


# 样品承认规格书

## PART SHEET FOR APPROVAL

|                              |   |
|------------------------------|---|
| 制造商名称:<br>Manufacturer:      | 万物相连通讯襄阳有限公司<br>All things connected Communications Xiangyang Limited |
| 供应商名称:<br>Supplier:          | 万物相连通讯襄阳有限公司<br>All things connected Communications Xiangyang Limited |
| 产品名称:<br>Part Description:   | <b>Built-in antenna 内置天线</b>  |
| 规格型号:<br>Model No:           | WWXL6010191   |
| 制造商P/N:<br>Manufacturer P/N: | ANT00213-6A   |
| 编码:<br>SDMC P/N:             | 360100423   |
| 日期:<br>Issued Date:          | 2023.09.13  |

供应商确认 Supplier confirmation

|                         |                            |   |
|-------------------------|----------------------------|---|
| 承办 Made By<br>DAIHONGBO | 审核 Engineer<br>(Signature) | 批准 Approver<br>TONGXIAOYAN<br> |
|-------------------------|----------------------------|---|

confirmation

|                           |  |        |             |
|---------------------------|--|--------|-------------|
| 承认原因:<br>Approval Reason: | <input type="checkbox"/> 新物料 New Part <input type="checkbox"/> 替代料 Substitute Part |        |             |
| 承办 Made By                | 审核 Engineer  |        | 批准 Approver |
|                           | 品质 Quality   | 研发 R&D | 业务 Sales    |
|                           |  |        |             |

备注: 签名表明提交样品获得承认, 图纸规格已经受控。 Note: Signature indicates that the submitted sample is approved and the drawing/specification is now the controlling document.

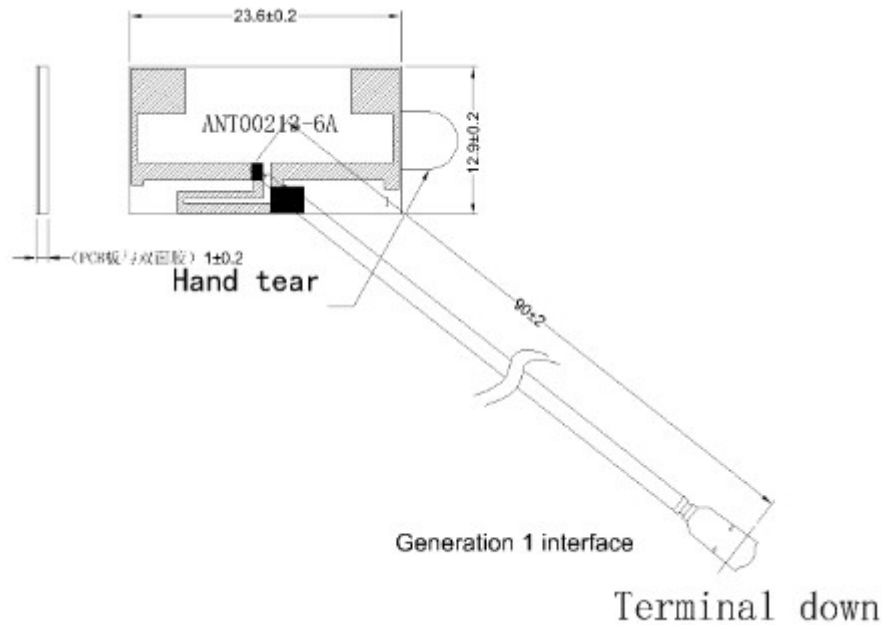
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# Specification for Antenna 天线规格书

