

Antenna specification for approval

Customer name: 尚蓝柏

Model :

Antenna type : WIFI antenna

Antenna frequency band: 2.4G

Material : FPC

Color : Black

Material Number: F1146A-1R11B-150-A Production date: 2022-11-25

Version: **A**

Admit that signature			
Confirmation Signature		Customer Approved	
Responsible		Responsible	
QC		Engineer	
Approve		Approve	
Date		Date	

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This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI antenna.

- Antenna shape size: Meet the requirement of MID project
- Antenna band: 2400MHz~2500MHz
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID

Antenna performance SPEC overview

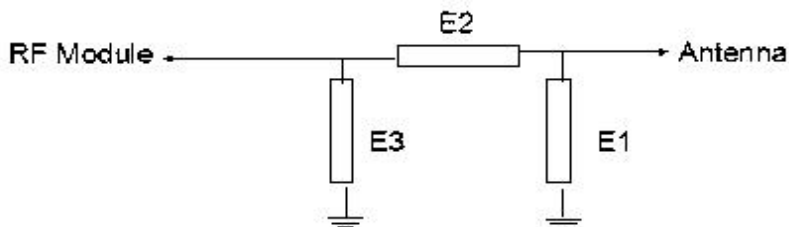
Description	2.4GHz~2.5GHz	Units
VSWR	≤2.0	
Average Antenna Gain	≥1.0	dB
Antenna Efficiency	≥40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

● **Mechanical Information**

Mechanical Dimension	
Cable Length	150mm/Black
Description	WIFI antenna
Material	FPC
Coaxial Cable	50Ohm/O.D.1.13mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

2:Match the circuit diagram, antenna images

2.1 Match the circuit diagram



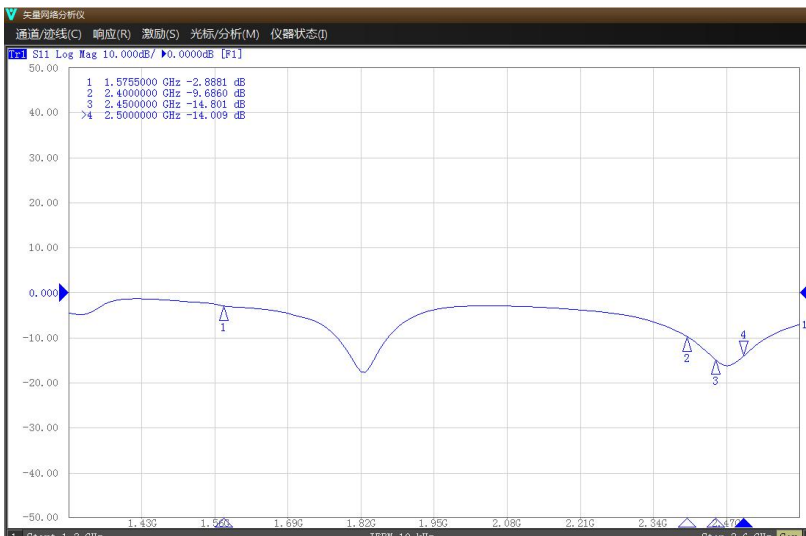
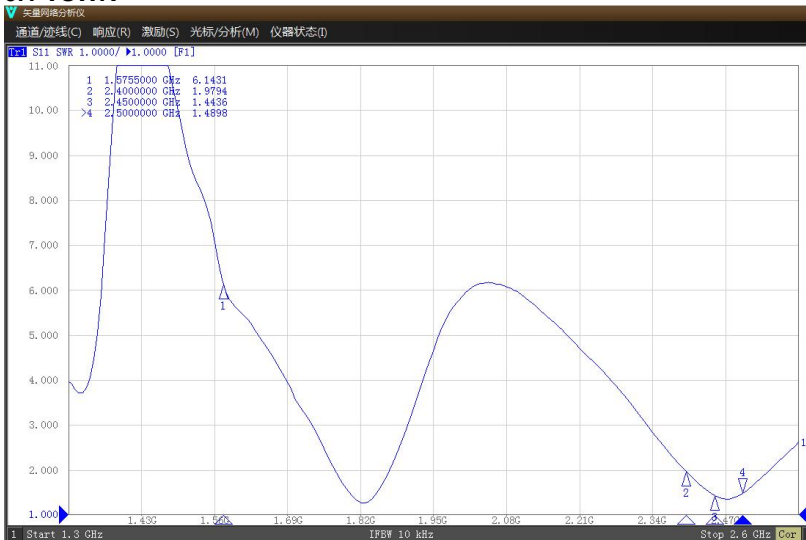
Our company did not modify the antenna matching

