

# CP215-ST 承认书

## (公章)

供应商名称： 四川博安通通信技术有限公司

物料描述： 内置天线-2.4/5.8/7.3G-白色 1.13 锡锡线-1 代端子  
-L=330mm-FPC-40.6×19.8mm

物料编码： 004.032.0053140

承认书版次： A0-1216

(备注：此份承认书为广州源动智慧体育科技有限公司使用)

| 供应商承认栏 |     |     | 源动承认栏 |    |    |
|--------|-----|-----|-------|----|----|
| 制定     | 审核  | 批准  | 研发    | 品质 | 环保 |
| 许张金    | 张光伟 | 刘立华 |       |    |    |

## 文件修订履历

[illegible]

开发案号 Project: Y2511281564

日期 Date: 2026.02.01

版本 Ver.: A0-0201

# 承认书

## Antenna SPEC

客户名称 Customer name: 源动 Source of Power

调试项目 Customer project: CP238-CS

客户料号 Customer P/N: 004.032.0053140

博安通料号 B&T P/N: 74390005

规格描述 Spec: 内置天线-2.4/5.8/7.3G-白色 1.13 锡锡线-1 代端子

-L=330mm-FPC-40.6×19.8mm

Spec.: Built-in Antenna - 2.4/5.8/7.3G - White 1.13 Tin Wire - 1th Generation

Terminal - L=330mm - FPC - 40.6×19.8mm

出厂签章 Sealed by corporation:

| 编写<br>compilation | 审核<br>verify         | 批准<br>approval  |
|-------------------|----------------------|-----------------|
| 许张金<br>Xuzhangjin | 张光伟<br>Zhangguangwei | 刘立华<br>Liulihua |

客户承认签章 Sealed by customer:

| 检查<br>check | 审核<br>verify | 批准<br>approval |
|-------------|--------------|----------------|
|             |              |                |

博安通联系方式 Contact information of B&T

|                                                        |                    |                                 |
|--------------------------------------------------------|--------------------|---------------------------------|
| 业务联系人: 龙明国<br>Contact person for sales:<br>Longmingguo | 手机 MB: 18576042661 | 邮箱 E-mail: longmg@tech-now.com  |
| 技术联系人: 张光伟<br>Contact person for sales:<br>Longmingguo | 手机 MB: 18060818565 | 邮箱 E-mail: zhanggw@tech-now.com |
| 品质联系人: 谭杰鑫<br>Contact person for Quality:<br>Tanjiexin | 手机 MB: 18181766292 | 邮箱 E-mail: tanjx@tech-now.com   |

表单编号: B&T-OR-EN-002      版本: B3

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3、产品图面 Product drawing

| 版次      |  | 修改日期     | 修订内容              |
|---------|--|----------|-------------------|
| A0      |  | 25-12-10 |                   |
| A0-1215 |  | 25-12-15 | 冲断位改为手撕位          |
| A0-0126 |  | 26-1-26  | 更新FPC外形尺寸及手撕拉耳位面积 |
| A0-0129 |  | 26-1-29  | 更换1代端子            |

Technical drawing of the product showing front and side views. The front view (top) shows a rectangular component with dimensions  $\times 40.60 \pm 0.30$  and  $\times 22.00 \pm 0.30$ . It includes labels for '手撕拉耳位' (hand-tear ear position), 'BAT-CP238-CS-WIFI1-A0', '丝印白色' (white silk print), and '正面黑色油墨' (black ink on the front). The side view (bottom) shows the component's profile with dimensions  $\times 330 \pm 3$  (white) and  $\times 330 \pm 3$  (white). It includes labels for '折弯应力孔-10' (bending stress hole-10), '反面线路与背胶同一面 (油墨覆盖)' (reverse side circuit and back glue on the same side (ink covered)), and '方框内不背胶 其它区域背胶' (no back glue in the box, back glue in other areas).

技术要求

1: 天线焊接部位牢固, 线缆尺寸准确 (端子维持力  $\geq 0.8\text{Kgf}$ ).

2: 丝印颜色为亮白色, 字体清晰不易脱落.

3: "\*" 为 IQC 重点检验尺寸.

4: 包装以及品质标准分别参考博安通包装规范和博安通品质标准.

5: 材料符合 ROHS2.0 要求.

6: 端子杯口 不对 朝向.

| 序号          | 零件名称   | 备注 | 设计       | 审核 | 批 | 重量 | 数量 | 比例  | 单位 | 名称                                                       |
|-------------|--------|----|----------|----|---|----|----|-----|----|----------------------------------------------------------|
| ①           | 1代RF端子 |    | 1 > X    |    |   |    |    | 1:1 | mm | 内置天线-2.4G/5.8G/7.3G-白色1.13锡锡线-1代端子-L=330mm-FPC-40.6×22mm |
| ②           | 同轴线    |    | 1~9.99   |    |   |    |    |     |    | 项目号                                                      |
| ③           | FPC    |    | 10~19.99 |    |   |    |    |     |    | 料号                                                       |
|             |        |    | 20~39.99 |    |   |    |    |     |    |                                                          |
|             |        |    | 40~      |    |   |    |    |     |    |                                                          |
| 第 1 张 共 1 张 |        |    |          |    |   |    |    |     |    | 博安通                                                      |

[illegible]

