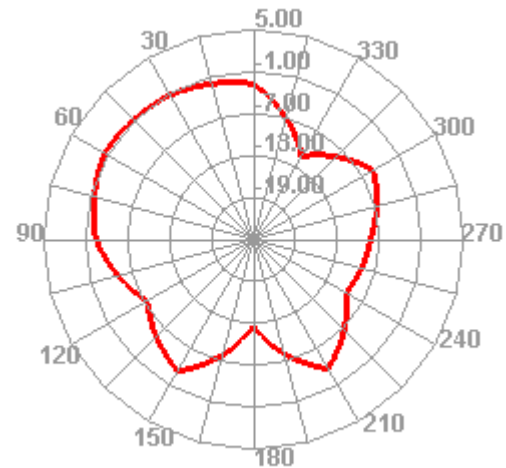
WIFI-2 5G 3D Pattern

5150

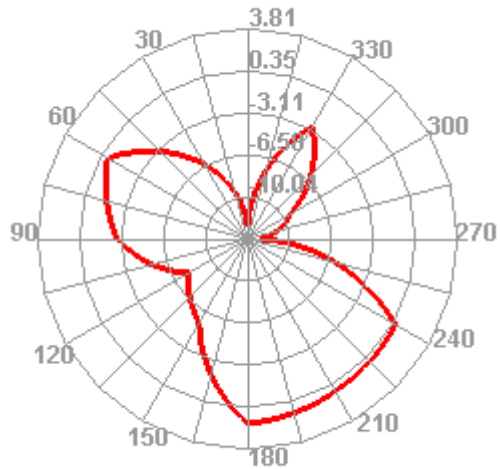
5150.000MHz



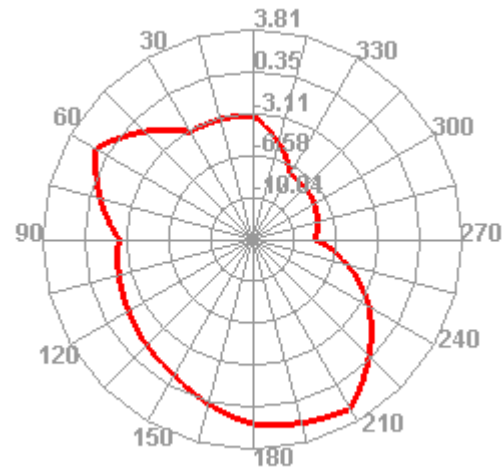
5150.000MHz H



5150.000MHz E1



5150.000MHz E2

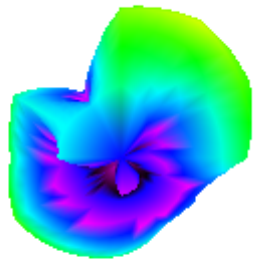


RF link

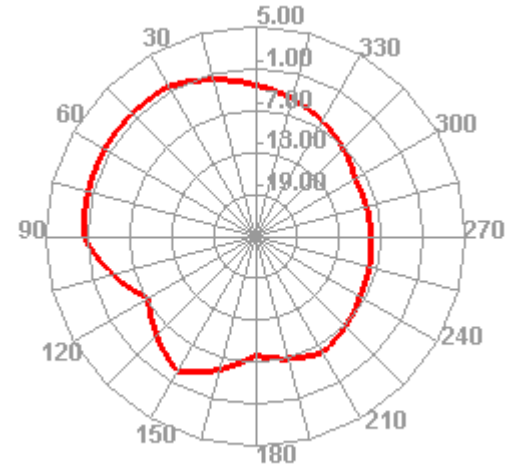
WIFI-2 5G 3D Pattern

5250

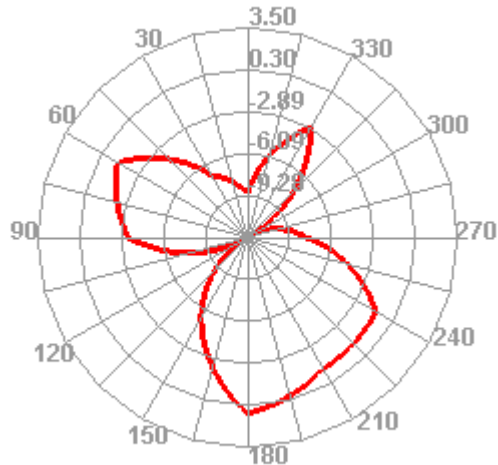
5250.000MHz



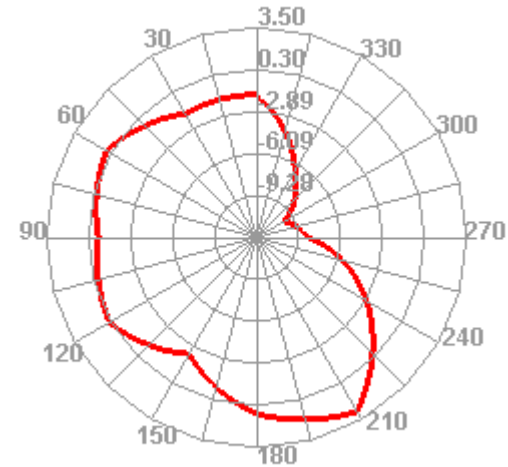
5250.000MHz H



5250.000MHz E1



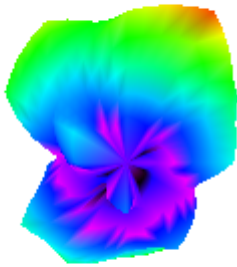
5250.000MHz E2



