

TEL: +86 755 23073599 FAX: +86 755 23097189

E-mail:wht0809@163.com

Antenna specification

WANG YU SHI TONG

DESCRIPTION:

:

P6-WIFI-FPC-1.13black-L150MM-IPEX1

PART NO.:

CUS PART NO.:

D A T E:

2023-11-17

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

Tel: 0755 23073599

- ${f {\Bbb K}}$ The letter of acknowledgement is in duplicate, with your company's approval and seal
- ж Approval in duplicate, please signed by your company.



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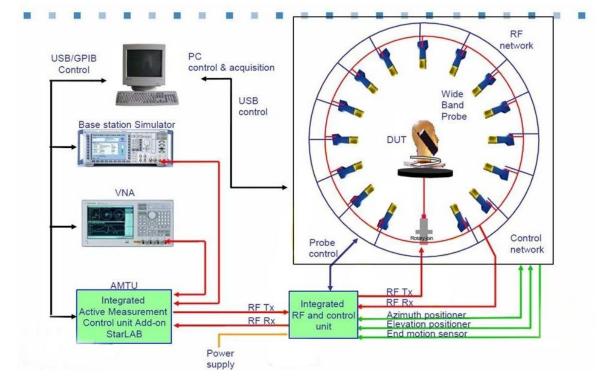
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Test items and equipment

	Test items	Equipment
1. S11-parameter	1. Return Loss 2. VSWR	network analyzer: Agilent E5071B HP 8753D
2.Active test	 Transmitting power Receiving sensitivity 	 Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.general-purpose tester : Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
³ . _{Passive test}	1.Gain 2.Efficiency	 Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber network analyzer: Agilent E5071B
		HP 8753D





Address :3015, 3rd Floor, No. 1 Sanwei South Road, Bao 'an District, Shenzhen City, Guangdong Province



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WiFi-1 S11



Freq/GH	Iz 2400	2450	2500	5000	5500	5850
VSWR	1.3	1.0	1.5	1.7	1.2	1.3



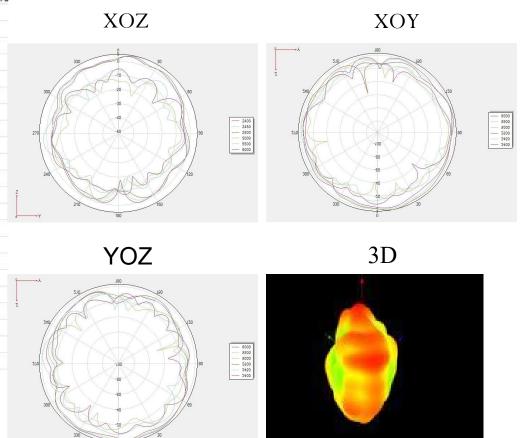
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3DPattern@2400-2500MHz 5150-5850MHz

equency Ma	ACCOUNT OF	
2400	3.3	60.67
2410	3.39	60.12
2420	3.21	60.39
2430	3.04	58.48
2440	2.65	56.62
2450	2.59	55.85
2460	2.52	58.61
2470	2.6	58.34
2480	2.42	56.13
2490	2.64	57.15
2500	2.8	59.43
5000	3.2	53.46
5100	3.07	55.46
5200	3.22	54.95
5300	3.19	51.64
5400	3.23	55.21
5500	3.12	54.24
5600	3.33	52.84
5700	3.36	53.21
5800	3.45	53.09
5900	3.17	50.93
6000	3.09	50.66



