Shenzhen Flairlink Technologies

TEL：18576689668 E-mail:steven.si@flairlink.cn

APPROVAL SHEET

Customer ：

DESCRIPTION： **WiFi Antenna**

PART NO.： **MXQ-2.4/5.8-FPC-0.81-L130-IPEX 4gen**

CUS PART NO.： **1021700002**

D A T E： **2025-9-12**

Supplier signment

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer signment

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

Phone：18576689668

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ж Approval in duplicate, please signed by your company.

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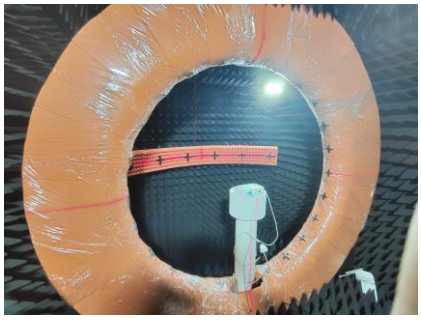
1. Test item &equipment

	Test item	equipment
1. （S-parameter）	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active	1. TRP 2. TIS	1. **Anechoic Chamber**： ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Test Instrument: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive	1.Gain 2.Efficiency	1. **Anechoic Chamber**： ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer：Agilent E5071B HP 8753D



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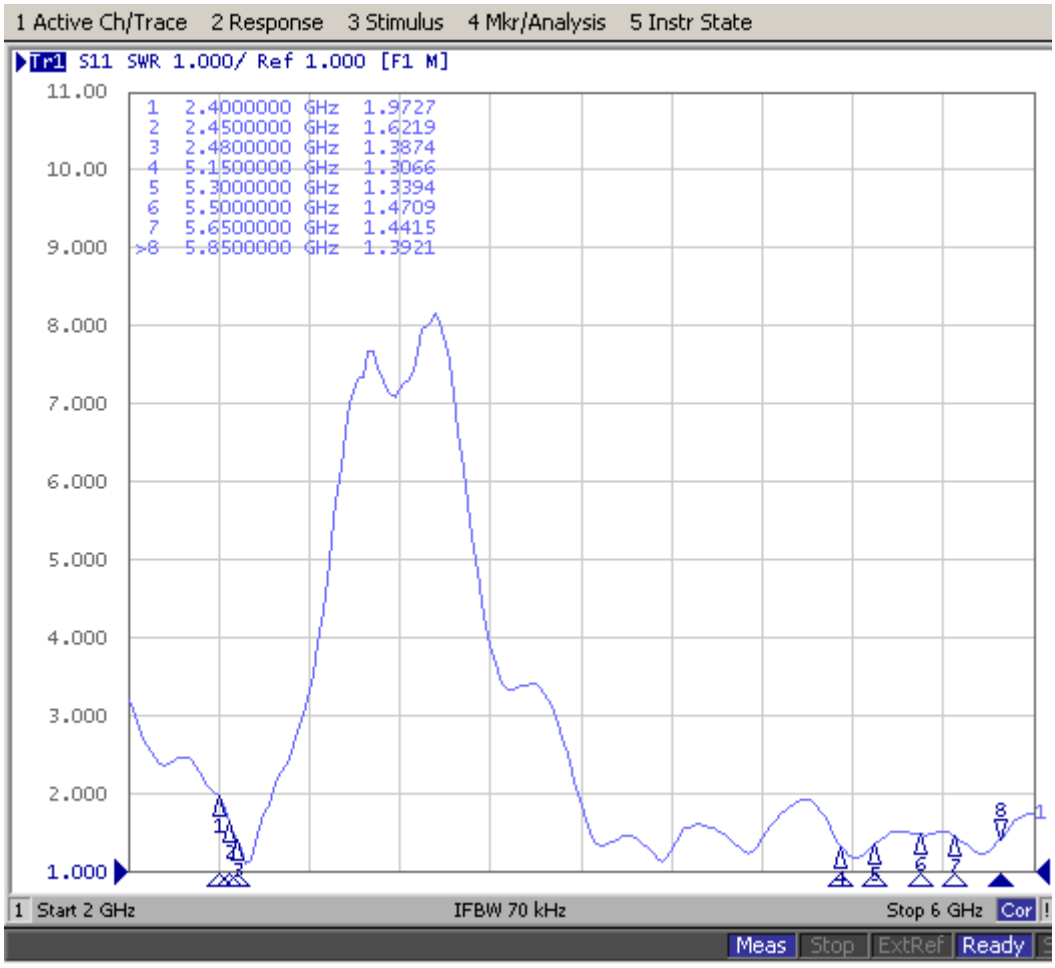
2. Performance