## 4、供应商样品测试报告 Supplier Sample Test Report

**B&T 博安通** 试产全尺寸测量报告 Trial production full-size measurement report

|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|---------------------------------|--------------------------------|----------------------------------|--------------------------|--|--|--------------------------|
| 图号drawing number: Y2511281564<br>内置天线-2.4G/5.8G/7.3G-白色<br>1.13棉线-1代端子-L=330mm-<br>零件描述Part Description: FPC-40.6×19.8mm<br>零件修正/更改Parts<br>correction/modification: |                    | 提交版本Submit version number: /<br>模具/模穴Mold/cavity#: /<br>材料material: |             | 供应商输入Supplier<br>Input: 博安通通信技术有限公司<br>报告提交日期Report<br>submission date: 2025/12/5<br>审核Review: 谭杰鑫 |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
| 图纸规格Drawing specifications                                                                                                                                           |                    | 供应商检查结果Supplier inspection results                                  |             | 供应商检查分析Supplier<br>inspection and analysis                                                         |                                         | 备注Remarks                          |                                 |                                |                                  |                          |  |  |                          |
| 序号<br>serial<br>number                                                                                                                                               | 尺寸规格<br>Dimensions | +偏差<br>bias                                                         | -偏差<br>bias | 样品号Sample No.                                                                                      | 尺寸规格偏差Deviation from size specification | 平均值<br>average                     | % 偏差百分比<br>Deviation percentage | 接受/不接受<br>Accept/Not<br>Accept | 供应商<br>备注<br>Supplier<br>remarks | 客户处理Customer<br>Handling |  |  |                          |
| 1                                                                                                                                                                    | 关键                 | 330.00                                                              | 5.00        | 5.00                                                                                               | 卡尺                                      | 331.00 331.00 330.00 329.00 330.00 | 1.000 1.000 0.000 -1.000 0.000  | 330.200                        | 20%                              | 20%                      |  |  |                          |
| 2                                                                                                                                                                    | 关键                 | 40.60                                                               | 0.30        | 0.30                                                                                               | 卡尺                                      | 40.65 40.60 40.62 40.60 40.70      | 0.050 0.000 0.020 0.000 0.100   | 40.634                         | 33%                              | 0%                       |  |  |                          |
| 3                                                                                                                                                                    | 关键                 | 19.80                                                               | 0.30        | 0.30                                                                                               | 卡尺                                      | 19.85 19.80 19.20 19.80 19.81      | 0.050 0.000 -0.600 0.000 0.010  | 19.692                         | 17%                              | 200%                     |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |
| 序号<br>serial<br>number                                                                                                                                               | NOTES              |                                                                     |             | 检查工<br>具<br>inspe<br>ction<br>tool                                                                 | 样品<br>Sample#1                          | 样品<br>Sample#2                     | 样品<br>Sample#3                  | 样品<br>Sample#4                 | 样品<br>Sample#5                   | 供应商备注Supplier remarks    |  |  | 客户处理Customer<br>Handling |
|                                                                                                                                                                      |                    |                                                                     |             |                                                                                                    |                                         |                                    |                                 |                                |                                  |                          |  |  |                          |

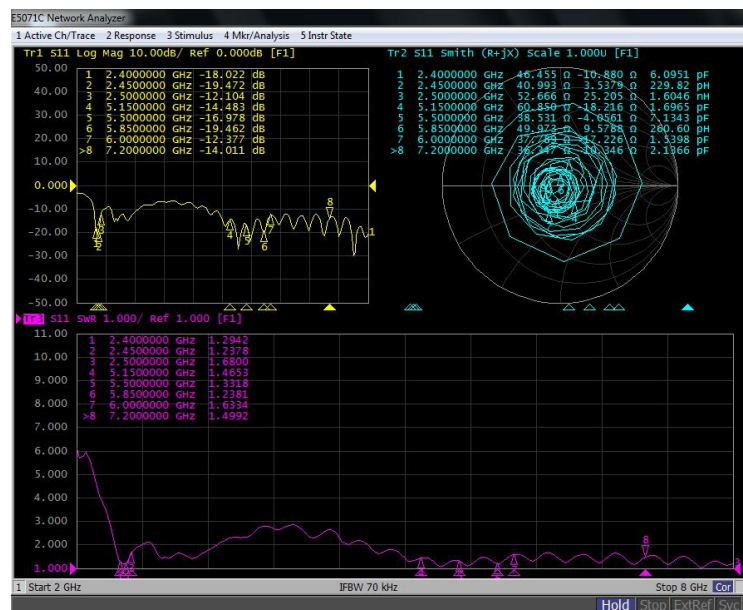
注:(检查工具:卡尺,千分尺,三次元,2.5D投影仪,高度规,针规,目视)Note:(inspection tools: caliper, micrometer, 3D, 2.5D projector, Height gauge, Needle gauge, Visual inspection)

