



深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

# 承 认 书

## SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

TYPE-C

\_\_\_\_\_

规格型号 Part No:

TYPE-C 16P CB0.8

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### 贵公司承认印 Approval signatures

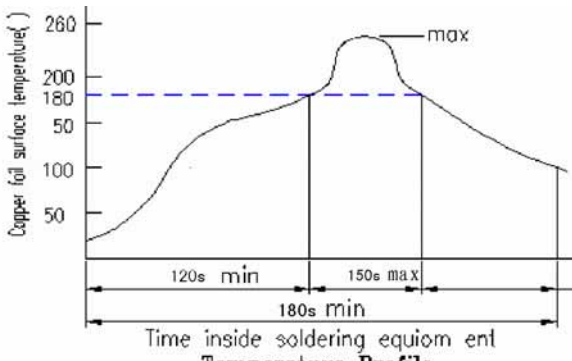
| 料 号/Part No. | 签 章/Signatures |
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日期 Date:

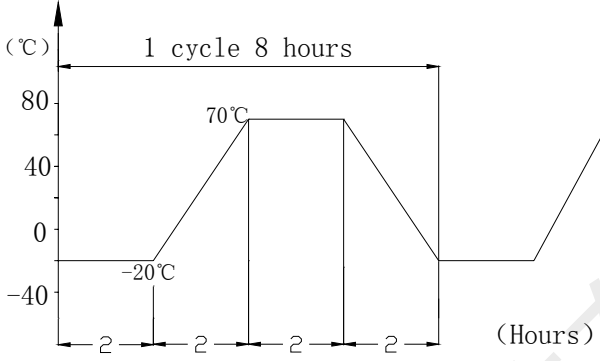
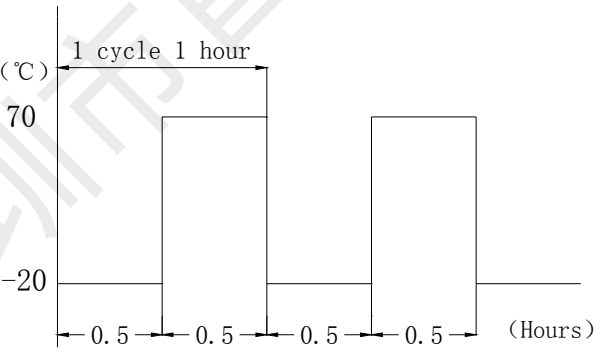
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|-------------|-----|--|
| 拟制/Drawn    | 李春风 |  |
| 审核/Check    | 钟华华 |  |
| 批准/Approved | 罗孝金 |  |



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|--|-------------------------------|--|--|
| RATING (额定值): DC 3A                      |                               |  |  |
| PRACTICAL TEMPERATURE RANGE<br>使用温度范围    |                               | -40~85° C<br>在-40° 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  | 5-20N  |
|  | 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  | 6~20N  |
| 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  | 40m 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                       | 100M Ω MIN   |

|                        |   |   |  |
|------------------------|---|---|--|
| 3.3                    | <p><b>DIELECTRIC STRENGTH</b><br/>耐电压</p>                 | <p>AC 100V 5ms(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 100V 1 MIN<br/>           输入 AC 100V (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</p>  | <p>WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC<br/>           没有绝缘破坏等异常</p>  |
| <b>URABILITY (耐久性)</b> |   |   |  |
| <b>ITEM 项目</b>         |   | <b>TEST CONDITIONS 测试条件</b>   | <b>PERFORMANCE 规格</b>  |
| 4. 1                   | <p><b>SOLDERABILITY TEST</b><br/>可焊性试验</p>                | <p>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</p>   | <p>(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</p> |
| 4.2                    | <p><b>RESISTANCE TO SOLDERING HEAT TEST</b><br/>耐焊性试验</p> | <p>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/>           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。</p>  <p style="text-align: center;"><b>Temperature Profile</b></p> | <p>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</p>                    |

|      |  |   |  |
|------|--|---|--|
| 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 \text{ SEC}</math><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. 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 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 CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 10000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN<br/>无负荷<br/>将结合了的的标准 Plug (尽量要近于中心的) 在 1 分钟内以 10-25 的速度, 进行 10000 次插入, 拔出<br/>LOAD:<br/>AT RATING CONDITION (NON-INDUCTIVE LOAD) CONNECTION AND DISCONNECTION SHALL BE MADE 3000 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 3000 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> |

