

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Guoguang Electric Company Limited

PRODUCT NAME: 2.4/5G WIFI-2 Built-in antenna L=270mm

CUSTOMER P/N: EAN00320

Ren Feng P/N: U00T02S000N02789 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2023-01-12	

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

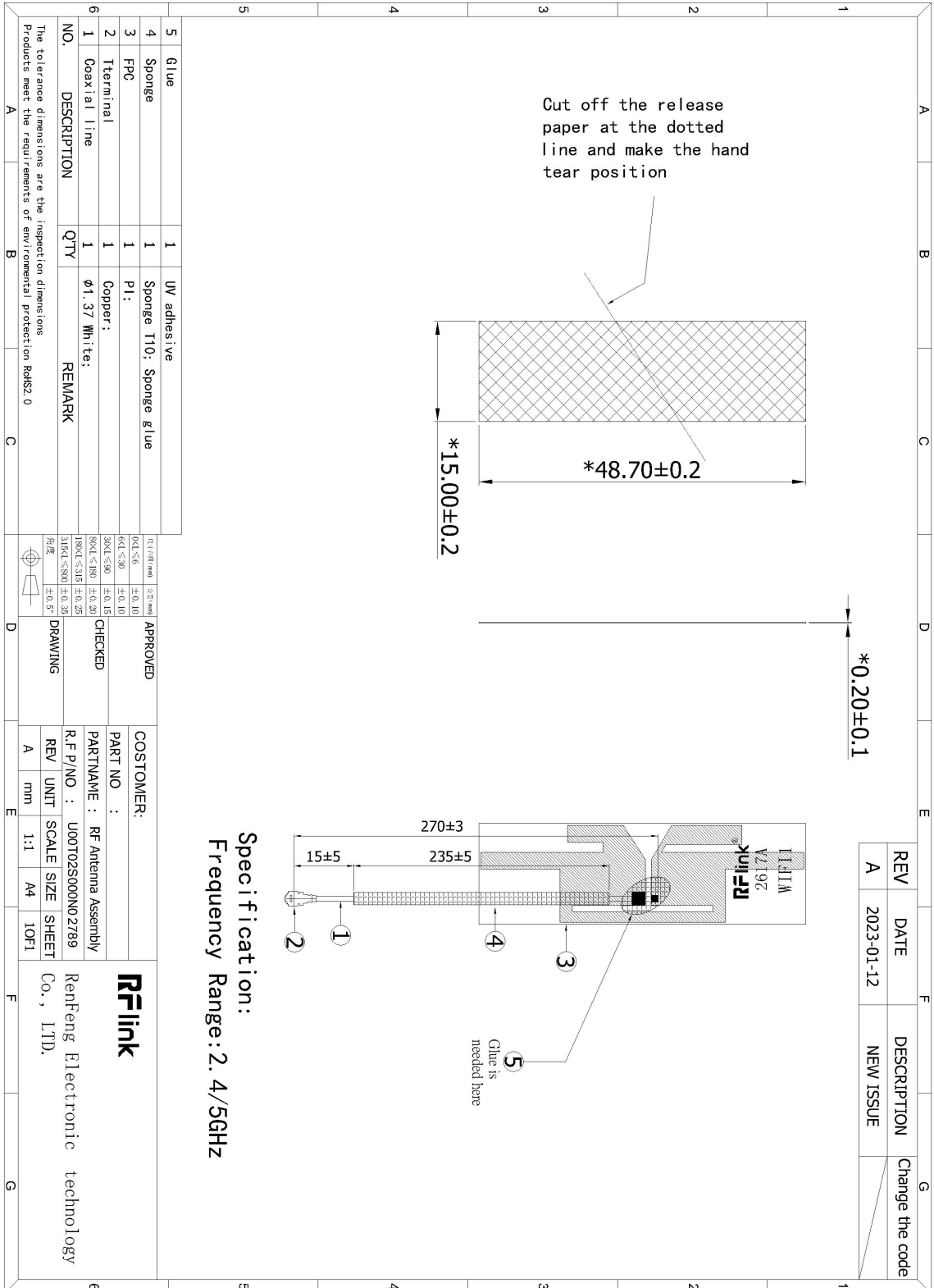
二、 Specification sheet:

Product main technical parameters

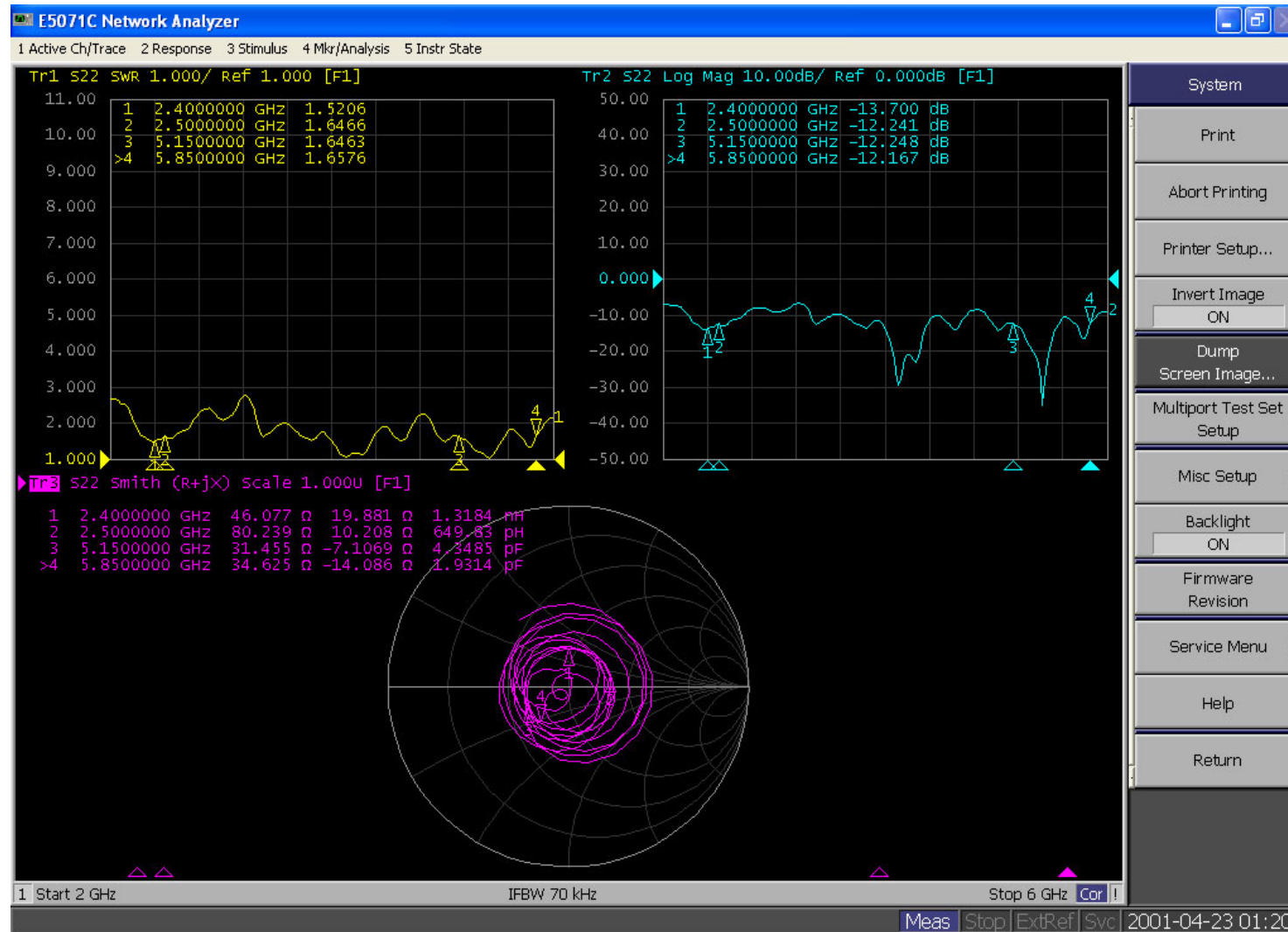
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	2.4G \leq 4.62 5G \leq 4.83	Peak Gain(dBi)	2.4G \leq 4.62 5G \leq 4.83
VSWR	\leq 2.0	VSWR	\leq 2.0
Radiation	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