## 5、性能参数 Performance Specifications

| 电气参数 Electrical parameter        |                                                |
|----------------------------------|------------------------------------------------|
| 频率范围<br>Freq Range               | 2400~2500/5150~5850/6000~7500MHz               |
| 输入阻抗<br>Characteristic Impedance | 50 $\Omega$                                    |
| 驻波比<br>VSWR                      | 对照工程封样<br>Comparison of project sample sealing |
| 功率容量<br>The Max input power      | <10w                                           |
| 极化方式<br>Polarization mode        | 线极化<br>Linear polarization                     |
| 辐射方向<br>Radiation direction      | 全向<br>omnidirectional                          |
| 接头型号<br>Joint type               | 端子<br>IPEX connector                           |
| 机械参数 Mechanical parameter        |                                                |
| 线长<br>Length                     | 330 $\pm$ 3mm                                  |
| 端子维持力<br>Maintain the force      | $\geq$ 0.8kgf                                  |
| 同轴电缆<br>Coaxial cable            | 白色1.13锡锡线<br>White 1.13 Tin Solder Wire        |
| 盐雾测试<br>Salt spray test          | 24H                                            |
| 环境参数 Environment parameter       |                                                |
| 工作温度<br>Operating Temp           | -30 $^{\circ}$ C~65 $^{\circ}$ C               |

## 6、电气性能测试报告 Electrical test report (单天线 Single antenna)

### ➤ 天线 S11 参数图 Antenna S11 parameter diagram



### ➤ 驻波比数据 Standing wave ratio data

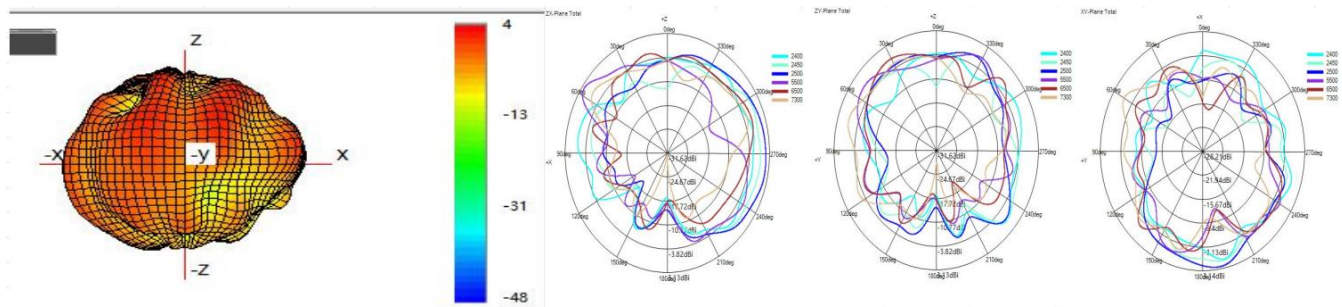
|          |      |      |      |      |      |      |      |      |
|----------|------|------|------|------|------|------|------|------|
| Freq/MHz | 2400 | 2450 | 2500 | 5150 | 5500 | 5850 | 6000 | 7200 |
| VSWR     | 1.29 | 1.23 | 1.66 | 1.46 | 1.33 | 1.23 | 1.63 | 1.49 |

➤ 天线暗室测试数据 Antenna darkroom test data

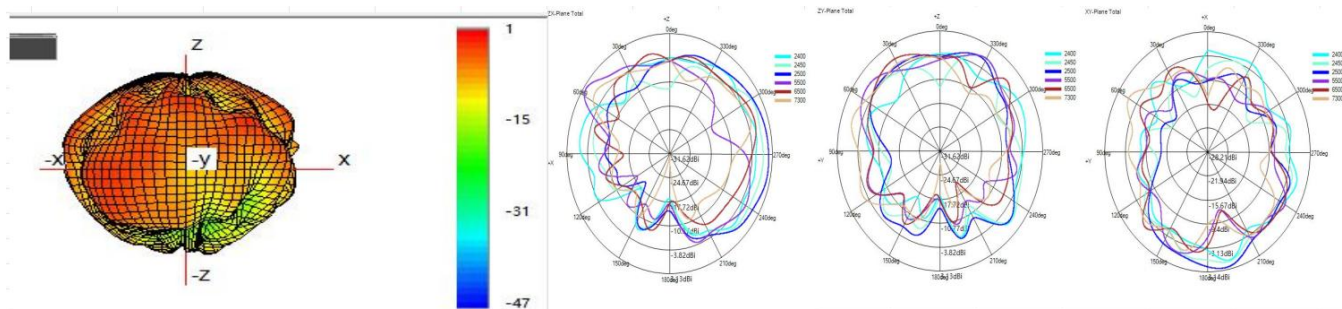
| Freq(MHz) | Gain(dBi) | Efficiency(%) |
|-----------|-----------|---------------|
| 2400      | 3.10      | 42.63         |
| 2410      | 2.72      | 42.97         |
| 2420      | 2.39      | 42.83         |
| 2430      | 2.17      | 42.34         |
| 2440      | 2.02      | 41.29         |
| 2450      | 1.78      | 40.81         |
| 2460      | 1.80      | 41.04         |
| 2470      | 2.23      | 41.92         |
| 2480      | 2.51      | 43.13         |
| 2490      | 2.53      | 43.99         |
| 2500      | 2.45      | 44.86         |
| 5150      | 2.39      | 31.77         |
| 5200      | 2.04      | 31.98         |
| 5250      | 1.83      | 32.44         |
| 5300      | 1.42      | 35.92         |
| 5350      | 1.30      | 34.11         |
| 5400      | 0.83      | 34.90         |
| 5450      | 1.26      | 34.20         |
| 5500      | 1.95      | 35.64         |
| 5550      | 1.79      | 36.94         |
| 5600      | 0.83      | 35.26         |
| 5650      | 0.89      | 34.81         |
| 5700      | 0.07      | 34.72         |
| 5750      | 0.01      | 35.45         |
| 5800      | 0.73      | 35.54         |
| 5850      | 0.83      | 37.87         |
| 5900      | 0.18      | 30.11         |
| 5950      | 0.21      | 29.64         |
| 6000      | 0.11      | 30.50         |
| 6050      | 0.34      | 29.71         |
| 6100      | 0.38      | 30.30         |
| 6150      | 1.09      | 30.94         |
| 6200      | 1.74      | 30.33         |
| 6250      | 1.38      | 27.29         |
| 6300      | 1.42      | 29.79         |
| 6350      | 0.59      | 29.95         |
| 6400      | 0.72      | 31.43         |
| 6450      | 0.90      | 32.33         |
| 6500      | 0.81      | 29.08         |
| 6550      | 0.53      | 30.24         |
| 6600      | -0.07     | 29.29         |
| 6650      | 0.56      | 31.12         |
| 6700      | 0.88      | 30.53         |
| 6750      | 0.55      | 29.05         |
| 6800      | 0.24      | 30.89         |
| 6850      | -0.75     | 29.98         |
| 6900      | 0.29      | 33.41         |
| 6950      | 0.21      | 32.07         |
| 7000      | 0.46      | 31.86         |
| 7050      | 0.69      | 30.73         |
| 7100      | 0.50      | 30.49         |
| 7150      | 0.92      | 32.73         |
| 7200      | 0.12      | 30.52         |
| 7250      | 0.57      | 31.44         |
| 7300      | 0.38      | 30.45         |