SWR



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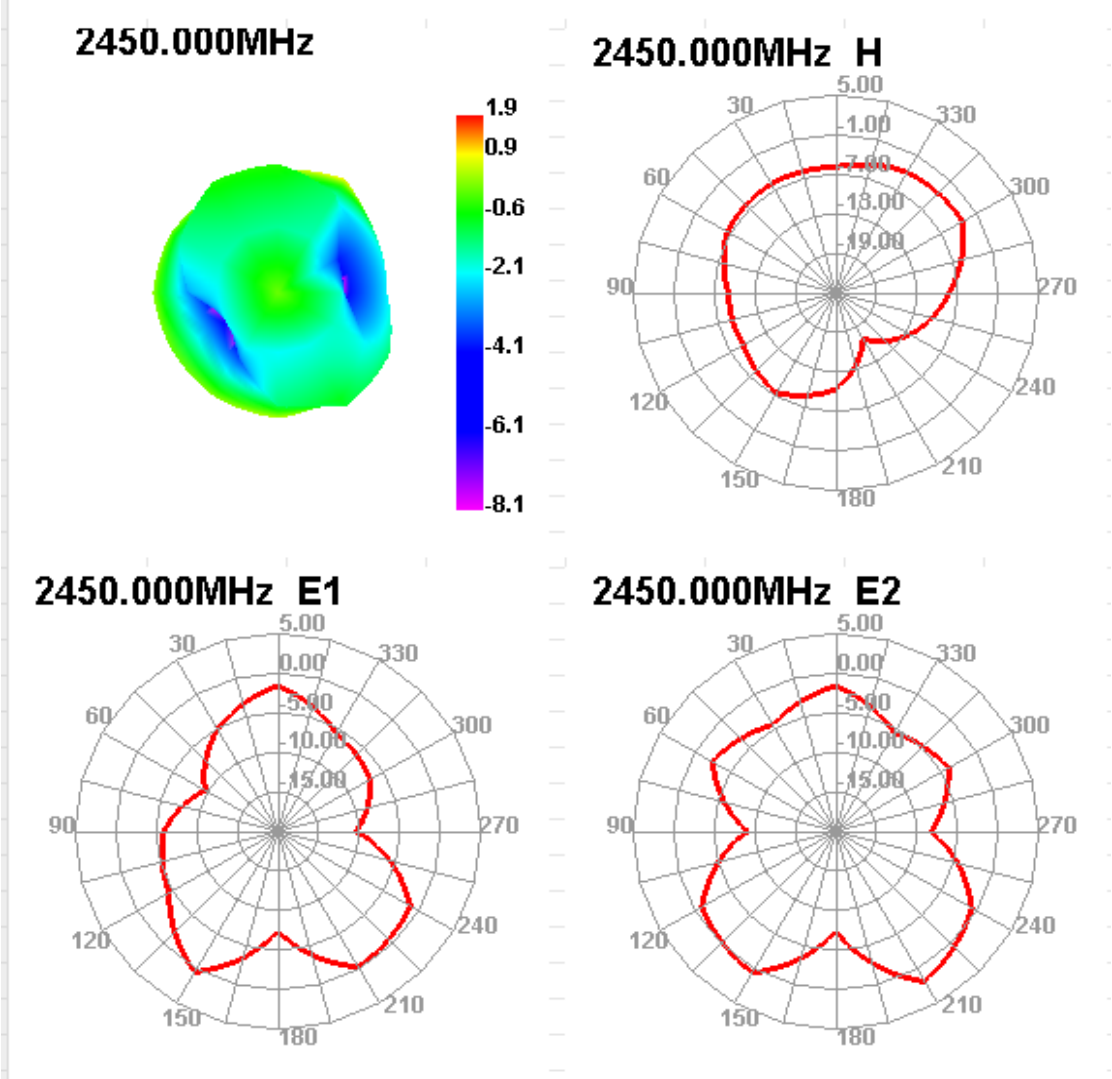
3. Gain & Efficiency