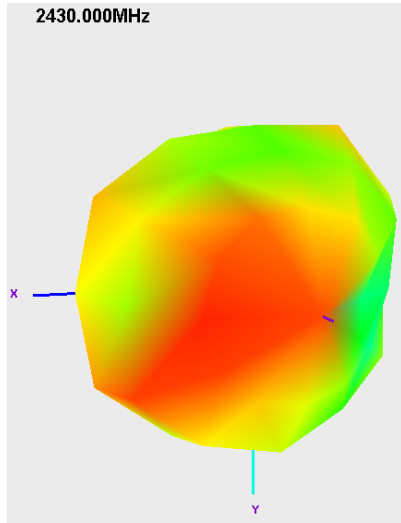
Measurement data--Return Loss -WIFI 2-2.4G&5G



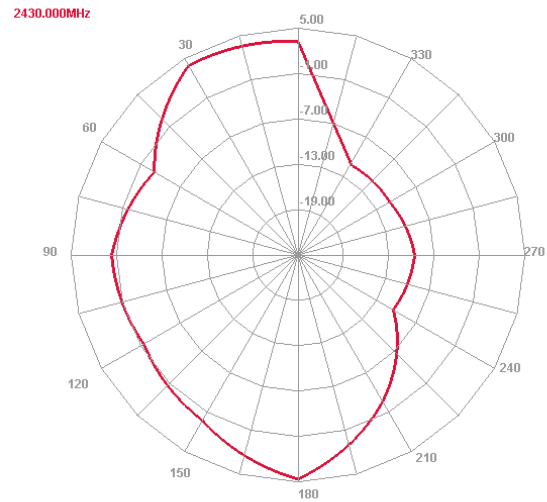
RF link

WIFI-2 2.4G 3D Pattern

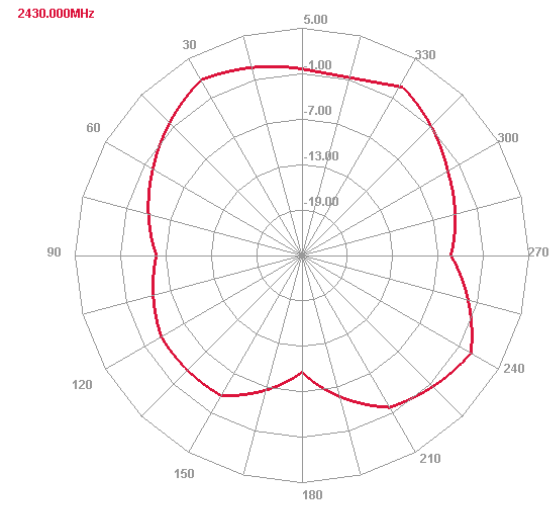
2430



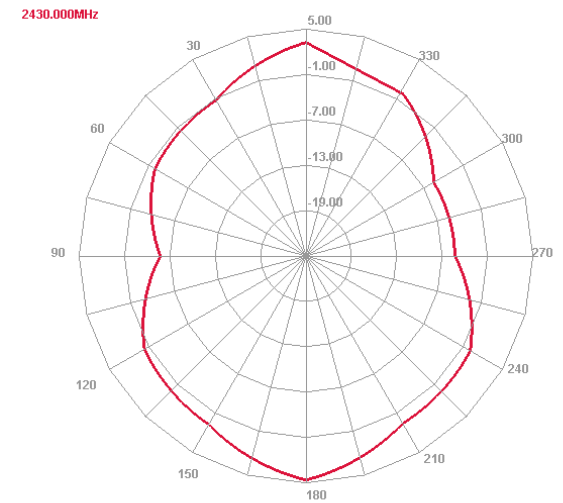
E1 Face



Horizontal



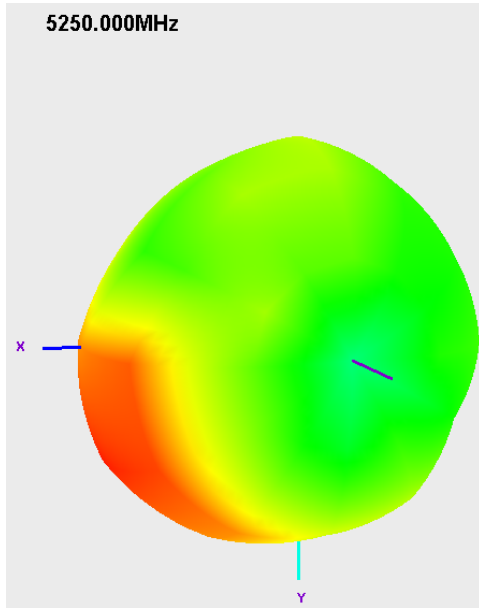
E2 Face



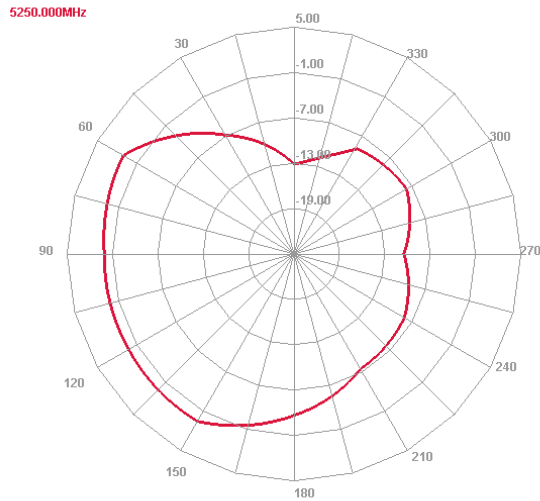