## ➤ 天线方向图 Antenna direction diagram

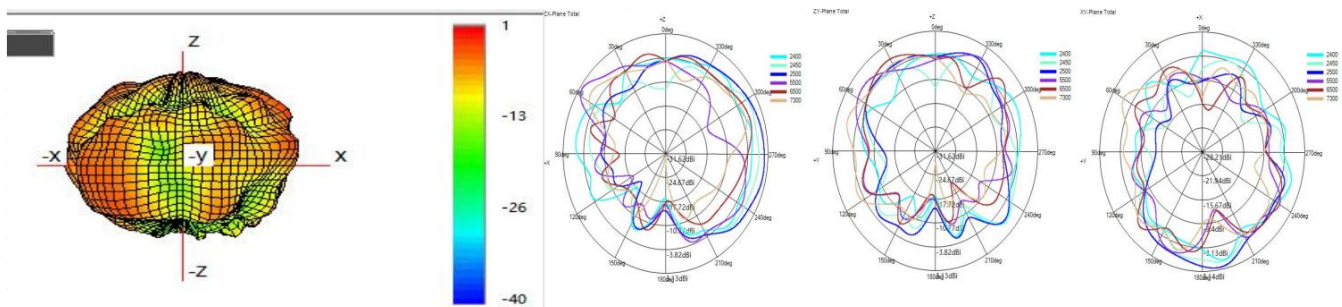
2450M 3D-E1-E2-H



5500M 3D-E1-E2-H



6500M 3D-E1-E2-H



## 7、禁用物质保证(Certification of Restricted Substance)

GYMGEST

## 禁用物质保证(Certification of Restricted Substance)

我方保证所提供的物料，完全遵守签核的源控公司质量和环保协议中的各项条款，物料中禁用物含量，符合最新版《有害物质管理规范》中的各项标准。

We hereby certify that all the Material fully conform to the requirements of the YuanKong' s Declaration of Conformity that had been signed, and the maximum concentration value of restricted substance in Materials comply with the latest 《Regulations on the management of hazardous substances.》

| 原材料测试清单<br>Raw Material Test List |                              |                               |                                   |                                           |           |                            |               |                |                  |                        |                |                  |                               |                     |            |                                                                                       |
|-----------------------------------|------------------------------|-------------------------------|-----------------------------------|-------------------------------------------|-----------|----------------------------|---------------|----------------|------------------|------------------------|----------------|------------------|-------------------------------|---------------------|------------|---------------------------------------------------------------------------------------|
| 客户编码 (Customer P/N):              |                              |                               |                                   | 物料名称 (Part Name)                          |           | 供应商 (Vendor) 四川博安通通信技术有限公司 |               |                |                  |                        |                |                  | 供应商标号 (Vendor P/N):           |                     |            |                                                                                       |
| No<br>(序号)                        | Raw Material Name<br>(原材料名称) | Raw Material Model<br>(原材料型号) | Raw Material Supplier<br>(原材料供应商) | Banned Substance Content/ppm (禁止物质含量/ppm) |           |                            |               |                |                  |                        |                | Test Lab<br>检测机构 | Test Report Number<br>(检测报告号) | Test Date<br>(测试日期) | 第三方测试报告附件  |                                                                                       |
|                                   |                              |                               |                                   | Pb<br>(铅)                                 | Cd<br>(镉) | Hg<br>(汞)                  | Cr+6<br>(六价铬) | PBBs<br>(聚溴化苯) | PBDEs<br>(聚溴化苯醚) | 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 邻苯二甲酸二丁酯 (DBP) |                  |                               |                     |            | 邻苯二甲酸二辛酯 (DOP)                                                                        |
| 1                                 | 线Wire                        | FFP                           | 永航YH                              | ND                                        | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | CTI                           | WGFPC26000015815    | 2026/1/19  |  |
|                                   |                              | 镀锌铜线                          | 永航YH                              | ND                                        | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | SGS                           | A2250416468101001   | 2025/6/20  |  |
| 3                                 | 端子Terminal                   | 磷青铜 Phosphor Bronze           | 彩美CM                              | 4                                         | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | SGS                           | CAMBXC25027363005   | 2025/11/13 |  |
| 4                                 |                              | FBT                           | 彩美CM                              | ND                                        | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | CTI                           | A2250134628103008E  | 2025/3/12  |  |
| 5                                 | PPC                          | PI                            | 博永源BYK                            | ND                                        | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | SGS                           | SHARC25031840901    | 2025/12/8  |  |
| 6                                 |                              | 背胶 Tape                       | 博永源BYK                            | ND                                        | ND        | ND                         | ND            | ND             | ND               | ND                     | ND             | ND               | SGS                           | SHARC25032493501-1  | 2026/1/6   |  |

