

Antenna specification

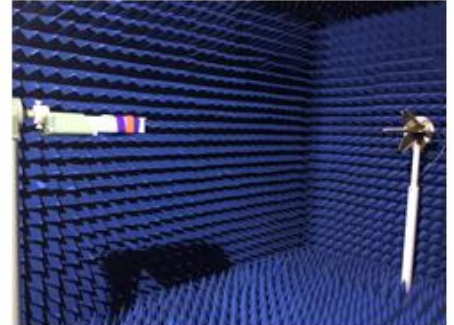
Customer name: _Yawei_

Project name	ST22	Antenna frequency band	BT
Specification description	<input type="checkbox"/> support+shell fragment	<input type="checkbox"/> Single shrapnel	<input type="checkbox"/> support+FPC+thimble
	<input checked="" type="checkbox"/> FPC	<input type="checkbox"/> FM aerial	<input type="checkbox"/> GPS aerial
	silk-screen: ST22		
	<input type="checkbox"/> coaxial-line	<input type="checkbox"/> WIFI aerial: <input type="checkbox"/> FPC+wire rod: <input type="checkbox"/> PCB+wire rod:	
Customer confirmation			

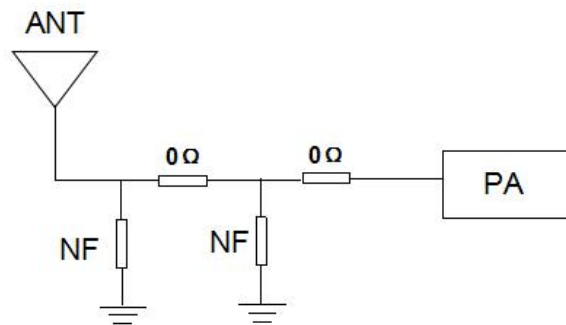
Supplier confirmation	Radio frequency confirmation	Structural confirmation	check
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1. Test environment

	test project	equipment
1. (S-parameter)	1. (Return Loss) 2. (VSWR)	: Agilent E5071B HP 8753D
2. (Active)	1. (TRP) 2. (TIS)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.: Agilent 8960 E5515B ×2 StarPoint SP6011
3. (Passive)	1. (Gain) 2. (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D



2. matching circuit-BT aerial:



Our company has not made any modification to the matching circuit

3 Antenna position map



4 Efficiency and gain

Passive Test For BT 2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	25.82	-1.73
2410	26.78	-1.65
2420	23.55	-1.76
2430	23.81	-1.60
2440	24.23	-1.68
2450	23.38	-1.55
2460	25.14	-1.76
2470	23.11	-1.71
2480	24.40	-1.61
2490	25.40	-1.63
2500	27.28	-1.57

5. BT Measured effect of antenna

Testing environment: Open outdoor

Distance test: the mobile phone is connected with the bracelet and fixed on a bracket with a height of 1.4M, Wear the bracelet correctly and gradually move away from the mobile phone. .

Test mobile phone: Android

- 1 Play music/call without being stuck: More than 20 meters
- 2 Connect APP to test no dropped calls: More than 20 meters

Test mobile phone: iPhone

- 1 Play music/call without being stuck: More than 18 meters
- 2 Connect APP to test no dropped calls: More than 18 meters

6. Structural drawings

