

深圳市千目通讯科技有限公司

Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Acknowledgement

Applicable model	Scanmarker Pro		
Customer	Shenzhen Beibo Intelligent Technology Co., Ltd.		
Specification description			
	Product content	Specification	Customer material code
Specification description	RF antenna	FPC/Black/Character QM-X12-BB	01. BBDX120006
Change of resume			
Serial number	Date	Version	Brief description of the changes
1	2022-11-01	V1.0	New project
2			
3			

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

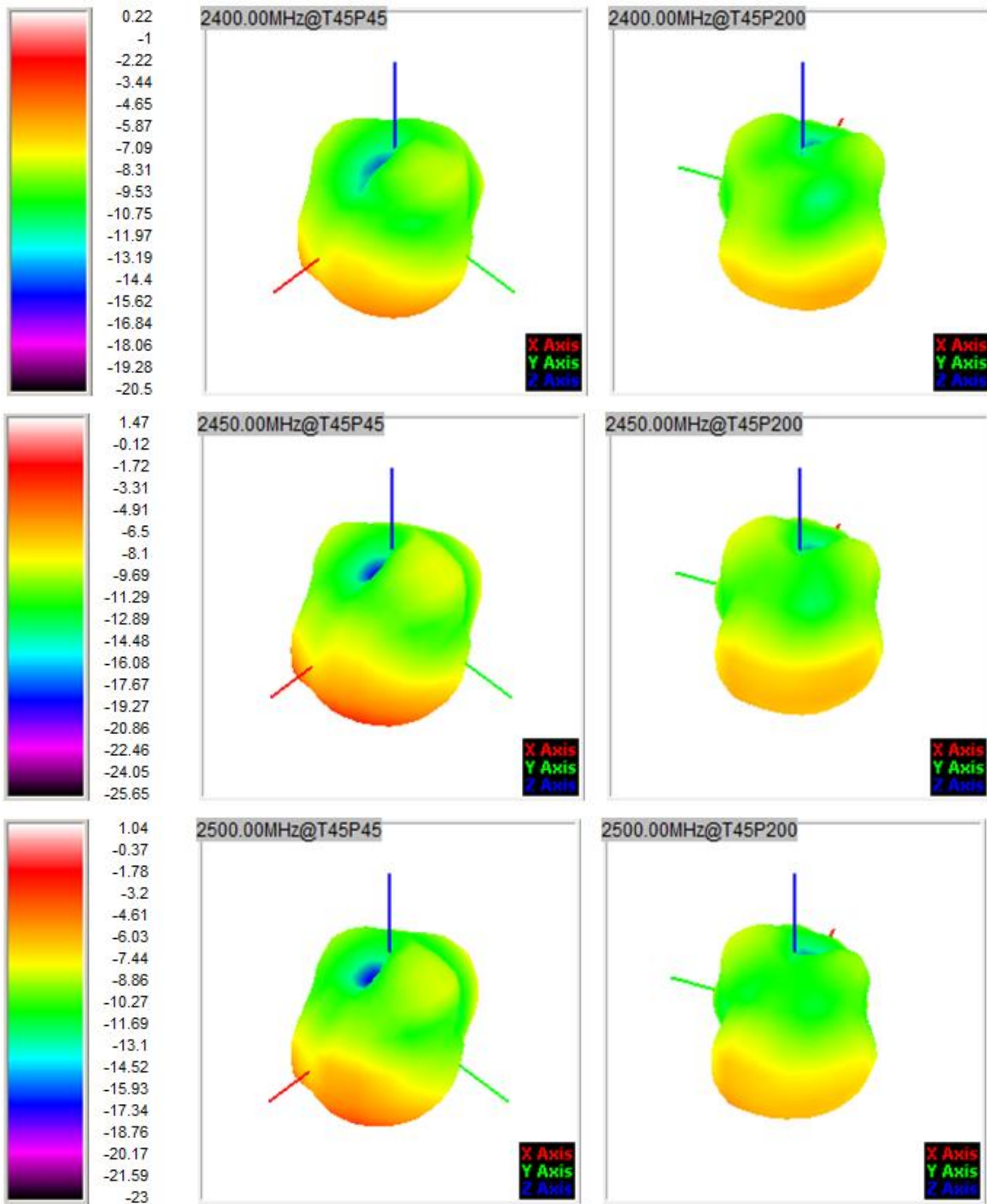
1. WIFI test data

	2400~2500Mz		
Channel	1	7	13
TRP	14. 8	15. 09	16. 18
TIS	-77. 61	-80. 08	-80. 39

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
Ant. Port Input Pwr. (dBm)	0	0	0	0	0	0	0	0	0	0	0
Tot. Rad. Pwr. (dBm)	-4. 97	-4. 85	-4. 67	-4. 38	-4. 28	-4. 05	-4. 27	-4. 71	-4. 9	-5	-5. 14
Peak EIRP (dBm)	-0. 72	-0. 59	-0. 5	-0. 35	-0. 51	0	0. 09	-0. 28	-0. 64	-0. 81	-0. 82
Directivity (dBi)	4. 25	4. 27	4. 18	4. 03	3. 78	4. 05	4. 37	4. 43	4. 26	4. 19	4. 32
Efficiency (dB)	-4. 97	-4. 85	-4. 67	-4. 38	-4. 28	-4. 05	-4. 27	-4. 71	-4. 9	-5	-5. 14
Efficiency (%)	31. 9	32. 7	34. 1	36. 5	37. 3	39. 3	37. 4	33. 8	32. 4	31. 6	30. 6
Gain (dBi)	-0. 72	-0. 59	-0. 5	-0. 35	-0. 51	0	0. 09	-0. 28	-0. 64	-0. 81	-0. 82
NHPRP $\pm \pi/4$ (dBm)	-6. 86	-6. 72	-6. 52	-6. 23	-6. 15	-5. 94	-6. 18	-6. 61	-6. 78	-6. 86	-6. 99
NHPRP $\pm \pi/6$ (dBm)	-8. 55	-8. 38	-8. 16	-7. 84	-7. 76	-7. 57	-7. 82	-8. 26	-8. 44	-8. 5	-8. 63
NHPRP $\pm \pi/8$ (dBm)	-9. 8	-9. 63	-9. 4	-9. 06	-8. 97	-8. 77	-9. 02	-9. 47	-9. 65	-9. 71	-9. 81
