Productspecifications acknowledgment

（Manufacturer）

Shenzhen Xingsha Innovation Trading Co., Ltd

（Description） The PCB antenna of the watch strap remote control

（ProductType）

model	**explain**	**remark**
HJQ02-ANTENNA	P C B **onboard antenna**	433Watch strap remote control

The supplier acknowledges the signature column		
Lister	auditor	approvre

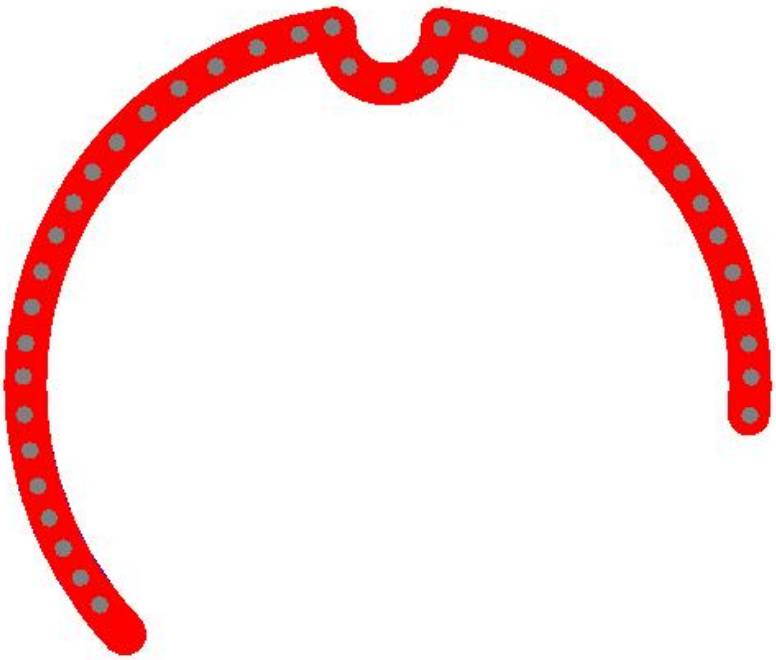
Customer Acknowledgment Column	
Auditor	Approver

1.1Specification

AntennasType	AU-HJQ02-ANTENNA
FrequencRange(MHz)	430-450
InputImpendence(Ω)	50Ω
V.S.W.R	<2
Gain(dBi)	2dBi
PolarizationType	Vertical
PowerCapacity(w)	50
LingtningProtection	None
DCVoltage（V）	None
Dimension（mm）	50-6
/ConnectorType:	PCBonboard
Cabletype（mm）	None
Cablelength(mm)	None
Radiator	None
Color	White
Weight(g)	None
OperatingTemperature（℃）-45~85	
StorageTemperature（℃）-45~85	

*Note: The above data is for reference only; Due to the sensitive function of the antenna, if there are any changes to the surrounding mechanisms of the main body, please notify us for assessment

1.2AntennaPictur e



The model shown in the above picture：
HJQ02-ANTENNA

*Note: Due to the sensitive function of the antenna, if there are any changes to the surrounding mechanisms of the main body, please notify us for assessment.

2.Electrical Specification

2.1TestEquipment

A.VSWRandinputimpedance:Agilent8753/E5071NetworkAnalyzer

B.Antennagainandefficiency:ETSthree-dimensionalanechoicchamber

2.2TestSetup

2.2.1FrequencyRange

2.2.2VSWR

Step1:Theantennaisarrangedonthecustomerprovidedtestfixture.

Step2:TheVSWRoftheantennaismeasuredviaAgilent8720/8753NetworkAnalyzer(see figure.1).

Figure.1

2.2.3RadiationpatternandGain

A.The3Dchamberprovideslessthan-40dBreflectivityfrom800MHzto6GHzanda40cmdiameter

sphericalquietzone.Themeasurementresultsarecalibratedusingbothdipolesandstandardgain

horns(seefigure.2).

B.Theantennaundertestedisarrangedintheturnedtableandadecouplingsleeveisusedtoreduce

feedlineradiation(seefigure.3).

C.Themeasuredresultsoftheradiationpatternsandantennagainareobtainedfromthecontrol

systemandshowedonthemonitor(seefigure.4and5).