## 一、Product pictures 产品图片

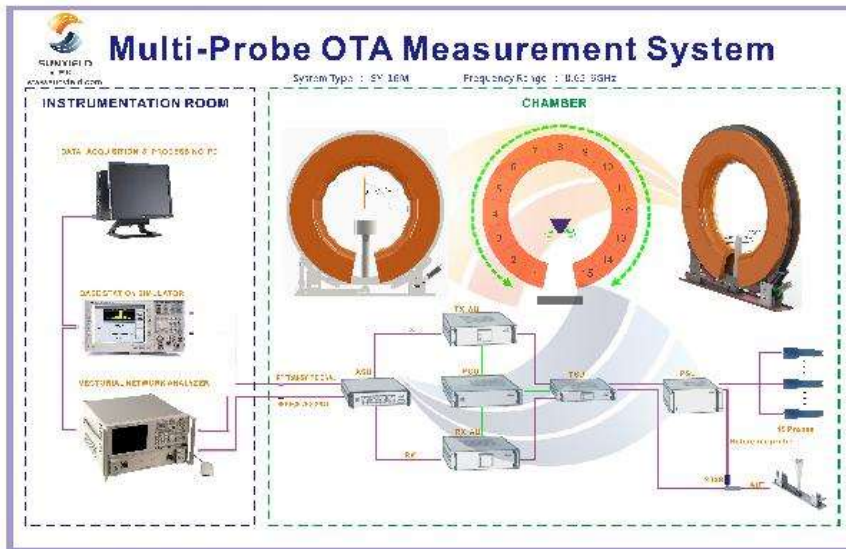
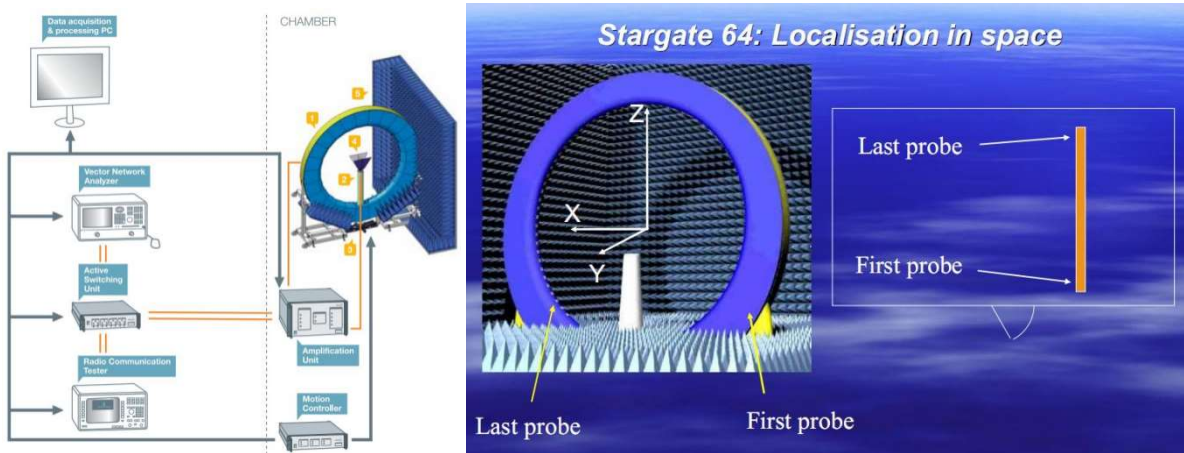


## 二、Test parameters 产品测试参数

|                                   |                        |                                |  |
|-----------------------------------|------------------------|--------------------------------|--|
| 产品名称 Name 内置天线 (WWXL6010191)      |                        | 型号 Model Type                  |  |
| 电气参数 ELECTRICAL SPECTFICATIONS    |                        | 机械参数 MECHANICAL SPECTFICATIONS |  |
| 频率范围 Frequency Range 2400-2500MHz |                        | 尺寸 Dimensions                  | 23.6*12.9*1.0mm                              |
| 输入阻抗 Impedance                    | 50 Ω                   | 连接器型号 Connector                | IPEX   |
| 驻波比 VSWR                          | ≤2.0                   | 线长 line length                 | 90±2mm<br>1.13 Low loss line black<br>低损耗线黑色 |
| 增益 Gain                           | ≥2.47dBi               | 效率 Efficiency                  | ≥71.79%                                      |
| 极化方式 Polarization                 | linear Vertical<br>线极化 | 工作温度 Working Temperature       | -45°C - +85°C                                |
| 辐射方向 Radiation                    | Omnidirectional<br>全向  | 存放温度 Limit Temperature         | -45°C - +85°C                                |

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### 三、Antenna test environment 天线测试环境

