

天线规格书
Antenna specification for approval

客户名称 Customer name			
机型 Model			
天线频段 Antenna frequency	2.4GHZ&5GHz		
天线功能 Antenna function	WIFI&BT&5Gwifi		
天线材质 Antenna material	FPC	FPC FPC color	black
型号 model	SF1974B-1B2-A		
料号 Material number	SF1974B-1L24G-147-A		
客户料号 Customer Part Number			
索沃德承认签章 Ward accepted the signature		客户承认签章 Client acknowledges signature	
结构 structure	采购 Purchase		
文控 Document control	结构 structure		
射频 radio frequency	工程 engineering		
审核 To examine	品质 QC		
承办人 Responsible	审核 To examine		
日期 date 2022.06.06	盖章区 Seal area	日期 date 2022.06.06	盖章区 Seal area

(1)Antenna performance

- 1.This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI&BT antenna.
- 2.Antenna shape size: Meet the requirement of MID
- 3.Antenna band: 2.4GHz~5GHz
- 4.Antenna material: Antenna material meet the requirement of MID
- 5.Adhesive performance: Adhesive performance meet the requirement of MID
- 6.Antenna performance meet the spec below:

Description	2.4GHz~5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain		
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	147mm/GRAY
Description	WIFI&BT antenna
Material	FPC
Coaxial Cable	500hm/0. D. 0. 81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C



VSWR

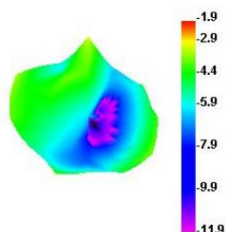


Passive Test For 2.4Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	24.11	-6.18	-1.92	-4.07	10.805	13.304	-1.92	-15.68
2410	25.57	-5.92	-1.84	-3.99	12.001	13.573	-1.84	-14.04
2420	26.71	-5.73	-1.59	-3.74	13.066	13.643	-1.59	-13.54
2430	27.37	-5.63	-1.75	-3.9	14.015	13.359	-1.75	-13.31
2440	29.26	-5.34	-1.47	-3.62	15.536	13.726	-1.47	-13.38
2450	31.63	-5	-1.55	-3.7	17.422	14.21	-1.55	-13.2
2460	33.08	-4.8	-1.49	-3.64	18.57	14.508	-1.49	-12.53
2470	33.83	-4.71	-1.38	-3.53	19.225	14.608	-1.38	-11.34
2480	33.86	-4.7	-1.28	-3.43	19.252	14.612	-1.28	-10.15
2490	34.55	-4.62	-1.21	-3.36	19.835	14.717	-1.21	-10.19
2500	31.91	-4.96	-1.61	-3.76	18.532	13.38	-1.61	-11.64

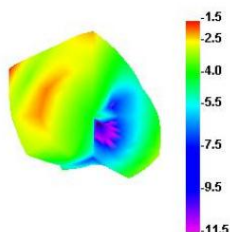
Passive Test For 5Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
5000	34.2	-4.66	1.24	-0.91	14.999	19.198	1.24	-17.36
5100	35.8	-4.46	0.98	-1.17	15.704	20.094	0.98	-17.04
5200	37.93	-4.21	0.44	-1.71	16.58	21.351	0.44	-18.67
5300	39.71	-4.01	0.56	-1.59	17.459	22.253	0.56	-17.44
5400	49.67	-3.04	1.7	-0.45	23.03	26.641	1.7	-14.57
5500	47.51	-3.23	1.66	-0.49	22.818	24.693	1.66	-15.41
5600	46.21	-3.35	2.45	0.3	21.893	24.317	2.45	-18.09
5700	53.01	-2.76	2.82	0.67	24.658	28.348	2.82	-15.99
5800	53.73	-2.7	3.34	1.19	24.859	28.868	3.34	-21.13
5900	57.94	-2.37	4	1.85	27.232	30.711	4	-17.58
6000	67.32	-1.72	4.58	2.43	32.955	34.365	4.58	-11.98

3D pattern

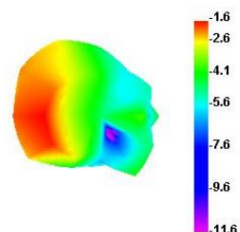
2400.000MHz



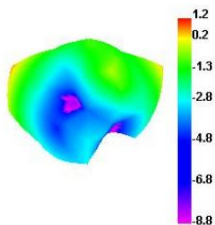
2450.000MHz



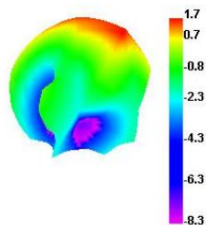
2500.000MHz



5000.000MHz



5500.000MHz



6000.000MHz