Figure.2

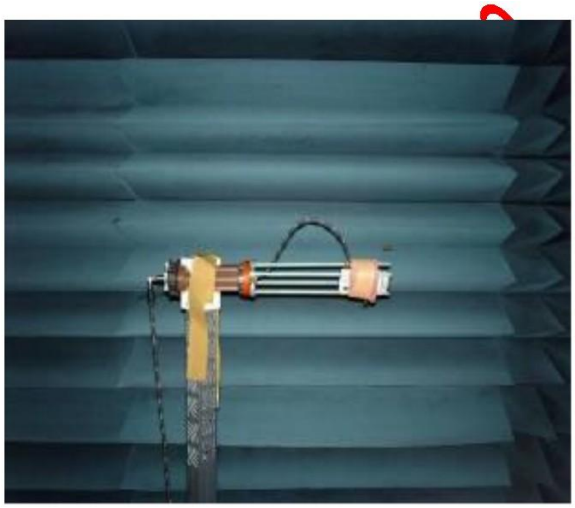


Figure.3

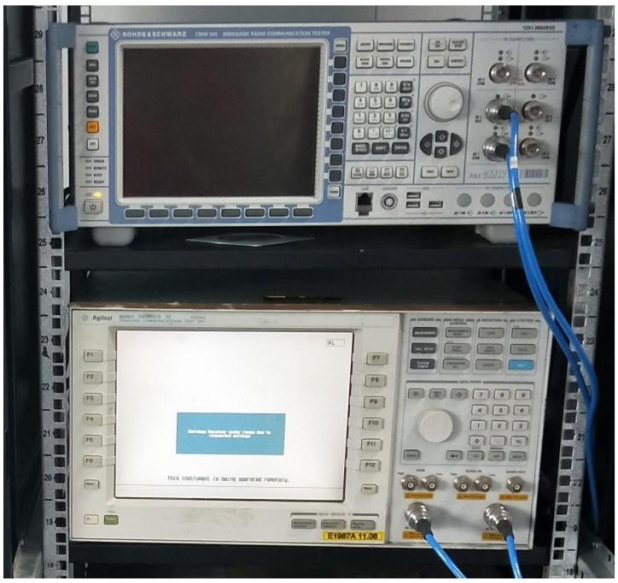


Figure.4

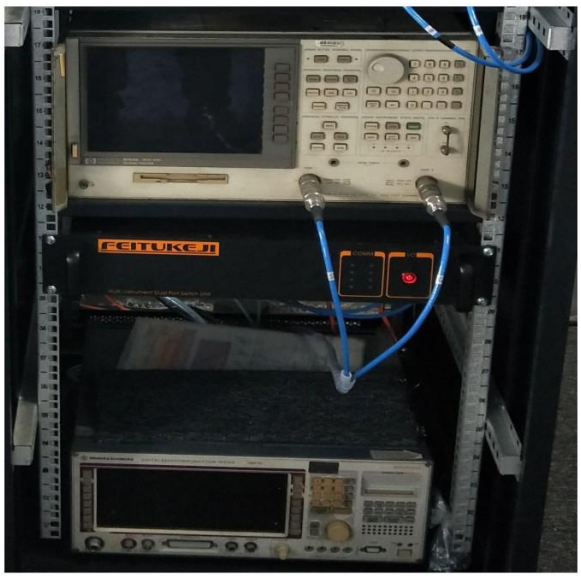
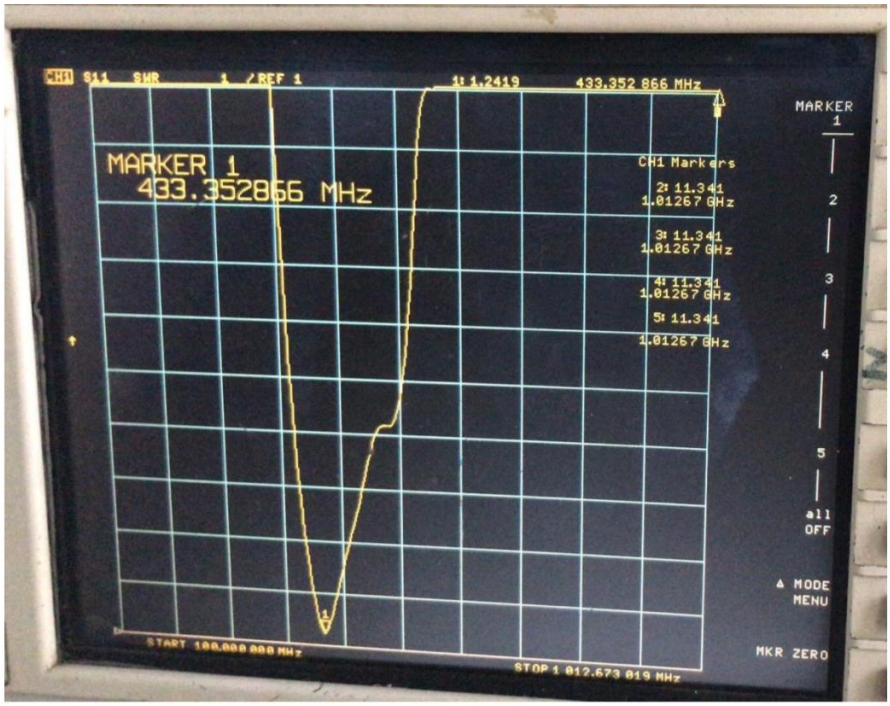


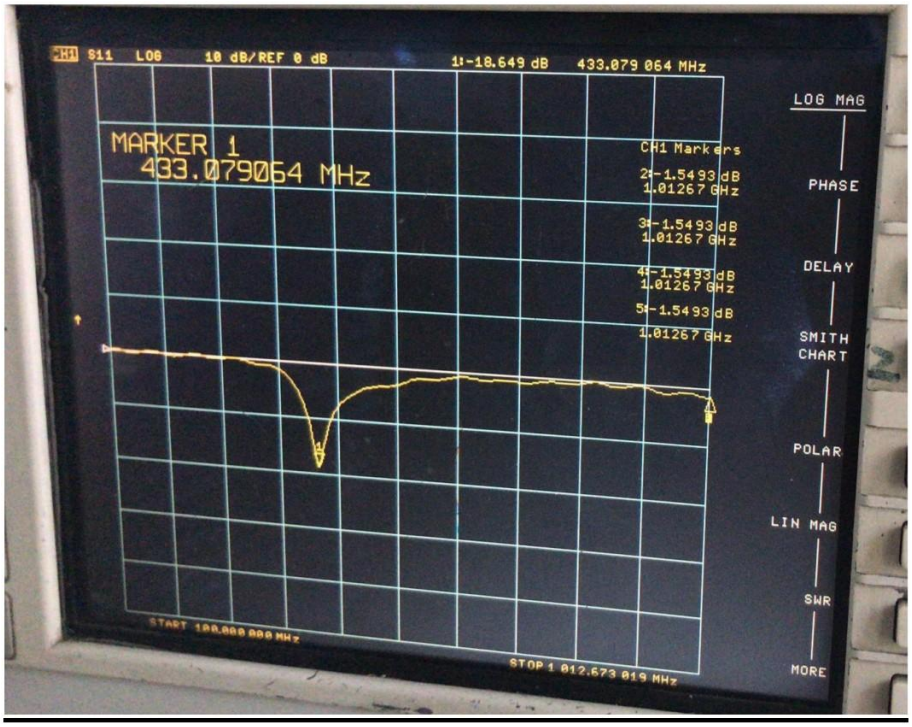
Figure.5

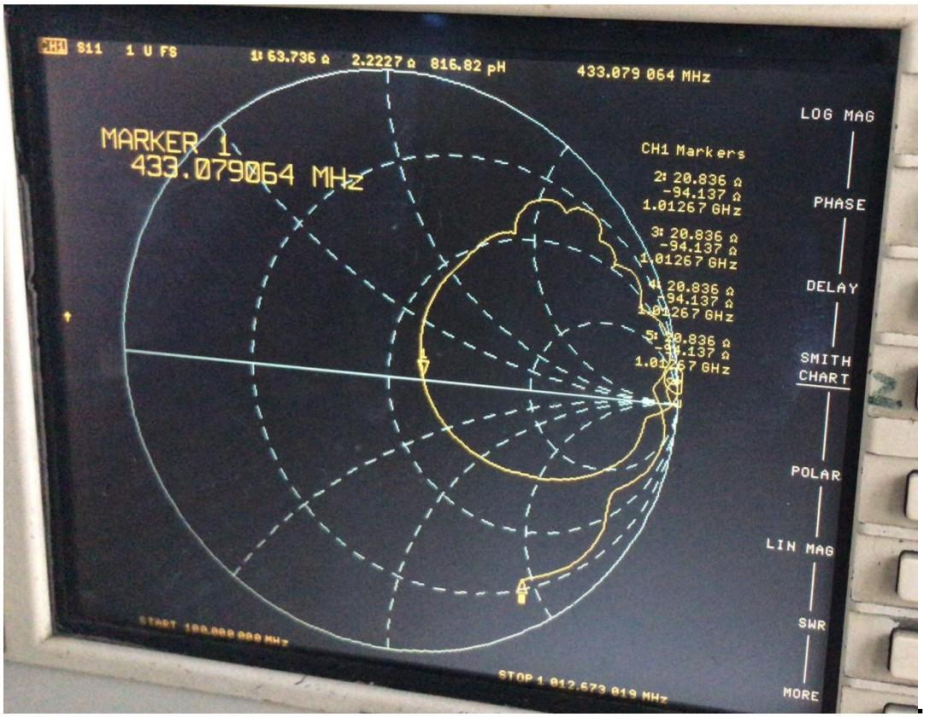
3.PerformanceDat

a 3.1Passivedata

VSWR/ReturnLoss /SmithChart







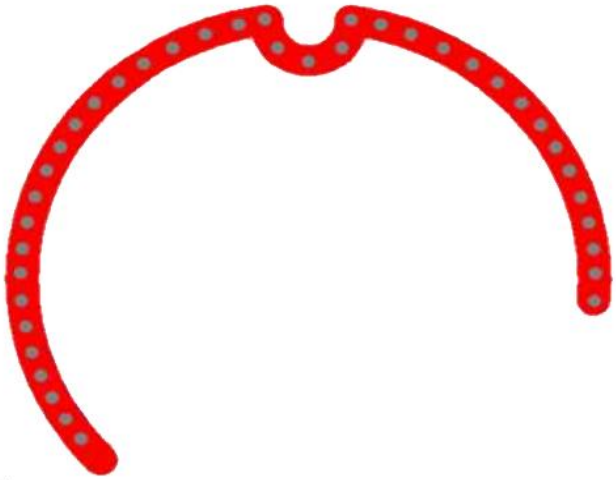
*Note: The above are measured data for reference only. Due to the sensitive function of the antenna, if there are any changes to the surrounding mechanisms of the main body, please notify us for assessment.

4. Mechanical Specification

4.1 Assembly Drawing

PARTS DRAWING | ROHS Compliant

REV	PRODUCT NO.	DATE	NAME	DESCRIPTION
A0		2025.09.04		



Require

1. The outer skin of the board is not damaged
2. Finished products must be 100% tested for continuity
3. Finished products must be 100% inspected
4. Environmentally friendly manufacturing process is adopted and the finished products meet ROHS requirements
5. If tolerance is not specified, please refer to the general tolerance

NO	Code	Name	Description	Q'ty
2				1
1				1

Frequency Range	430-450MHz
Gain	2DBi
VSWR	Comparison waveform
Polarization	Vertical
Impedance	50Ω

Operating temperature : -45℃~85℃
Storage temperature : -45℃~85℃

ANGLE PROJECTION

GENERAL TOLERANCE

100~200 :	± 3.00
50~100 :	± 2.00
25~50 :	± 0.20
10~25 :	± 0.15
1~10 :	± 0.1

PRODUCT NAME				
PCB Antenna-430-450MHz				
Product Number	UNIT	M M	SIZE	1:3
	PAGE	1 OF 1	FORMAT	A4

Sales		Depot	
PMC		Produce	
Buyer		Quality	