Upper Hem. PRP (dBm)	-6. 85	-6. 75	-6. 59	-6. 34	-6. 3	-6. 14	-6. 43	-6. 94	-7. 19	-7. 36	-7. 57
Lower Hem. PRP (dBm)	-9. 51	-9. 37	-9. 14	-8. 78	-8. 59	-8. 24	-8. 34	-8. 68	-8. 78	-8. 77	-8. 83
Upper Hem. PRP (%)	20. 67	21. 14	21. 92	23. 24	23. 45	24. 35	22. 74	20. 24	19. 09	18. 35	17. 49
Lower Hem. PRP (%)	11. 18	11. 55	12. 19	13. 25	13. 84	15	14. 64	13. 56	13. 26	13. 29	13. 1

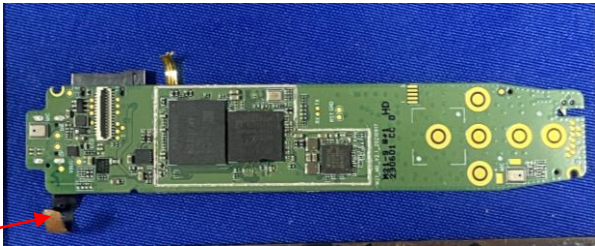
3、Antenna pattern and apple diagram



4. Environmental treatment



Main board and screen grounding



ANT

5. Structural drawings

Note: the FPC to use a half, and the toughness is better, not easy to tear.

○ Peripheral and through holes

● Copper platinum

▨ Base material

● Gold-plated nickel plating

— Zigzag paper break line

□ Backless zone

□ Back glue area

23.80±0.15

4.90±0.15

2.00±0.15

3B

04-X12-BB

Requirement:

1. The A surface represents the FPC copper laying line part, the B surface represents the back 3 M 9471 rubber paper part;

2. FPC total thickness of 0.1mm, is 1Vin~3Vin and gold plated

3. A single layer PI base material, electrolytic copper;

4. Oil film matte black, character bright white;

5. FPC incoming materials around to be neat.

第三角法	FPC	Design	KING	DATE	2022-11-01
0~10 ±0.10	name	X12-BB	RF:zhangweijin	DATE	2022-10-22
10~20 ±0.12	number		ME:king	DATE	
20~40 ±0.15	material spec	PI substrate, electrolytic	Check	DATE	
40~50 ±0.20				DATE	

Proportion:FIT

Unit:mm

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DATE	UPDATE	Remarks	Position
1	2	3	4