1. 上述均质材料如果属非金属，还需回答三个问题：①是否含卤素： ☐ 含有YES ☒ 不含NO ②是否含红磷： ☐ 含有YES ☒ 不含NO ③是否含三氧化二锑： ☐ 含有YES ☒ 不含NO

1. If the homogeneous material is nonmetallic, three questions need to be answered: ① Does it contain halogen? ☐ YES ☒ NO? ② Does it contain red phosphorus? ☐ YES ☒ No? ③ Does it contain antimony trioxide? ☐ YES ☒ No?

2. 上述材料或材质如果属于涂料、油墨、胶粘剂或清洗剂，请将其VOC测试报告编号填写到对应备注栏里，同时将报告附于原材料检测清单下面

2. If the above materials or materials belong to paint, ink, adhesive or cleaning agent, please fill in the VOC test report number in the corresponding remarks column, and attach this report to the raw material test list.

## 产品包装规范

### PACKING CRITERION

产品料号：74390005

产品规格：内置天线-2.4/5.8/7.3G-白色 1.13 锡锡线-1 代端子-L=330mm-FPC-40.6×19.8mm

Spec: Built-in Antenna - 2.4/5.8/7.3G - White 1.13 Tin Wire - 1th Generation Terminal - L=330mm - FPC - 40.6×19.8mm

标签要求（根据客户名称参考对应的成品标签制作要求，无要求即按普通标签要求） contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

内标签 长 10cm 宽 6cm 左右

|       |               |     |          |
|-------|---------------|-----|----------|
| 需方    | *****         |     |          |
| 供方    | 四川博安通通信技术有限公司 |     |          |
| 物料编码  | *****         |     |          |
| 生产单号  | *****         |     |          |
| 品名规格  | *****         | 检验员 | **       |
| 数量/单位 | *****         | 日期  | ****.*** |
| 追溯码   | *****         | 流水号 | **       |

外标签 长 10cm 宽 6cm 左右

|       |               |     |          |
|-------|---------------|-----|----------|
| 需方    | *****         |     |          |
| 供方    | 四川博安通通信技术有限公司 |     |          |
| 物料编码  | *****         |     |          |
| 生产单号  | *****         |     |          |
| 品名规格  | *****         | 检验员 | **       |
| 数量/单位 | *****         | 日期  | ****.*** |
| 追溯码   | *****         | 流水号 | **       |

#### 二、装箱要求 Packing requirement

作业说明 Operating description:

##### 1. 内包装 inner packing

产品 Product 100 PCS 装小袋 in small bags,  
200 PCS 装大袋 in large bags .

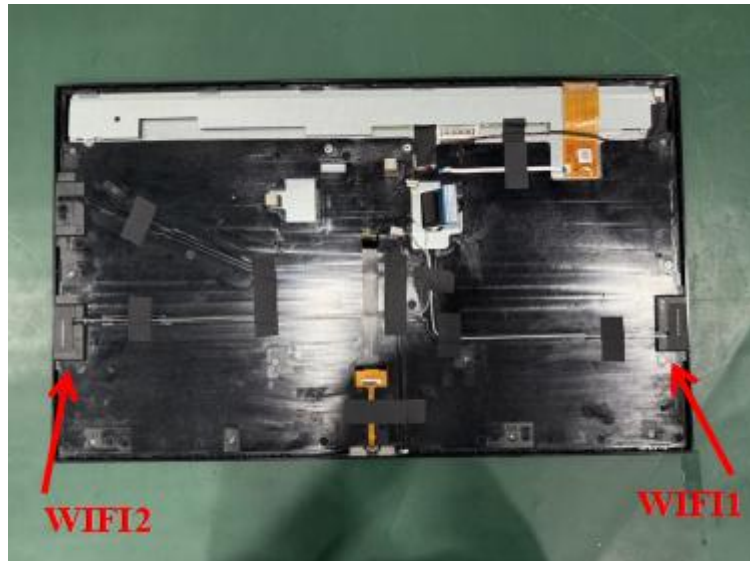
##### 2. 外包装 outer packing:

根据实际包装定数量 Quantity according to actual packing/箱 carton

#### 注意事项 Notice:

- 是否要增设隔板、珍珠棉 Whether to add partitions, pearl cotton;
- 标签的贴附，如 ROHS 等 Labeling, such as ROHS;

