

**Shenzhen Xuhang Communication
Technology Co., Ltd**

CUSTOMER	
CUSTOMER NO.	
PART NAME	WIFI Antenna
SUPPLIER NO.	XH250032-A

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

DESIGN	CHECK	APPROVAL
Luo	Robert	SHANG

Date:April 24,2025

DIRECTORY

[illegible]

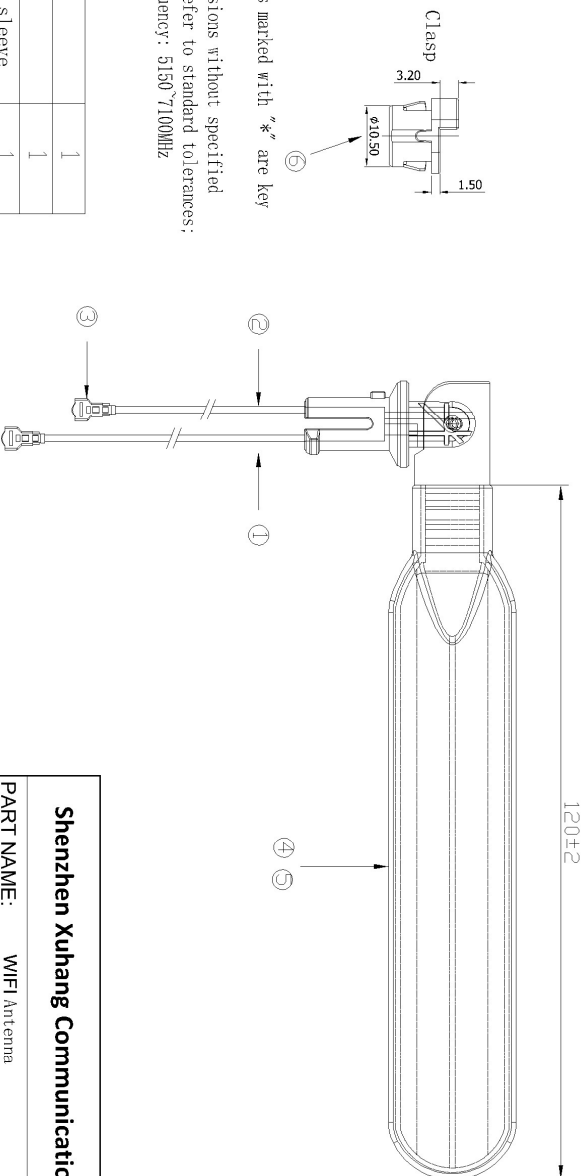
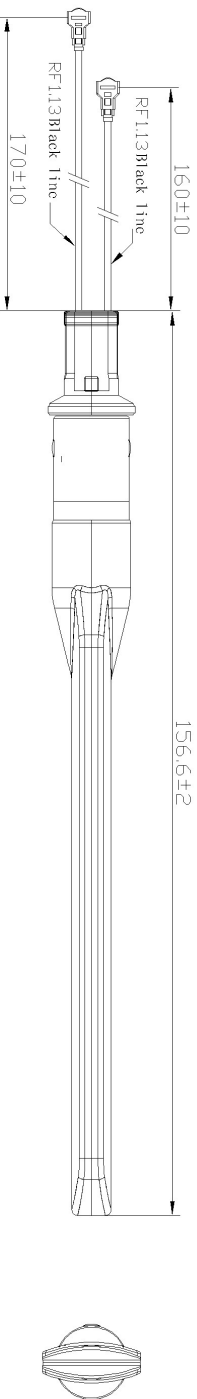
TEST REPORTS

Frequency	5150MHz~7100 MHz 5150MHz~7100 MHz
Impedance	50 Ohm Nominal
V.S.W.R	2.1/MAX @ 5150MHz ~7100 MHz 2.1/MAX @ 5150 Mhz~7100MHz
Polarization	Linear,Vertical
Radiation	Omni-directional
Gain(Peak)	1.85dBi/MAX @ 5150MHz ~7100 MHz 2.09dBi/MAX @ 5150 Mhz~7100MHz
Admitted Power	1W
Connector	IPEX I
Physical Properties	
Size	/
Cable Type	O.D.1.13mm
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	Black

