



SHENZHEN JINHONG WIRELESS

Product Specification

Part Description	Vendor: changhongwangluo Description: JH-WIFI-003 Product Name: R-射频ANT Project: 1085CH Part NO: Version: A3		
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:胥万芳 Check:郑翠兰 Approval:彭发辉		
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			

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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)	1.9
VSWR	≤2.0
Input Impedance (Ω)	50
Polarization	Horizontal
Maximum input power (W)	10
Input connector type	
Dimensions (mm)	18.5*5.6*3.0
Antenna weight (kg)	2g
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



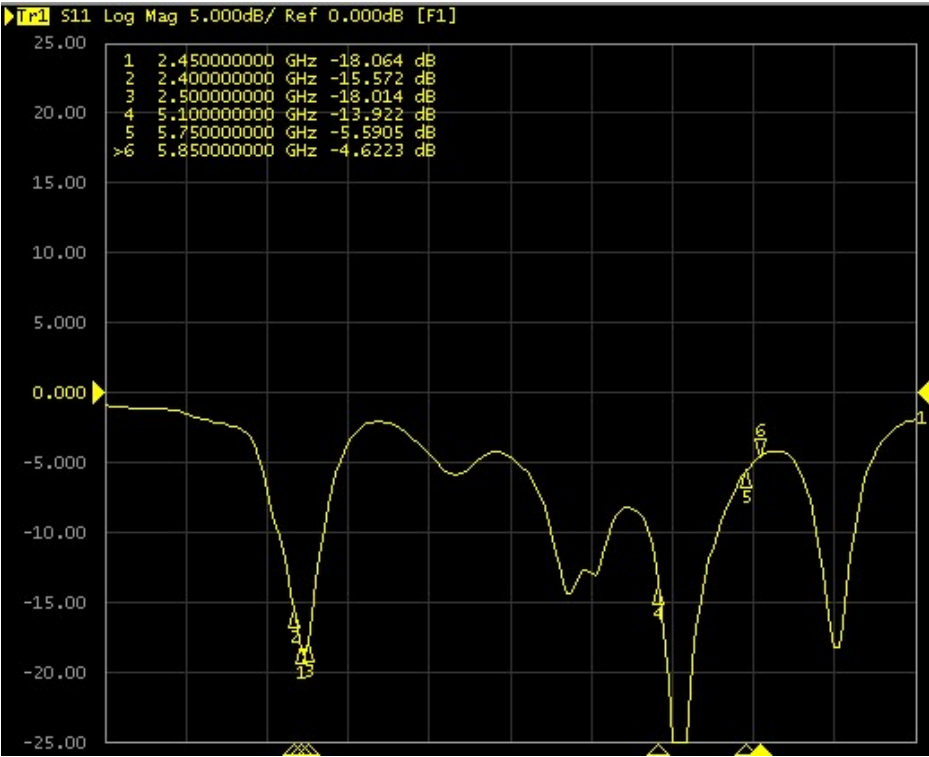
CMW500



安捷伦E5071C

测试系统	测试环境	有源测试	无源测试
SATIMO—24	温度：22℃ ± 3℃	支持2G/3G/4G	400MHZ——6G
ETS	湿度：50% ± 15%	BT/WIFI/GPS	

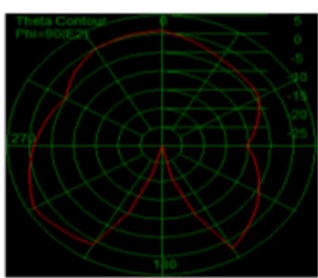
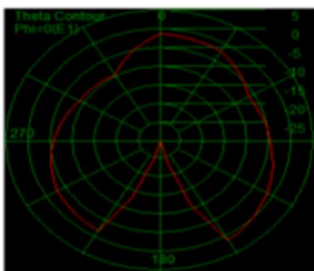
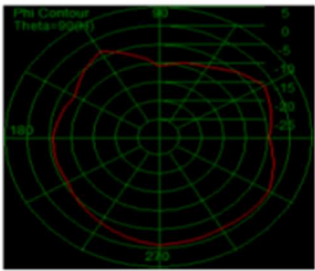
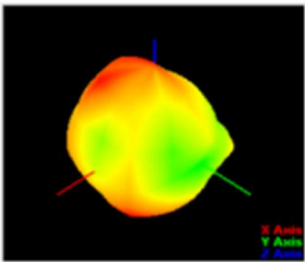
5.2 Antenna Return Loss(RL) and SWR



