

Shenzhen Qianmu Communication Technology Co., LTD

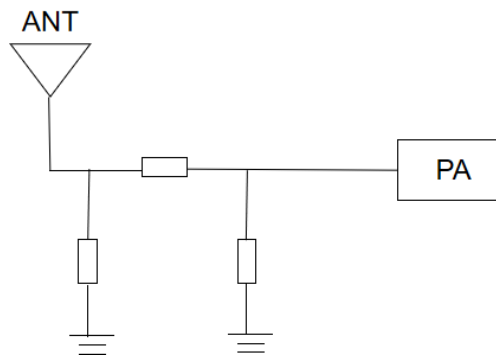
Add: No.425 and No.443, Floor 4, Block A, Huafeng Zhigu-Hangcheng High-tech Industrial Park,
Sanwei Community, Hangcheng Street, Baoan District, Shenzhen

Antenna Acknowledgement

Applicable model	T-Embed(868/915)		
client			
Specifications			
	Product content	Specifications	Customer Material Code
Specifications	Lora(868/915) antenna	Dipole/Black/ T-Embed 0.81*50mm	
Change resume			
Order number	Date	Edition	Edit content summary
1	2025-02-11	V.0	New project
2			
3			

Supplier sample confirmation					
Research and development	Structure	Examine and verify	Judge		
			PASS ☒ FAIL ☐		
Customer sample confirmation					
Electron	Structure	Project	Purchase	Character	Examine and verify
Reason for rejection or other notes:					

1、 Match circuit-main antenna

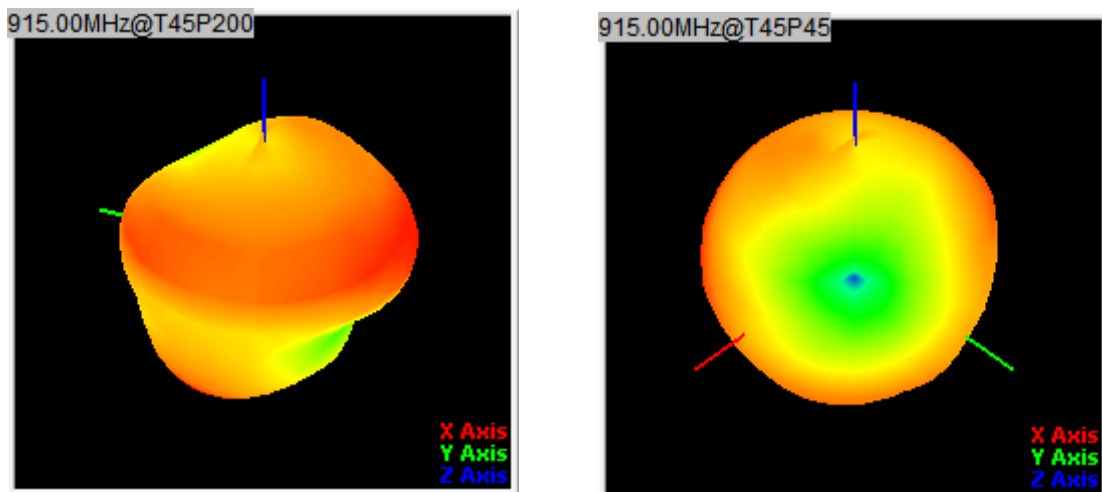


No changes have been made to your original matching circuit

2、 Lora antenna efficiency and gain

Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	865	875	885	895	905	915	925
Ant. Port Input Pwr. (dBm)	0	0	0	0	0	0	0
Tot. Rad. Pwr. (dBm)	-7.1	-6.74	-6.56	-6.45	-6.59	-7.04	-6.93
Peak EIRP (dBm)	-1.17	-1.36	-0.7	-1.43	-1.2	-1.12	-0.85
Directivity (dBi)	5.93	5.39	5.86	5.01	5.39	5.92	6.07
Efficiency (dB)	-7.1	-6.74	-6.56	-6.45	-6.59	-7.04	-6.93
Efficiency (%)	19.5	21.2	22.1	22.7	21.9	19.8	20.3
Gain (dBi)	-1.17	-1.36	-0.7	-1.43	-1.2	-1.12	-0.85
NHPRP $\pm\pi/4$ (dBm)	-8.66	-8.54	-8.48	-8.21	-7.97	-8.33	-8.34
NHPRP $\pm\pi/6$ (dBm)	-10.31	-10.19	-10.11	-9.83	-9.47	-9.83	-9.85
NHPRP $\pm\pi/8$ (dBm)	-11.69	-11.47	-11.27	-10.98	-10.59	-11.03	-11.04
Upper Hem. PRP (dBm)	-9.98	-9.59	-9.53	-9.55	-9.87	-10.38	-9.99
Lower Hem. PRP (dBm)	-10.24	-9.93	-9.6	-9.37	-9.35	-9.74	-9.88
Upper Hem. PRP (%)	10.04	11	11.13	11.09	10.32	9.16	10.02
Lower Hem. PRP (%)	9.46	10.17	10.96	11.57	11.63	10.62	10.28

Antenna pattern



Antenna picture

