

深圳市千目通讯科技有限公司

Shenzhen Qianmu Communication Technology Co.,Ltd.

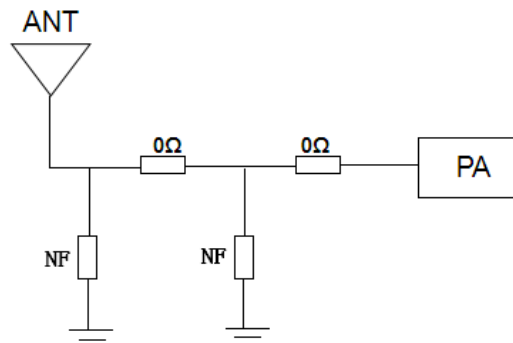
Antenna recognition book

Applicable models	S1 Lite		
Customer	Shenzhen Delitong Intelligent Technology Co., Ltd.		
Specification description			
	Product content	Specifications	Customer material code
Specification description	Bluetooth antenna	Electronic wire,Φ0.6*30mm, single-headed tin, black	312.0020625100
Change the resume			
Serial number	Date	Edition	Change content description
1	2022-11-18	V1.0	New projects
2			
3			

Supplier sample confirmation					
Research and develop	Organization	Check	Decide		
			PASS ☒ FAIL ☐		
Customer sample confirmation					
Electron	Organization	Project	Purchase	Character	Check
Reasons for rejection or other considerations:					

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1. Matching circuit-BT antenna

