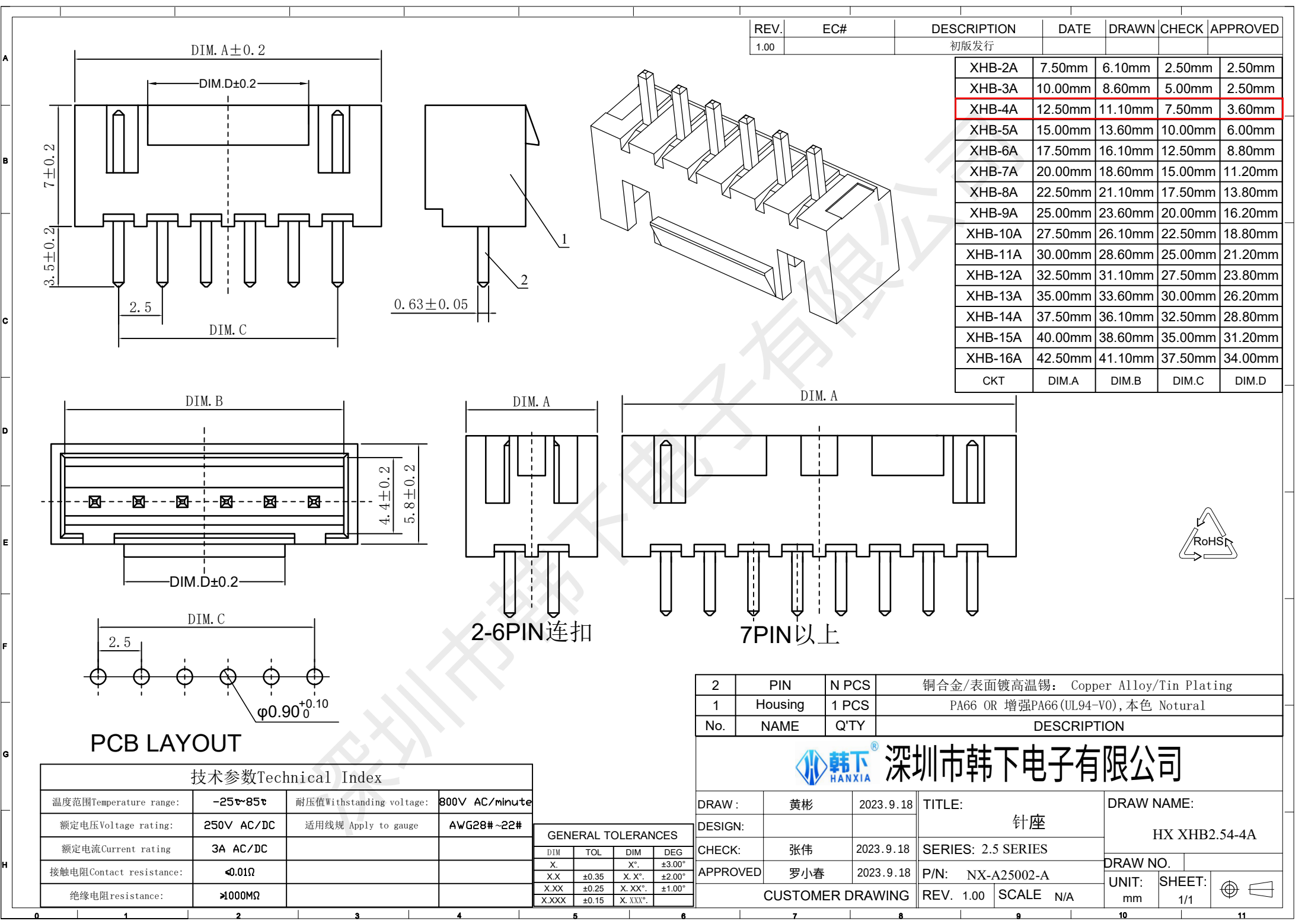
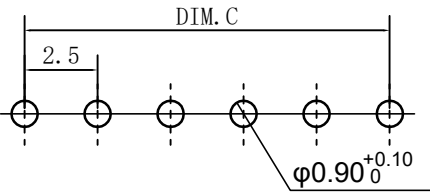
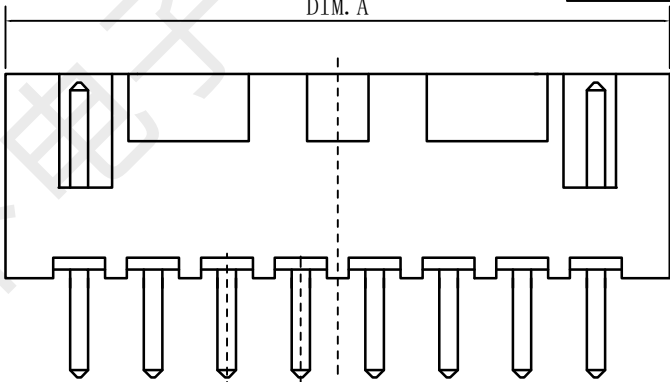
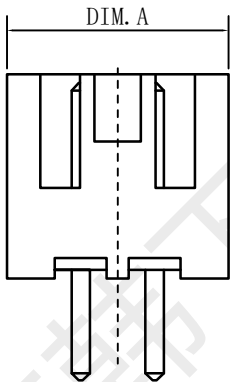
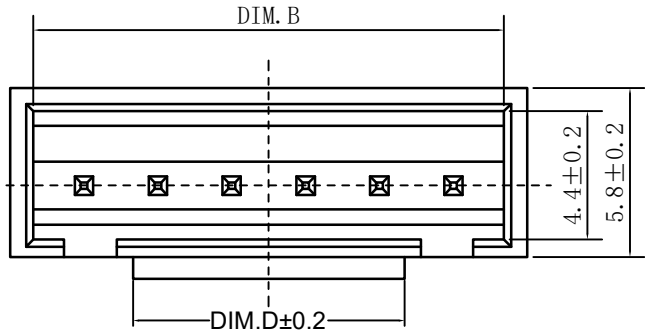
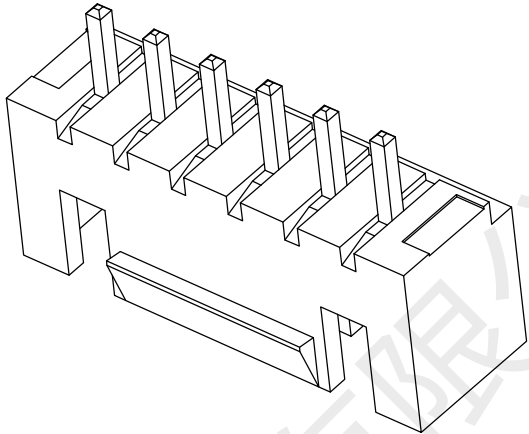
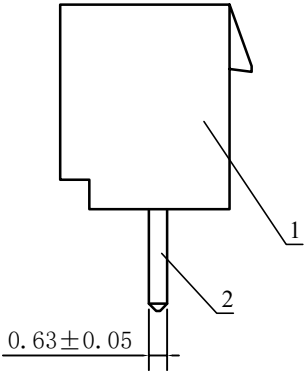
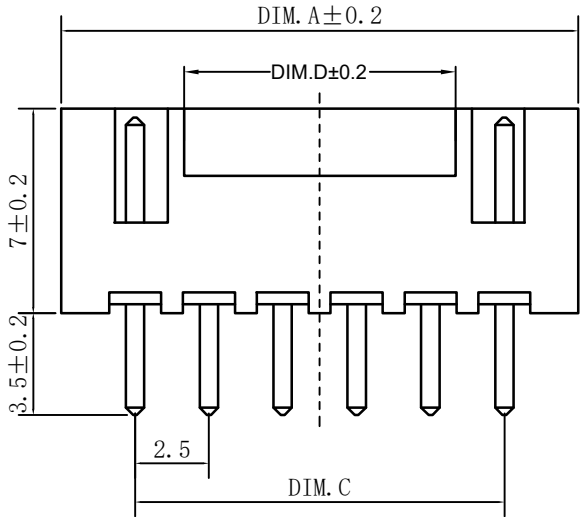