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.93	1.95
2410	44.09	1.79
2420	40.31	1.43
2430	40.26	1.36
2440	42.99	1.6
2450	46.49	1.89
2460	45.39	1.62
2470	48.07	1.77
2480	49.25	1.73
2490	52.8	1.81
2500	53.65	1.84



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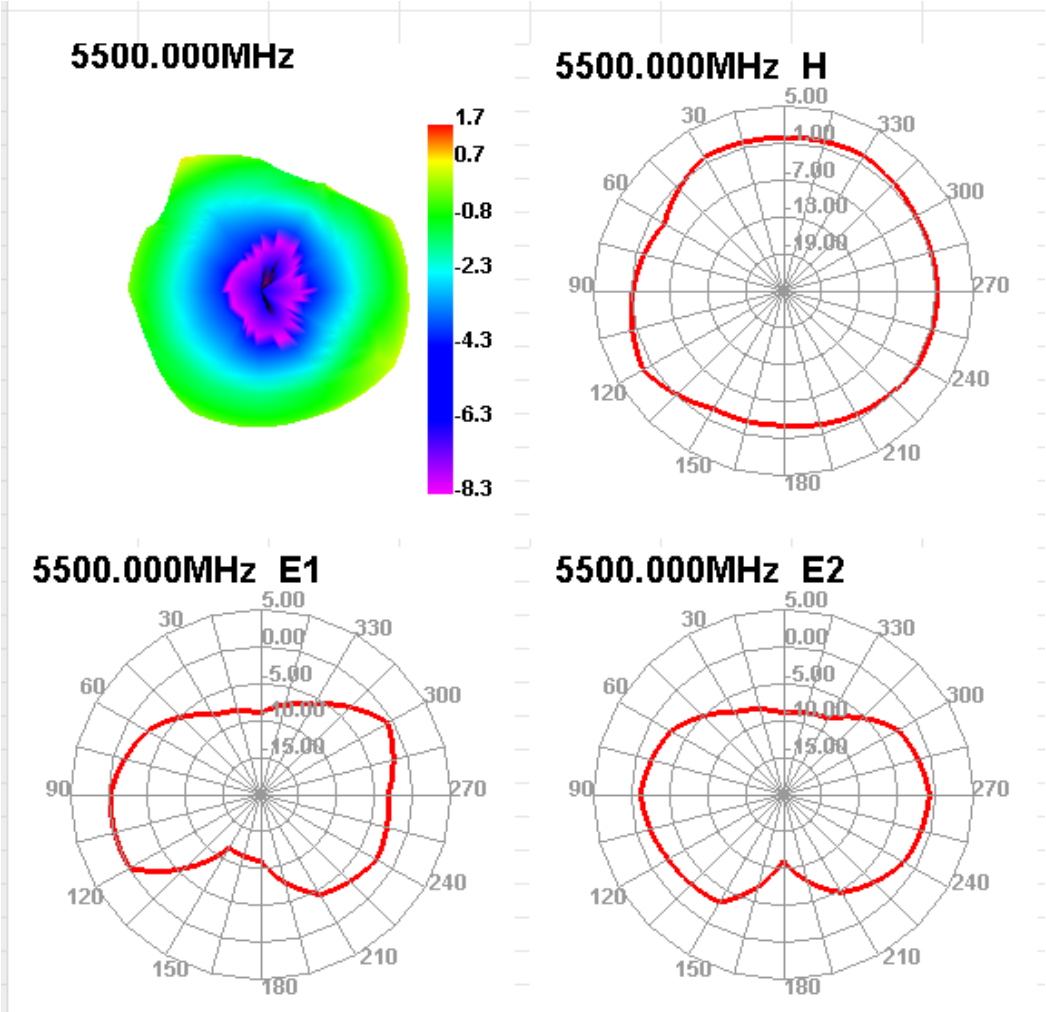
Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	57.65	1.29
5200	52.36	0.76
5250	46.79	0.16
5300	49.36	0.4
5350	58.05	1.13
5400	65.74	1.8
5450	58.96	1.53
5500	60.61	1.74
5550	63.45	2.28
5600	60.14	2.21
5650	56.98	2.02
5700	56.92	1.78
5750	59.28	2.02
5800	54.71	1.05
5850	47.4	0.66



