



# 深圳市锦鸿无线科技有限公司

## 天线规格书

|                            |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 产品描述<br>Part Description   | 客户：长虹网络<br>Vendor：<br>产品名称：R-射频天线<br>Product Name：<br>物料代码：<br>Part NO：                                                                                                                                                                              | 规格型号：JH-WIFI-003<br>Description：<br>所承认项目：1085CH副天线<br>Project：<br>版本：A1<br>Version：                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
| 附件<br>Attachments          | <input checked="" type="checkbox"/> 规格书<br>Spec<br><br><input checked="" type="checkbox"/> CPK 报告<br>Cpk Report<br><br><input checked="" type="checkbox"/> 制造流程图<br>QC Flow Chart<br><br><input checked="" type="checkbox"/> 包装方式<br>Packing Content | <input checked="" type="checkbox"/> 工程图面<br>Drawing<br><br><input checked="" type="checkbox"/> 关键尺寸报告<br>FAI Report<br><br><input checked="" type="checkbox"/> 成型条件<br>Molding conditions<br><br>C3C 证书<br>3C Certificate | <input checked="" type="checkbox"/> 样品<br>Sample<br><br><input checked="" type="checkbox"/> 可靠性测试报告<br>Reliability Report<br><br><input checked="" type="checkbox"/> 材质证明书<br>Material Verification Sheet<br><br><input checked="" type="checkbox"/> 物料检验标准<br>Material inspection standard | <input checked="" type="checkbox"/> ROHS 报告<br>ROHS Repot<br><br><input type="checkbox"/> 安规报告<br>Safety Report |
| 供应商签核<br>Vendor            | 拟制：胥万芳<br>Design:                                                                                                                                                                                                                                    | 审核：郑翠兰<br>Check:                                                                                                                                                                                                          | 批准：彭发辉<br>Approval:                                                                                                                                                                                                                                                                         |                                                                                                                 |
| 技术确认<br>Technology check   | 结构意见/签名：<br>Mechanical<br><br>工业/包材设计意见/签名：<br>ID<br><br>品质意见/签名：<br>DQE/SQE                                                                                                                                                                         | 硬件意见/签名：<br>Hardware<br><br>项目意见/签名：<br>Market                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
| 最终确认<br>Final check        | 质量策划：<br>Quality planning                                                                                                                                                                                                                            | ROHS: <input type="checkbox"/> Rohs 物料<br><input type="checkbox"/> 非 Rohs 物料                                                                                                                                              |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
| 承认条件<br>Approval condition | <input checked="" type="checkbox"/> 承认<br>Approved<br><br><input type="checkbox"/> 条件承认<br>Condition approved<br><br><input type="checkbox"/> 临时承认<br>Temporary approved                                                                             | <input type="checkbox"/> 拒绝承认<br>Reject<br><br>需满足条件: _____<br><br>限量 _____ PCS 采购                                                                                                                                        |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
| 审批<br>Approval by          | 研发总工（技术总监）：<br>RD Leader(Technology Director)                                                                                                                                                                                                        | 质量总监：<br>Quality Director                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             |                                                                                                                 |
| 分发部门<br>Distribute         | <input type="checkbox"/> IQC                                                                                                                                                                                                                         | <input type="checkbox"/> 采购（供应商）                                                                                                                                                                                          | <input type="checkbox"/> 样品管理/文控                                                                                                                                                                                                                                                            | <input type="checkbox"/> 外协厂 <input type="checkbox"/> 其它                                                        |

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## 2 说明instructions

这份报告包含天线电性能测试的若干设备、测试环境和测试结果，以及天线的结构图纸和检验报告. 以下为天线图片。

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 产品技术指标 Product specifications

| 电性能指标<br>Electrical Specifications |                     |
|------------------------------------|---------------------|
| 频率范围 Frequency Range (MHz)         | 2400-2500&5100-5850 |
| 增益 Gain (dBi)                      | 2                   |
| 电压驻波比 VSWR                         | ≤2                  |
| 输入阻抗 Input Impedance (Ω)           | 50                  |
| 极化方式 Polarization                  | Horizzontal         |
| 最大功率 Maximum input power (W)       | 2                   |
| 机械指标<br>Mechanical Specifications  |                     |
| 天线尺寸 Dimensions (mm)               | 18. 5*5. 6*3. 0     |
| 天线重量 Antenna weight (kg)           | 1.2g                |
| 天线颜色 Antenna color                 | 黑色                  |