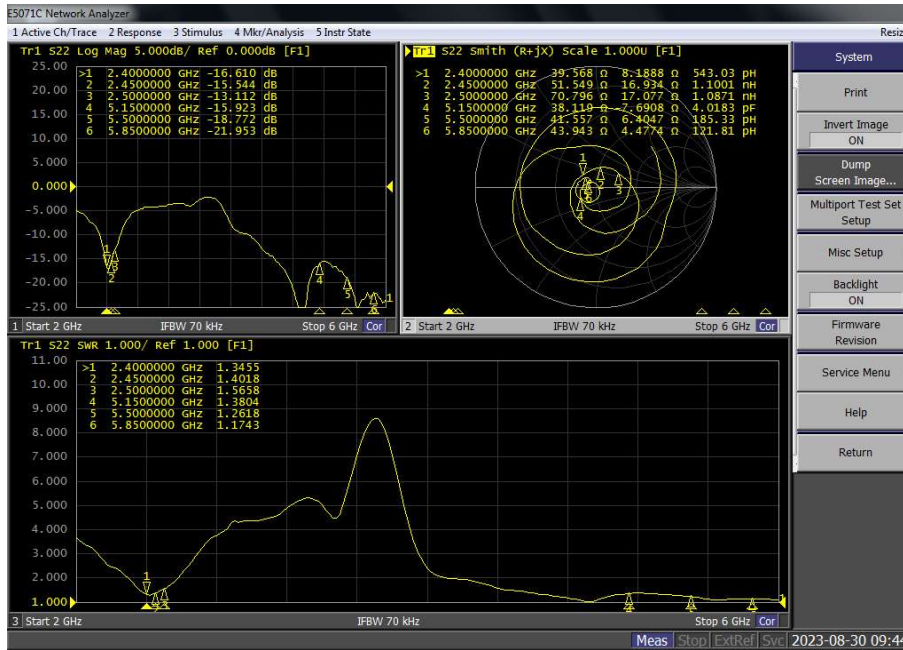


|                           |  |
|---------------------------|--|
| test macro 测试系统:          | SY-16M Antenna measurement system 天线测量系统   |
| testing environment 测试环境: | temperature 温度 22°C ± 3°C, humidity 湿度 50% ± 15%   |
| testing equipment 测试设备:   | Agilent 5071C<br>Agilent 8960 Comprehensive measuring instrument 综测仪<br>Agilent CMW500 4G Comprehensive measuring instrument 综测仪 |

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#### 四、Antenna Passive Parameters 天线无源参数:

##### 1、VSWR驻波比图:



##### V.S.W.R

|          |     |      |     |
|----------|-----|------|-----|
| Freq/GHz | 2.4 | 2.45 | 2.5 |
| VSWR     | 1.3 | 1.4  | 1.5 |

##### 3、Gain and Efficiency 增益和效率:

| Gain&Efficiency&PhaseCenter<br>增益、效率和相位中心 |                  |                     |                          |                  |                     |                          |                  |                     |
|---|------------------|---------------------|--------------------------|------------------|---------------------|--------------------------|------------------|---------------------|
| frequency<br>频率<br>(MHz)                  | gain 增<br>益(dBi) | efficiency<br>效率(%) | frequency<br>频率<br>(MHz) | gain 增<br>益(dBi) | efficiency<br>效率(%) | frequency<br>频率<br>(MHz) | gain 增<br>益(dBi) | efficiency<br>效率(%) |
| 2400                                      | 2.8              | 72.02               |                          |                  |                     |                          |                  |                     |
| 2410                                      | 2.86             | 71.79               |                          |                  |                     |                          |                  |                     |
| 2420                                      | 2.83             | 72.32               |                          |                  |                     |                          |                  |                     |
| 2430                                      | 2.95             | 74.4                |                          |                  |                     |                          |                  |                     |
| 2440                                      | 2.83             | 75.5                |                          |                  |                     |                          |                  |                     |
| 2450                                      | 2.87             | 77.58               |                          |                  |                     |                          |                  |                     |
| 2460                                      | 2.79             | 79.55               |                          |                  |                     |                          |                  |                     |
| 2470                                      | 2.79             | 80.74               |                          |                  |                     |                          |                  |                     |
| 2480                                      | 2.61             | 79.77               |                          |                  |                     |                          |                  |                     |
| 2490                                      | 2.54             | 79.91               |                          |                  |                     |                          |                  |                     |
| 2500                                      | 2.47             | 78.17               |                          |                  |                     |                          |                  |                     |

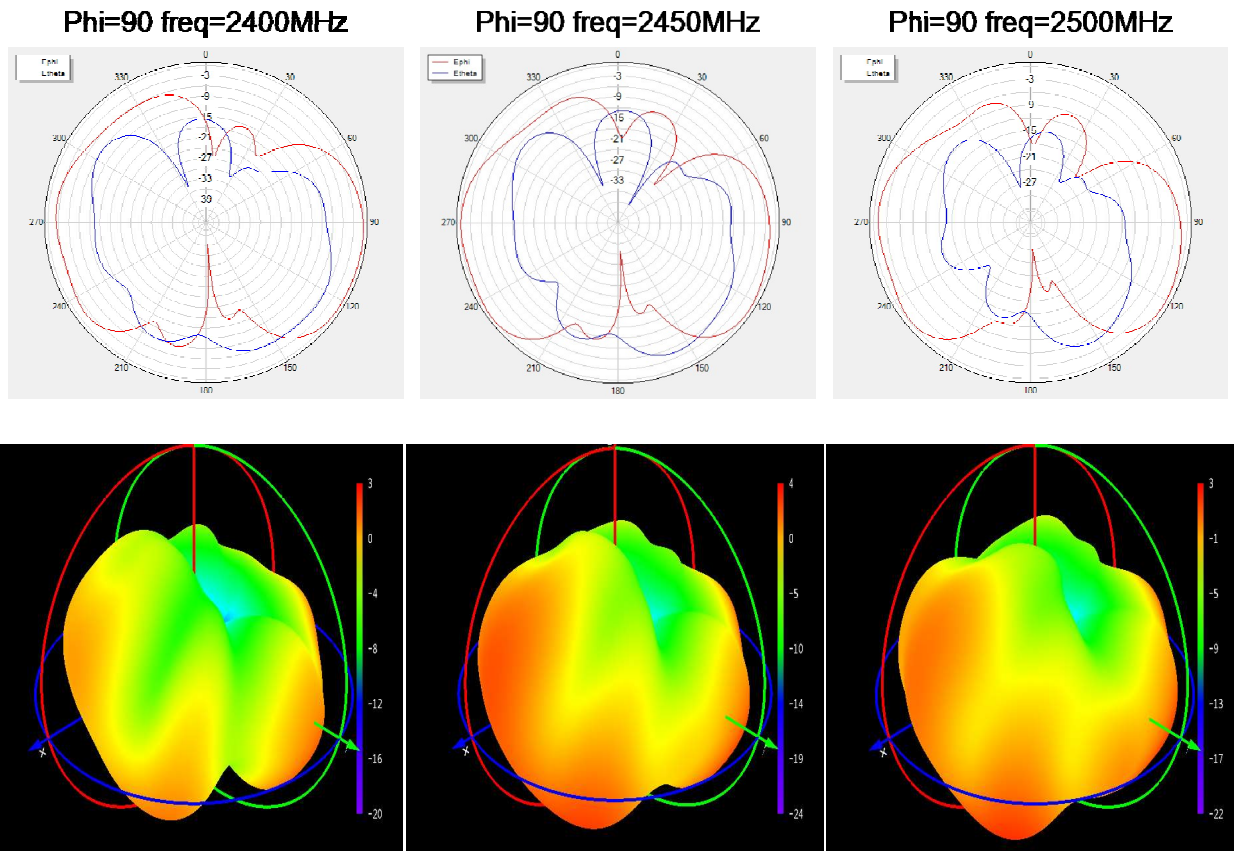
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#### 4、2D/3D directional diagram 2D/3D方向图：



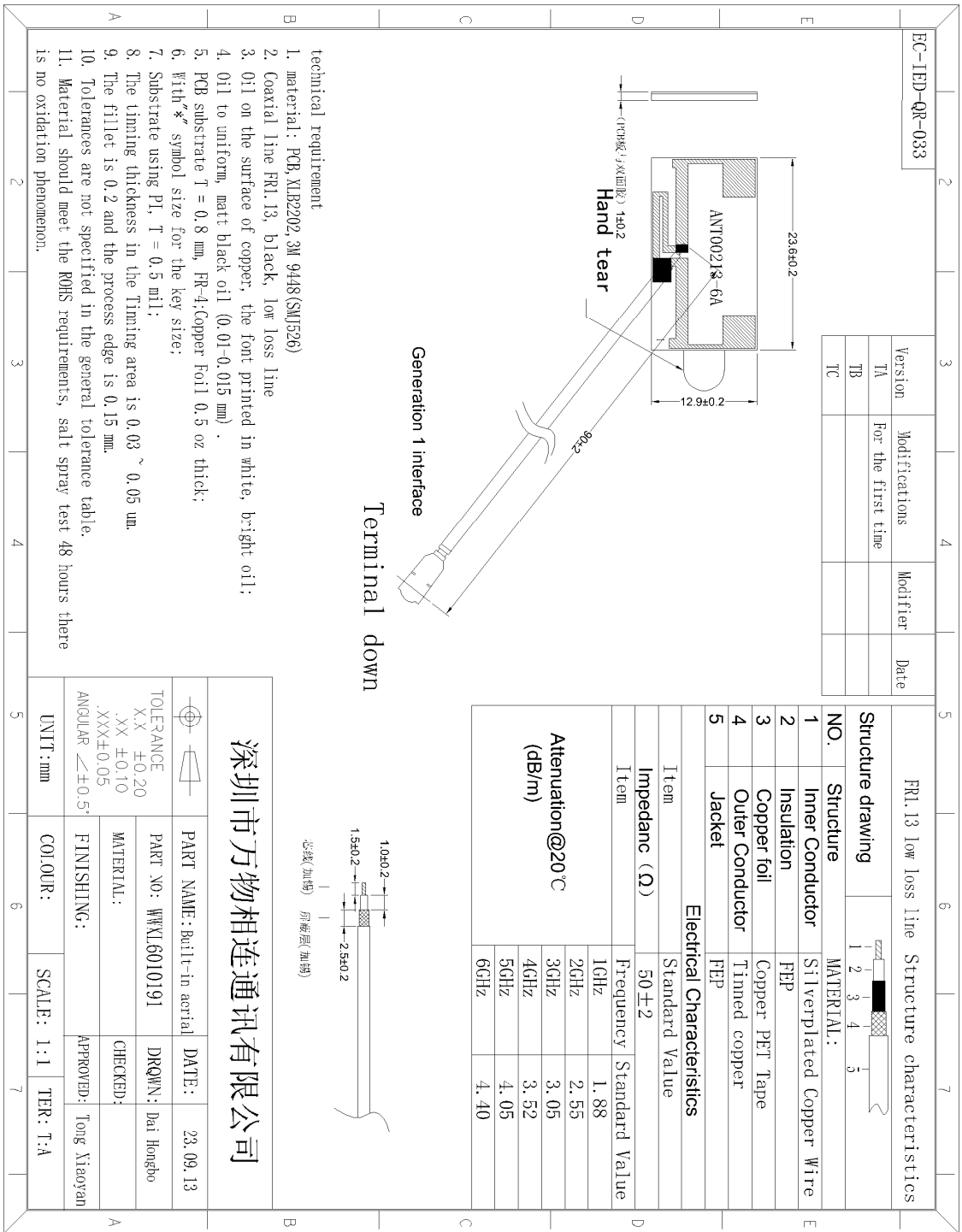
#### 五、Product characteristics产品特点

1. Choose high-quality RF cable with small attenuation 选用优质射频电缆，自身衰减减小；
2. Stable performance 性能稳定；
3. Stable performance 频带内驻波良好。

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六、Drawing产品结构图

由 Autodesk 教育版产品制作



由 Autodesk 教育版产品制作

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## 七、Specification for wire rod线材规格书

| 产品规格 Product Type                        |  | RF113L-F 单银  |              |                    |
|--|--|--|--------------|--------------------|
| 结构图 Structure Drawing                    |  |  |              |                    |
| 结构特性 Structure Characteristics           |  |  |              |                    |
| 结构 Structure                             | 项目 Item  | 标准值 Standard Value   |              |                    |
| 内导体<br>Inner Conductor                   | 材质 Material                                      | 镀银铜线 Silverplated Copper Wire  |              |                    |
|  | 结构 Construction(mm)                              | 7/0.085  |              |                    |
|  | 标称外径 Nom. Dia (mm)                               | 0.25±0.02  |              |                    |
| 绝缘层<br>Insulation                        | 材质 Material                                      | 聚全氟乙烯 FEP  |              |                    |
|  | 标称外径 Nom. Dia (mm)                               | 0.715±0.03   |              |                    |
| 外导体<br>Outer Conductor                   | 材质 Material                                      | 铜箔箔 Copper plastic foil  |              |                    |
|  | 标称外径 Nom. Dia (mm)                               | 0.72±0.05  |              |                    |
| 外导体<br>Outer Conductor                   | 材质 Material                                      | 铜箔箔+镀银铜线 TC Wire   |              |                    |
|  | 标称外径 Nom. Dia (mm)                               | 0.93±0.05  |              |                    |
|  | 编织覆盖率 Coverage Ratio(%)                          | 90±5   |              |                    |
| 护套<br>Jacket                             | 材质 Material                                      | 聚全氟乙烯 FEP  |              |                    |
|  | 标称外径 Nom. Dia (mm)                               | 1.15±0.05  |              |                    |
| 电气性能 Electrical Characteristics          |  |  |              |                    |
| 项目 Item                                  | 标准值 Standard Value                               | 项目 Item  | 频率 Frequency | 标准值 Standard Value |
| 阻抗 Impedance (Ω)                         | 50±2   | 衰减<br>Attenuation @ 20 °C<br>(dB/m)  | 1 GHz        | 1.88               |
| 电容 Capacitance (pF/m)                    | 98   |  | 2 GHz        | 2.55               |
| 速率 Velocity (%)                          | 70   |  | 3 GHz        | 3.05               |
| 驻波比 VSWR                                 | ≤ 1.30@ DC-6GHz                                  |  | 4 GHz        | 3.52               |
| 最大工作电压<br>Max. Operating Voltage(V)      | 1000   |  | 5 GHz        | 4.05               |
| 最大工作频率<br>Max. Operating Frequency( GHz) | 6  |  | 6 GHz        | 4.40               |
| <b>可靠性 Dependability</b>                 |  |  |              |                    |
| 最小弯曲半径(单次) Min. Bending Radius/Single    |  | mm   | 5            |                    |
| 最小弯曲半径(重复) Min. Bending Radius/Repeated  |  | mm   | 10           |                    |
| 工作温度范围 Operating Temperature             |  | °C   | -55- +200    |                    |
| 包装 Packing                               |  |  |              |                    |
| 包装方式 Packing Mode                        | 纸盘 Papery Reel                                   |  |              |                    |
| 包装长度 The Length of Each Reel(m)          | 1000   |  |              |                    |
| 每盘段数 The Joints of Each Reel             | ≤5   |  |              |                    |
| 最小段长 Min. Segment Length(m)              | ≥20  |  |              |                    |
| 使用提示 Trips for Use                       |  |  |              |                    |
| 存储环境 Storage Environment                 | 温度: 30°C以下, 湿度: 20-65%                           |  |              |                    |
| 最佳保存周期 The Best Save Cycle               | 2 个月, 2 个月以上上锡效果变差, 但电性能不受影响, 夏季高温高湿环境开封后需尽快流转   |  |              |                    |
| 加工温度 Processing Temperature              | 可短时承受 260°C 的高温, 300°C 以上易发生分解, 400°C 以上发生显著的热分解 |  |              |                    |
| 铁氟龙收缩 Teflon Shrink                      | 材料的固有属性, 绝缘 0.2mm 以下, 护套 0.3mm 以下                |  |              |                    |
| 护套窜动 Jacket Taaverse                     | 加工长度(护套预留长度) 低于 5CM 时易发生                         |  |              |                    |

