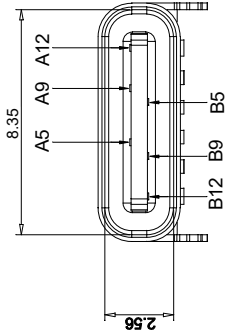
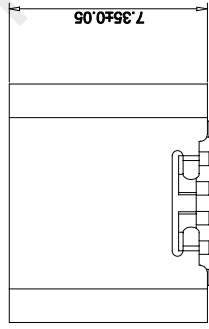
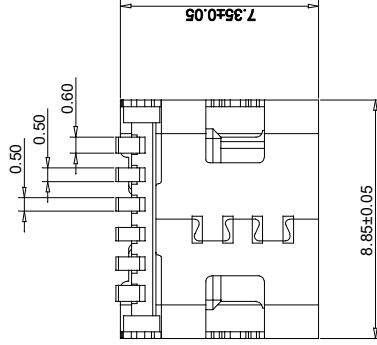


| REV. | ECN   | DESCRIPTION | MDF'D | DATE |
|------|-------|-------------|-------|------|
|      | _____ | 新订图面        |       |      |

## A



U



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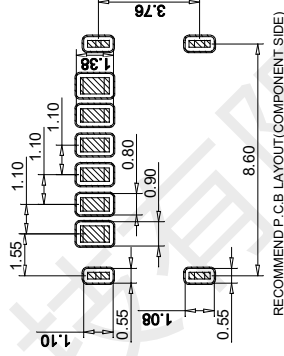
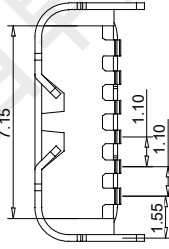
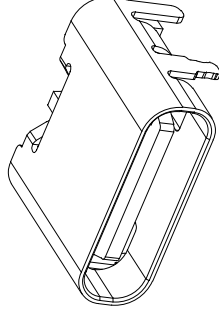
| NO | PART        | QTY | MATERIAL                          |
|----|-------------|-----|-----------------------------------|
| 1  | SHELL       | 1   | ZINC ALLOY,Ni30u"Min PLATED       |
| 2  | CONTACT     | 6   | C2680,TIN80u"/Au1u"/Ni30u" PLATED |
| 3  | 1MD HOUSING | 1   | LCP UL94 V-0 BLACK                |
|    |             |     |                                   |
|    |             |     |                                   |

## A

备注(NOTE):

1材质:

- 1. 1胶芯: LCP UL94 V-0
- 1. 2端子: C2680, T=0. 2mm; 镀底, 镀金
- 1. 3外壳: 不锈钢201-II 表面镀镍
- 2. 电气特性:
  - 2. 1. 接触区: 接触电阻40m $\Omega$  Max, 允许10m $\Omega$ 变化量. 测试条件: 20mv, 100mA下测量.
  - 2. 2. 接触电流: 3A VBUS引脚; 1. 25A用于GND引脚; 其他引脚为0. 25A.
  - 2. 3. 额定电压: 5V.
  - 2. 4. 耐受电压: 100VAC.
  - 2. 5. 绝缘电阻: 至少100兆欧.
- 3. 机械性能:



RECOMMEND P.C.B LAYOUT (COMPONENT)



| USB TYPE C PIN ASSIGNMENTS |             |            |             |
|----------------------------|-------------|------------|-------------|
| PIN NUMBER                 | SIGNAL NAME | PIN NUMBER | SIGNAL NAME |
|                            |             | B12        | GND         |
|                            |             | B9         | VBUS        |
| A5                         | CC1         |            |             |
|                            |             | B5         | CC2         |
| A9                         | VBUS        |            |             |
| A12                        | GND         |            |             |

U

|                                                                                                                                                |  |                       |            |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|------------|-------------------------------------------------------------------------------------------------------|
| <div> <b>首康</b><br/>SHOUKANG</div> <div>深圳市首康科技有限公司</div> |  | 页码 (SHEET)            | 1          | 单位 (UNIT): MM                                                                                         |
|                                                                                                                                                |  | 版本 (REV)              | A1         | 比例 (SCALE) 1:1                                                                                        |
|                                                                                                                                                |  | 日期 (DATE)             | 2023.10.11 |                    |
|                                                                                                                                                |  | 设计 (DESIGN)           | 李春风        | 未注公差<br>TOLERANCE UNSPECIFIED                                                                         |
|                                                                                                                                                |  | 审核 (CHECKED)          | 钟德华        | X.X ±0.20<br>X.XX ±0.15<br>X.XXX ±0.10<br>X.XXX ±0.05<br>X.X <sup>o</sup> ±5°<br>X.X <sup>o</sup> ±2° |
|                                                                                                                                                |  | 核准 (APPROVED)         | 罗孝金        |                                                                                                       |
| 品名 (ITEM NO)                                                                                                                                   |  | TYPE-C 6P WTL7.35 108 |            |                                                                                                       |
| 料号 (PART NO)                                                                                                                                   |  |                       |            |                                                                                                       |
| 图号 (DWG NO)                                                                                                                                    |  | A1                    |            |                                                                                                       |



