

Antenna specification for approval

Customer Name: Zhaoxing Machine type:
Material requirement: PCB P/ Antenna band: 2.4G
N: F066A-2R24B-300-A Color: Green
Version: A Date of manufacture: 2024-10-28

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

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一: summarize

- This approval sheet supports for MID project. PCB antennas include in this project. This report is for the performance of WILAN 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:

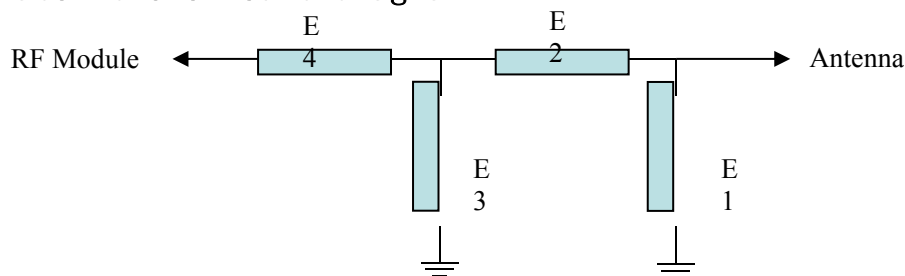
Description	2.4GHz~2.5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

● Mechanical Information

Mechanical Dimension	
Cable Length	300mm/Black
Description	WLAN antenna
Material	PCB
Coaxial Cable	50Ohm/O.D.0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

二: Match circuit diagram and antenna picture

2.1 Match the circuit diagram



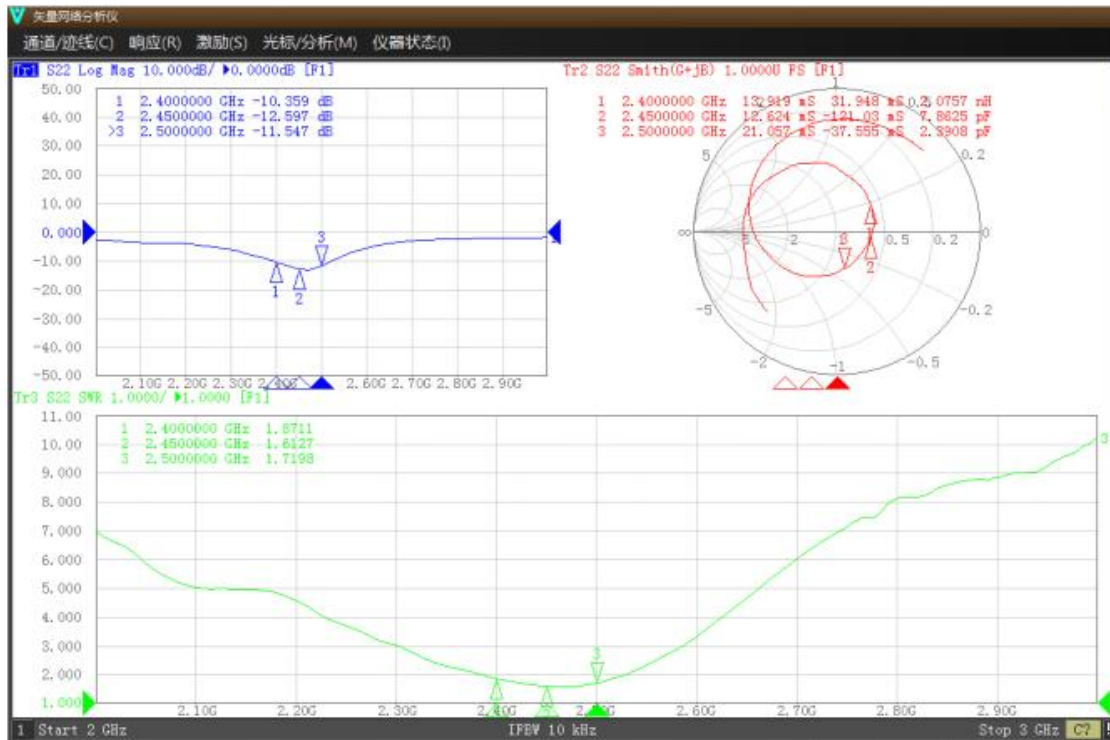
We have not modified the antenna matching

