

深圳市千目通讯科技有限公司

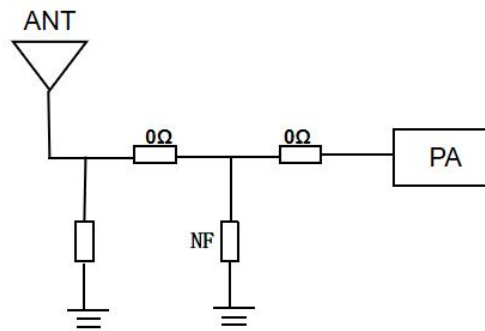
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Acknowledgement

Applicable model	U1.5		
Customer	Frech Technologies		
Specification description			
	Product content	Specification	Customer material code
Specification description	Antenna	FPC/black/character QM-U1.5-V1.1 + generation terminal/black/0.81 * 85mm	
Change of resume			
Serial number	Date	Version	Brief description of the changes
1	2022-10-13	V1.0	New project
2			
3			

Supplier sample confirmation					
Research and development	Structure	Audit	Judgement		
			PASS FAIL		
Customer sample confirmation					
Electron	Structure	Project	Procurement	Quality	Audit
Reasons for rejection or other precautions:					

1、Matching Circuit

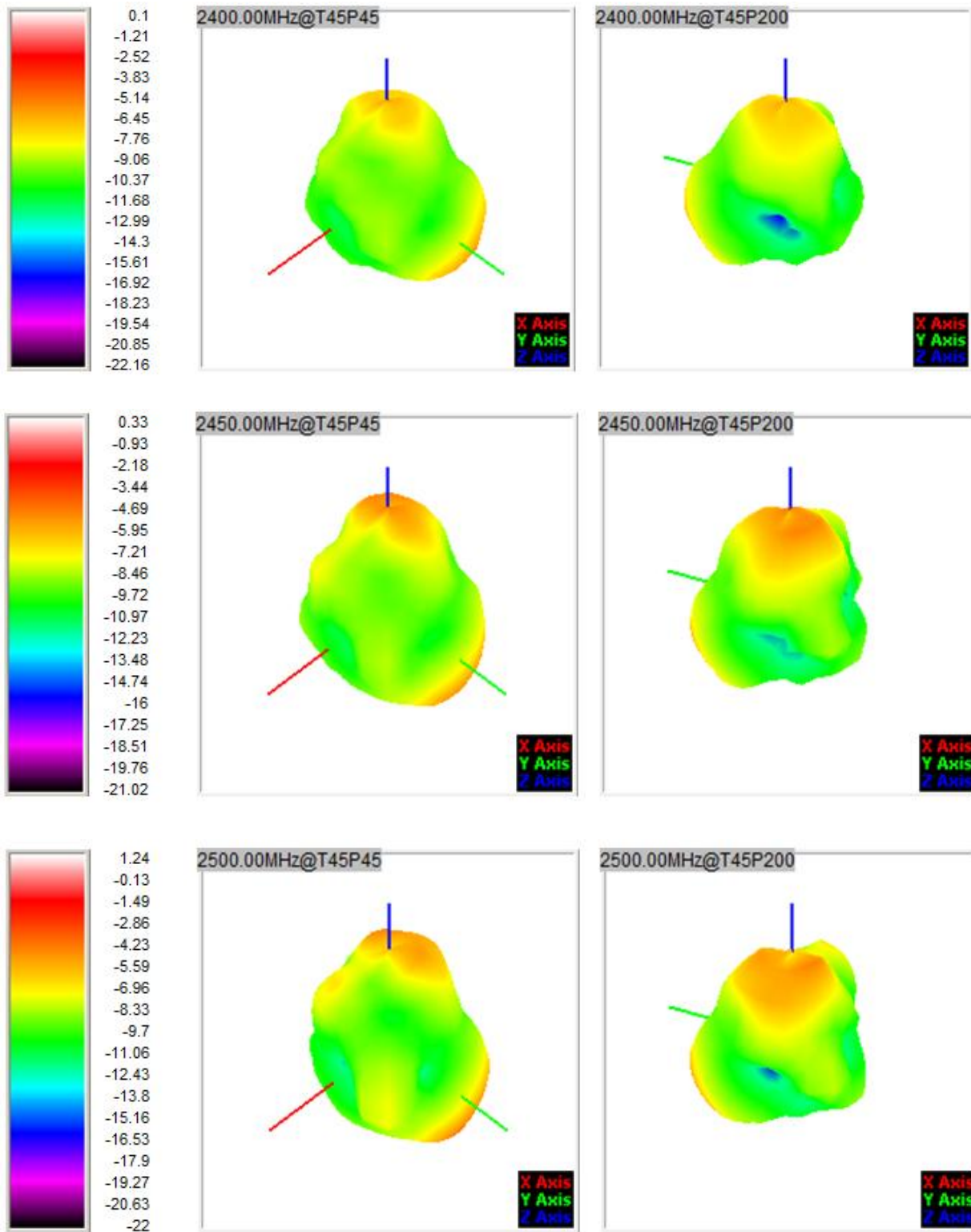


The original matching circuit has not changed

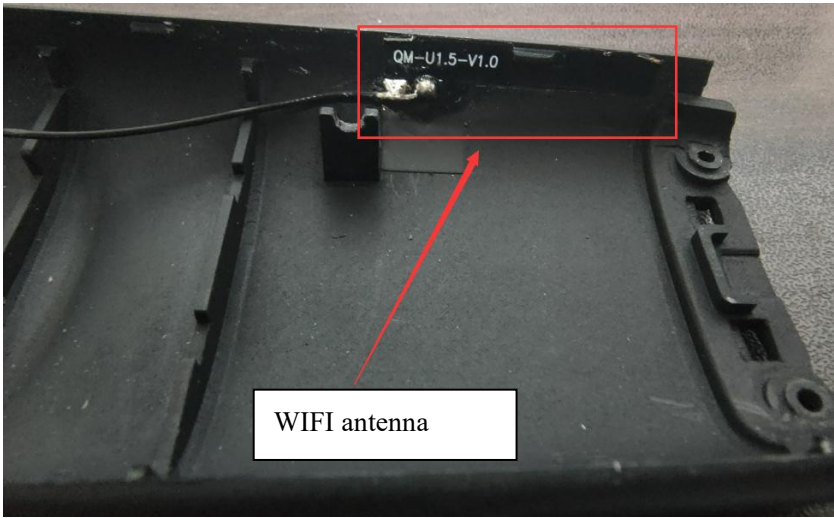
2、Antenna passive efficiency gain data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Point Values											
Ant. Port Input Pwr. (dBm)	0	0	0	0	0	0	0	0	0	0	0
Tot. Rad. Pwr. (dBm)	-6.36	-6.4	-6.33	-6.11	-6.07	-5.78	-5.83	-5.99	-5.91	-5.7	-5.64