| REV.    | EC#     | DESCRIPTION | DATE    | DRAWN   | CHECK | APPROVED |
|---------|---------|-------------|---------|---------|-------|----------|
| 1.00    |         | 初版发行        |         |         |       |          |
| XHB-2A  | 7.50mm  | 6.10mm      | 2.50mm  | 2.50mm  |       |          |
| XHB-3A  | 10.00mm | 8.60mm      | 5.00mm  | 2.50mm  |       |          |
| XHB-4A  | 12.50mm | 11.10mm     | 7.50mm  | 3.60mm  |       |          |
| XHB-5A  | 15.00mm | 13.60mm     | 10.00mm | 6.00mm  |       |          |
| XHB-6A  | 17.50mm | 16.10mm     | 12.50mm | 8.80mm  |       |          |
| XHB-7A  | 20.00mm | 18.60mm     | 15.00mm | 11.20mm |       |          |
| XHB-8A  | 22.50mm | 21.10mm     | 17.50mm | 13.80mm |       |          |
| XHB-9A  | 25.00mm | 23.60mm     | 20.00mm | 16.20mm |       |          |
| XHB-10A | 27.50mm | 26.10mm     | 22.50mm | 18.80mm |       |          |
| XHB-11A | 30.00mm | 28.60mm     | 25.00mm | 21.20mm |       |          |
| XHB-12A | 32.50mm | 31.10mm     | 27.50mm | 23.80mm |       |          |
| XHB-13A | 35.00mm | 33.60mm     | 30.00mm | 26.20mm |       |          |
| XHB-14A | 37.50mm | 36.10mm     | 32.50mm | 28.80mm |       |          |
| XHB-15A | 40.00mm | 38.60mm     | 35.00mm | 31.20mm |       |          |
| XHB-16A | 42.50mm | 41.10mm     | 37.50mm | 34.00mm |       |          |
| CKT     | DIM.A   | DIM.B       | DIM.C   | DIM.D   |       |          |



|                                                                                                                                                            |         |           |                                      |           |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------------------------------------|-----------|---------------------------------------------------------------------------------------|
| 2                                                                                                                                                          | PIN     | N PCS     | 铜合金/表面镀高温锡: Copper Alloy/Tin Plating |           |                                                                                       |
| 1                                                                                                                                                          | Housing | 1 PCS     | PA66 OR 增强PA66(UL94-V0), 本色 Notural  |           |                                                                                       |
| No.                                                                                                                                                        | NAME    | Q'TY      | DESCRIPTION                          |           |                                                                                       |
| <div><div><div>韩下®<br/>HANXIA</div></div><div>深圳市韩下电子有限公司</div></div> |         |           |                                      |           |                                                                                       |
| DRAW :                                                                                                                                                     | 黄彬      | 2023.9.18 | TITLE:                               |           | DRAW NAME:                                                                            |
| DESIGN:                                                                                                                                                    |         |           | 针座                                   |           | HX XHB2.54-4A                                                                         |
| CHECK:                                                                                                                                                     | 张伟      | 2023.9.18 | SERIES: 2.5 SERIES                   |           |                                                                                       |
| APPROVED                                                                                                                                                   | 罗小春     | 2023.9.18 | P/N: NX-A25002-A                     |           | DRAW NO.                                                                              |
| CUSTOMER DRAWING                                                                                                                                           |         |           | REV. 1.00                            | SCALE N/A | UNIT: mm                                                                              |
|                                                                                                                                                            |         |           |                                      |           | SHEET: 1/1                                                                            |
|                                                                                                                                                            |         |           |                                      |           |  |



PCB LAYOUT

| 技术参数Technical Index     |            |                          |                |
|-------------------------|------------|--------------------------|----------------|
| 温度范围Temperature range:  | -25℃~85℃   | 耐压值Withstanding voltage: | 800V AC/minute |
| 额定电压Voltage rating:     | 250V AC/DC | 适用线规 Apply to gauge      | AWG28#~22#     |
| 额定电流Current rating      | 3A AC/DC   |                          |                |
| 接触电阻Contact resistance: | ≤0.01Ω     |                          |                |
| 绝缘电阻resistance:         | ≥1000MΩ    |                          |                |

GENERAL TOLERANCES

| DIM   | TOL   | DIM    | DEG    |
|-------|-------|--------|--------|
| X     |       | X°     | ±3.00° |
| X.X   | ±0.35 | X.X°   | ±2.00° |
| X.XX  | ±0.25 | X.XX°  | ±1.00° |
| X.XXX | ±0.15 | X.XXX° |        |



深圳市韩下电子有限公司  
Shenzhen Hanxia Electronic Co., Ltd  
Tel: 0755-23086569

## 承 认 书

### SPECIFICATION FOR APPROVAL

产 品 编 码

Material code:

X2611

产品名称 Project:

针座

规格型号 Part No:

HX XHB2.54-4A

贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |                                                                                      |
|-------------|-----|--------------------------------------------------------------------------------------|
| 拟制/Drawn    | 黄彬  |  |
| 审核/Check    | 张伟  |                                                                                      |
| 批准/Approved | 罗小春 |                                                                                      |

**1、SCOPE:** (适用范围)**1.1** This specification covers production and inspection of Connector.

本规范内容适用于本公司普通系列型条形连接器（针座）产品的生产与检验.