DRAWING

RoHS

REV.	ORDER NO	DATE
A.0	New release	2024-11-15



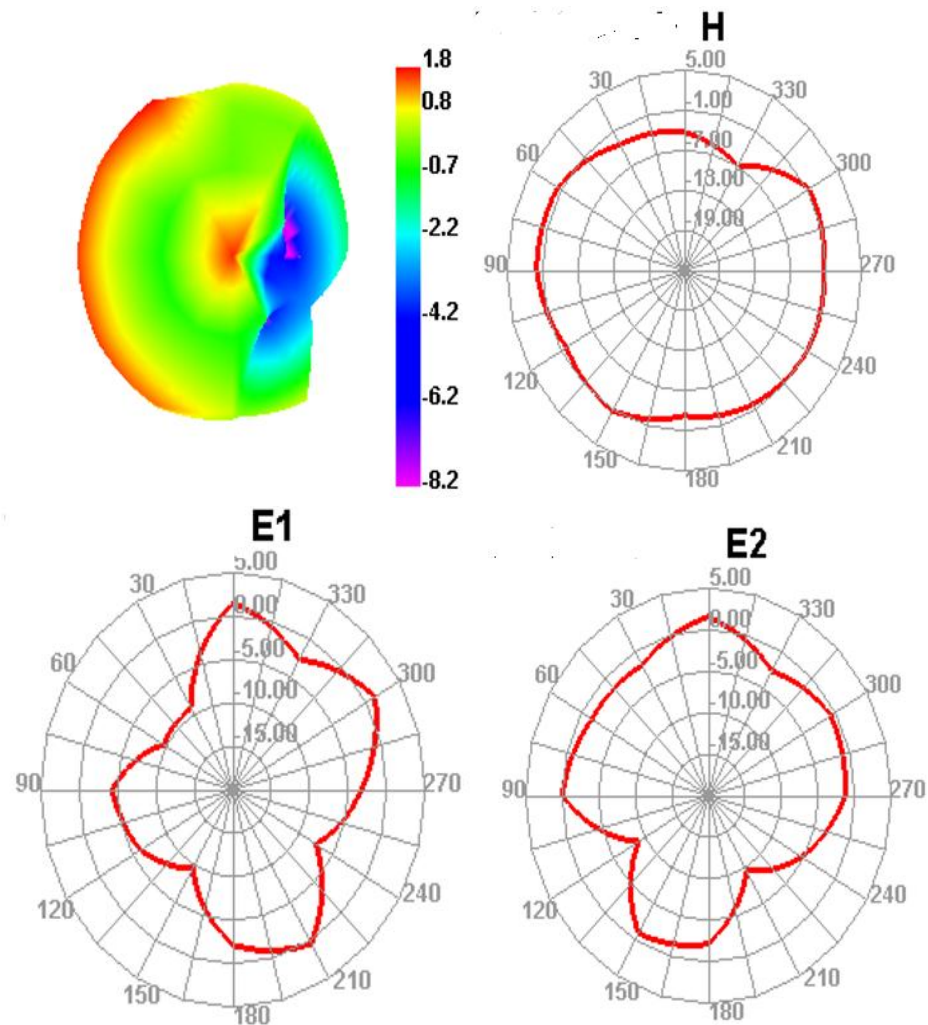
- Notes: (b)
1. Dimensions marked with "*" are key dimensions;
 2. For dimensions without specified tolerance, refer to standard tolerances;
 3. Test frequency: 5150~7100MHz

6	Clasp	1
5	PCB	1
4	Black rod sleeve	1
3	I-PEX 1	2
2	RF1.134Black line	160MM
1	RF1.134Black line	170MM
No	Material Specifications	Dosage