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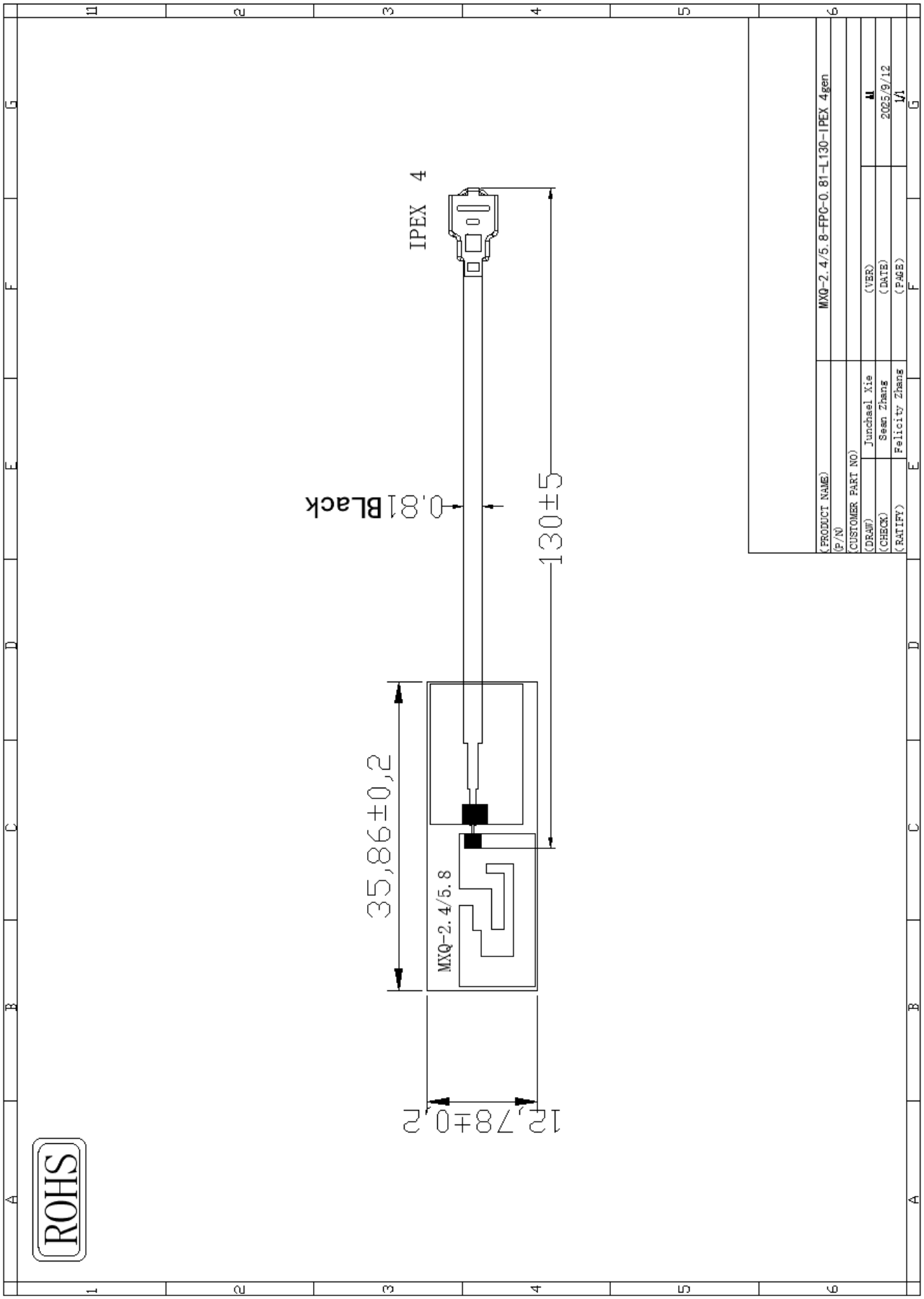
4. Structure：



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Technical parameters of electrical appliances

Electrical Specifications	
Frequency Range	2400~2500/5150~5850MHz
VSWR	≤2.0
Input Impedance	50 Ω
Gain	2 DBI
Mechanical Specifications	
Antenna Color	BLACK
Input connector	IPEX 4
Cable length	100mm
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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（Environment performance test）:

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30 ℃ ～ +80 ℃ ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40℃ to 70℃,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40℃,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal