



Shenzhen Jinhong Wireless Technology LTD

Antenna specificationg

Part Description	Vendor: Huchongkeji			Description: JHHCKJ2212-419		
	Product Name: PIFA Antenna			Project: 01		
	Part NO:			Version: A1		
Attachments	☒ Spec	☒ Drawing	☒ Sample	☒ ROHS Repot	☒ Cpk Report	☒ FAI Report
	☒ QC Flow Chart	☒ Molding conditions	☒ Reliability Report	☒ Safety Report	☒ Material Verification Sheet	☒ Packing Content
	☒ 3C Certificate	☒ Material inspection standard				
Vendor	Design:			Check:		
				Approval:		
Technology check	Mechanical:			Hardware:		
	ID:			Market:		
	DQE/SQE:					
Final check	ROHS: Quality plannin					
Approval condition	☒ Approved ☐ Reject ☐ Condition approved Temporary approved					
Approval by	RD Leader(Technology Director)			Quality Director		
Distribute	☐ IQC					

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2 instructions

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna. Below is a picture of the antenna.



3 Product specifications

Electrical Specifications	
Frequency Range (MHz)	2400-2500/5100~5850
Gain (dBi)	1.8
VSWR	≤2
Input Impedance (Ω)	50
Polarization	Vertical
Maximum input power (W)	2
Input connector type	1代IPEX
Dimensions (mm)	35.25*8.2
Antenna weight (kg)	1g
Antenna color	black

4 Reliability test

1	SAIT SPRAY TEST	Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6.5~7 Spray volume: 1.4me80cm ² / H compressed air pressure: 1kgf / cm ² Test Relativity: 98 ° Temperature: 45 ° ~ 47 ° Pressure temperature: 35 ° Test time: 24hr	All characteristic range is 30% of the initial value
2	HEAT TEST	85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	COLD TEST	-40+2℃ for 96hours, after keep in normal condition for 30min the to test.	

5 Electrical performance test

5.1 Test equipment and environment

测试设备



SATIMO-24



ETS



模拟人头手



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

测试系统

SATIMO—24

ETS

测试环境

温度: $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$

湿度: $50\% \pm 15\%$

有源测试

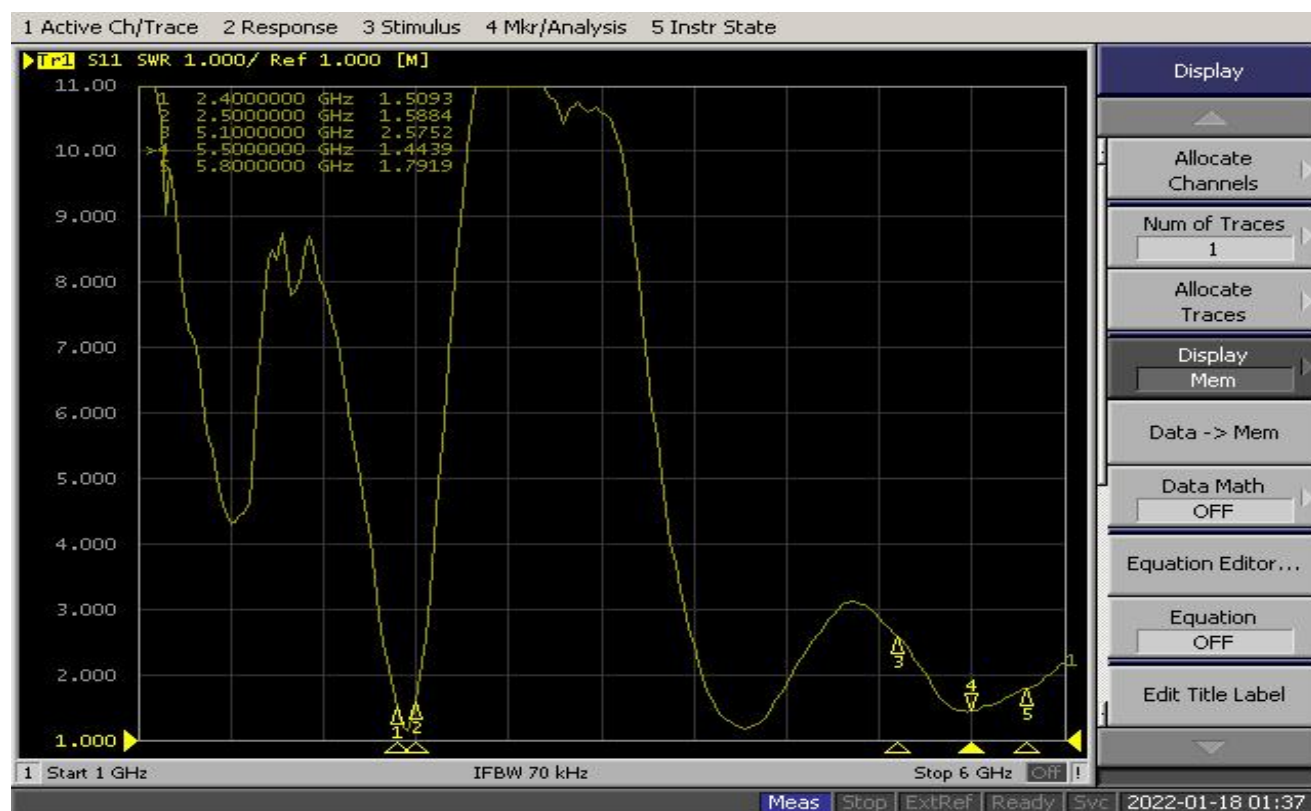
支持2G/3G/4G

BT/WIFI/GPS

无源测试

400MHZ—6G

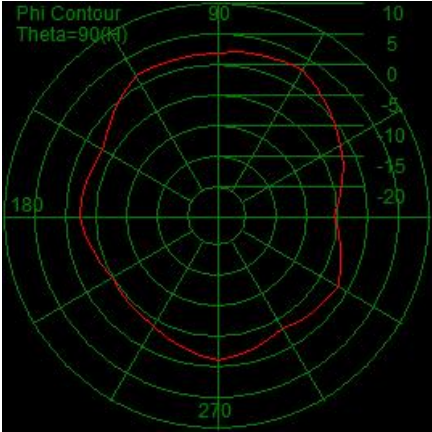
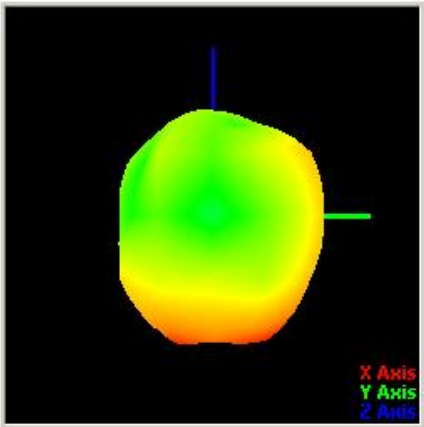
5.2 Antenna SWR



5.3 Antenna passive test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.8	47.8%
2	2450.0	1.8	47.6%
3	2500.0	1.8	48.5%
4	5100.0	1.8	46.5%
5	5200.0	1.9	47.9%
6	5300.0	2.0	52.3%
7	5400.0	2.0	52.4%
8	5500.0	2.1	53.6%
9	5600.0	2.1	53.1%
10	5700	2.0	50.7%
11	5850	1.9	48.2%

3D CHART



6 Engineering drawings