Shenzhen Xuhang Communication Technology Co., Ltd				
PART NAME:		WiFi Antenna		
PART NO.:	XH250032-A	Customer P/N :		
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance	
			 	
			UNITS: mm SCALE: None	X.X ±0.50 X.X ±0.15
			REVISION A	X° ±3°

Test Data

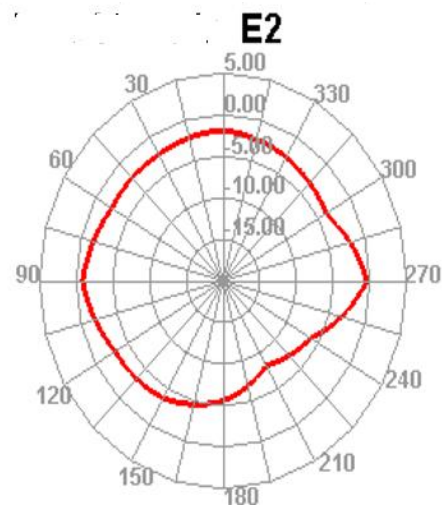
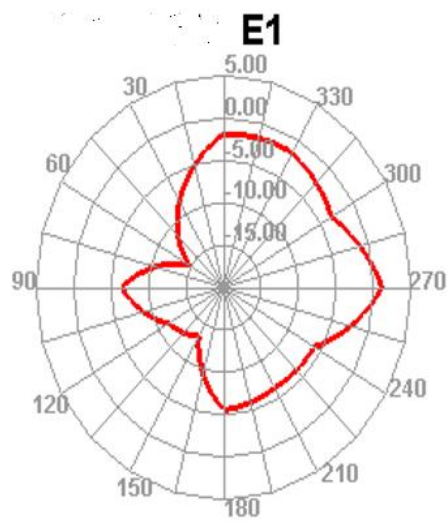
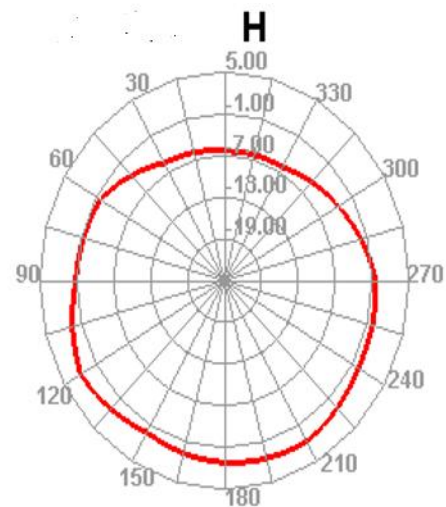
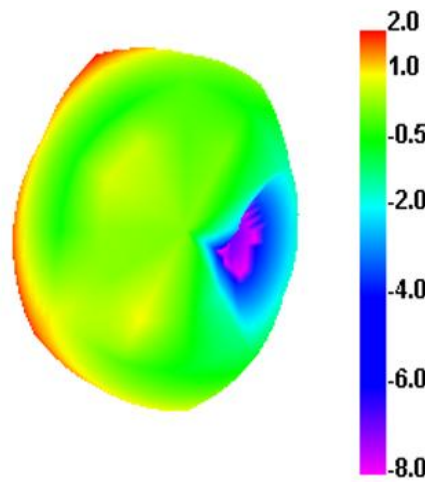
WIFI-1



Freq (MHz)	Effi (%)	Gain (dBi)
5000	50.07	0.89
5100	52.98	0.86
5200	52.33	0.84
5300	50.19	0.25
5400	49.01	0.15
5500	51.91	0.76
5600	50.08	0.35
5700	52.46	0.53
5800	51.11	0.71
5900	52.03	0.88
6000	56.8	1.85

Freq (MHz)	Effi (%)	Gain (dBi)
6100	45.36	0.03
6200	47.72	0.14
6300	54.74	1.01
6400	55.35	1.74
6500	48.42	0.08
6600	52.59	1.09
6700	49.68	1.08
6800	51.2	1.17
6900	49.44	1.08
7000	50.03	1.13
7100	56.98	1.77