## 9、天线装配示意图 Antenna installation position Diagram



10、可靠性测试报告 Reliability Test Report

恒温恒湿试验报告  
Temperature & Humidity Test Report

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                         |                 |                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|-----------------|-----------------|
| 客户/供应商<br>Customer/Supplier | 源动                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 订单号<br>Order No.     | /                                       |                 |                 |
| 物料编码<br>Material Code       | Y2511281564                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 产品名称<br>Product Name | 内置天线 (built-in antenna)                 |                 |                 |
| 试验数量<br>Test Quantity       | 5pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 试验日期<br>Test Date    | 2025. 12. 03~2025. 12. 05               |                 |                 |
| 评级标准<br>Standard            | GB/T2423. 2-2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 试验设备名称<br>Equipment  | 恒温恒湿机<br>Temperature & Humidity Chamber |                 |                 |
| 试验类型<br>Test Type           | <input type="checkbox"/> 物料 (material) <input type="checkbox"/> 成品 (finished product) <input checked="" type="checkbox"/> 样品 (Sample)                                                                                                                                                                                                                                                                                                                                                             |                      |                                         |                 |                 |
| 判定标准<br>Criteria            | 1、试验前后外观要求：金属表面镀层应无剥落，裂痕起皱，分离等。非金属部分不应发生变色，开裂，变形，脱胶等不良；<br>2、电气性能测试符合标准要求：驻波比与封样保持一致。<br>1. Appearance requirements before and after the experiment: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. Non metallic parts should not have discoloration, cracking, deformation, delamination, or other defects;<br>2. The electrical performance test meets the standard requirements: the standing wave ratio should be consistent with the sealed sample. |                      |                                         |                 |                 |
| 试验条件<br>Test Conditions     | 温度:70℃, 湿度:80%RH<br>时间: 持续48H<br>Temperature: 70 °C, humidity: 80% RH<br>Duration: 48 hours                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                         |                 |                 |
| 附图                          |                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                         |                 |                 |
| 检验记录<br>Inspection Records  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                         |                 |                 |
| 样品编号<br>sample number       | 1 #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 #                  | 3 #                                     | 4 #             | 5 #             |
| 试验前外观<br>Appearance before  | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验后外观<br>Appearance after   | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验前性能测试<br>Performance      | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验后性能测试<br>Performance      | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 实验结果判定<br>Experimental      | <input checked="" type="checkbox"/> 合格 (qualified) <input type="checkbox"/> 不合格 (unqualified)                                                                                                                                                                                                                                                                                                                                                                                                     |                      |                                         |                 |                 |
| 测试<br>test                  | 蒋红英<br>Jiang Hongying                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 审核<br>to examine     | 谭杰鑫<br>Tan Jiexin                       | 核准<br>approval  | 曾康<br>Zeng Kang |

表单编号: B&T-QR-QA-026    版本: B2    保存期限: 3年

高低温冷热冲击试验报告  
High and Low Temperature Thermal Shock Test Report

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                         |                 |                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|-----------------|-----------------|
| 客户/供应商<br>Customer/Supplier    | 源动                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 订单号<br>Order No.     |                                         |                 |                 |
| 物料编码<br>Material Code          | Y2511281564                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 产品名称<br>Product Name | 内置天线 (built-in antenna)                 |                 |                 |
| 试验数量<br>Test Quantity          | 5pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 试验日期<br>Test Date    | 2025. 12. 04~2025. 12. 05               |                 |                 |
| 评级标准<br>Standard               | GB/T2423. 2-2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 试验设备名称<br>Equipment  | 恒温恒湿机<br>Temperature & Humidity Chamber |                 |                 |
| 试验类型<br>Test Type              | <input type="checkbox"/> 物料 (material) <input type="checkbox"/> 成品 (finished product) <input checked="" type="checkbox"/> 样品 (Sample)                                                                                                                                                                                                                                                                                                                                                             |                      |                                         |                 |                 |
| 判定标准<br>Criteria               | 1、试验前后外观要求：金属表面镀层应无剥落，裂痕起皱，分离等。非金属部分不应发生变色，开裂，变形，脱胶等不良；<br>2、电气性能测试符合标准要求：驻波比与封样保持一致。<br>1. Appearance requirements before and after the experiment: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. Non metallic parts should not have discoloration, cracking, deformation, delamination, or other defects;<br>2. The electrical performance test meets the standard requirements: the standing wave ratio should be consistent with the sealed sample. |                      |                                         |                 |                 |
| 试验条件<br>Test Conditions        | 70℃持续2H、-40℃持续2H，6次循环，共24小时<br>70 °C for 2 hours, -40 °C for 2 hours, 6 cycles, for a total of 24 hours                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                         |                 |                 |
| 附图                             |                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                         |                 |                 |
| 检验记录<br>Inspection Records     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                         |                 |                 |
| 样品编号<br>sample number          | 1 #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 #                  | 3 #                                     | 4 #             | 5 #             |
| 试验前外观<br>Appearance before the | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验后外观<br>Appearance after the  | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验前性能测试<br>Performance testing | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 试验后性能测试<br>Performance testing | 合格<br>qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified      | 合格<br>qualified                         | 合格<br>qualified | 合格<br>qualified |
| 实验结果判定<br>Experimental result  | <input checked="" type="checkbox"/> 合格 (qualified) <input type="checkbox"/> 不合格 (unqualified)                                                                                                                                                                                                                                                                                                                                                                                                     |                      |                                         |                 |                 |
| 测试<br>test                     | 蒋红英<br>Jiang Hongying                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 审核<br>to examine     | 谭杰鑫<br>Tan Jiexin                       | 核准<br>approval  | 曾康<br>Zeng Kang |

表单编号: B&T-QR-QA-026 版本: B2 保存期限: 3年

盐雾试验测试报告  
Salt spray test report

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                             |                      |                                     |                 |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|-----------------|-----------------|
| 客户/供应商<br>Customer/Supplier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 源动                                                                                                                                                                                          | 订单号<br>Order No.     |                                     |                 |                 |
| 物料编码<br>Material Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Y2511281564                                                                                                                                                                                 | 产品名称<br>Product Name | 内置天线 (built-in antenna)             |                 |                 |
| 试验数量<br>Test Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5pcs                                                                                                                                                                                        | 试验日期<br>Test Date    | 2025. 12. 04~2025. 12. 05           |                 |                 |
| 评级标准<br>Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GB/T2423. 2-2001                                                                                                                                                                            | 试验设备名称<br>Equipment  | 盐雾试验机<br>Salt spray testing machine |                 |                 |
| 试验类型<br>Test Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> 物料 (material) <input type="checkbox"/> 成品 (finished product) <input checked="" type="checkbox"/> 样品 (Sample)                                                       |                      |                                     |                 |                 |
| 判定标准<br>Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 产品表面外露区域不可有氧化、锈蚀现象；其它区域盐雾试验后的氧化/生锈面积 < 1.0%<br>The exposed area of the product surface must not have oxidation or rust;<br>Oxidation/rusting area after salt spray test in other areas<1.0% |                      |                                     |                 |                 |
| <p>试验条件:</p> <p>1. 配制浓度 (5±1) %，雾化后的收集液，不得重复使用。将雾化前的盐溶液置于 35±2℃环境，确保盐溶液的 pH 值为中性 (6.5~7.2) ；<br/>压力桶温度 47±1℃，喷雾压力保持在 1.00±0.01kgf/cm<sup>2</sup>，喷雾量 1.0~2.0ml/80cm<sup>2</sup>/h；<br/>试验室温度 35±1℃，湿度须保持在&gt;85%RH；</p> <p>2. 在工作空间内任一位置，用面积为 80cm<sup>2</sup> 的漏斗收集连续雾化24H的盐雾沉降量，平均每小时收集到 1.0~2.0mL 的溶液。测试时间24H</p> <p>Experimental conditions:</p> <p>1. The collected liquid after atomization with a concentration of (5 ± 1)% should not be reused. Place the salt solution before atomization in an environment of 35 ± 2 °C, ensuring that the pH value of the salt solution is neutral (6.5-7.2) ;<br/>The pressure barrel temperature is 47 ± 1 °C, the spray pressure is kept at 1.00 ± 0.01kgf/cm<sup>2</sup>, and the spray volume is 1.0~2.0ml/80cm<sup>2</sup>/h;<br/>The laboratory temperature is 35 ± 1 °C, and the humidity must be maintained at&gt;85% RH;</p> <p>2. Collect the salt spray deposition of continuous atomization for 24 hours at any position in the workspace using a funnel with an area of 80cm<sup>2</sup>, and collect an average of 1.0-2.0mL of solution per hour. Testing time: 24 hours</p> |                                                                                                                                                                                             |                      |                                     |                 |                 |
| 附图                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                          |                      |                                     |                 |                 |
| 检验记录<br>Inspection Records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                             |                      |                                     |                 |                 |
| 样品编号<br>sample number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 #                                                                                                                                                                                         | 2 #                  | 3 #                                 | 4 #             | 5 #             |
| 试验前外观<br>Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 合格<br>qualified                                                                                                                                                                             | 合格<br>qualified      | 合格<br>qualified                     | 合格<br>qualified | 合格<br>qualified |
| 试验后外观<br>Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 合格<br>qualified                                                                                                                                                                             | 合格<br>qualified      | 合格<br>qualified                     | 合格<br>qualified | 合格<br>qualified |
| 试验前性能测试<br>Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified                                                                                                                                                                             | 合格<br>qualified      | 合格<br>qualified                     | 合格<br>qualified | 合格<br>qualified |
| 试验后性能测试<br>Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 合格<br>qualified                                                                                                                                                                             | 合格<br>qualified      | 合格<br>qualified                     | 合格<br>qualified | 合格<br>qualified |
| 实验结果判定<br>Experimental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> 合格 (qualified) <input type="checkbox"/> 不合格 (unqualified)                                                                                               |                      |                                     |                 |                 |
| 测试<br>test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 蒋红英<br>Jiang Hongying                                                                                                                                                                       | 审核<br>to examine     | 谭杰鑫<br>Tan Jiexin                   | 核准<br>approval  | 曾康<br>Zeng Kang |

