

Shenzhen Yusheng Communication Equipment Co., Ltd

Antenna Specification

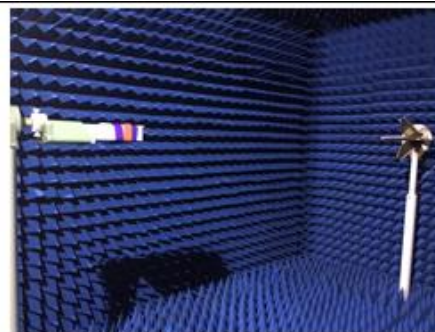
Customer name: Shenzhen Xingchen Digital Technology Co., Ltd

entry name	W11	Antenna frequency band	BT
Specification description	<input type="checkbox"/> Support+spring piece	<input type="checkbox"/> Single shrapnel	<input type="checkbox"/> Support+FPC+thimble
	<input type="checkbox"/> FPC	<input checked="" type="checkbox"/> Wire Antenna	<input type="checkbox"/> GPS antenna
	25mm long conductor, wire diameter 0.6mm		
	<input type="checkbox"/> Coaxial line	<input type="checkbox"/> WIFI antenna: <input type="checkbox"/> FPC+wire: <input type="checkbox"/> PCB+line length:	
Customer confirmation			

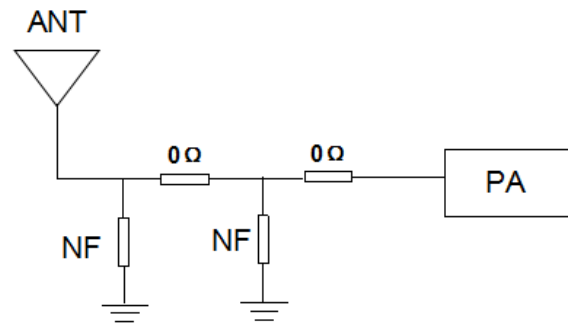
Supplier confirmation	RF confirmation	Structure confirmation	to examine
contacts	Deng Chengyu	mobile phone	188 1903 1961
Telephone		Fax	
mailbox	carroll@szthot.com		
Address:Shenzhen4A, loor 4, Building 2, South Taiyun Chuanggu Park, southeast of the intersection of Guangming Avenue and Dongchang Road, Guangming District, Guangzhou City			

1. Test items and equipment

	Test items	equipment
1. S parameter	1. Return Loss 2. Voltage standing wave ratio (VSWR)	Network analyzer: Agilent E5071B HP 8753D
2. Active test	1. Transmission power (TRP) 2. Receiving sensitivity (TIS)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515Bxtwo StarPoint SP6011
3. Passive test (Passive)	1. Antenna gain (Gain) 2. Antenna efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D



2. Matching circuit - BT antenna

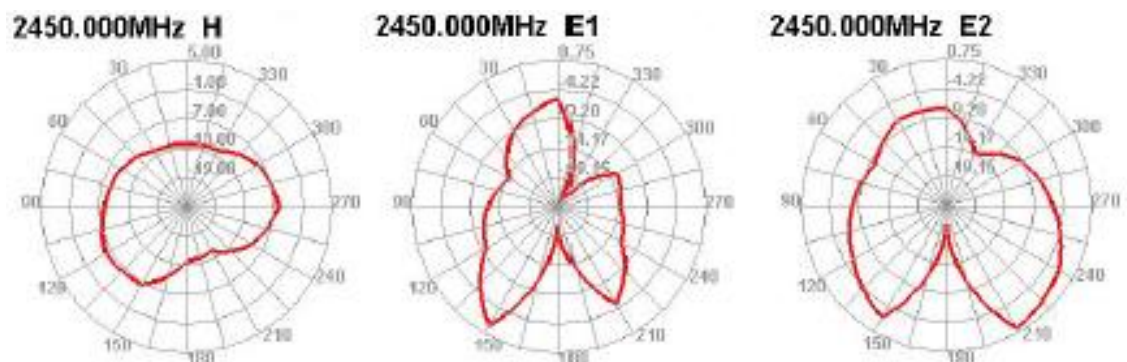


Our company has not made any modification to the matching circuit.

3. Antenna location diagram



4. Efficiency and gain



BT Antenna

Passive Test For BT 2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	28.42	-1.77
2410	26.16	-1.52
2420	28.31	-1.58
2430	26.39	-1.56
2440	28.37	-1.78
2450	26.01	-1.52
2460	28.19	-1.75
2470	23.06	-1.75
2480	27.75	-1.67
2490	23.33	-1.78
2500	26.81	-1.76

5. Measured effect of BT antenna

Test environment: open outdoor

Distance test: Connect the phone to the bracelet, and fix the phone on a 1.4-meter-high bracket, Wear the bracelet correctly and gradually move away from the phone.

Test phone:

ios

1. Control phone switching: above 18 meters.
2. Playing music: Test phone above 18 meters:.

Android

1. Control phone switching: above 18 meters.
2. Playing music: Above 18 meters.

6. Structural drawings

