

深圳市千目通讯科技有限公司

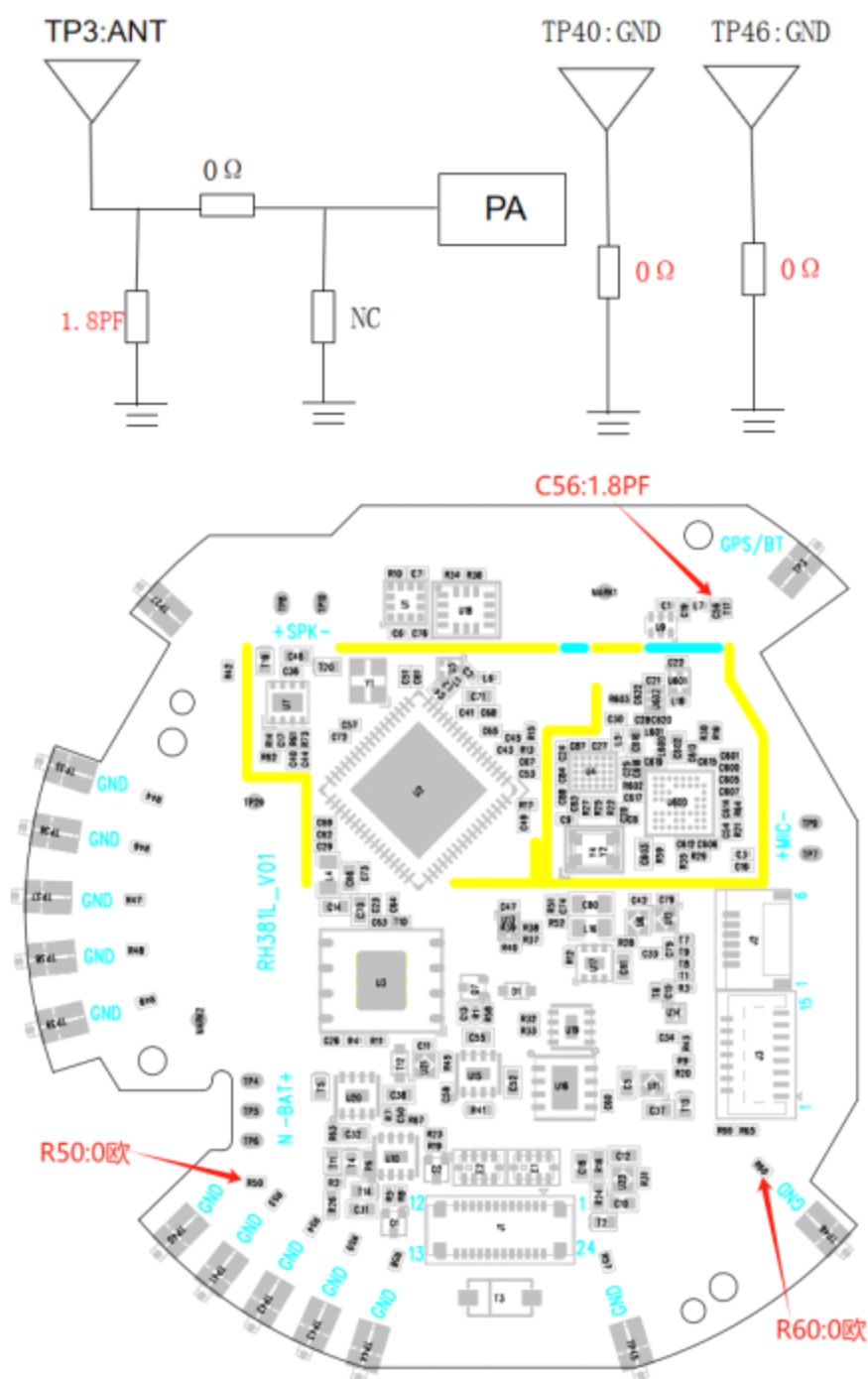
Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Acknowledgement