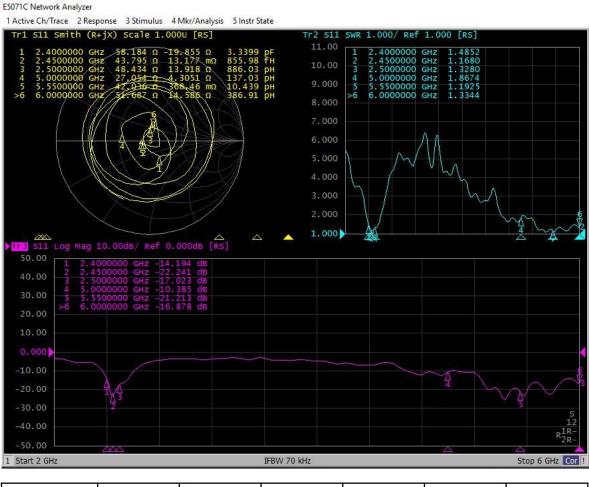


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WiFi-2 S11



Freq/GHz	2400	2450	2500	5000	5500	5850
VSWR	1.4	1.1	1.3	1.8	1.1	1.3



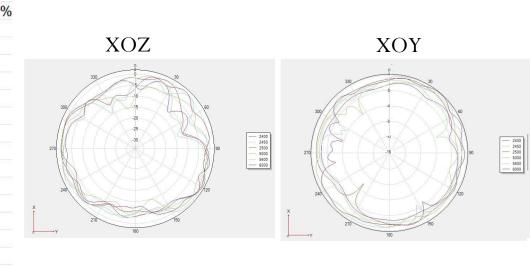
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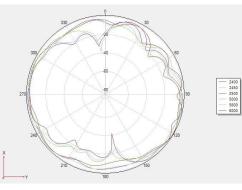
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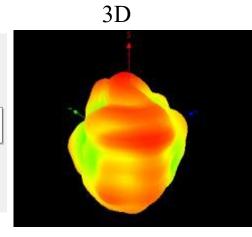
3DPattern@2400-2500MHz 5150-5850MHz

Frequency	MaxEphi/d	Efficiency /
2400	3.22	63.18
2410	3.29	64.14
2420	3.13	66.7
2430	3.17	65.7
2440	3.34	65.31
2450	3.64	65.31
2460	3.25	67.7
2470	3.97	67.1
2480	3.34	65.31
2490	3.15	65.7
2500	3.12	66.9
5000	3.23	55.51
5100	3.42	59.33
5200	3.26	58.72
5300	3.34	54.92
5400	3.6	58.51
5500	3.24	55.53
5600	3.97	53.95
5700	3.03	54.92
5800	3.15	54.33
5900	3.91	58.16
6000	3.5	58.55











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Antenna -OTA test data

AdditionalInfor	802.11b	: 11MBps	5	
Test		Wifi 2G	TRP	Test
Result	1	6	11	Result
Frequency (MHz)	2412	2437	2462	Frequency (MHz)
Txp Ave(dBm)	17.68	18.3	17.65	Sens Ave(dBm)

Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-85.78	-84. 81	-85.07

AdditionalInfor 802.11a : 54MBps

Test	Wifi 5G TRP		
Result	36	64	161
Frequency (MHz)	5180	5320	5805
Txp Ave(dBm)	15.67	14.9	16.04

Test	Wifi 5G TIS		
Result	36	64	161
Frequency (MHz)	5180	5320	5805
Sens Ave(dBm)	-72. 73	-72.4	-70.35

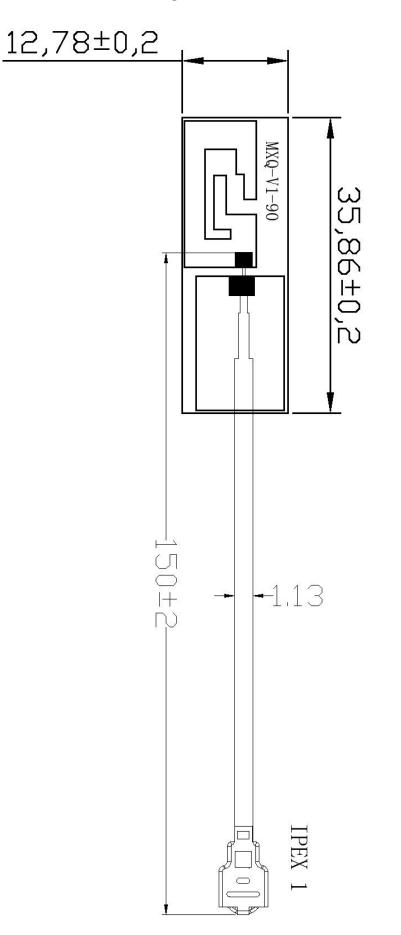


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Antenna structure diagram:





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Electrical performance index

Frequency range(MHZ):	2400~2500/ 5150~5850MHz
Impedance :	50 Ω
DBI (dBi):	3~4
VSWR :	≤2.0
Polarization mode:	perpendicularity
Radiation mode :	omnidirectional

Mechanical property index

Antenna color:	black	
Antenna length:	150 mm	
Wire type:	1.13 black	
Antenna connector:	IPEX 1	
Working temperature:	-40°C~85°C	
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 °C \sim +80 °C ;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°C to 70°C,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°C, 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