Peak EIRP (dBm)	0.1	-0.12	-0.33	-0.16	0.05	0.33	0.31	0.33	0.59	0.99	1.24
Directivity (dBi)	6.47	6.28	5.99	5.96	6.12	6.1	6.15	6.32	6.5	6.69	6.88
Efficiency (dB)	-6.36	-6.4	-6.33	-6.11	-6.07	-5.78	-5.83	-5.99	-5.91	-5.7	-5.64
Efficiency (%)	23.1	22.9	23.3	24.5	24.7	26.5	26.1	25.2	25.7	26.9	27.3
Gain (dBi)	0.1	-0.12	-0.33	-0.16	0.05	0.33	0.31	0.33	0.59	0.99	1.24
NHPRP $\pm\pi/4$ (dBm)	-8.24	-8.3	-8.26	-8.08	-8.09	-7.82	-7.88	-8.02	-7.9	-7.66	-7.58
NHPRP $\pm\pi/6$ (dBm)	-9.73	-9.82	-9.79	-9.63	-9.66	-9.4	-9.47	-9.62	-9.52	-9.28	-9.21
NHPRP $\pm\pi/8$ (dBm)	-10.9	-11	-11	-10.8	-10.9	-10.6	-10.7	-10.9	-10.8	-10.6	-10.5
Upper Hem. PRP (dBm)	-9.3	-9.28	-9.21	-9.05	-9.06	-8.83	-8.94	-9.12	-9.04	-8.87	-8.83
Lower Hem. PRP (dBm)	-9.45	-9.55	-9.46	-9.2	-9.11	-8.74	-8.75	-8.89	-8.79	-8.55	-8.48
Upper Hem. PRP (%)	11.74	11.8	11.99	12.45	12.42	13.08	12.77	12.24	12.47	12.99	13.1
Lower Hem. PRP (%)	11.36	11.1	11.31	12.02	12.28	13.38	13.33	12.92	13.2	13.96	14.2

3、Antenna pattern and apple diagram



4、Antenna placement position



5、Structural drawings

