

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	SF1974A-1B2-A		
料号 Material number	SF1974A-1L24B-099-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:

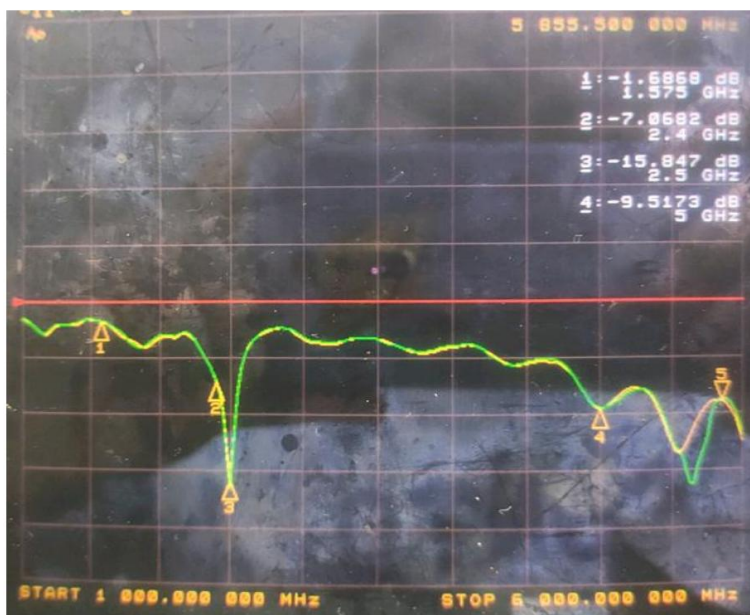
Description	2.4GHz~5GHz	Units
VSWR	≤2.0	
Average Antenna Gain		
Antenna Efficiency	≥40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	099mm/BLACK
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

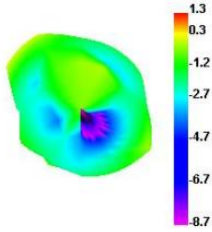


Passive Test For 2.4Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	38.04	-4.2	1.31	-0.84	15.762	22.283	1.31	-19.57
2410	36.4	-4.39	1.19	-0.96	14.957	21.444	1.19	-17.03
2420	36.72	-4.35	1.17	-0.98	14.924	21.8	1.17	-14.85
2430	37.84	-4.22	1.53	-0.62	15.043	22.797	1.53	-13.34
2440	40.74	-3.9	1.91	-0.24	15.939	24.801	1.91	-12.66
2450	43.17	-3.65	2.45	0.3	16.882	26.29	2.45	-11.82
2460	44.35	-3.53	2.58	0.43	17.783	26.564	2.58	-11.4
2470	46.21	-3.35	2.96	0.81	19.133	27.077	2.96	-11.16
2480	50.37	-2.98	3.26	1.11	21.578	28.797	3.26	-11.12
2490	55.52	-2.56	3.71	1.56	24.506	31.012	3.71	-11.18
2500	56.41	-2.49	3.58	1.43	25.574	30.837	3.58	-11.32

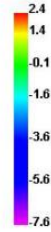
Passive Test For 5Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
5000	31	-5.09	0.71	-1.44	15.17	15.828	0.71	-18.75
5100	30.38	-5.17	-0.44	-2.59	14.689	15.692	-0.44	-16.31
5200	33.14	-4.8	0.35	-1.8	16.475	16.669	0.35	-13.43
5300	34.6	-4.61	0.39	-1.76	16.856	17.741	0.39	-13.42
5400	42.67	-3.7	1.12	-1.03	20.603	22.063	1.12	-13.24
5500	42.26	-3.74	0.83	-1.32	19.259	23.002	0.83	-14.99
5600	42.89	-3.68	1.56	-0.59	19.964	22.931	1.56	-14.15
5700	52.82	-2.77	2.6	0.45	23.742	29.077	2.6	-12.36
5800	51.96	-2.84	1.95	-0.2	22.406	29.555	1.95	-12.39
5900	55.22	-2.58	2.93	0.78	24.016	31.202	2.93	-14.48
6000	69.15	-1.6	3.43	1.28	30.013	39.14	3.43	-13.24

3D pattern

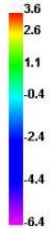
2400.000MHz



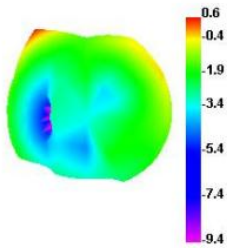
2450.000MHz



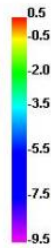
2500.000MHz



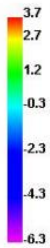
5000.000MHz

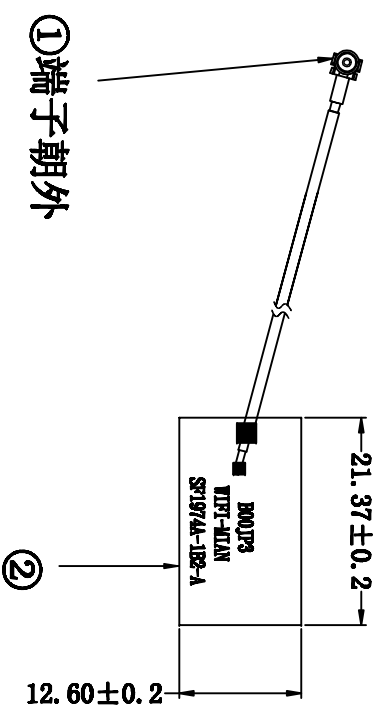
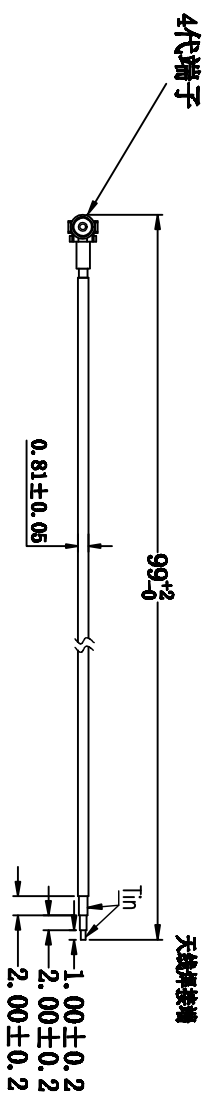


5500.000MHz



6000.000MHz





- 技术要求:
1. 打*为重点尺寸;
 2. 尺寸符合图纸要求;
 3. 焊点无虚焊、假焊, 要求圆润、饱满.
 4. 网分测试通过 (出现指定波形) .
 5. 线形尺寸未注公差按照SJ/T 10628 1995 6级, 公差值由上下偏差均分;

5																			
4																			
3																			
2	FPC		黑色	1	SF1974A-1B2-A	RD	YWD	2022.08.6	Q C										
1	同轴线	4代端子	黑色	1	Φ=0.81mm	RF													
序号	名称	材料	颜色	数量	描述	审核													

SWARD				阶段标记		比例		共 1 张 第 1 张	
SF1974A-1L24B-099-A				1		A		1 : 1	
索沃德通讯技术有限公司				ROHS		共 1 张 第 1 张		共 1 张 第 1 张	