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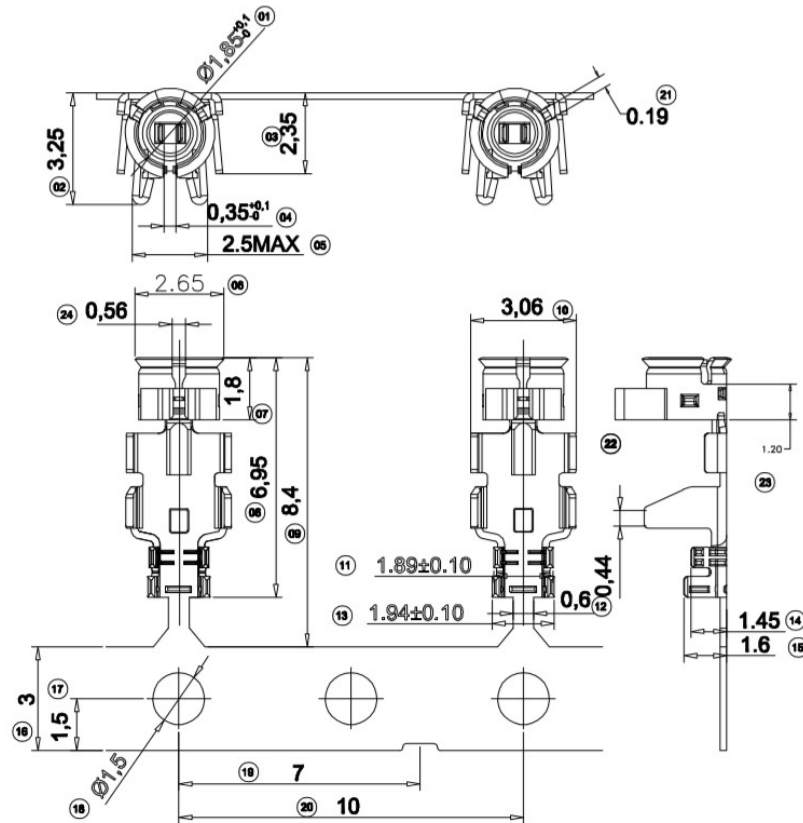


## 八、Terminal material report 端子材质报告

| 化学成分 CHEMICAL COMPOSITION % |       |        |       |    | 化学标准 JIS H 3100:2012 |       |        |          |
|-----------------------------|-------|--------|-------|----|----------------------|-------|--------|----------|
| Cu                          | Sn    | P      | Zn    | Ni | Pb                   | Fe    | Al     | Cu+Sn+P≥ |
| 64.06                       | 0.002 | 0.0003 | 35.91 | /  | 0.0055               | 0.002 | 0.0001 | /        |

| 物理性能 PHYSICAL PROPERTY |            |            | 性能标准 JIS H 3100:2012 |      | 件数 | 重量/kg |
|------------------------|------------|------------|----------------------|------|----|-------|
| 抗拉 (Mpa)               | 延伸率 (%)    | 维氏硬度 (HV)  | 公差 (mm)              | 弯曲试验 |    |       |
| 524                    | 8          | 175        | -0.01                | 无裂纹  |    |       |
| 降伏 (Mpa)               | 粗糙度 正 (um) | 粗糙度 反 (um) |                      |      |    |       |
| /                      | /          | /          |                      |      |    |       |



