

产品图  
PRODUCT CHART DWG

公差表  
TOLERANCE UNLESS OTHERWISE SPECIFIED

|     |       |      |     |
|-----|-------|------|-----|
| X   | ±0.30 | X'   | ±6' |
| .X  | ±0.25 | .X'  | ±3' |
| .XX | ±0.20 | .XX' | ±2' |

未标注的公差按一般标准计算

韩下 HANXIA 深圳市韩下电子有限公司

|             |            |               |     |                          |                     |
|-------------|------------|---------------|-----|--------------------------|---------------------|
| 单位<br>UNITS | MM         | 制图<br>DRAWING | 黄彬  | 客户料号<br>PRODUCT PART NO. |                     |
| 比例<br>SCALE | 1:1        | 审核            | 张伟  | 产品名称<br>PRODUCT NR.      | HX AF 180° WJB 13.7 |
| 日期<br>DATE  | 2014/04/23 | 核准<br>APPD    | 罗小青 | 角法<br>TYPE               | 版本<br>VER           |
|             |            |               |     |                          | A0                  |

特性: Specifications:

电气: Electrical:

- 1. 接触阻抗: Contact Resistance: 30 milliohms MAX
- 2. 耐电压: Dielectric With Standing Voltage: 500 V AC AT Sea Level
- 3. 绝缘阻抗: Insulation Resistance: 1000 MEGA ohms MIN

机构: Mechanical:

- 1. 结合力: Mating Force: 40 N MAX 最大 40 N
- 2. 拔出力: Unmating Force: 7 N MIN 最少 7 N

材料: Material:

- 1. 塑胶: PBT.
- 2. 端子: Contact: C2680
- 3. 外壳: Shell: C2680

电镀: Finish:

- 1. 端子: Contact: Plated Gold in Mating Area: Tin/Lead On Solder Talls. 接触点镀金, 脚镀锡
- 2. 外壳: Shell: Nickel Plating . 镀镍

|            |                      |            |
|------------|----------------------|------------|
| 目录<br>MAPY | 设置内容<br>MODIFICATION | 日期<br>DATE |
|------------|----------------------|------------|

PCB LAYOUT



深圳市韩下电子有限公司

Shenzhen Hanxia Electronic Co., Ltd  
Tel: 0755-33819206 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

USB

规格型号 Part No:

HX AF 180° WJB13.7

#### 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 |  |

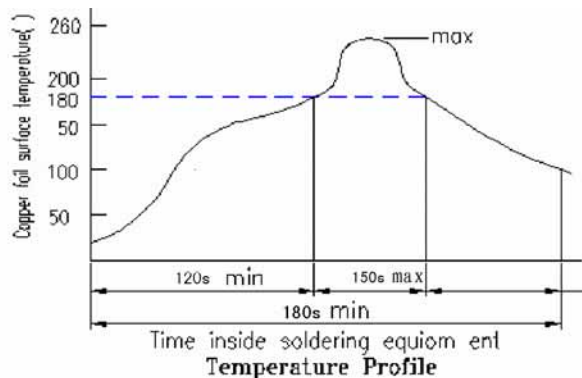


|  |                               |  |  |
|--|-------------------------------|--|--|
| RATING (额定值):                            |                               | DC 30V   | 1.5A   |
| PRACTICAL TEMPERATURE RANGE<br>使用温度范围    |                               | -25~85° C<br>在-25° C~+85° C 温度内使用  |  |
| STANDARD ATMOSPHEIC CONDITIONS<br>测试标准状况 |                               | UNLESS OTHERWISE SPECIFIED<br>THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:<br>(1) BETWEEN BODY AND CONDUCTOR: 5° C TO 35° C<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT: 45% TO 85%<br>(3) PRESSURE: 86Kpa TO 106Kpa<br>在没有指定的情况下测试温度、湿度、气压如下:<br>(1) 温度为 5° C~35° C<br>(2) 湿度为 45%~85%<br>(3) 气压为 86 Kpa~106Kpa |  |
| MECHANICAL (机械性能)                        |                               |  |  |
| ITEM 项目                                  |                               | TEST CONDITIONS 测试条件   | PERFORMANCE 规格   |
| 1  | CONNECTION FORCE<br>插入力度      | MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES.<br>依据标准的 PLUG GAUGE 做第 3 次拔插后测定  | 40N MAX  |
|  | DISCONNECTI ON FORCE<br>拔出力度  | MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES.<br>依据标准的 PLUG GAUGE 做第 3 次拔插后测定  | 7N MIN   |
| 2  | TERMINAL STRENGTH<br>端子强度     | A STATIC LOAD OF 0.1N/m(1kgf/cm)SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN IN ANY DIRECTION<br>向排脚先端的任意一个方向加 1 分钟 0.1N/m(1kgf/cm)的力度.   | THERE SHALL BE NO DAMAGE TO THE TERMINAL SUCH AS CRACKS, LOOSENESS OR PLAY ELECTRICAL ,AND MECHANICAL CHARACTERISTICS SHALL BE SATISFIED<br>在排脚中没有裂开、松动等异常, 满足于机械、电气性能 |
| ELECTRICAL (电气性能)                        |                               |  |  |
| ITEM 项目                                  |                               | TEST CONDITIONS 测试条件   | PERFORMANCE 规格   |
| 3.1                                      | CONTACT RESISTANCE<br>接触电阻    | MEASURED AT SMALL CURRENT (100m A OR LESS) 1000Hz<br>在微小电流 (100 m A) 以下测试  | 30m Ω MAX  |
| 3.2                                      | INSULATION RESISTANCE<br>绝缘电阻 | APPLY A VOLTAGE OF 100V DC FOR 1 MIN TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE:<br>(1) BETWEEN BODY AND CONDUCTOR<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT<br>(3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC100V 1 MIN<br>输入 100V DC 电压 1 分钟, 按以下接触方法测试:<br>(1) 插座体与排脚之间<br>(2) 不接触的排脚之间<br>(3) 插头插入时不接触排脚之间                       | 1000M Ω MIN  |

