

Antenna specification

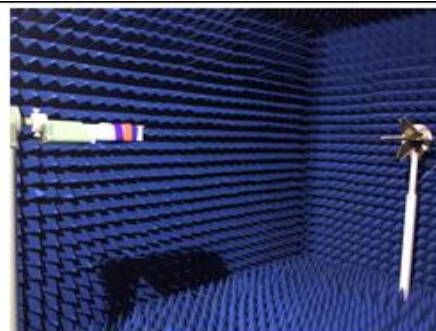
Customer name:_Yawei_

Project name	P58	Antenna frequency band	BT
Specification description	☐ support+shell fragment	☐ Single shrapnel	☐ support+FPC+thimble
	☒ FPC	☐ FM aerial	☐ GPS aerial
	silk-screen: P58		
	☐ coaxial-line	☐ WIFI aerial: ☐ FPC+wire rod: ☐ PCB+wire rod:	
Customer confirmation			

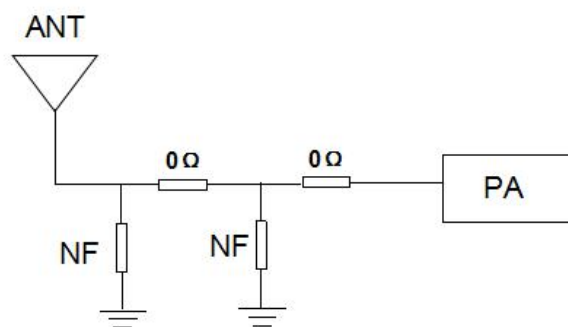
Supplier confirmation	Radio frequency confirmation	Structural confirmation	check
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1. Test environment

	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

BT-1		
Passive Test For BT 2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	25.22	-1.58
2410	28.27	-1.74
2420	26.13	-1.66
2430	24.54	-1.68
2440	27.56	-1.60
2450	26.83	-1.78
2460	26.04	-1.55
2470	23.38	-1.74
2480	27.66	-1.51
2490	24.50	-1.73
2500	28.68	-1.75

5.BT Measured effect of antenna

Testing environment: Open outdoor

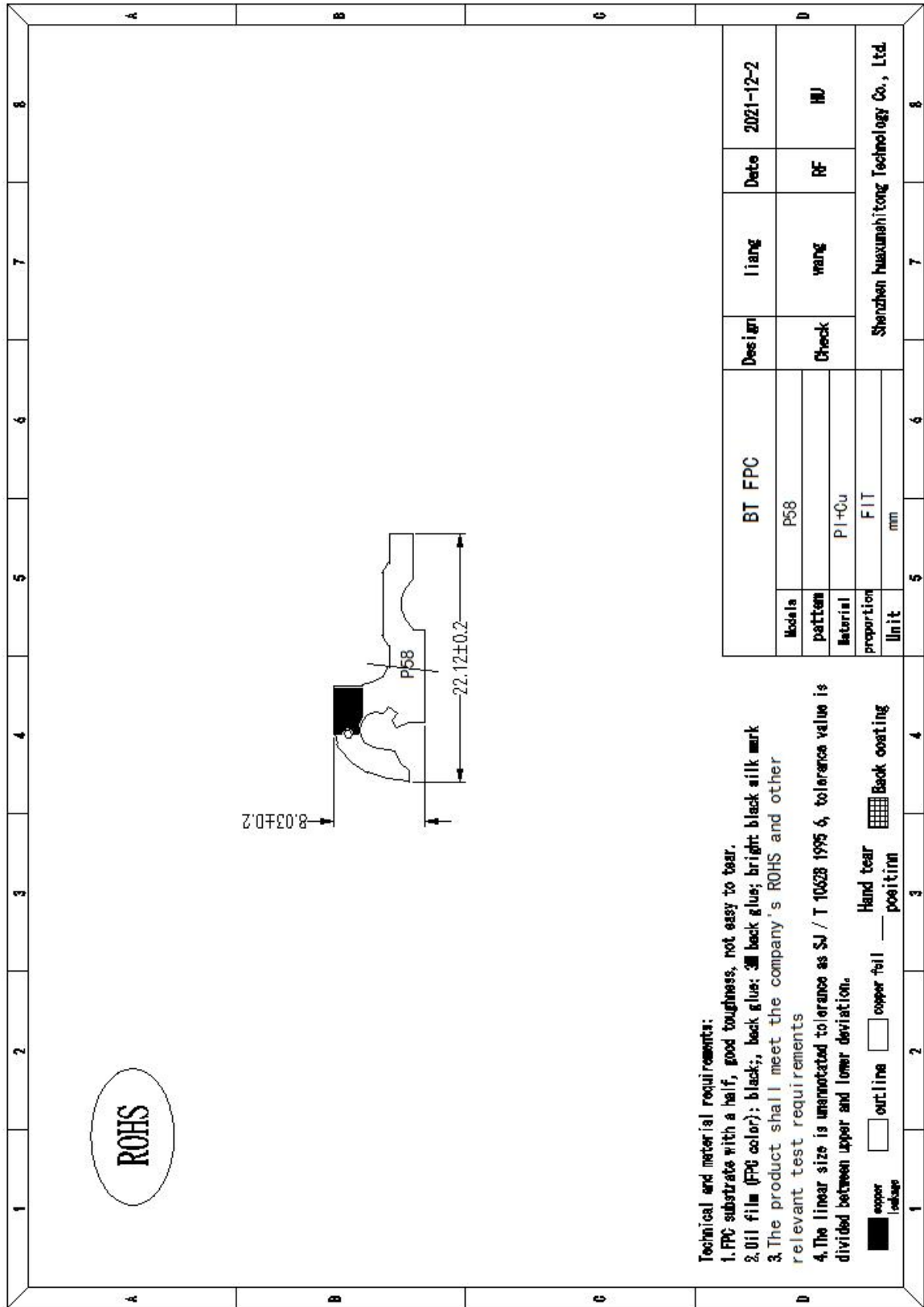
Distance test:he mobile phone is connected with the bracelet and fixed on a bracket with a height of 1.4M, Wear the bracelet correctly and gradually move away from the mobile phone. .

Test mobile phone: iPhone

1 Play music/call without being stuck: More than 17 meters

2 Connect APP to test no dropped calls: More than 18 meters

6. Structural drawings



BT FPC

Models

P58

patten

Material

PI+Cu

proporition

FIT

Unit

mm

Design

Check

wang

RF

2021-12-2

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Shenzhen huaxunhitong Technology Co., Ltd