Applicable model	G304		
Customer	Shenzhen Weiwo Intelligent Electronics Co., Ltd.		
Specification description			
	Product content	Specifications	Customer material code
Specification description	GPS+BT antenna	/	
Change the resume			
Serial number	Date	Edition	Brief description of the content of the change
One	2025-06-17	V1.0	New project
Two			
Three			

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 notes:					

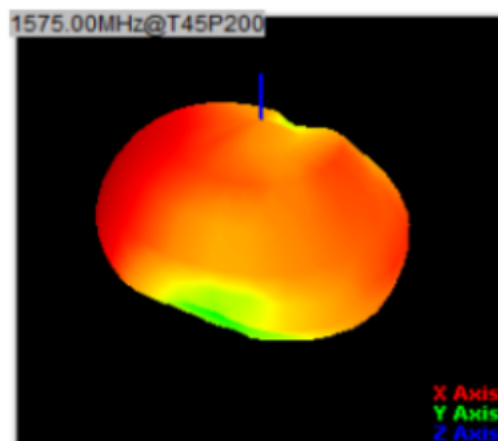
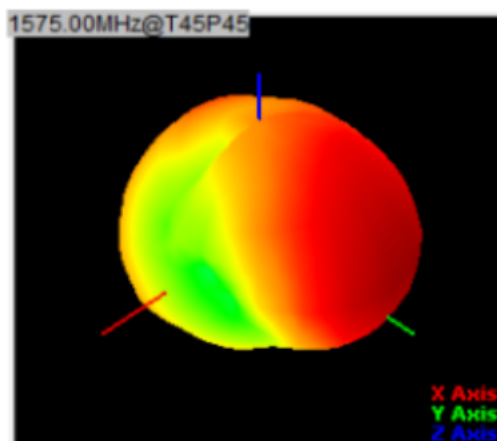
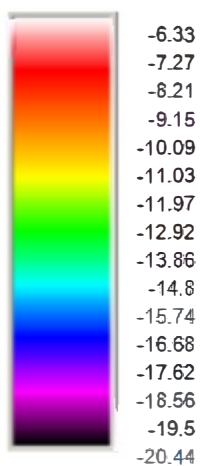
1、Matching circuit-GPS/BT antenna



Your company, please make changes according to the above matching circuits.

