
Antenna specification for approval

Customer name:

Model :VT988

Antenna type :BT/WIFI antenna

Antenna frequency band: 2.4G/5.8G

Material : FPC

Color : Black

Material Number:F825L-1L23B-040-A Production date:2024-06-17

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, 5150MHz~5850MHz
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID

Antenna performance SPEC overview

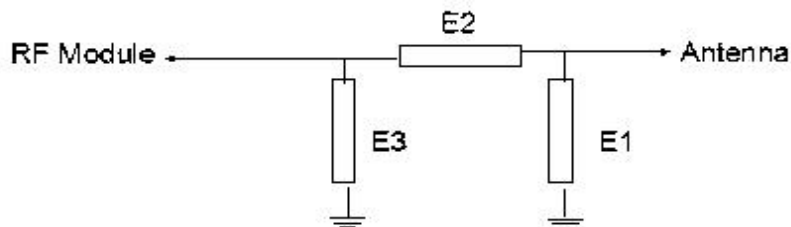
Description	2.4GHz~2.5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ 1.0	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

• Mechanical Information

Mechanical Dimension	
Cable Length	40mm/Black
Description	BT/WIFI antenna
Material	FPC
Coaxial Cable	50Ohm/O.D.0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

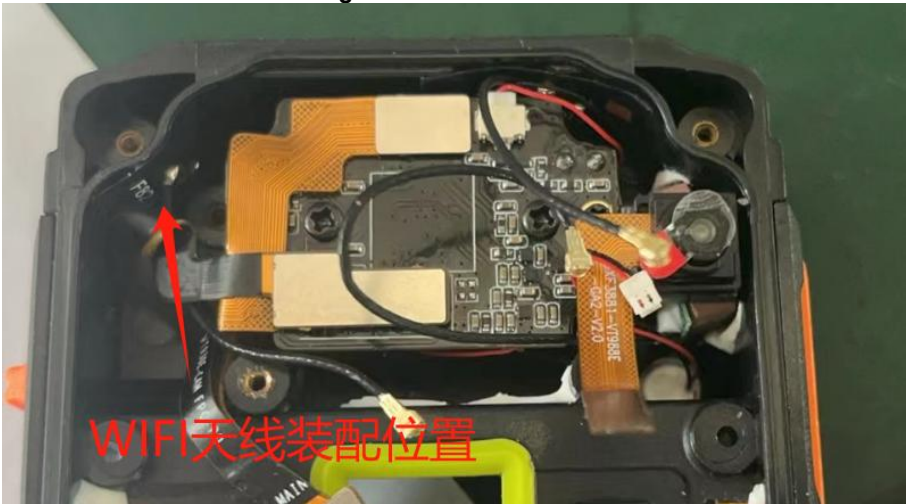
2:Match the circuit diagram, antenna images

2.1 Match the circuit diagram



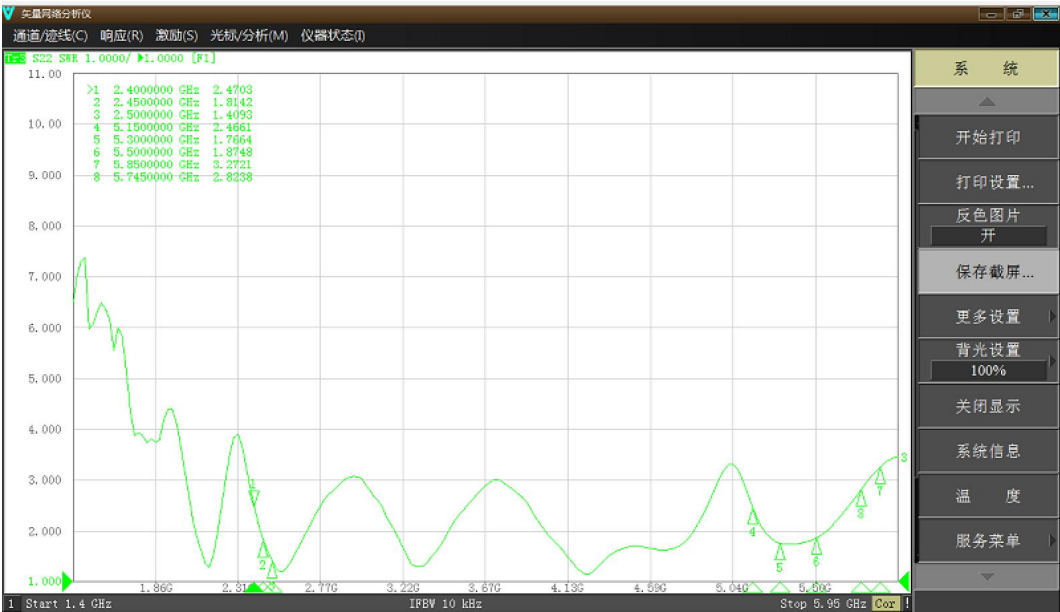
Our company did not modify the antenna matching