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三: Return loss, efficiency

3.1 standing wave ratio



3.2. Efficiency

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	39.07	-4.08	1.25	-1.9	18.045	21.027	1.25	-15.31	48.04	48.09
2410	39.59	-4.02	1.27	-1.88	18.404	21.183	1.27	-16.5	47.59	47.64
2420	38.75	-4.12	1.08	-2.07	18.111	20.635	1.08	-16.96	47.92	48.01
2430	36.42	-4.39	0.24	-2.39	17.048	19.368	0.24	-17.63	47.46	47.57
2440	35.63	-4.48	0.51	-2.66	16.794	18.839	0.51	-17.43	47.72	47.88
2450	37.77	-4.23	0.24	-2.39	18.052	19.721	0.24	-16.83	47.65	47.81
2460	36.89	-4.33	0.28	-2.43	17.798	19.09	0.28	-15.99	47.84	47.97
2470	37.1	-4.94	0.79	-2.94	15.683	16.413	0.79	-16.3	47.92	48.04
2480	36.58	-4.87	0.56	-2.71	15.989	16.591	0.56	-15.47	47.86	47.88
2490	36.76	-4.35	0.03	-2.12	18.077	18.683	0.03	-14.66	48.2	48.18
2500	37.14	-4.67	0.3	-2.45	16.839	17.304	0.3	-15.37	48.05	47.98

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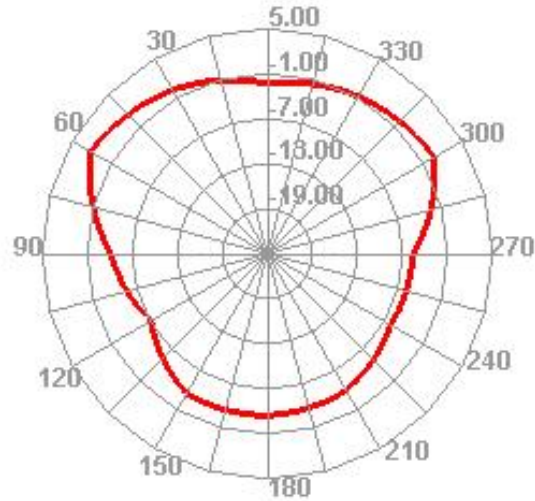
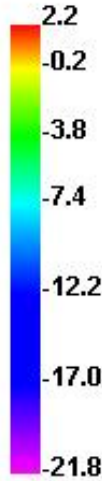
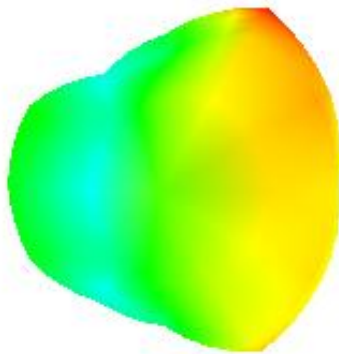
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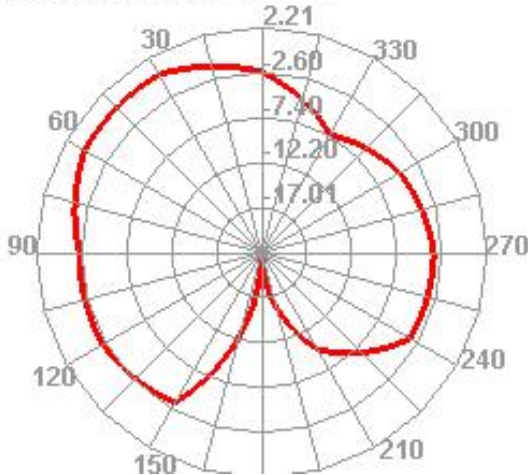
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四：3D pattern (WIFI band middle frequency 2450MHz)

