

**Shenzhen Yusheng Communication Equipment  
Co., Ltd**

**Antenna Specification**

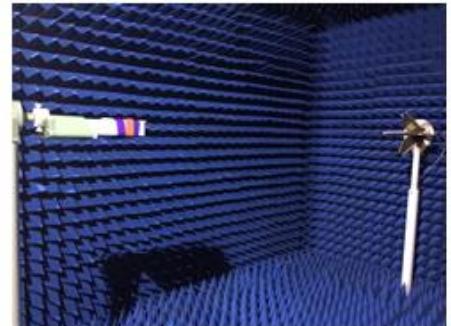
Customer name: Shenzhen Xingchen Digital Technology Co., Ltd

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			

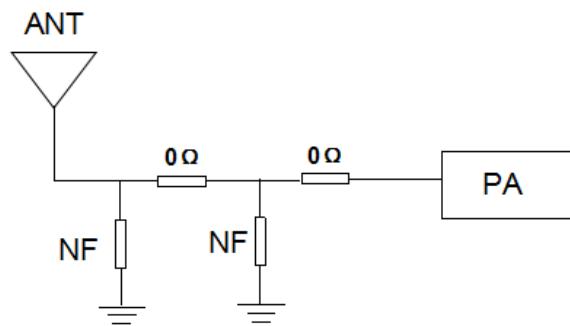
Supplier confirmation	RF confirmation	Structure confirmation	to examine
contacts	Deng Chengyu	mobile phone	188 1903 1961
Telephone		Fax	
mailbox	carroll@szthot.com		
Address: Shenzhen 4A, floor 4, Building 2, South Taiyun Chuanggu Park, southeast of the intersection of Guangming Avenue and Dongchang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

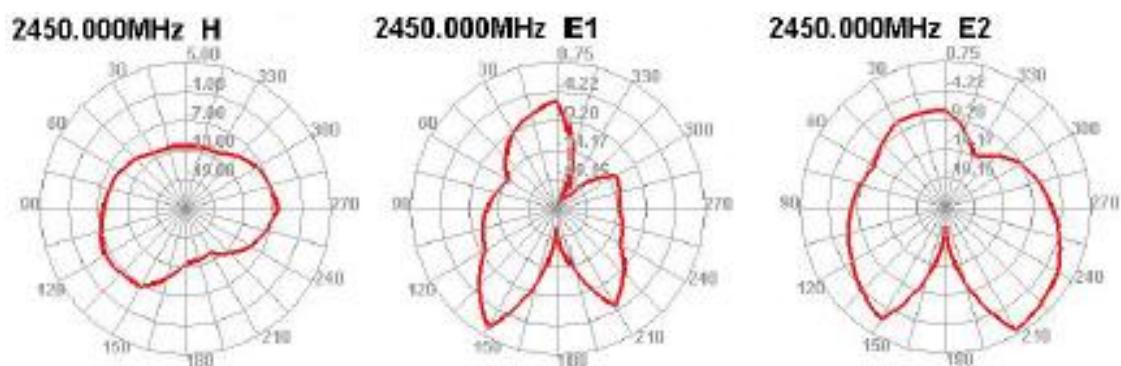


Our company has not made any modification to the matching circuit.

## 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