**2、USE CONDITION:** (使用条件)**2.1 Ambient temperature Range:-40℃~+ 85℃**

环境温度：-40℃~+85℃

**2.2 Applicable Wire Sizes:AWG#28~#22**

适用线规： AWG#28~#22

**2.3 Applicable PC board thickness:1.2~1.6mm**

适用 PC 板厚度： 1.2~1.6 mm

**3、Appearance and Dimension:** (外观及尺寸)**3.1 Appearance:Product surface without defect、dirt、crack、and mechanical damang, Contact without rust,plating not oxidized and not peeled.**

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化、脱落等现象.

**3.2 Dimension:According to drawings**

外形尺寸：依照附图

**3.3 Exchangable:Exchangable with same specification products.**

互换性：相同规格应能互换

**4、Material:**

材 料 (以图纸为准)

| P/N<br>零件名称                   | Type<br>类 型        | Material<br>材 料                  | Finish<br>表面处理                          | Expiain<br>说 明     |
|-------------------------------|--------------------|----------------------------------|-----------------------------------------|--------------------|
| Terminal<br>端子                | Contact<br>插 簧     | Phosphor bronze<br>锡青磷铜 厚 0.15mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      | RoHS<br>Comp liant |
| Housing<br>孔 座                | Plastic<br>塑 壳     | Nylon66 UL94V-0                  | Color:White<br>颜色: 白色                   |                    |
| Opening Wafer<br>开口针座         | Contact<br>插 针     | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                    |
|                               | Plastic<br>塑 壳     | Nylon46 UL94V-0                  | Color: Beige<br>颜色: 米色                  |                    |
| Lips Wafer<br>闭口针座            | Contact<br>插 针     | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Gold Plating:3~4 μ " m<br>镀金: 3~4 μ " m |                    |
|                               | Plastic<br>塑 壳     | PBT UL94V-0                      | Color: White<br>颜色: 白色                  |                    |
| Tiepian Wafer<br>卧贴针座<br>立贴针座 | Contact<br>插 针     | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                    |
|                               | Solder tabs<br>焊护耳 | Phosphor bronze<br>锡青磷铜 厚 0.25mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                    |
|                               | Plastic<br>塑 壳     | Nylon46 UL94V-0                  | Color: Beige<br>颜色: 米色                  |                    |

**5、Electrical Performance:**

电 气 性 能

| N0.<br>序号 | Ltem<br>项 目                   | Requirement<br>技术要求    |
|-----------|-------------------------------|------------------------|
| 5.1       | Voltage Rated<br>额定电压         | 250V AC DC             |
| 5.2       | Current Rated<br>额定电流         | 3A AC DC               |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 0.01 \Omega$     |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 1000 M\Omega$    |
| 5.5       | Dielectric Strength<br>耐 压    | $\geq 1000V$ AC/minute |

**6、Mechanical Performance:**

机 械 性 能

| N0.<br>序号 | Ltem<br>项 目                              | Requirement<br>技术要求 |
|-----------|------------------------------------------|---------------------|
| 6.1       | Male contact Retention force<br>PIN 针固定力 | $\geq 15N$ per pin  |
| 6.2       | Female contact Retention force<br>端子固定力  | $\geq 15N$ per pin  |
| 6.3       | Plug-in force<br>插入力                     | $\leq 3N$ per pin   |
| 6.4       | Plug-out force<br>拔出力                    | $\geq 0.5N$ per pin |