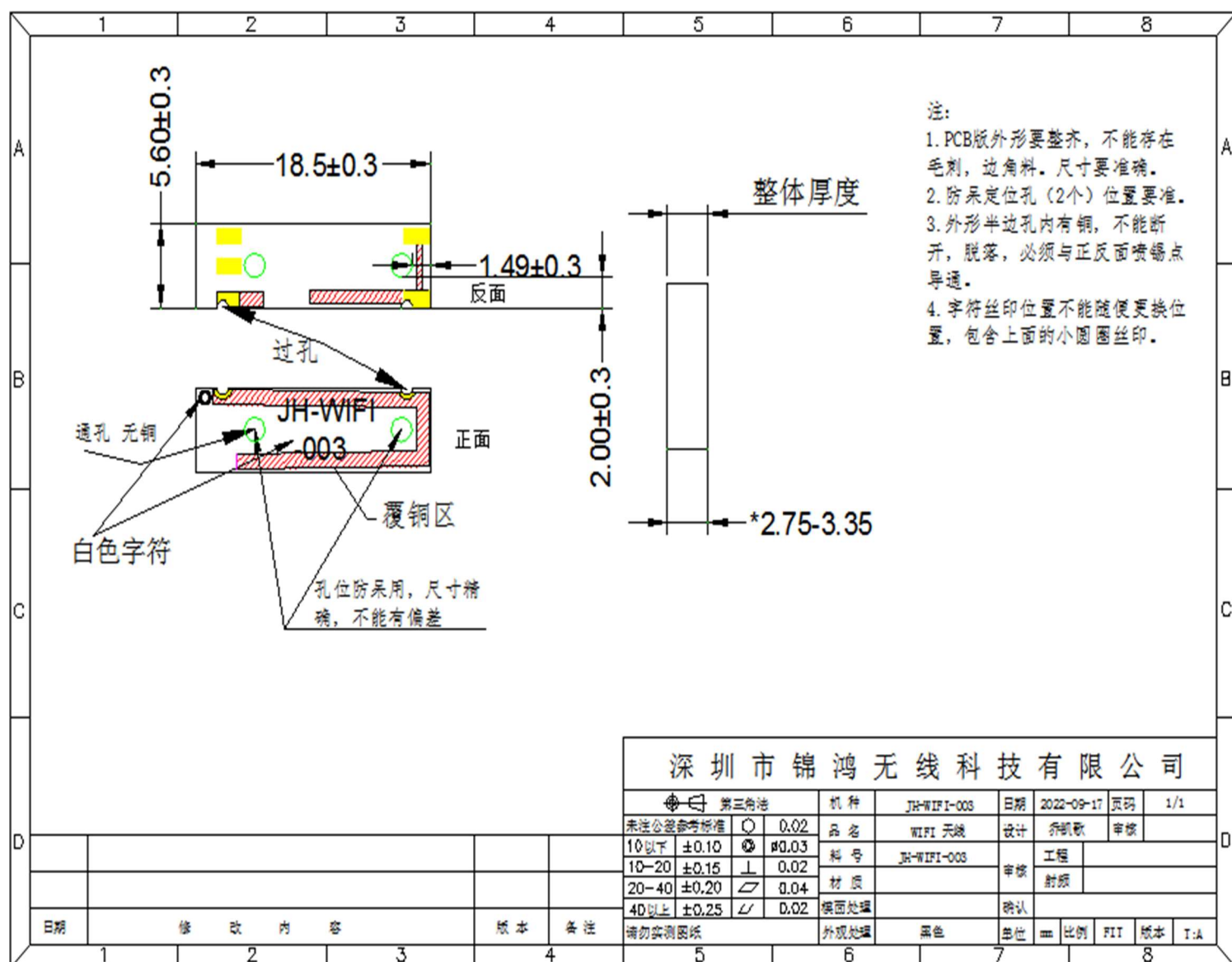
5.3 Antenna passive test data

FRE (MHZ)	2400	2450	2500	5100	5200	5300	5400	5500	5600	5700	5800	5900
EFF (%)	58.8	59.9	59.4	49.2	50.4	51.3	51.7	52.3	52.7	54.3	56.1	55.2
GAIN (DBI)	1.7	1.9	1.9	0.8	1.0	1.0	1.1	1.1	1.3	1.4	1.5	1.4

5.4 3D CHART



6 Engineering drawings



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8 Packing method

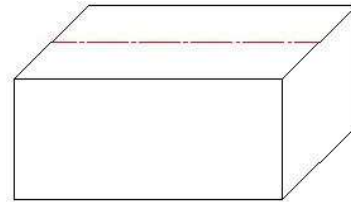
Inside:

PE bag packaging, 500pcs / bag

PE bag size: 30*180

External :

carton packaging, 50 bags / box



carton packaging size 330*270*220