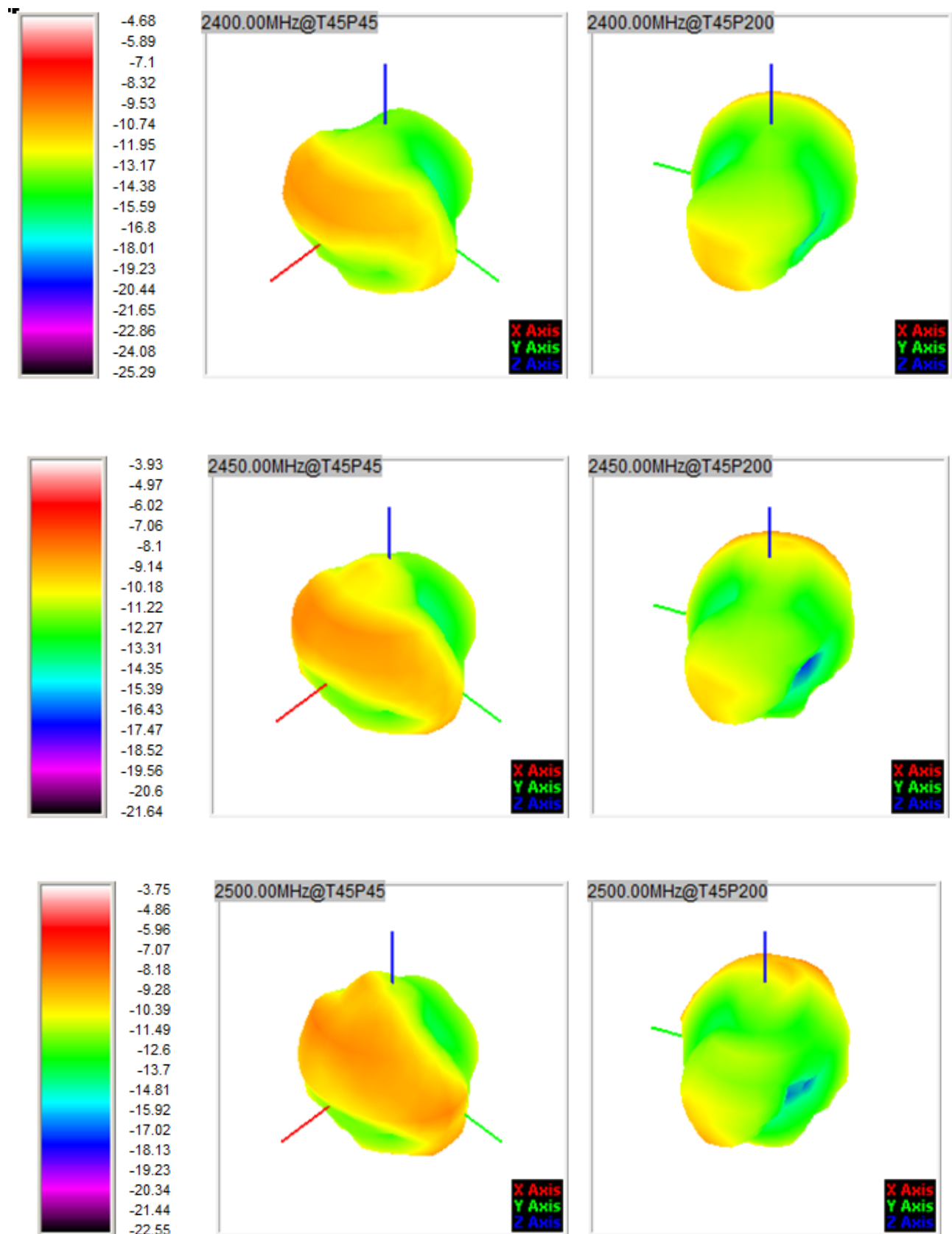


Your original matching circuit has not been changed.

2. Antenna passive efficiency gain data

FEITUKEJI											
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)	-9.54	-9.61	-9.46	-9.38	-9.30	-9.05	-9.02	-9.18	-9.05	-8.89	-8.76
Peak EIRP (dBm)	-4.68	-4.67	-4.49	-4.42	-4.31	-3.93	-3.78	-3.95	-3.98	-3.83	-3.75
Directivity (dBi)	4.86	4.94	4.97	4.95	5.00	5.11	5.25	5.23	5.07	5.05	5.01
Efficiency (dB)	-9.54	-9.61	-9.46	-9.38	-9.30	-9.05	-9.02	-9.18	-9.05	-8.89	-8.76
Efficiency (%)	11.10	10.90	11.30	11.50	11.70	12.50	12.50	12.10	12.40	12.90	13.30
Gain (dBi)	-4.68	-4.67	-4.49	-4.42	-4.31	-3.93	-3.78	-3.95	-3.98	-3.83	-3.75
NHPRP ±Pi/4 (dBm)	-10.95	-11.08	-11.00	-10.98	-10.97	-10.77	-10.81	-11.01	-10.91	-10.76	-10.63
NHPRP ±Pi/6 (dBm)	-12.46	-12.61	-12.55	-12.56	-12.58	-12.42	-12.47	-12.68	-12.57	-12.38	-12.25
NHPRP ±Pi/8 (dBm)	-13.60	-13.77	-13.71	-13.73	-13.76	-13.62	-13.68	-13.85	-13.70	-13.48	-13.33
Upper Hem. PRP (dBm)	-12.45	-12.48	-12.31	-12.26	-12.25	-12.07	-12.09	-12.29	-12.20	-12.05	-11.90
Lower Hem. PRP (dBm)	-12.64	-12.76	-12.64	-12.51	-12.37	-12.05	-11.98	-12.09	-11.93	-11.75	-11.64
Upper Hem. PRP (%)	5.68	5.65	5.87	5.94	5.95	6.21	6.18	5.90	6.03	6.24	6.46
Lower Hem. PRP (%)	5.44	5.30	5.45	5.60	5.79	6.24	6.34	6.18	6.40	6.68	6.85

3、Antenna direction diagram and apple diagram



4、Antenna placement



Bluetooth Cable Placement

5、Actual measurement of BT antenna



APP Bluetooth test, Android mobile phone connection bracelet, bracelet lookup mobile phone (indoor) test about 30 meters away without obstacles.

6. Structural drawings