## 4 耐久性测试

|   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            |
|---|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1 | 盐雾试验<br>SAIT SPRAY TEST | 盐水喷雾试验：依 GB1266-86 标准蒸馏水：<br>一次蒸馏PH6.5~7<br>喷雾量：1.4me80cm <sup>2</sup> /h 压缩空气压力：<br>1Kgf/ cm <sup>2</sup><br>试验相对度：98°<br>温度：45° ~47°<br>压力温度：35°<br>测试时间：24hr<br>Brine spray test: distilled water according<br>to GB1266-86 standard: single<br>distillationPH6.5~7<br>Spray volume: 1.4me80cm <sup>2</sup> / H compressed<br>air pressure: 1kgf / cm <sup>2</sup><br>Test Relativity: 98 °<br>Temperature: 45 ° ~ 47 °<br>Pressure temperature: 35 °<br>Test time: 24hr | 所有规格变华<br>范围初始值<br>30%<br>All<br>characteristic<br>range is 30%<br>of the initial<br>value |
| 2 | 高温试验<br>HEAT TEST       | 在 85+2℃环境中放 96 小时，再放在正常环境中 30<br>分钟后进行测试<br>85+2℃ for 96 hours, after keep in normal condition for<br>30mim the to test.                                                                                                                                                                                                                                                                                                                                                    |                                                                                            |
| 3 | 中温试验<br>HUMIDITY TEST   | 在 40+2℃ 90-95%RH 环境中放 96 小时，再放在<br>正常环境中 30 分钟后进行测试40+2℃ 90-95%RH<br>for 96hours, after keep in normal condition for 30mim<br>the to test.                                                                                                                                                                                                                                                                                                                                  |                                                                                            |
| 4 | 底温试验<br>COLD TEST       | 在-40+2℃ 环境中放 96 小时，再置放正常环境中<br>30 分钟后进行测试<br>-40+2℃ for 96hours, after keep in normal condition for<br>30mim the to test.                                                                                                                                                                                                                                                                                                                                                   |                                                                                            |