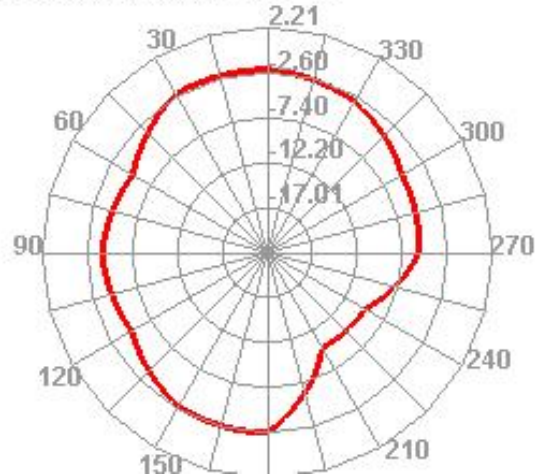
2450.000MHz



2450.000MHz E1



2450.000MHz E2



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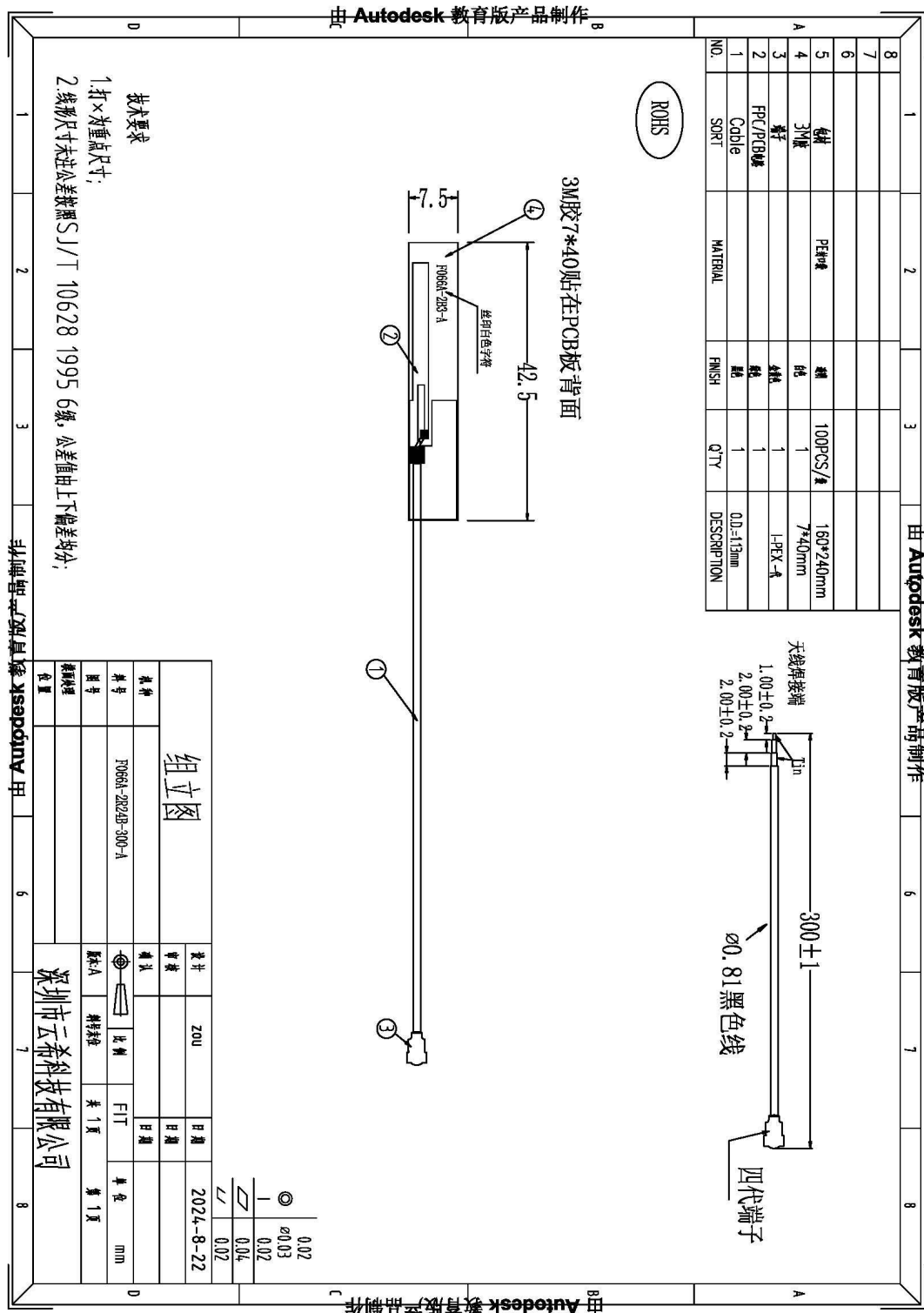
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五：Structural drawing



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