



Shenzhen Jinhong Wireless Technology, . LTD

Antenna specificationg

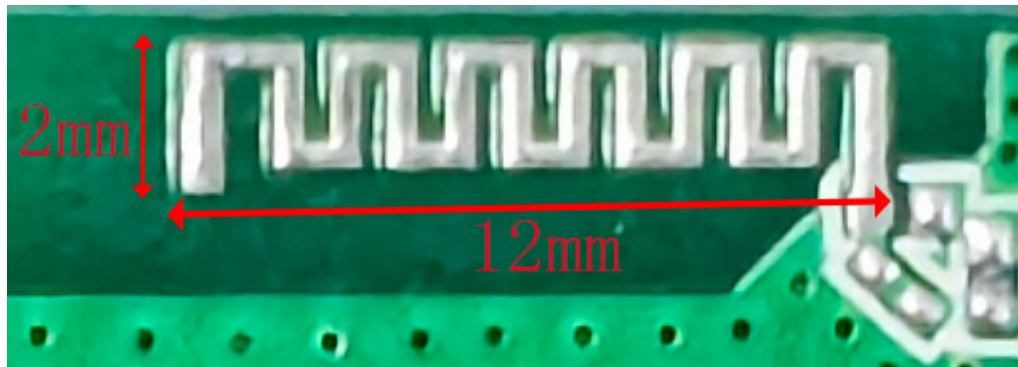
Part Description	Vendor: Changhongwangl Product Name: onboard Antenna Part NO:		Description: BT Antenna Project: ETCHXX Version: A1	
Attachments	<div><input checked="" type="checkbox"/> Spec</div> <div><input checked="" type="checkbox"/> Drawing</div> <div>Sample</div> <div><input checked="" type="checkbox"/> ROHS Repot</div> <div>Cpk Report</div> <div>FAI Report</div> <div><input checked="" type="checkbox"/> Reliability Report</div> <div><input type="checkbox"/> Safety Report</div> <div>QC Flow Chart</div> <div>Molding conditions</div> <div><input checked="" type="checkbox"/> Material Verification Sheet</div> <div><input checked="" type="checkbox"/> Packing Content</div> <div>3C Certificate</div> <div>Material inspection standard</div>			
Vendor	Design: Check: Approval:			
Technology check	<div>Mechanical</div> <div>Hardware</div> <div>ID</div> <div>Market</div> <div>DQE/SQE</div>			
Final check	ROHS: <input type="checkbox"/> Rohs Quality planning <input type="checkbox"/> NO Rohs			
Approval condition	<div>Approved <input type="checkbox"/> Reject</div> <div><input type="checkbox"/> Condition approved</div> <div><input type="checkbox"/> Temporary approved</div> <div>PCS</div>			
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)	0.9
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	<p>Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6 . 5 ~ 7</p> <p>Spray volume: 1 . 4 me8 0 cm ² / H compressed air pressure: 1kgf / cm²</p> <p>Test Relativity: 98 °</p> <p>Temperature: 45 ° ~ 47 °</p> <p>Pressure temperature: 35 °</p> <p>Test time: 24hr</p>	<p>All characteristic range is 3 0 % of the initial value</p>
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 environment

Active measuring range

Test frequency

SATIMO—24

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

支持2G/3G/4G

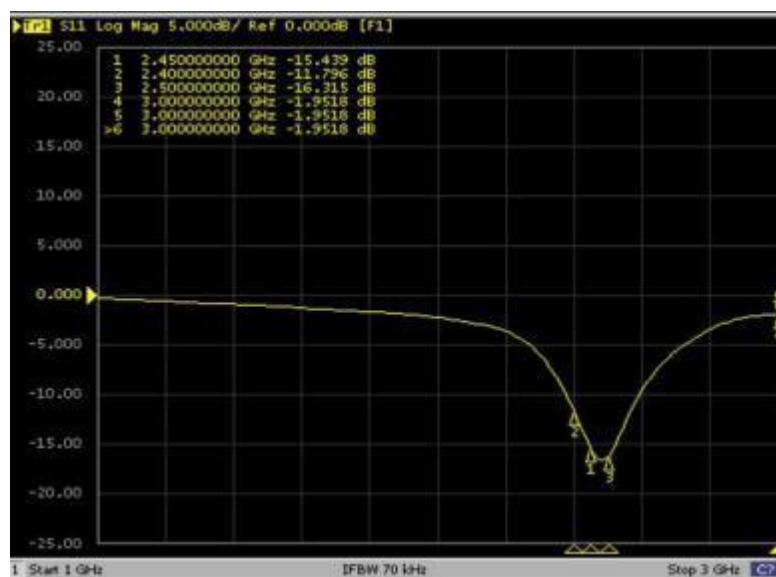
400MHZ—6G

ETS

湿度: $50\% \pm 15\%$

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