RF link

WIFI-2 5G 3D Pattern

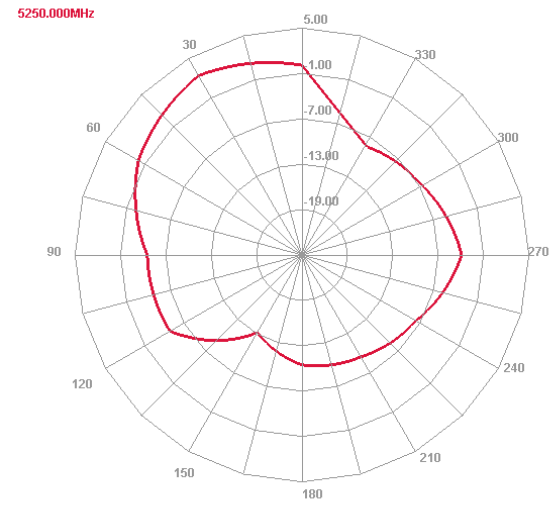
5250



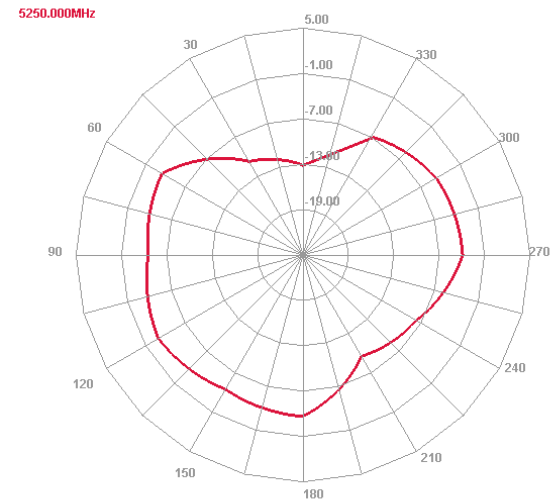
E1 Face



Horizontal



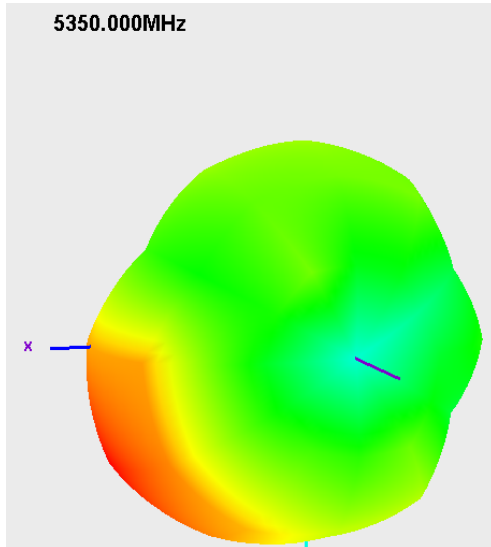
E2 Face



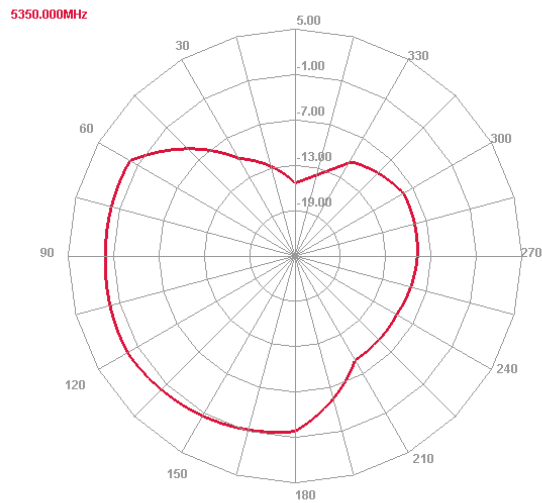
RF link

WIFI-2 5G 3D Pattern

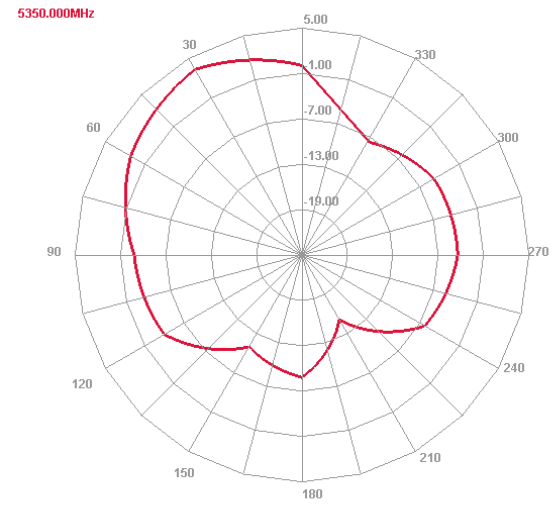
5350



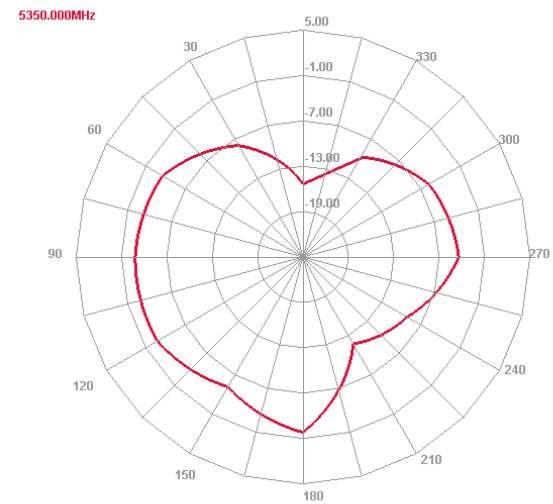