**NOTE:**

- 塑胶材料: 热塑性塑胶;  
HOUSING MATERIAL: THERMOPLASTIC PLASTIC, UL 94V-0;  
端子材料: 铜合金, 表面镀金1.0-1.5μ;  
CONTACT MATERIAL: COPPER ALLOY, GOLD PLATED 1.0-1.5μ;  
外壳材料: 铜合金, 表面镀金1.0-1.5μ;  
SHELL MATERIAL: COPPER ALLOY, GOLD PLATED 1.0-1.5μ;
- 产品性能:  
PERFORMANCE:  
2.1. 接触阻抗: 中心导体20mΩ Max, 外壳10Ω Max.  
CONTACT RESISTANCE: 20mΩHM Max.  
2.2. 耐电压: 200V AC, 1 Minute;  
DIELECTRIC WITHSTANDING VOLTAGE: 200V AC FOR 1MINUTE;  
2.3. 绝缘阻抗: 500MΩ Min.  
INSULATION RESISTANCE: 500MΩHM Min.  
2.4. 插拔耐久性: 30次 Min.  
DURABILITY: 30TIMES Min.  
2.5. VSWR 1.5max at 0.1GHz-3GHz; 1.5max at 3GHz-6GHz  
驻波比 在 0.1GHz-3GHz 之间, 驻波比最大1.3;  
在 3GHz-6GHz 之间, 驻波比最大 1.5.  
2.6. SALT SPRAY 5±1% SALT CONCENTRATION 48±4 HOURS 35±2°C  
盐雾要求 盐水浓度 (重量比) 5±1%, 时间 48 小时
- 技术要求:  
TECHNICAL REQUIREMENT:  
3.1. 特性阻抗: 50±3Ω;  
CHARACTERISTIC IMPEDANCE: 50±3ΩHM

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## 九、Reliability testing环境可靠性试验报告

### 1 Environmental experiment环境试验

| High and low temperature and humidity test report |   |          |   |                          |        |                   |
|---|---|----------|---|--------------------------|--------|-------------------|
| test project                                      | High temperature, low temperature and constant humidity test  |          |   |                          |        |                   |
| name  | Built-in antenna (WWXL6010191)  | date     | 2023.09.13                                |                          |        |                   |
| device  | Constant temperature and humidity test box network analyzer   | Quantity | 5PCS                                      |                          |        |                   |
| Inspectin standards                               | 1. There are no defects such as peeling off, cracks, wrinkles, etc. on the metal surface; non-metal parts must not have defects such as discoloration, cracking, deformation, degumming.<br>2. The electrical test meets the design requirements; the voltage standing wave ratio test is satisfactory. |          |   |                          |        |                   |
| Test name   | Pilot projects  | request  | experiment method                         | Actual test data         | result |                   |
|   |   |          |   |                          | sample | Assessment result |
| High temperature test                             | Temperature (°C)  | +85±3    | 9 according to GB2423.1-89 Method         | +87<br>1.2<br>2.3<br>1   | 1      | qualified         |
|   | Test sample temperature stabilization time (H)  |          |   |                          | 2      | qualified         |
|   | Test duration (h)   |          |   |                          | 3      | qualified         |
|   | Recovery time (h)   |          |   |                          | 4      | qualified         |
|   |   |          |   |                          | 5      | qualified         |
| Low temperature test                              | Temperature (°C)  | -45±3    | 8th in accordance with GB2423.1-89 Method | -46<br>1.2<br>2.4<br>1.1 | 1      | qualified         |
|   | Test sample temperature stabilization time (h)  |          |   |                          | 2      | qualified         |
|   | Test duration (h)   |          |   |                          | 3      | qualified         |
|   | Recovery time (h)   |          |   |                          | 4      | qualified         |
|   |   |          |   |                          | 5      | qualified         |
| Constant Damp Heat Test                           | Temperature (°C)  | +40±2    | According to GB2423.3-93 Section 5        | +42<br>92<br>22          | 1      | qualified         |
|   | Relative  |          |   |                          | 2      | qualified         |
|   |   |          |   |                          | 3      | qualified         |

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|  |                                     |   |        |     |   |           |
|--|-------------------------------------|---|--------|-----|---|-----------|
|  | humidity (%)                        | 1 | Method | 1.1 | 4 | qualified |
|  | Test duration (h) Recovery time (h) |   |        |     | 5 | qualified |

b. Salt spray test

| Salt fog test report        |   |                                    |                   |         |
|-----------------------------|---|------------------------------------|-------------------|---------|
| Test item                   | Salt spray test   |                                    |                   |         |
| Name                        | Built-in antenna (WWXL6010191)  | date of observation                | 2023.09.13        |         |
| Device name                 | Salt spray corrosion test box   | Test quantity                      | 5 PCS             |         |
| Test method                 | The test samples were put into the modulated salt solution test chamber and salt spray corrosion chamber for continuous spray test  |                                    |                   |         |
| Salt solution concentration | 52g/L   | PH Value of Salt Solution: 6.5-7.2 | Test cycle: 24h   |         |
| Actual test data            | 55g/L   | PH Value of Salt Solution: 6.8     | Test cycle: 26h   |         |
| Test standard               | Tests were carried out according to GB/T10125 "Artificial Atmosphere Corrosion Test and Salt Spray Test"; Results According to GB/T6461-2002 "Metal and other inorganic coatings on metal substrates after corrosion test are samples and specimens |                                    |                   |         |
| Test result                 |   |                                    |                   |         |
| NO                          | Corrosion resistance grade  | Actual test data                   | Assessment result | Remarks |
| 1                           | Rp/Ra=10/10vsB  | Rp/Ra=10/10vsB                     | qualified         |         |
| 2                           | Rp/Ra=10/10vsB  | Rp/Ra=10/10vsB                     | qualified         |         |
| 3                           | Rp/Ra=10/10vsB  | Rp/Ra=10/10vsB                     | qualified         |         |
| 4                           | Rp/Ra=10/10vsB  | Rp/Ra=10/10vsB                     | qualified         |         |
| 5                           | Rp/Ra=10/10vsB  | Rp/Ra=10/10vsB                     | qualified         |         |