WIFI-2



Freq (MHz)	Effi (%)	Gain (dBi)
5000	53.12	1.02
5100	53.52	0.94
5200	54.31	1.2
5300	51.82	1.02
5400	51.64	1.39
5500	51.27	0.9
5600	53	0.52
5700	53.26	0.38
5800	53.41	0.98
5900	53.69	0.91
6000	58.54	2.09

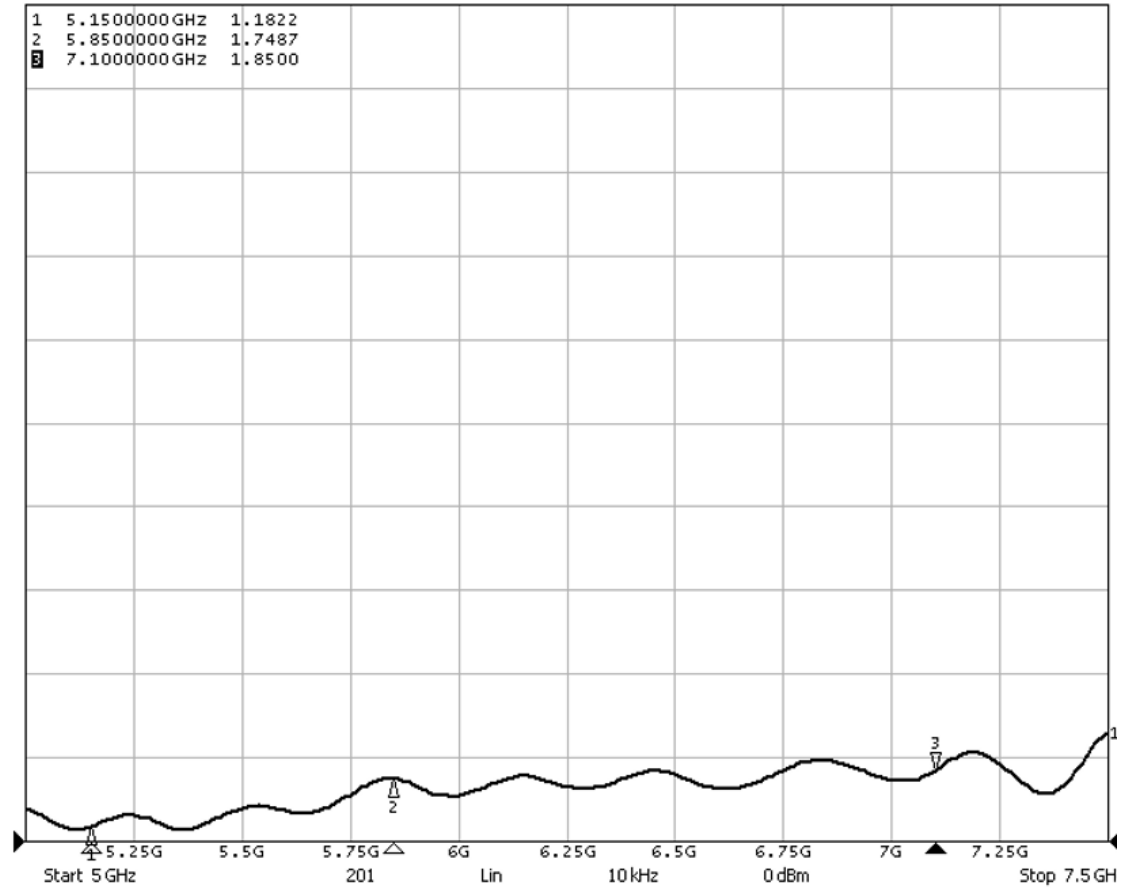
Freq (MHz)	Effi (%)	Gain (dBi)
6100	48.06	0.25
6200	52.32	0.3
6300	51.78	0.81
6400	57.03	1.54
6500	48.88	0.24
6600	53.97	0.93
6700	49.92	0.35
6800	54.7	1.68
6900	47.41	1.15
7000	50	1.59
7100	54.28	1.8