# 5 电气性能测试 Electrical performance test

## 5.1 测试设备 Test equipment and environment

### 测试设备



SATIMO-24



ETS



模拟人头手



安捷伦8960



安利MT8820C



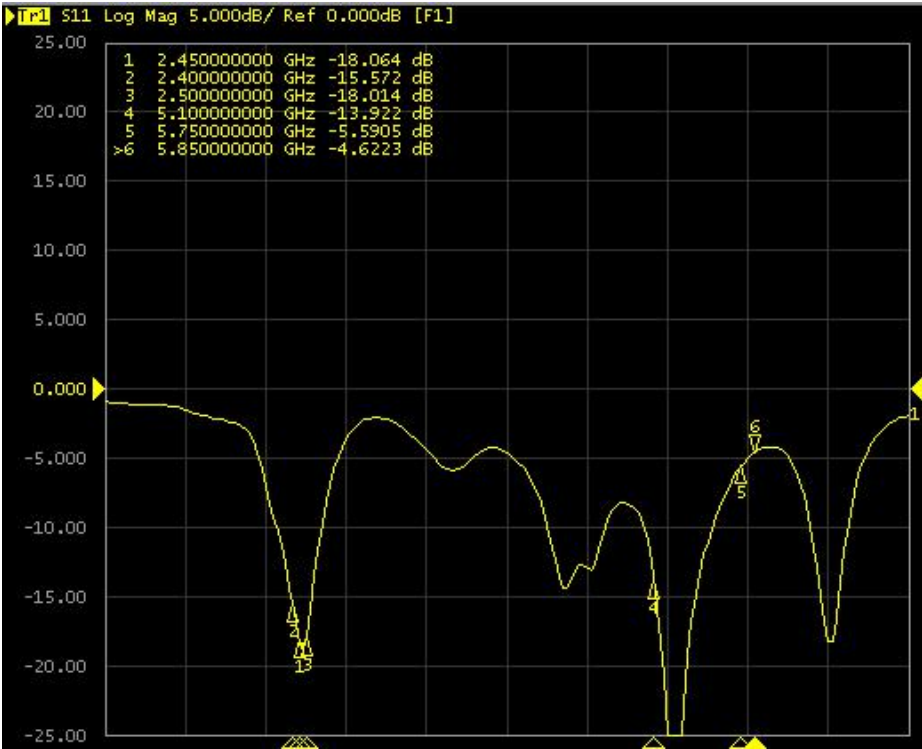
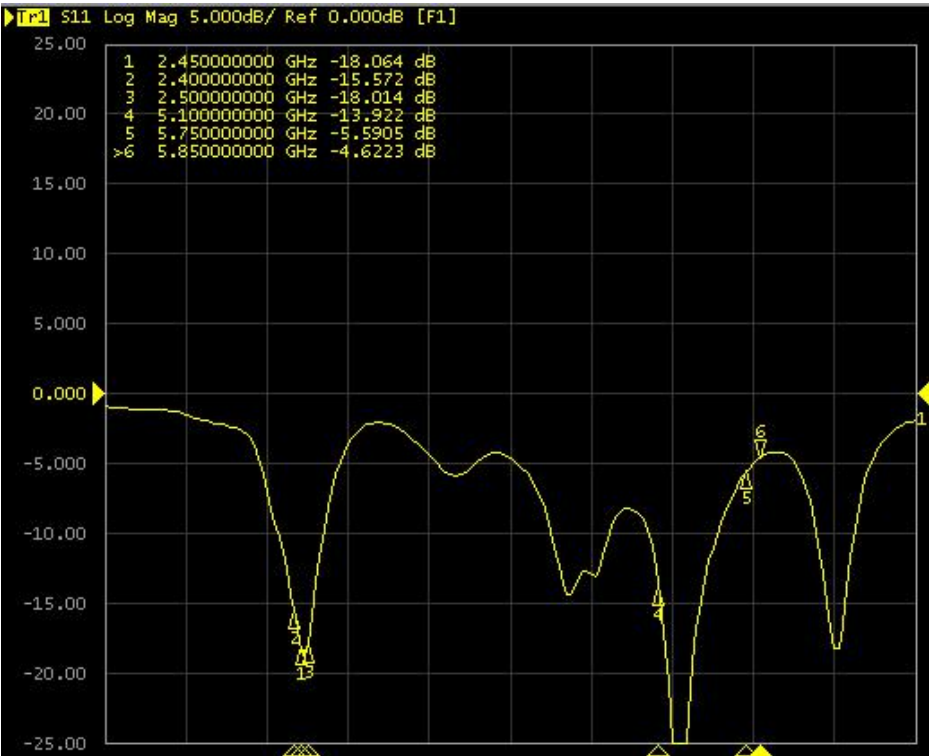
CMW500



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 天线回损与驻波Antenna Return Loss(RL) and SWR

