

深圳市千目通讯科技有限公司

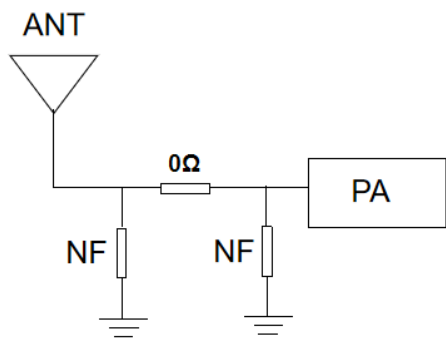
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna acknowledgement

Applicable model	ZB10S-WiFi6		
client	Shenzhen peicheng technology co., ltd		
Specification description			
	Product content	specifications	Customer material code
Specification description	Wifi antenna	FPC/ black/character QM-ZB10S-8800-V1.1 +Third-generation terminal 0.81*175mm+ conductive cloth+padded foam	ZB10SG002
Change resume			
serial number	date	version	Brief description of changes
one	2024-02-23	V1.0	New project
2			
three			

Supplier sample confirmation					
research and development	structure	check	decide		
			PASSp FAIL”		
Customer sample confirmation					
electron	structure	project	purchase	quality	check
Reasons for rejection or other precautions:					

1、WiFi antenna matching

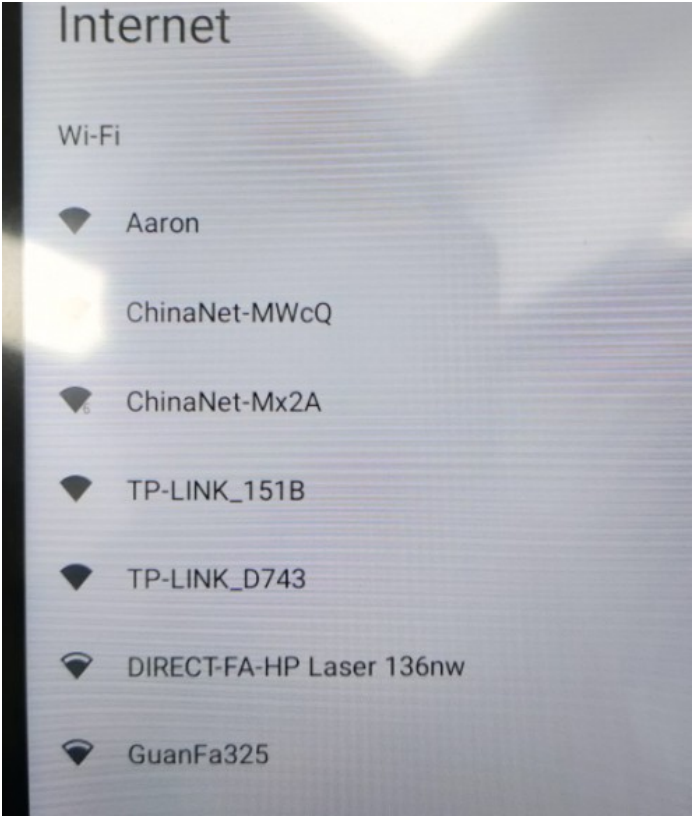


The original matching circuit has not changed.

2、WiFi antenna active data

	WIFI 2400~2500MHz 802.11b 11Mbps		
Channel	one	six	11
TRP	12.84	12.58	12.99
TIS	-77.9	-77.24	-78.43