**7、Endurance Characteristics:**

环 境 性 能

| N0.<br>序号 | Ltem<br>项 目           | Requirement<br>技术要求                                                                                                                                                      |
|-----------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1       | Soldering rest<br>可焊性 | Time: $2.5 \pm 0.5S$<br>时间: $2.5 \pm 0.5S$<br><br>Temperature: $250 \pm 5^\circ C$<br>温度: $250 \pm 5^\circ C$<br><br>Area of Soldering: $\geq 95\%$<br>焊锡面积: $\geq 95\%$ |

|     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.2 | Resistance to soldering Heat<br>耐焊接热 | Time: $5 \pm 1\text{S}$<br>时间: $5 \pm 1\text{S}$<br><br>Temperature: $230 \pm 5^\circ\text{C}$<br>温度: $230 \pm 5^\circ\text{C}$<br><br>Appearance: NO Damage<br>外观: 无损坏                                                                                                                                                                                                                                 |
| 7.3 | Heat test<br>耐热性                     | Time: 96h<br>时间: 96 小时<br><br>Temperature: $+85 \pm 3^\circ\text{C}$<br>温度: $+85 \pm 3^\circ\text{C}$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$                                                                                                                                                                     |
| 7.4 | Cold test<br>耐冷性                     | Time: 48h<br>时间: 48 小时<br><br>Temperature: $-25 \pm 3^\circ\text{C}$<br>温度: $-25 \pm 3^\circ\text{C}$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$                                                                                                                                                                     |
| 7.5 | Temperature Cycling<br>温度循环          | Low temperature: $-25 \pm 3^\circ\text{C}$<br>低温: $-25 \pm 3^\circ\text{C}$<br><br>High temperature: $85 \pm 3^\circ\text{C}$<br>高温: $85 \pm 3^\circ\text{C}$<br><br>For 5 cycles. test after keeping in Normal Condition for 30 min.<br><br>5 次循环后, 放置在正常环境中 30 分钟, 进行测试<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$ |

|     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.6 | Invariablenes humidity<br>恒定湿热 | <p>Temperature: <math>60 \pm 2^{\circ}\text{C}</math><br/>温度: <math>60 \pm 2^{\circ}\text{C}</math></p> <p>Relative humidity: 90%-96% RH<br/>相对湿度: 90%-96% RH</p> <p>Tim: 96h<br/>时间: 96 小时<br/>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 20 \text{ m}\Omega</math></p> <p>Insulation Resistance: <math>\geq 100 \text{ M}\Omega</math><br/>绝缘电阻: <math>\geq 100 \text{ M}\Omega</math></p>                                                                                                                                                               |
| 7.7 | Salt Spray<br>盐雾试验             | <p>Salt concentration: <math>5 \pm 1\%</math><br/>浓度: <math>5 \pm 1\%</math></p> <p>Temperature: <math>35 \pm 2^{\circ}\text{C}</math><br/>温度: <math>35 \pm 2^{\circ}\text{C}</math></p> <p>Tim: <math>16 \pm 2\text{h}</math><br/>时间: <math>16 \pm 2</math> 小时</p> <p>After salt is removed by running wafer and A drop is removed ,it is measured.</p> <p>把试验样品从试验箱顶悬挂下来, 采用浓度(<math>5 \pm 1</math>) %的氯化钠溶液, 连续雾化 16 小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物, 在常温常驻湿条件下恢复 1-2 小时, 外观无损伤</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 20 \text{ m}\Omega</math></p> |

## 8、Packaging Transportation Storage

包装、运输、贮存

### 8.1 Packaging

包装

- (1) **The packing of plastic inner is the plastic bag,the packing of inner terminal is panel mounting attach material packing, marked with product name, specification model, quantity, date in produced.**

塑件内包装为塑料袋， 端子内包装为盘装带料包装， 装（贴）入合格证， 注明产品名称、规格型号、数量生产日期

- (2) **Exterior package is carton, facing the packing list, the packing list marked with product name, specificcation model, quantity, date of dispatch.**

外包装为纸箱，贴装箱单、装箱单上注明产品名称、规格型号、数量、出货日期

- (3) **The product in the box must not rock.**

产品在箱内不晃动

### 8.2 Transportation

运输

**Allow for any way transportation, can't get wet and mechanical in jury.**

允许用任何方式运输，勿淋湿及机械性损伤

### 8.3 Storage

贮存

**The connector of packing finished should be in the ambient temperature between-10℃ to+40℃, Relative humidity≤80%. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.**

包装完毕的连接器应在环境温度为-10℃~+40℃, 相对湿度≤80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存