E1 Face



Horizontal



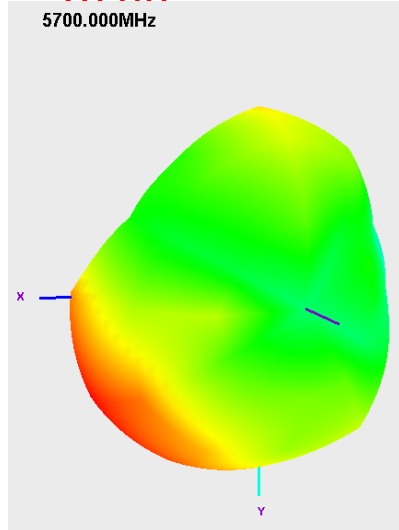
E2 Face



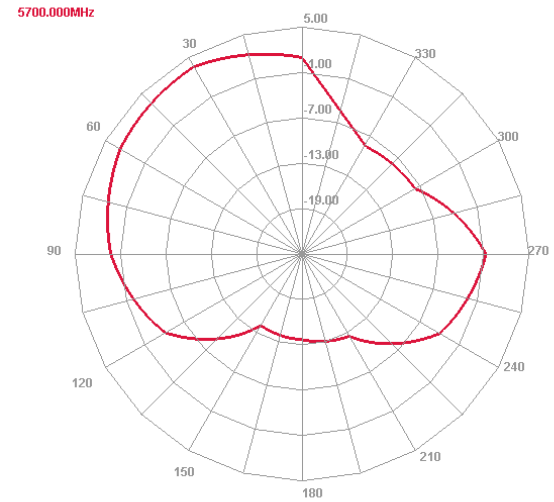
RF link

WIFI-2 5G 3D Pattern

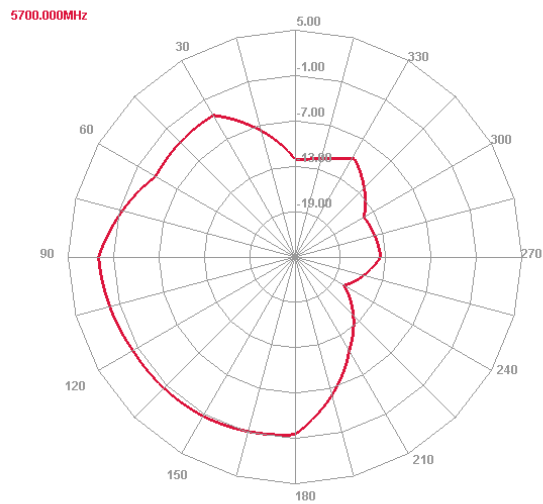
5700



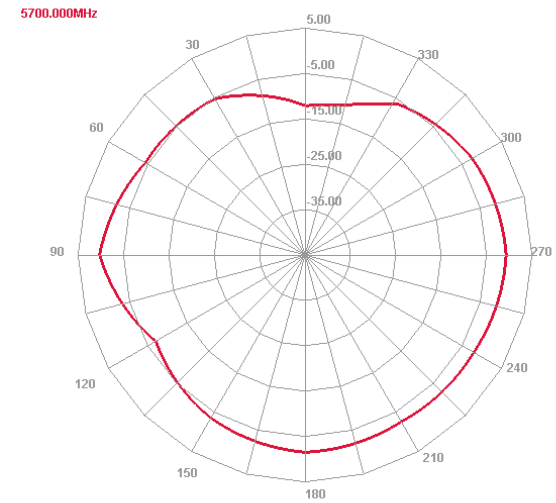
Horizontal



E1 Face



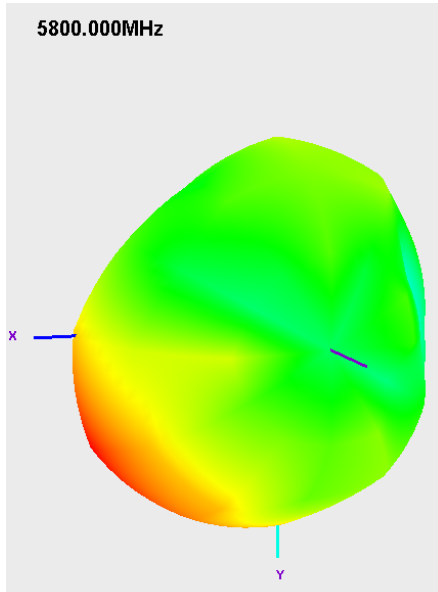
E2 Face



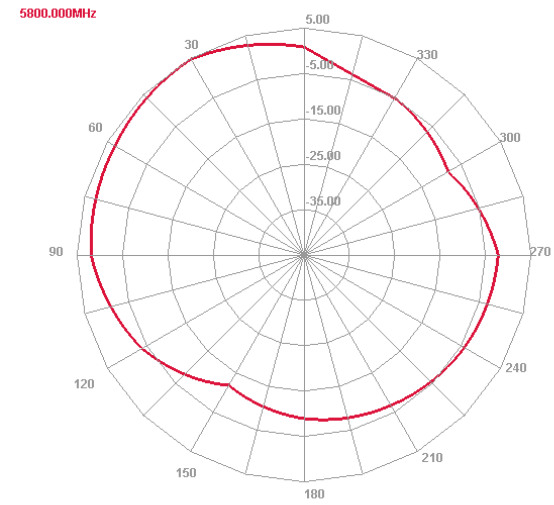
