Manufacturer： Shenzhen Huaxunshitong Technology Co.,Ltd.

Manufacturer address: F3-005, No. 29, Huangtian Village, Huangtian Community, Hangcheng Street, Bao'an District, Shenzhen

Antenna Specifications

Customer name: Magi Intelligent

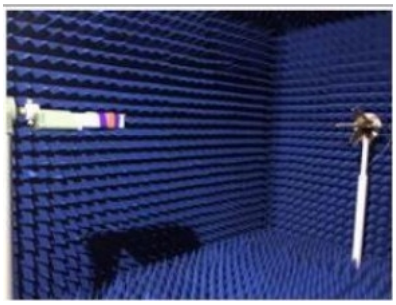
project name		Radio frequency band	BT
Specifications description	☐Stem + spring clip	☐Single spring plate	☑Bluetooth cable
	☐FPC	☐FM antenna	☐GPS antenna
	☐coaxial cable	☐WIFI Antenna: ☐FPC+ wire stock： ☐PCB+ wire stock：	
Customer confirmation			

Supplier confirmation	RF confirmation	Structural confirmation	examine and verify
contacts	Wang Pengchao	cellphone	13480925226
telephone	0755-23705212	portraiture	0755-23705213
postbox	szhuaxunshitong@126.com		
Address: 3005, Floor 3, Hongfenghua Internet Creative Park, No.1, Huangtian Gate Road, Hangcheng Street, Baoan District, Shenzhen, Guangdong Province			

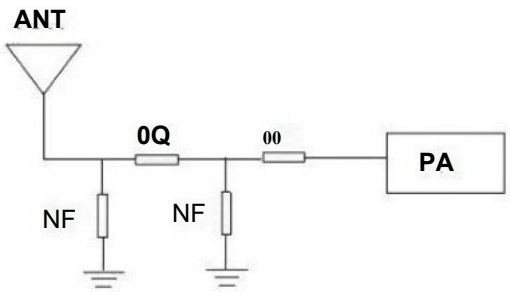
1. Test items and equipment

	test item	equipment
1. S join Number (S-parameter)	1. Return Loss (RL) 2. Voltage Standing Wave Ratio (VSWR)	Network analyzer: Agilent E5071B HP8753D
2. Active testing (Active)	1. Transmission power (TRP) 2. Signal-to-interference ratio (TIS)	1. Darkroom: ETS 7x4×3m (3D) Chamber ETS 5x3x3m(3D)Chamber 2. Comprehensive tester: Agilent 8960 E5515B×2 StarPoint SP6011
3. Passive testing	1. Antenna gain (Gain) 2. Antenna efficiency (Efficiency)	1. Darkroom: ETS 7x4×3m (3D) Chamber ETS 5x3x3m(3D)Chamber 2. Network analyzer: Agilent E5071B HP 8753D





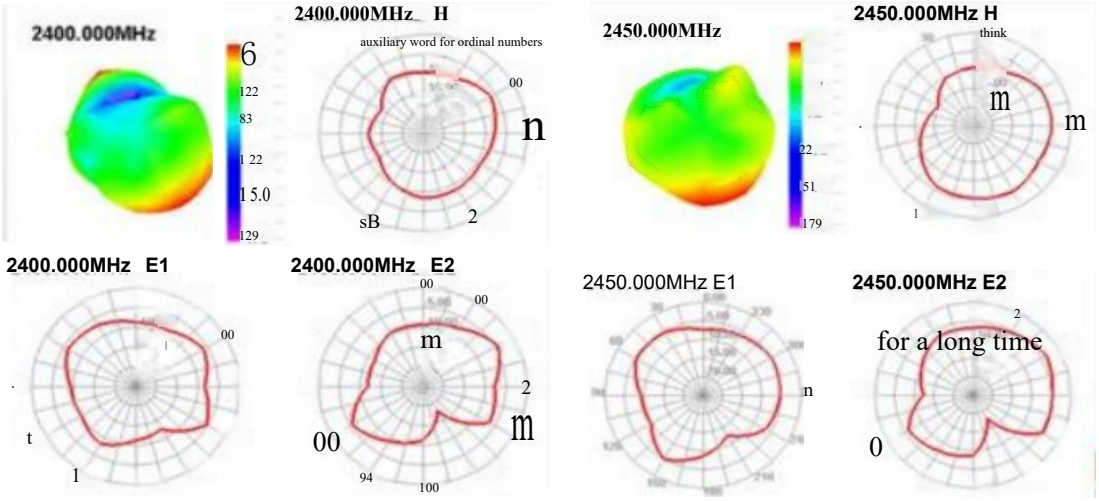
2. Match circuit-BT antenna:



Our company has not made any repairs to the matching circuit

3. Efficiency and Gain

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	16.58	-7.8	-3.59	-5.74	8.505	8.079	-3.59	-17.89	55.76	57.21
2410	18.06	I7.43	-4.08	-6.23	10.078	7.981	-4.08	-19.83	55.83	58.53
2420	18.11	-7.42	-3.53	-5.68	9.534	8.578	-3.53	-15.99	56.07	58.09
2430	20.43	-6.9	-4.03	-6.18	11.073	9.357	-4.03	-16.34	56.25	58.05
2440	20.5	-6.88	-3.68	-5.83	11.024	9.489	-3.68	-22.22	56.61	58.56
2450	21.7	-6.64	-3.61	-5.76	11.534	10.168	-3.61	-17.94	56.87	58.64
2460	20.77	-6.82	-3.84	-5.99	11.417	9.357	-3.84	-16.42	56.54	57.97
2470	20.35	-6.92	-3.15	-5.3	11.26	9.087	-3.15	-15.42	56.17	58.01
2480	19.98	-6.99	-3.86	-6.01	11.332	8.645	-3.86	-20.29	56.4	57.83
2490	20.57	-6.87	-3.29	-5.44	11.469	9.1	-3.29	-15.71	56.48	57.83
2500	20.8	-6.82	-3.37	-5.52	11.886	8.919	-3.37	-14.87	56.61	58.07



4. Measured effect

Actual Measurement of BT Antenna Effect

Test environment: open outdoor

Distance test: Connect the mobile phone with the wristband, fix the mobile phone on a 1.4M high bracket, wear the wristband correctly, and gradually move away from the mobile phone.

Test phone: iOS

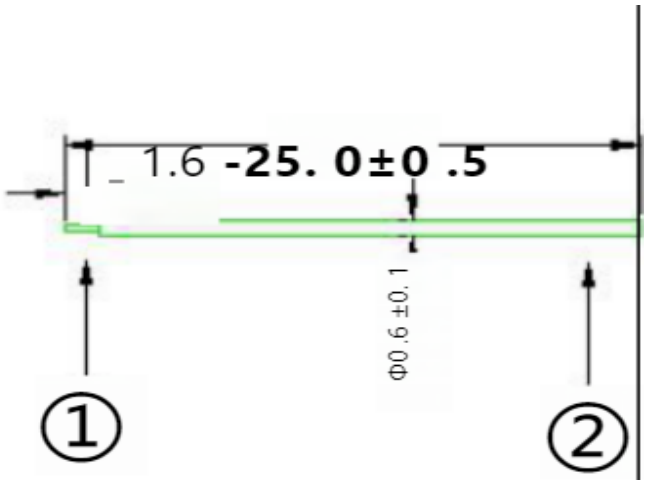
1. Control mobile phone switching: above 8 meters

2 Play music: over 8 meters

Test phone: Android

1. Control mobile phone switching: above 8 meters

2 Play music: over 8 meters



order number	name of a part	material	quantity	description	remarks
1	Bluetooth cable			co-pper	
2	Bluetooth cable skin			black	
3					

Technical and material requirements:

1. Wire color: black
2. Full test conduction

3. Products shall meet the ROHS and other relevant test requirements of the company

4. **If the linear dimension is not marked with tolerance, it shall be according to SJ/T 1062819956 grade, and the tolerance value shall be divided by the upper and lower deviations.**

bt wire stock		design	fine grain	date	2025-6-25
Models		examine and verify	king	RF	
P / N					
material quality					
scale	FIT	Shenzhen Hua Shishutong Material Technology Co., LTD			
unit	mm				