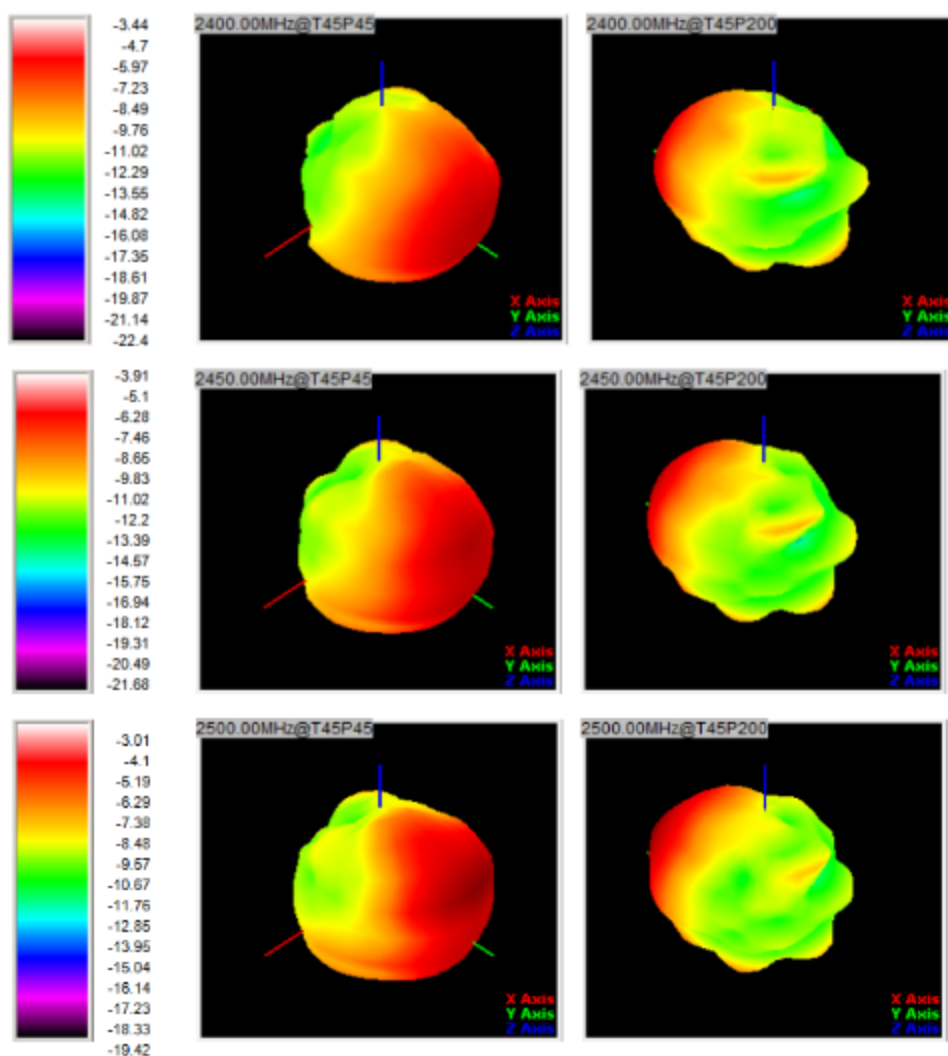
2、GPS antenna efficiency and gain

Frequency ID	1	2	3
Frequency (MHz)	1570	1575	1580
Ant. Port Input Pwr. (dBm)	0	0	0
Tot. Rad. Pwr. (dBm)	-11.95	-11.9	-11.85
Peak Ξ RP (dBm)	-6.35	-6.33	-6.31
Directivity (dBi)	5.59	5.57	5.54
Efficiency (dB)	-11.95	-11.9	-11.85
Efficiency (%)	6.4	6.5	6.5
Gain (dBi)	-6.35	-6.33	-5.53
NHPRP $\pm\pi/4$ (dBm)	-13.24	-13.19	-13.14
NHPRP $\pm\pi/6$ (dBm)	-14.59	-14.53	-14.48
NHPRP $\pm\pi/8$ (dBm)	-15.61	-15.55	-15.51
Upper Hem. PRP (dBm)	-13.86	-13.83	-13.8
Lower Hem. PRP (dBm)	-16.43	-16.35	-16.28
Upper Hem. PRP (%)	4.11	4.14	4.17
Lower Hem. PRP (%)	2.28	2.32	2.36



3、BT antenna efficiency and gain

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)	-9.88	-9.88	-9.88	-9.87	-9.79	-9.71	-9.66	-9.6	-9.43	-9.4	-9.47
Peak EIRP (dBm)	-3.44	-3.53	-3.73	-3.84	-3.82	-3.91	-3.72	-3.51	-3.17	-3.01	-3.05
Directivity (dBi)	6.44	6.35	6.14	6.03	5.97	5.8	5.94	6.08	6.26	6.4	6.42
Efficiency (dB)	-9.88	-9.88	-9.88	-9.87	-9.79	-9.71	-9.66	-9.6	-9.43	-9.4	-9.47
Efficiency (%)	10.3	10.3	10.3	10.3	10.5	10.7	10.8	11	11.4	11.5	11.3
Gain (dBi)	-5.54	-5.53	-5.58	-5.54	-5.59	-5.57	-5.63	-5.65	-5.67	-5.64	-5.7
NHPRP $\pm\pi/4$ (dBm)	-11.25	-11.27	-11.26	-11.26	-11.18	-11.1	-11.06	-11.02	-10.87	-10.86	-10.95
NHPRP $\pm\pi/6$ (dBm)	-12.61	-12.63	-12.64	-12.65	-12.58	-12.52	-12.5	-12.47	-12.35	-12.36	-12.46
NHPRP $\pm\pi/8$ (dBm)	-13.7	-13.71	-13.73	-13.76	-13.7	-13.65	-13.64	-13.63	-13.53	-13.56	-13.67
Upper Hem. PRP (dBm)	-13	-12.96	-12.91	-12.87	-12.77	-12.67	-12.62	-12.55	-12.41	-12.4	-12.49
Lower Hem. PRP (dBm)	-12.78	-12.82	-12.87	-12.89	-12.83	-12.77	-12.72	-12.66	-12.48	-12.43	-12.46
Upper Hem. PRP (%)	5.02	5.06	5.12	5.16	5.29	5.4	5.47	5.55	5.75	5.76	5.63
Lower Hem. PRP (%)	5.27	5.22	5.17	5.14	5.22	5.29	5.35	5.42	5.65	5.72	5.67