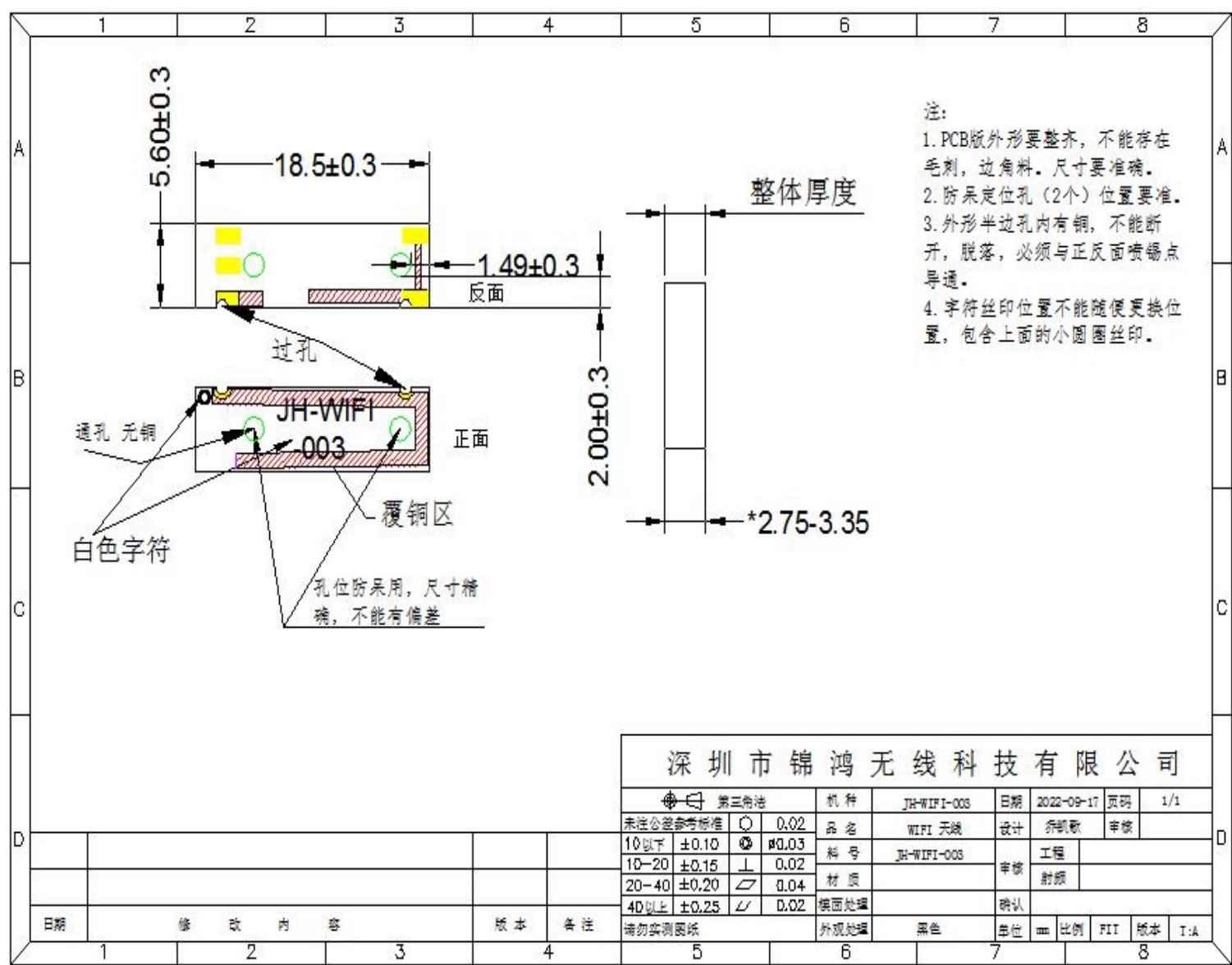


5.3 天线无源数据 Antenna passive test data

|          |      |      |      |      |      |      |      |      |      |      |      |      |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| 频率 (MHZ) | 2400 | 2450 | 2500 | 5100 | 5200 | 5300 | 5400 | 5500 | 5600 | 5700 | 5800 | 5900 |
| 效率 (%)   | 58.8 | 59.9 | 59.4 | 49.2 | 50.4 | 51.3 | 51.7 | 52.3 | 52.7 | 54.3 | 56.1 | 55.2 |
| 增益 (DBI) | 1.7  | 2.0  | 1.9  | 0.8  | 1.0  | 1.0  | 1.1  | 1.1  | 1.3  | 1.4  | 1.5  | 1.4  |



6 工程图纸 Engineering drawings



7 安装说明 Installation instructions

SMT贴片



## 8 包装方式 Packing method

载带包装，**3400PCS**一卷。**3**卷一纸箱。