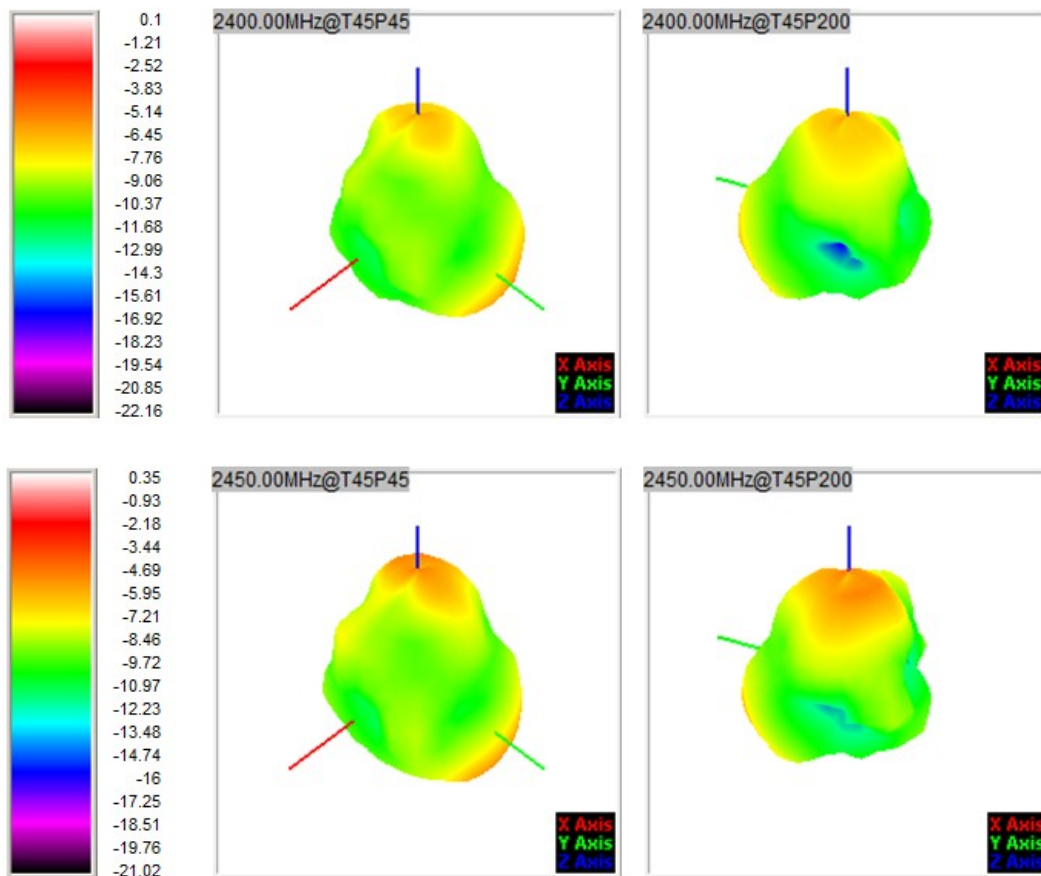
3、WiFi antenna measurement

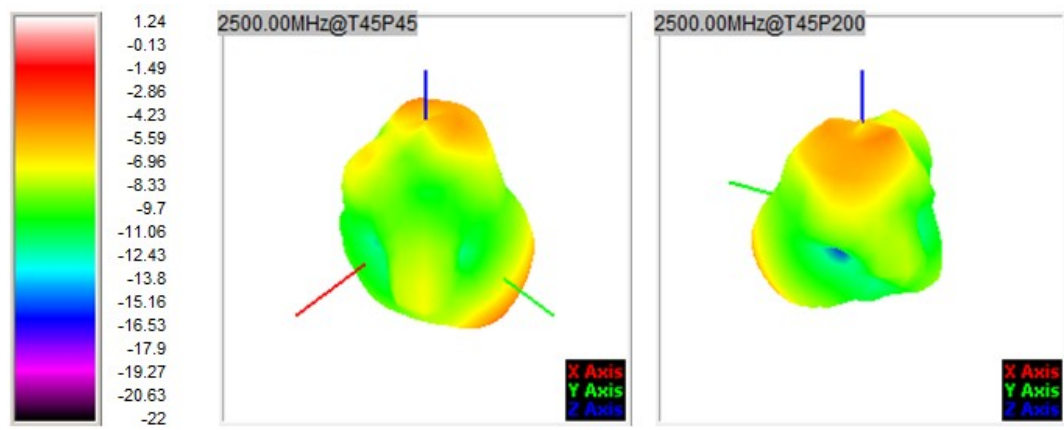


4. Antenna gain and efficiency

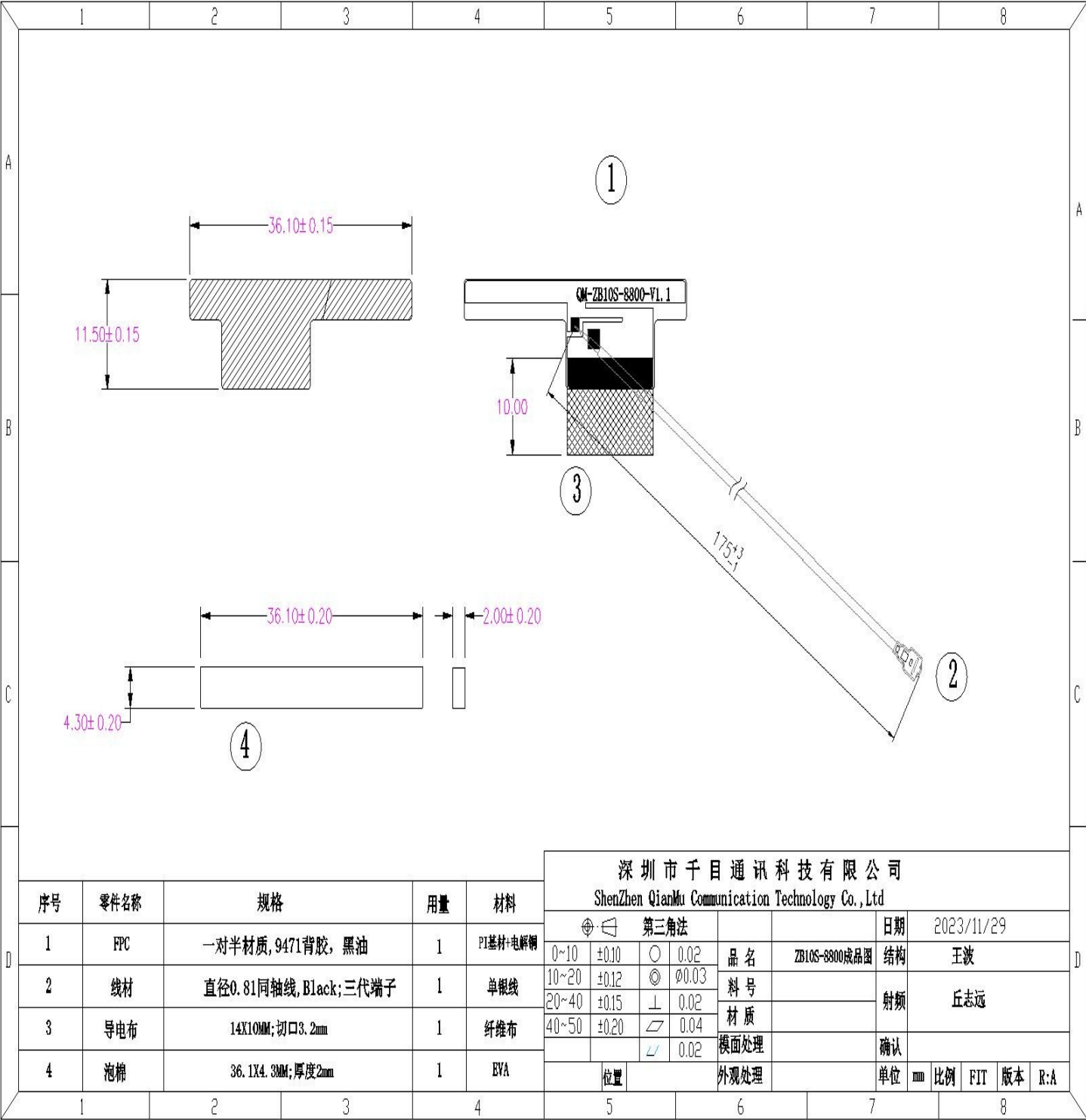
FEITUKEII											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-6.36	-6.40	-6.33	-6.11	-6.07	-5.78	-5.83	-5.99	-5.91	-5.70	-5.64
Peak EIRP (dBm)	0.10	-0.12	-0.33	-0.16	0.05	0.35	0.31	0.33	0.59	0.99	1.24
Directivity (dBi)	6.47	6.28	5.99	5.96	6.12	6.10	6.15	6.32	6.50	6.69	6.88
Efficiency (dB)	-6.36	-6.40	-6.33	-6.11	-6.07	-5.78	-5.83	-5.99	-5.91	-5.70	-5.64
Efficiency (%)	23.10	22.90	23.30	24.50	24.70	26.50	26.10	25.20	25.70	26.90	27.30
Gain (dBi)	0.10	-0.12	-0.33	-0.16	0.05	0.35	0.31	0.33	0.59	0.99	1.24
NHPRP $\pm\pi/4$ (dBm)	-8.24	-8.30	-8.26	-8.08	-8.09	-7.82	-7.88	-8.02	-7.90	-7.66	-7.58
NHPRP $\pm\pi/6$ (dBm)	-9.73	-9.82	-9.79	-9.63	-9.66	-9.40	-9.47	-9.62	-9.52	-9.28	-9.21
NHPRP $\pm\pi/8$ (dBm)	-10.88	-10.99	-10.99	-10.83	-10.87	-10.62	-10.71	-10.87	-10.79	-10.56	-10.50
Upper Hem. PRP (dBm)	-9.30	-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	-9.20	-9.11	-8.74	-8.75	-8.89	-8.79	-8.55	-8.48
Upper Hem. PRP (%)	11.74	11.80	11.99	12.45	12.42	13.08	12.77	12.24	12.47	12.99	13.10
Lower Hem. PRP (%)	11.36	11.10	11.31	12.02	12.28	13.38	13.33	12.92	13.20	13.96	14.20

5. Antenna pattern and Apple map





6. Structural drawings of WiFi antenna



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ShenZhen QianMu Communication Technology Co.,Ltd											
		第三角法				日期		2023/11/29			
0~10	±0.10		0.02	品 名	ZB10S-8800成品图	结构	王波				
10~20	±0.12		Ø0.03	料 号		射频	丘志远				
20~40	±0.15		0.02	材 质							
40~50	±0.20		0.04								
			0.02	模面处理		确认					
	位置			外观处理		单位	mm	比例	FIT	版本	R:A