WIFI-1 VSWR

Note: Standard value of the standing wave ratio

Note: Standard value of return loss

Tr1 S11 SWR 1.000 / 1.000 [F1]

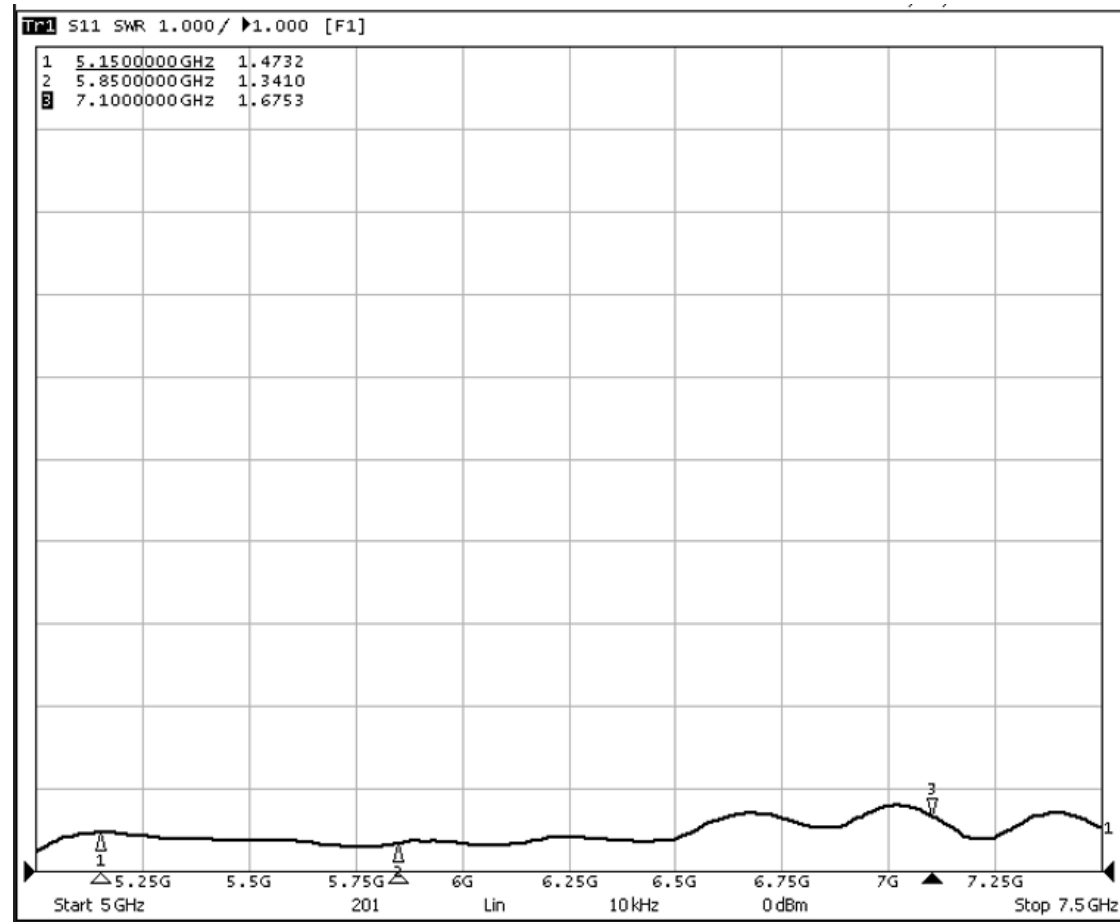


No.	Freq	Standing
1	5150MHz	1.1822
2	5850MHz	1.7487
3	7100MHz	1.8500

WIFI-2 VSWR

Note: Standard value of the standing wave ratio

Note: Standard value of return loss



No.	Freq	Standing
1	5150MHz	1.4732
2	5850MHz	1.3410
3	7100MHz	1.6753