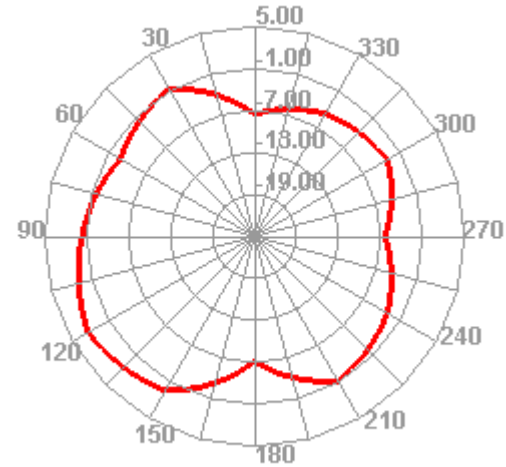
RF link

WIFI-2 5G 3D Pattern
5700

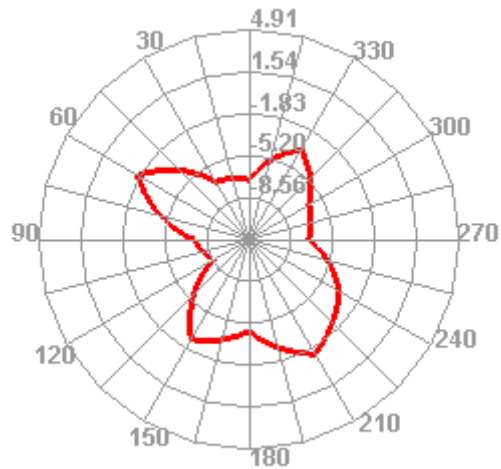
5700.000MHz



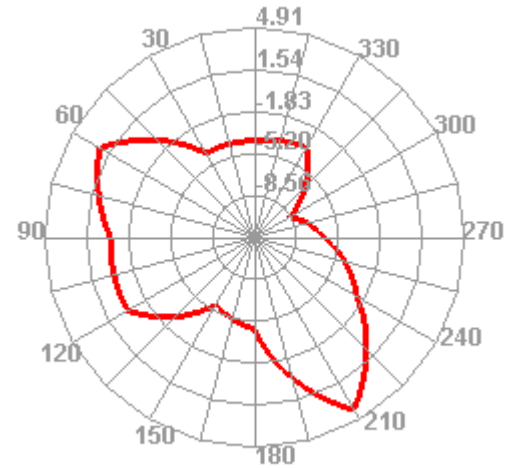
5700.000MHz H



5700.000MHz E1



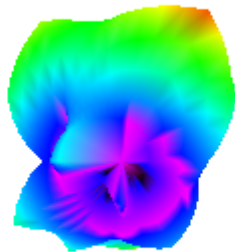
5700.000MHz E2



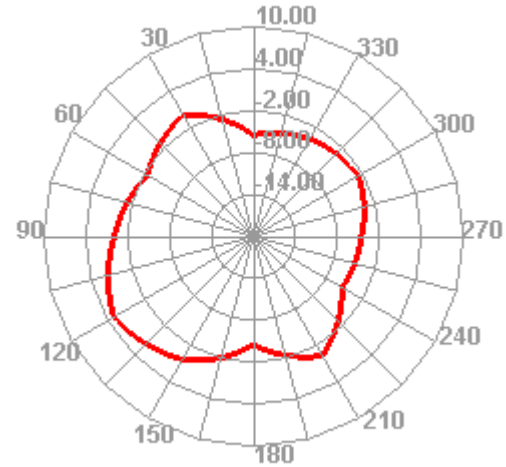
RF link

WIFI-2 5G 3D Pattern
5750

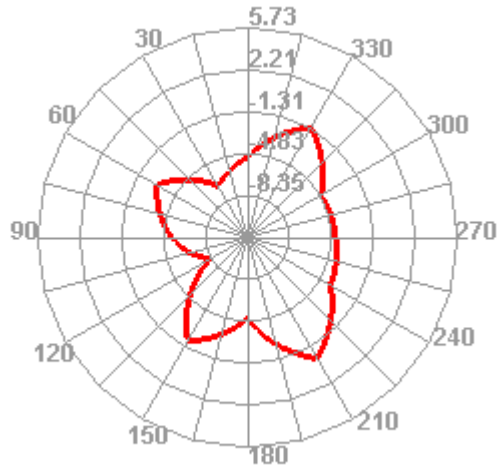
5750.000MHz



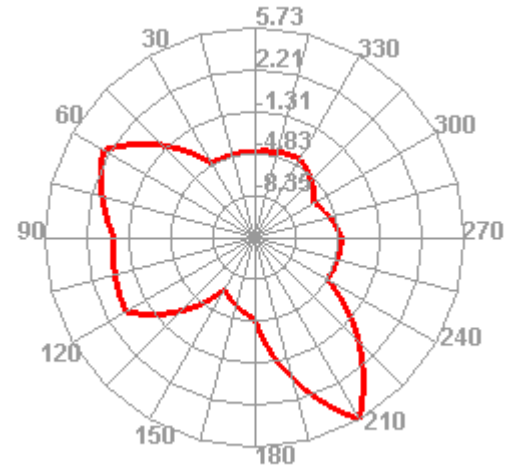
5750.000MHz H



5750.000MHz E1



5750.000MHz E2





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	/