|     |                                   |  |  |
|-----|-----------------------------------|--|--|
| 3.3 | <b>DIELECTRIC STRENGTH</b><br>耐电压 | AC 500V rms(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA<br>(1) BETWEEN BODY AND CONDUCTOR<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT<br>(3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN<br>输入 AC 500V (50Hz)/min 电压 1 分钟感度电流为 0.5mA, 按以下接触方法测试:<br>(1) 插座体与排脚之间<br>(2) 不接触的排脚之间<br>(3) 插头插入时不接触排脚之间 | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC<br>没有绝缘破坏等异常 |
|-----|-----------------------------------|--|--|

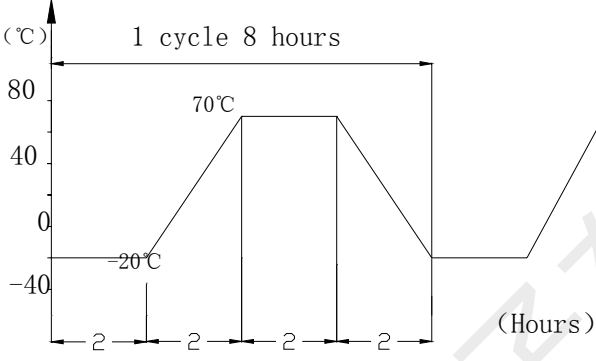
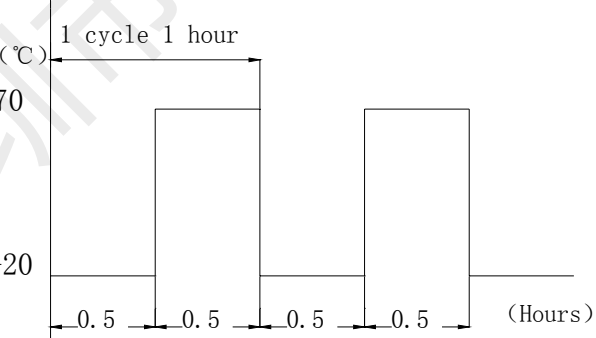
**URABILITY (耐久性)**

| ITEM 项目 | TEST CONDITIONS 测试条件  | PERFORMANCE 规格   |
|---------|---|--|
| 4.1     | <b>SOLDERABILITY TEST</b><br>可焊性试验<br><br>THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 250±5°C FOR 5±0.5 SECONDS<br>端子顶部被浸入锡池中 1mm 深,温度为 250±5°C,时间为 5±0.5 秒  | (1) SOLDER WETTING TIME SHALL BE 3 SEC OR LESS<br>焊接时间应少于 3 秒<br>(2) THE AREA OF SOLDERING SHOULD BE OVER 75%<br>焊接面积应有 75%以上      |
| 4.2     | <b>RESISTANCE TO SOLDERING HEAT TEST</b><br>耐焊性试验<br><br>REFLOW SOLDERING CONDITIONS:<br>PREHEAT:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH 180 .120S AFTER THE P.C.B ENTERED INTO THE SOLDERING EQUIPMENT.<br>TALLEST TEMPERATURE:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH THE PEAK TEMPERATURE OF 260±5 WITH IN 20 SECONDS.<br><br>过回流焊条件:<br>预热:电镀层表面的温度应达到 180°C,120s 后电路板进入回流焊设备。<br>最高温度:电镀层表面温度最高为 260±5°C且停留不超过 20 秒。 | WITHOUT DEFOR MATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br>本体无变形, 满足于机械、电气性能 |