表单编号: B&amp;T-QR-QA-027 版本: B2 保存期限: 3年

表单编号: B&amp;T-QR-EN-002 版本: B3

端子维持力试验报告  
Terminal Maintenance Force Test Report

|                                          |                                                                                                                                        |                      |                                               |                 |                 |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------|-----------------|-----------------|
| 客户/供应商<br>Customer/Supplier              | 源动                                                                                                                                     | 订单号<br>Order No.     |                                               |                 |                 |
| 物料编码<br>Material Code                    | Y2511281564                                                                                                                            | 产品名称<br>Product Name | 内置天线 (built-in antenna)                       |                 |                 |
| 试验数量<br>Test Quantity                    | 5pcs                                                                                                                                   | 试验日期<br>Test Date    | 2025. 12. 05                                  |                 |                 |
| 评级标准<br>Standard                         | GB/T2423. 2-2001                                                                                                                       | 试验设备名称<br>Equipment  | 端子维持力测试仪<br>Terminal Maintenance Force Tester |                 |                 |
| 试验类型<br>Test Type                        | <input type="checkbox"/> 物料 (material) <input type="checkbox"/> 成品 (finished product) <input checked="" type="checkbox"/> 样品 (Sample)  |                      |                                               |                 |                 |
| 判定标准<br>Criteria                         | 端子无脱落、松动等<br>The terminals are not loose or detached                                                                                   |                      |                                               |                 |                 |
| 试验条件<br>Test Conditions                  | 温度: 18-30℃、湿度: ≤80%RH<br>试验维持力要求: ≥0.8Kgf<br>Temperature: 18-30 °C, humidity: ≤ 80% RH<br>Test maintenance force requirement: ≥ 0.8Kgf |                      |                                               |                 |                 |
| 附图                                       |                                                      |                      |                                               |                 |                 |
| <b>检验记录</b><br><b>Inspection Records</b> |                                                                                                                                        |                      |                                               |                 |                 |
| 样品编号<br>sample number                    | 1 #                                                                                                                                    | 2 #                  | 3 #                                           | 4 #             | 5 #             |
| 试验前外观<br>Appearance                      | 合格<br>qualified                                                                                                                        | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验后外观<br>Appearance                      | 合格<br>qualified                                                                                                                        | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验前性能测试<br>Performance                   | 合格<br>qualified                                                                                                                        | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验后性能测试<br>Performance                   | 合格<br>qualified                                                                                                                        | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 实验结果判定<br>Experimental                   | <input checked="" type="checkbox"/> 合格 (qualified) <input type="checkbox"/> 不合格 (unqualified)                                          |                      |                                               |                 |                 |
| 测试<br>test                               | 蒋红英<br>Jiang Hongying                                                                                                                  | 审核<br>to examine     | 谭杰鑫<br>Tan Jiexin                             | 核准<br>approval  | 曾康<br>Zeng Kang |

表单编号: B&T-QR-QA-027 版本: B2 保存期限: 3年

端子插拔力试验报告  
Terminal Insertion and Insertion Force Test Report

|                             |                                                                                                                                                                                                |                      |                                               |                 |                 |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------|-----------------|-----------------|
| 客户/供应商<br>Customer/Supplier | 源动                                                                                                                                                                                             | 订单号<br>Order No.     |                                               |                 |                 |
| 物料编码<br>Material Code       | Y2511281564                                                                                                                                                                                    | 产品名称<br>Product Name | 内置天线 (built-in antenna)                       |                 |                 |
| 试验数量<br>Test Quantity       | 5pcs                                                                                                                                                                                           | 试验日期<br>Test Date    | 2025. 12. 05                                  |                 |                 |
| 评级标准<br>Standard            | GB/T2423. 2-2001                                                                                                                                                                               | 试验设备名称<br>Equipment  | 端子维持力测试仪<br>Terminal Maintenance Force Tester |                 |                 |
| 试验类型<br>Test Type           | <input type="checkbox"/> 物料 (material) <input type="checkbox"/> 成品 (finished product) <input checked="" type="checkbox"/> 样品 (Sample)                                                          |                      |                                               |                 |                 |
| 判定标准<br>Criteria            | 端子插入力/拔出力符合要求, 且端子无脱落、损伤等不良<br>The insertion/extraction force of the terminal meets the requirements, and the terminal has no defects such as detachment or damage                             |                      |                                               |                 |                 |
| 试验条件<br>Test Conditions     | 常温常湿; 端子与座子正常连接, 插入力0.8~3Kgf/拔出力≥0.8kgf;<br>Normal temperature and humidity; terminals and sockets are properly connected, with an insertion force of 0.8~3Kgf and a pull-out force of ≥0.8kgf |                      |                                               |                 |                 |
| 附图                          |                                                                                                              |                      |                                               |                 |                 |
| 检验记录<br>Inspection Records  |                                                                                                                                                                                                |                      |                                               |                 |                 |
| 样品编号<br>sample number       | 1 #                                                                                                                                                                                            | 2 #                  | 3 #                                           | 4 #             | 5 #             |
| 试验前外观<br>Appearance         | 合格<br>qualified                                                                                                                                                                                | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验后外观<br>Appearance         | 合格<br>qualified                                                                                                                                                                                | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验前性能测试<br>Performance      | 合格<br>qualified                                                                                                                                                                                | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 试验后性能测试<br>Performance      | 合格<br>qualified                                                                                                                                                                                | 合格<br>qualified      | 合格<br>qualified                               | 合格<br>qualified | 合格<br>qualified |
| 实验结果判定<br>Experimental      | <input checked="" type="checkbox"/> 合格 (qualified) <input type="checkbox"/> 不合格 (unqualified)                                                                                                  |                      |                                               |                 |                 |
| 测试<br>test                  | 蒋红英<br>Jiang Hongying                                                                                                                                                                          | 审核<br>to examine     | 谭杰鑫<br>Tan Jiexin                             | 核准<br>approval  | 曾康<br>Zeng Kang |

表单编号: B&T-QR-QA-027 版本: B2 保存期限: 3年