



天|线|制|造|商

深圳市云希科技有限公司

Shen zhen Vic-Proud Technogy Co.,Ltd

天线规格书

Antenna specification

Customer Name:SOUNDLAB

Antenna type:FPC

Frequency band:2.4G

P/N:F1146A-1R11B-250-A

Color: Black

Version: A

Date:2025-10-09

承认签章 Admit that signature			
云希承认 Confirmation Signature		客户承认 Customer Approved	
承办人 Responsible		承办人 Responsible	
品质 QC		主管 Chief	
核准 Approve		核准 Approve	
日期 Date		日期 Date	

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一: Overview

- This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WLAN antenna.
- Antenna shape size: Meet the requirement of MID
- Antenna band: 2400MHz~2500MHz,
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID
- Antenna performance meet the spec below:

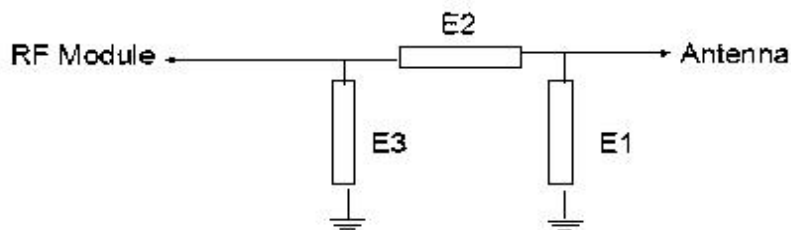
Description	2.4GHz~2.5GHz	Units
VSWR	≤ 2.0	dB
Average Antenna Gain	≥ -4.5	
Antenna Efficiency	≥ 40	
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

● Mechanical Information

Mechanical Dimension	
Cable Length	250mm/Black
Description	WLAN 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

二: Matching circuit, antenna diagram

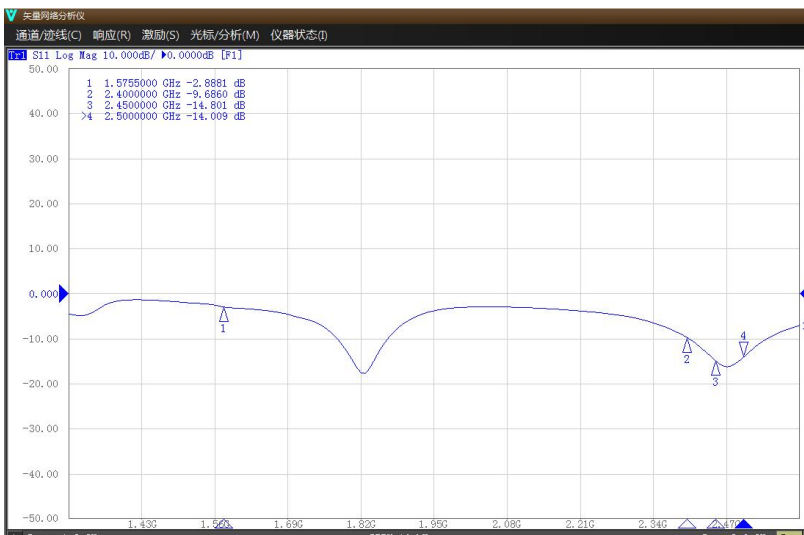
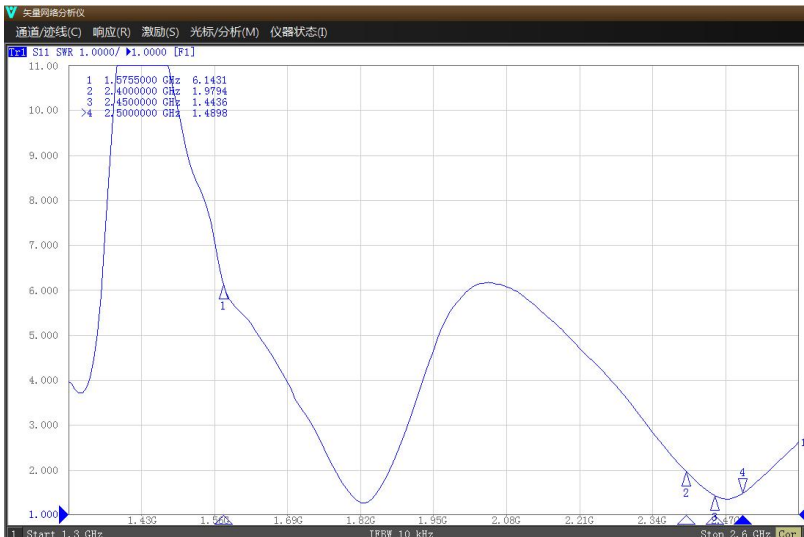
2.1 Matching circuit



2.2 Antenna diagram



三: Standing wave diagram



四:Efficiency, Gain

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	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