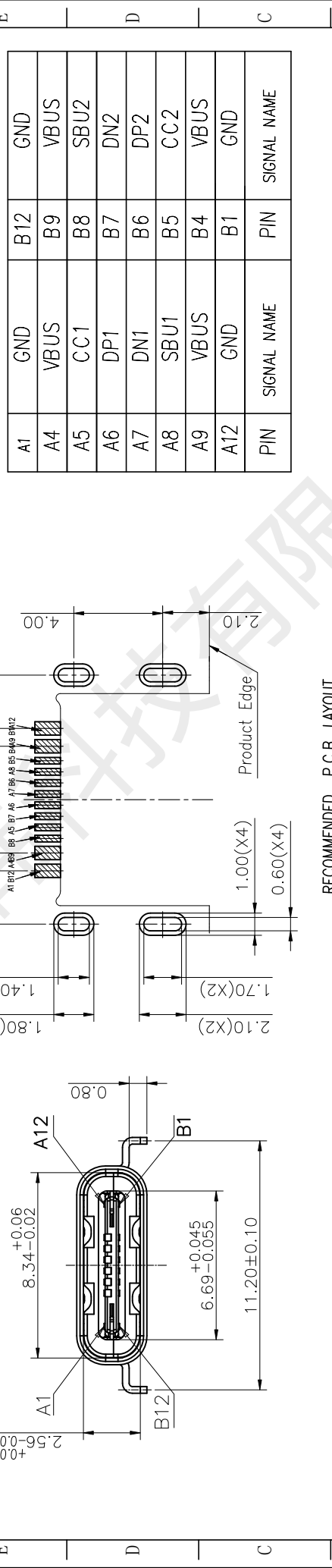
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|------------|--|---|---|
| <p>4.7</p> | <p>TEMPERATURE CYCLING TEST<br/>温度循环测试</p> | <p>THE JACK SHALL BE SUB JECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWN IN THE FIGURE,AND THEN SHALL RETURNED ALLOWED TO REMAIN IN ROOM AMBIENT CONDITION FOR 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>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 SHOWN 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>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> |

RoHs

|   |      |   |        |   |   |                     |   |
|---|------|---|--------|---|---|---------------------|---|
| 8 | DATE | E | PR. BY | 7 | E | ECR/ECN DESCRIPTION | H |
|   |      |   |        |   |   | 增加料号                |   |
|   |      |   |        |   |   | 更改尺寸                |   |

特性注解:

- 电气特性:
  - 额定电流: 3 A 最大
  - 工作电压: 20V Max.
  - 介质承受电压: AC 100V /1 分钟
  - 绝缘阻抗: 100 MΩ 最小
  - 接触阻抗: 40 mΩ 最大
- 环境:
  - 工作温度: -40°C~+85°C.
- 机械特性:
  - 插入力: 5~20Nf.
  - 拔出力: 6~20Nf.
  - 耐久寿命: 3000 Cycles.
  - 盐雾: 24H



料号 规格

1016-FGB010 TYPE-C 16P CB0.8

|                           |  |                               |  |
|---------------------------|--|-------------------------------|--|
| RECOMMENDED P.C.B. LAYOUT |  | TOLERANCE UNSPECIFIED ±0.05mm |  |
| APPROVED BY: 罗孝金          |  | CHECKED BY: 钟德华               |  |
| DESIGN BY: 李春风            |  | PART NO.: See the List        |  |
| DWG NO.: 1/3              |  | SHEET 1/3                     |  |
| TITLE: TYPE-C 16P CB0.8   |  | SHEETS: 1/3                   |  |
| APPROVED BY: 罗孝金          |  | CHECKED BY: 钟德华               |  |
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