RF link

WIFI-2 5G 3D Pattern

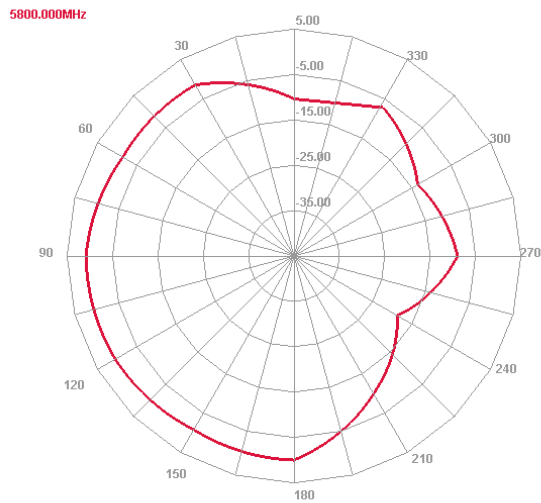
5800



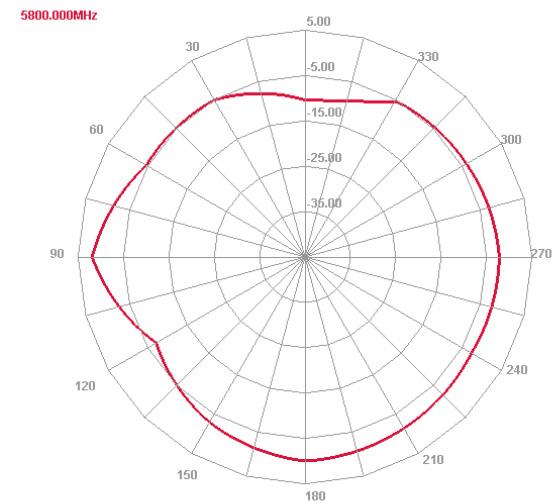
Horizontal



E1 Face



E2 Face



RF link

WIFI 2-2.4G &5G

Freq (MHz)	Effi (%)	Gain (dBi)
2400	67.23	4.22
2410	73.51	4.6
2420	72.28	4.47
2430	76.3	4.62
2440	75.96	4.55
2450	75.15	4.45
2460	72.43	4.28
2470	70.63	4.23
2480	67.38	4.09
2490	67.67	4.06
2500	61.9	3.64

Freq (MHz)	Effi (%)	Gain (dBi)
5150	59.29	2.56
5200	58.3	2.56
5250	57.73	2.86
5300	56.29	3.3
5350	58.08	3.32
5400	57.07	3.39
5450	56.95	3.53
5500	51.97	2.74
5550	51.02	2.18
5600	50.68	1.73
5650	54.93	2.53
5700	62.8	3.59
5750	69.86	4.73
5800	69.54	4.83
5850	65.35	4.28

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	/