2.2 Machine and Antenna images



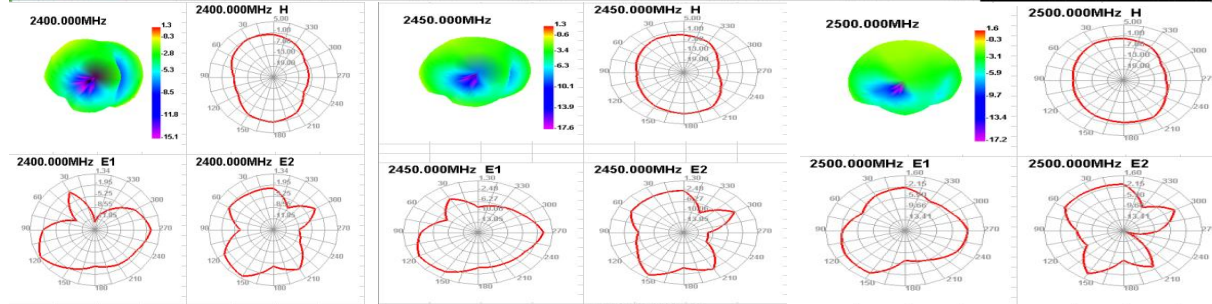
3: VSWR、Efficiency

3.1 VSWR



3.2 Efficiency

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	53.34	-2.73	1.35	-1.47	20.703	32.638	0.68	-7.37	48.04	48.09
2410	48.04	-3.18	1.29	-1.66	18.519	29.518	0.49	-7.81	47.59	47.64
2420	48.65	-3.13	1.18	-1.37	18.29	30.36	0.78	-7.82	47.92	48.01
2430	48.24	-3.17	1.12	-1.17	17.768	30.467	0.98	-7.88	47.46	47.57
2440	52.1	-2.83	1.5	-0.65	18.484	33.613	1.5	-7.37	47.72	47.88
2450	50.66	-2.95	1.61	-0.54	17.868	32.791	1.61	-7.52	47.65	47.81
2460	48.23	-3.17	1.53	-0.62	16.994	31.236	1.53	-7.69	47.84	47.97
2470	49.44	-3.06	1.81	-0.34	17.343	32.099	1.81	-7.55	47.92	48.04
2480	55.15	-2.58	2.38	0.23	19.234	35.915	2.38	-7.08	47.86	47.88
2490	60.33	-2.19	2.71	0.56	21.417	38.914	2.71	-6.45	48.2	48.18
2500	58.73	-2.31	2.66	0.51	20.971	37.758	2.66	-6.67	48.05	47.98



4: Structural drawings

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1	Packaging materials	PE closure pickets	Transparent 100PCS / Bag	160*240mm			
2	Terminal		Gloss	I-PEX 1			
3	FPC/PCB	Coaxial line	Black	1			
4	Cable	Coaxial line	Black	1	0.0-13mm		
5	NO. SORT	MATERIAL	FINISH	QTY	DESCRIPTION		

The terminal tension must be greater than 1.5kg

The technical requirements

1. Make * the key size:
2. The unmarked tolerance of linear size shall be in accordance with SJ/T 10628, grade 6, 1995, and the tolerance shall be equally divided by the upper and lower deviations;

Assembling Figure		Design	ZP ZOU	Date	2022-11-25
Part No	E1146N-IR1B-130-A	Version	A	Ratio	FIT
Unit	mm	Shenzhen Vic-proud Technology Co., Ltd			

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