4、GPS actual measurement data

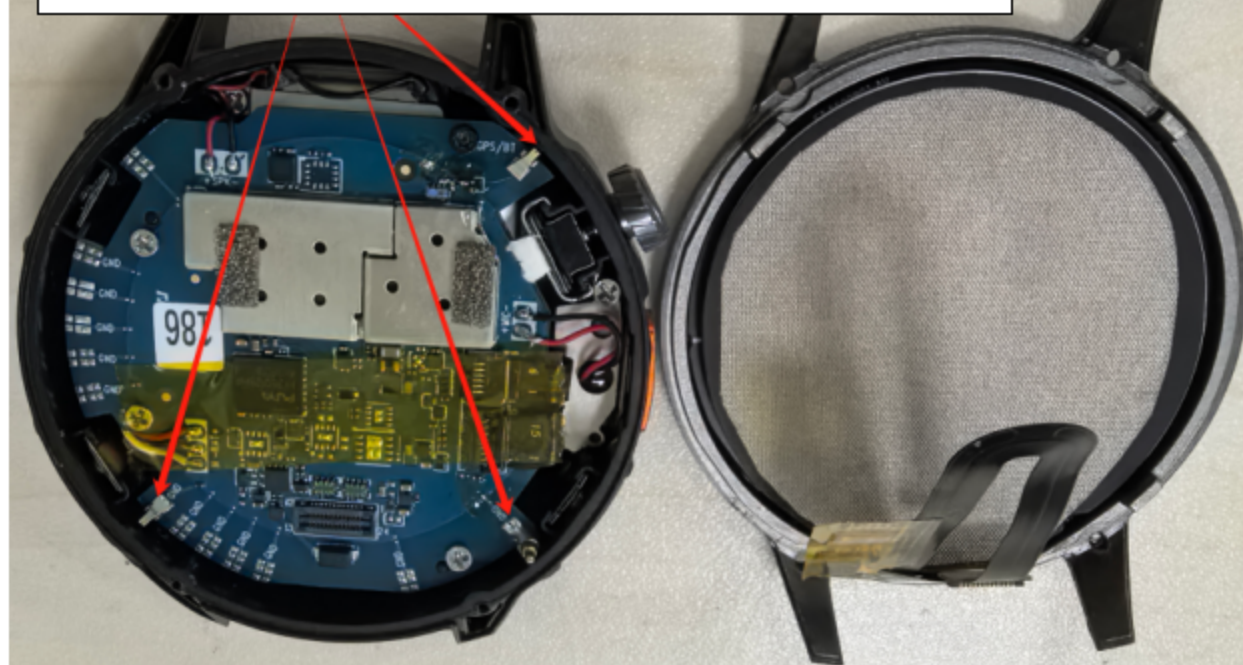


Global Positioning System Manpower Actual test:

open position on the roof, cold start positioning within 40 seconds

5、GPS antenna assembly and bullet usage instructions

The three locations indicated by the arrow are in contact with the metal hardware by attaching spring clips and ejector pins.



The arrow indicates that the motherboard and screen are grounded with conductive foam and cloth