2.2 Machine and Antenna images



3: VSWR、Efficiency

3.1 VSWR

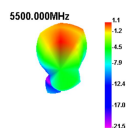
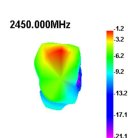


3.2 Efficiency

Test Result	2G TRP		
	1	7	13
Frequency (MHz)	2412	2442	2472
TRP (dBm)	8.86	9.09	9.37
NHPRP (dBm)	5.96	7.15	7.35
MAX (dBm)	13.33	13.55	14.32
EIRP peak	13.33	13.55	14.32
Min (dBm)	-5.85	-5.15	-2.25
Attenuation Horizontal	20.68	20.8	21.12
Attenuation Vertical	21.16	21.06	21.2
Test Result	5G TIS		
	13		
Frequency (MHz)	2472		
TIS (dBm)	-80.5		
NHPIS (dBm)	-78.48		
RSSIAve	9.22		
MaxPosRSSI	13.87		
MaxPosSens	-85.15		
MAX (dBm)	14.17		
EIS peak	14.17		
Min (dBm)	-2.41		
Attenuation Horizontal	20.96		
Attenuation Vertical	21.05		

Passive Test For 2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	24.01	-8.54	-4.27	-6.42	6.013	7.994	-4.27	-26.62	38.47	38.51
2410	25.23	-8.17	-3.97	-6.12	6.509	8.716	-3.97	-28.48	38.6	38.72
2420	26.23	-7.9	-3.46	-5.61	7.073	9.154	-3.46	-25.18	38.63	38.73
2430	27.15	-7.66	-3.02	-5.17	7.611	9.538	-3.02	-21.42	38.6	38.55
2440	27.86	-7.48	-2.56	-4.71	8.255	9.6	-2.56	-19.38	38.69	38.76
2450	28.08	-7.43	-2.49	-4.64	8.604	9.473	-2.49	-17.64	38.78	38.96
2460	27.1	-7.67	-2.42	-4.57	8.65	8.452	-2.42	-16.28	38.8	38.94
2470	26.1	-7.93	-2.75	-4.9	8.425	7.674	-2.75	-15.83	38.92	39.36
2480	24.57	-8.37	-3.26	-5.41	8.088	6.48	-3.26	-16.24	39.08	39.38
2490	23.37	-8.74	-4.02	-6.17	7.742	5.623	-4.02	-16.97	39.14	39.59
2500	22.5	-9.03	-4.87	-7.02	7.559	4.939	-4.87	-16.89	39.08	39.61

Passive Test For 5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	26.86	-5.71	-1.13	-3.28	10.932	15.929	-1.13	-26.27	59.23	59.32
5200	26.81	-5.72	-1.3	-3.45	10.989	15.82	-1.3	-27.18	59.75	60.14
5250	25.81	-5.88	-1.38	-3.53	10.657	15.15	-1.38	-24.05	59.41	59.7
5300	26.8	-5.72	-1.02	-3.17	11.13	15.668	-1.02	-22.49	59.2	59.59
5350	27.79	-5.56	-0.74	-2.89	11.697	16.095	-0.74	-20.23	59.54	59.91
5400	25.75	-5.89	-0.84	-2.99	10.9	14.849	-0.84	-18.57	59.75	59.82
5450	28.12	-5.51	-0.26	-2.41	12.011	16.108	-0.26	-16.91	59.32	59.84
5500	27.25	-5.65	-0.34	-2.49	11.759	15.488	-0.34	-16.01	59.13	59.04
5550	29.94	-5.24	0.24	-1.91	13.056	16.88	0.24	-14.86	59.31	59.64
5600	29	-5.38	0.14	-2.01	12.805	16.196	0.14	-14.71	59.7	59.95
5650	28.73	-5.42	0.2	-1.95	12.845	15.882	0.2	-14.67	59.69	59.84
5700	32.19	-4.92	0.72	-1.43	14.521	17.665	0.72	-14.06	59.48	60.07
5750	30.37	-5.18	0.29	-1.86	13.846	16.522	0.29	-13.53	59.3	59.61
5800	32.45	-4.89	0.53	-1.62	14.904	17.548	0.53	-12.57	59.6	60.25
5850	33.45	-4.76	0.51	-1.64	15.4	18.046	0.51	-12.33	59.91	60.34



4: Structural drawings

