



Shenzhen Jinhong Wireless Technology, . LTD

Antenna specificationg

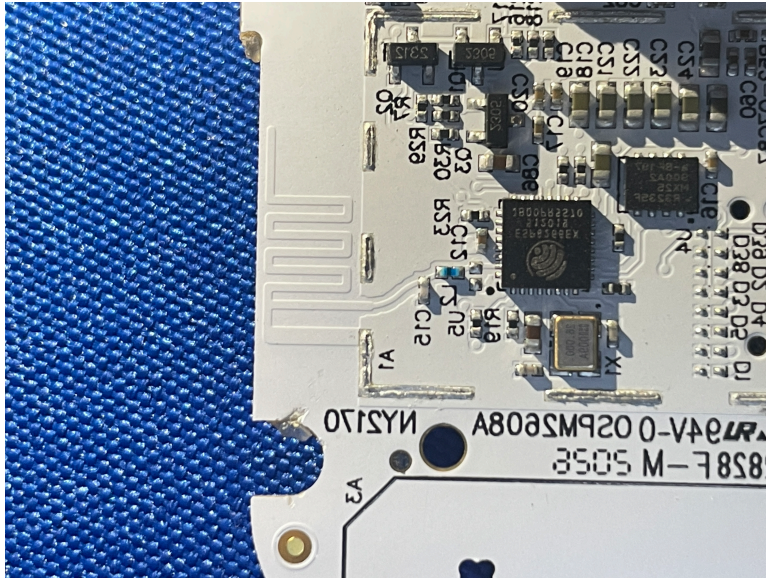
Description	Vendor: Changhongwangluo Product Name: onboard Antenna Part NO:	Description: WiFi Antenna Description: Project: ETCHXX Version: A1		
Attachments	<input checked="" type="checkbox"/> 规格书 Spec <input type="checkbox"/> Cpk Report <input type="checkbox"/> Flow Chart QC <input checked="" type="checkbox"/> Packing Content	<input type="checkbox"/> Drawing <input type="checkbox"/> FAI Report <input type="checkbox"/> Molding conditions <input type="checkbox"/> 3C Certificate	Sample <input checked="" type="checkbox"/> Reliability Report <input checked="" type="checkbox"/> Material Verification Sheet <input type="checkbox"/> Material inspection standard	<input checked="" type="checkbox"/> ROHS Report <input type="checkbox"/> Safety Report
Vendor	Design:	Check:	Approval:	
Technology check	Mechanical: ID: DQE/SQE:	Hardware: Market:		
Final check	Quality planning	ROHS: <input checked="" type="checkbox"/> Rohs		
Approval condition	<input type="checkbox"/> Approved <input type="checkbox"/> Condition approved <input type="checkbox"/> Temporary approved	<input type="checkbox"/> Reject _____ _____ PCS		
Approval by	RD Leader(Technology Director);	Quality Director;		
Distribute	<input type="checkbox"/> 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
Gain (dBi)	0.75
VSWR	≤ 2
Input Impedance (Ω)	50
Polarization	horizontal
Maximum input power (W)	2
Input connector type	
Mechanical Specifications	
Dimensions (mm)	1.3*0.5
Antenna weight (kg)	
Antenna color	

4 耐久性测试 Durability test

1	SAIT SPRAY TEST	<p>Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6 . 5 ~ 7 Spray volume: 1 . 4 me8 0 cm ² / H compressed air pressure: 1kgf / cm² Test Relativity: 98 ° Temperature: 45 ° ~ 47 ° Pressure temperature: 35 ° Test time: 24hr</p>	<p>All characteristic range is 30 % of the initial value</p>
2	HEAT TEST	<p>85+2°C for 96 hours, after keep in normal condition for 30min the to test.</p>	
3	HUMIDITY TEST	<p>for 96hours, after keep in normal condition for 30min the to test.</p>	
4	COLD TEST	<p>-40+2°C for 96hours, after keep in normal condition for 30min the to test.</p>	

5 Electrical performance test

5.1 Test equipment and environment



SATIMO-24

ETS

Simulated head and hands



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

Test system

Test environment

Active measuring range

Test frequency

SATIMO-24

温度: 22°C ± 3°C

支持2G/3G/4G

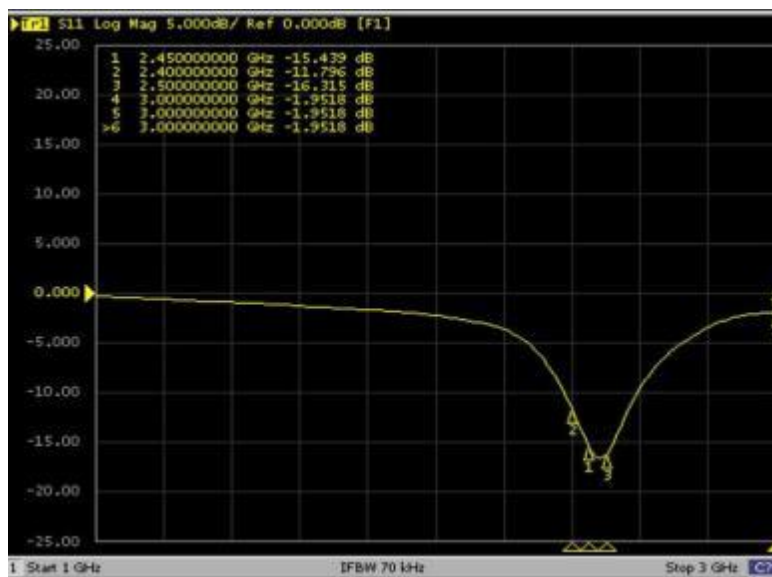
400MHZ—6G

ETS

湿度: 50% ± 15%

BT/WIFI/GPS

5.2 Antenna Return Loss(RL) and SWR



5.3 天线无源数据 Antenna passive test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2410.0	0.6	32.8%
2	2420.0	0.65	33.8%
3	2430.0	0.72	35.2%
4	2440.0	0.73	35.5%
5	2450.0	0.75	36.5%
6	2460.0	0.7	36.1%
7	2470.0	0.68	34.4%
8	2480.0	0.65	34.2%
9	2490.0	0.62	33.6%

3D CHART

