



Shenzhen Jinhong Wireless Technology, . LTD

Antenna specificationg

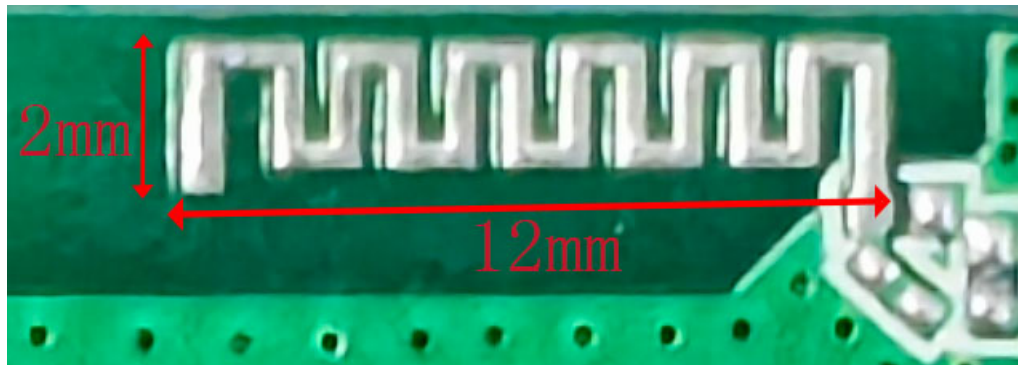
Part Description	Vendor: Changhongwangl Product Name: onboard Antenna Part NO:		Description: BT Antenna Project: ETCHXX Version: A1	
Attachments	☒ Spec ☒ Drawing Sample ☒ ROHS Repot Cpk Report FAI Report ☒ Reliability Report ☐ Safety Report QC Flow Chart Molding conditions ☒ Material Verification Sheet ☒ Packing Content 3C Certificate Material inspection standard			
Vendor	Design: Check: Approval:			
Technology check	Mechanical Hardware ID Market DQE/SQE			
Final check	ROHS: ☐ Rohs Quality planning ☐ NO Rohs			
Approval condition	Approved ☐ Reject ☐ Condition approved ☐ Temporary approved PCS			
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
Gain (dBi)	0.9
VSWR	≤2
Input Impedance (Ω)	50
Polarization	Vertical
Maximum input power (W)	2
Input connector type	
Mechanical Specifications	
Dimensions (mm)	12 * 2
Antenna weight (kg)	
Antenna color	

4 Durability test

1	SAIT SPRAY TEST	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	All characteristic range is 3 0 % 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



SATIMO-24



ETS



Simulated head and hands



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

Test system

Test encironment

Active measuring range

Test frequency

SATIMO—24

温度: 22°C ± 3°C

支持2G/3G/4G

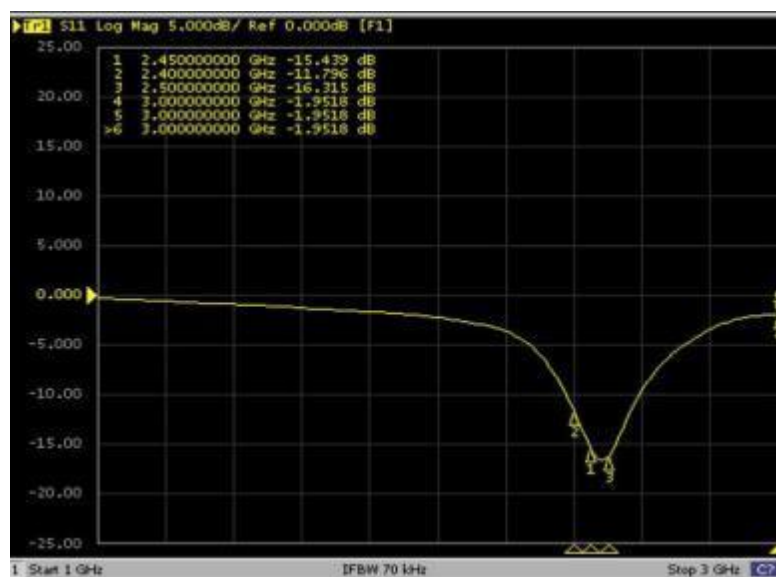
400MHZ——6G

ETS

湿度: 50% ± 15%

BT/WIFI/GPS

5.2 Antenna Return Loss(RL) and SWR



5.3 Antenna passive test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2410.0	0.6	32.8%
2	2420.0	0.65	33.6%
3	2430.0	0.72	34.2%
4	2440.0	0.75	34.5%
5	2450.0	0.9	37%
6	2460.0	0.82	36.3%
7	2470.0	0.78	34.4%
8	2480.0	0.75	34.2%
9	2490.0	0.7	33.6%

3D CHART