|      |  |   |   |
|------|--|---|---|
| 4. 2 | <p>RESISTANCE TO SOLDERING HEAT TEST<br/>耐焊性试验</p> | <p>SOLDERING IRON METHOD:<br/>BIT TEMPERATURE <math>330 \pm 5^{\circ}\text{C}</math> APPLICATION TIME OF SOLDERING IRON <math>3 \pm 0.5</math> SEC<br/>HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL<br/>手焊接的时候温度需控制在 <math>330 \pm 5^{\circ}\text{C}</math> , 时间为 <math>3 \pm 0.5</math> 秒, 但不能在排脚上施加异常压力。</p>   | <p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>本体无变形, 满足于机械、电气性能</p>   |
| 4. 3 | <p>HUMIDITY TEST<br/>潮湿试验</p>                      | <p>THE JACK SHALL BE STORED AT A TEMPERATURE OF <math>40 \pm 2^{\circ}\text{C}</math> AND A HUMIDITY OF 90% TO 96% FOR 96 Hr, THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES<br/>放置 <math>40 \pm 2^{\circ}\text{C}</math> 的相应湿度为 90~96% Hr 环境中 96 小时后, 再将样板放在正常环境中 1 小时后进行测试</p>   | <p>THERE SHALL BE NO DAMAGE ON APPEARANCE.<br/>MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>外观无异常, 满足于机械、电气性能。</p>  |
| 4.4  | <p>HEAT TEST<br/>耐热试验</p>                          | <p>THE JACK SHALL BE STORED AT A TEMPERATURE OF <math>70 \pm 2^{\circ}\text{C}</math> FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM<br/>放置在温度 <math>70 \pm 2^{\circ}\text{C}</math> 中测试 96 小时后, 再放置正常室温中 1 小时来测定</p>   |   |
| 4. 5 | <p>COLD TEST<br/>耐寒试验</p>                          | <p>THE JACK SHALL BE STORED AT A TEMPERATURE OF <math>-25 \pm 3^{\circ}\text{C}</math> FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH<br/>放置在温度 <math>-25 \pm 3^{\circ}\text{C}</math> 中 96 小时后, 再放置常温常湿中 1 小时来测定</p>   | <p>THERE SHALL BE NO DAMAGE ON APPEARANCE<br/>MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>外观无异常, 满足于机械、电气性能</p>  |
| 4. 6 | <p>LIFE TEST<br/>寿命试验</p>                          | <p>WITHOUT LOAD<br/>CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 5000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN<br/>无负荷<br/>将结合了的标准PI ug(尽量要近于中心的)在1分钟内以10-25的速度, 进行5000次插入, 拔出<br/>LOAD:<br/>AT RATING CONDITION (NON-INDUCTIVE LOAD)<br/>CONNECTION AND DISCONNECTION SHALL BE MADE 5000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN<br/>负荷<br/>以定格状态(无诱导负荷)在1 分钟内以10-20次的速度进行 5000 次插入、拔出</p> | <p>(1) CONTACT RESISTANCE SHALL BE <math>\leq 0.1 \Omega</math><br/>(2) DISCONNECTION FORCE SHALL BE 0.8 TO 2.0N<br/>(3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>(1) 接触电阻 <math>\leq 0.1 \Omega</math><br/>(2) 拔出力是 0.8~2.0N<br/>(3) 其它:满足于机械、电气性能</p> |

|            |  |   |  |
|------------|--|---|--|
| <p>4.7</p> | <p>TEMPERATURE CYCLING TEST<br/>温度循环测试</p> | <p>THE JACK SHALL BE SUB JECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWED IN THE FIGURE,AND THEN SHALL RETURNED ALLOWED TO REMAIN IN ROOM AMBIENT CONDITION FOR 30 MINUTES<br/>将插座以下列条件作 5 个循环，然后放回室内环境 30 分钟</p> <p>Temp(°C)</p>  <p>(Hours)</p>      | <p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.<br/>INSERTION &amp; EXTRACTION FORCE:3 TO 20N<br/>CONTACT RESISTANCE:MAX.30M Ω<br/>INSULATION RESISTANCE: MIN.100 M Ω<br/>DIELECTRIC WITHSTANDING VOLTAGE: 100VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂<br/>插拔力：3N 至 20N<br/>接触电阻：最大 30m Ω<br/>绝缘电阻：最小 100 M Ω<br/>绝缘耐压：最小 100VAC（端子之间）</p> |
| <p>4.8</p> | <p>COLD&amp;HEAT SHOCK TEST<br/>冷热冲击测试</p> | <p>THE JACK SHALL BE SUBJECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWED IN THE FIGURE,AND THEN SHALL RETURNED AND ALLOWED TO REMAIN IN ROOM AMBIENT CONDITION FOR 30 MINUTES<br/>将插座以下列条件作 5 个循环，然后放回室内环境 30 分钟</p> <p>TEMP (°C)</p>  <p>(Hours)</p> | <p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.<br/>INSERTION &amp; EXTRACTION FORCE:3 TO 25N<br/>CONTACT RESISTANCE:MAX.30M Ω<br/>INSULATION RESISTANCE: MIN.100 M Ω<br/>DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂<br/>插拔力：3N 至 25N<br/>接触电阻：最大 30m Ω<br/>绝缘电阻：最小 100 M Ω<br/>绝缘耐压：最小 500VAC（端子之间）</p> |

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