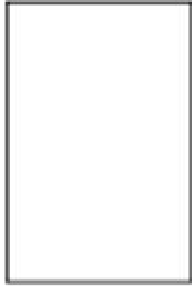
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### 3. Tensile test

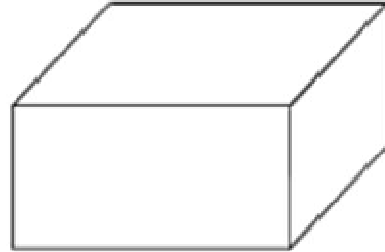
| 拉力测试报告 (Test Report)         |   |                           |                    |                               |  |                        |                             |
|------------------------------|---|---------------------------|--------------------|-------------------------------|--|------------------------|-----------------------------|
| 样品名称<br>(Product name)       | ANT00213-6A   | 样品型号<br>(Part Model)      | WWXL6010191        | 环境温度<br>(Ambient temperature) | 20±5℃  | 测试日期<br>(Date of test) | 2023.09.13                  |
| 样品数量<br>(Specimens quantity) | 3PCS  | 客户料号<br>(Customer number) | 360100423          | 相对湿度<br>(Relative humidity)   | 50-60%RH   | 委托单位<br>(Client/Dept)  | 品质部<br>(Quality Department) |
| 测试原因<br>(Test reasons)       | <input checked="" type="checkbox"/> 新型号材料验证 New model material verification<br><input type="checkbox"/> 新工艺验证 New Process Verification<br><input type="checkbox"/> ORT测试 ORT test<br><input type="checkbox"/> 过期物料 Expired materials<br><input type="checkbox"/> 客户投诉/要求 Customer Complaints/requests<br><input type="checkbox"/> 高不良率 High non-performing rate<br><input type="checkbox"/> 其他: Others: |                           |                    | 测试依据<br>(Test documentation)  | <input type="checkbox"/> 产品图纸 Product drawings<br><input checked="" type="checkbox"/> 天线可靠性检验基准书 Antenna reliability test reference book<br><input type="checkbox"/> 客户要求 Customer requirements<br><input type="checkbox"/> 出货检验基准书 Shipping inspection reference book<br><input type="checkbox"/> 其他: Others: |                        |                             |
| 测试项目:<br>(Test project)      | 拉力测试 Tensile test   |                           |                    |                               |  |                        |                             |
| 测试条件:<br>(Test condition)    | 1. Ø1.13 线径端子拉力大于 1kgf 端子脱落后表盘数据大于 1kgf The tensile force of ø1.13 wire diameter terminal is greater than that of 1kgf The dial data is greater than 1KGF after the terminal is dropped<br>2. 测试频率: 保持 2S Test frequency: Hold 2s   |                           |                    |                               |  |                        |                             |
| 测试要求<br>(Test note)          | 要求: 端子脱落后表盘数据大于 1kgf Requirement: dial data greater than 1kgf after terminal dropping   |                           |                    |                               |  |                        |                             |
| 试验设备<br>(Test equipment)     | 设备名称<br>The name of the device  | 设备型号<br>Type of equipment | 校验日期<br>Check date | 下次校验日期<br>Date of next check  |  |                        |                             |
|                              | 数字式推拉力计<br>Digital push-pull force meter  | H5001809695               | 2023.01.4          | 2024.01.3                     |  |                        |                             |
| 测试图片<br>(Test picture)       | 1. 试验过程图片 Experiment Process Picture<br>  |                           |                    |                               |  |                        |                             |
| 试验结果<br>(Test result)        | 实验后端子拉力: 1.88kgf 2.15kgf 1.44kgf 拉力大于 1kgf 则合格 After the experiment, the terminal tension was 1.88 KGF, 2.15 KGF, 1.44 KGF If the tensile force is greater than 1 kgf, it is qualified  |                           |                    |                               |  |                        |                             |
| 最终判定<br>(final result)       | <input checked="" type="checkbox"/> 合格 Qualified <input type="checkbox"/> 不合格 Disqualified  |                           |                    |                               |  |                        |                             |
| 备注 (comments):               |   |                           |                    |                               |  |                        |                             |
| 测试 (Name of operator):       | 孙毅 Sun Yi   | 审核 (Checked by):          | 曹勇                 | 核准 (Approved by)              | 董晓燕 Tong Xiaoyan   |                        |                             |

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## 十、Packing instructions 包装说明:



100PCS/Pouch



30Pouch/1Caron

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