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 6P WTL7.35 108

贵公司承认印 Approval signatures

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

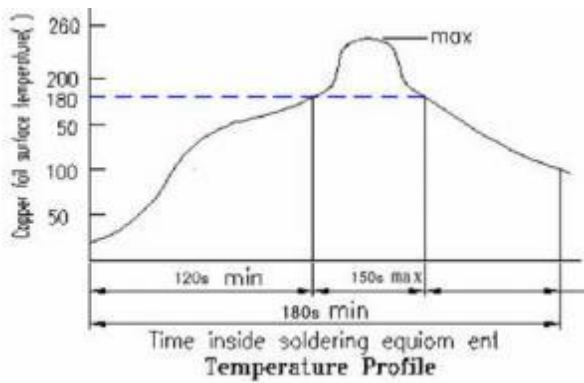
日期 Date:

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

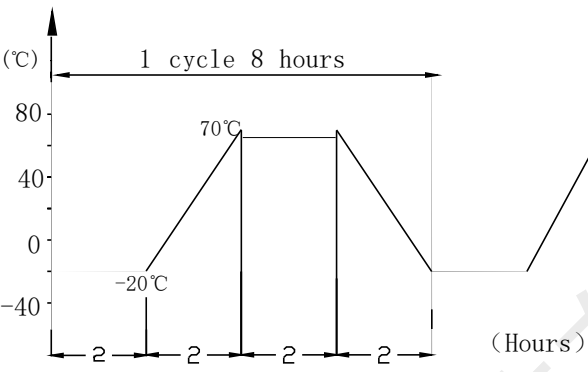
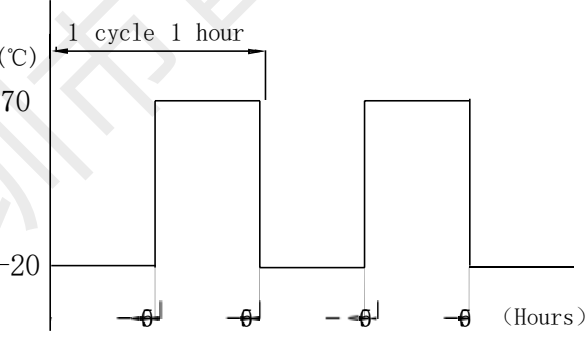


# 深圳市首韩科技有限公司

|                                          |                                 |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |
|------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RATING（额定值）                              |                                 | 5 V 3 A                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                         |
| PRACTICAL TEMPERATURE RANGE<br>使用温度范围    |                                 | -20℃~85℃<br>在-20℃~85℃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℃<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℃~35℃<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                                                                                                                                                                                                                              | 0.5~2.0Kgf                                                                                                                                                              |
|                                          | DISCONNECTI ON<br>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                                                                                                                                                                                                                              | 0.6~2.04Kgf                                                                                                                                                             |
| 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<br>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 （100mA OR LESS）<br>1000Hz<br>在微小电流（100 m A）以下测试                                                                                                                                                                                                                                                                                    | 40mΩ MAX                                                                                                                                                                |
| 3.2                                      | INSULATION RESISTANCE<br>绝缘电阻   | APPLY A VOLTAGE OF 100V DC FOR 1 MIN<br>TO FOLLOWING PORTIONS AFTER WHICH<br>MEASUREMENT<br>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<br>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      | 100MΩ MIN                                                                                                                                                               |

|                 |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                    |
|-----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 3.3             | DIELECTRIC STRENGTH<br>耐电压                 | AC 100V 50~60Hz FOR 1 MIN TRIP CURRENT: 0.5mA<br>(1) BETWEEN BODY AND CONDUCTOR<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTACTED<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                                                                                                                                                                                                                                           | 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             | SOLDERABILITY TEST<br>可焊性试验                | THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF $250 \pm 5^{\circ}\text{C}$ FOR $5 \pm 0.5$ SECONDS<br>端子顶部被浸入锡池中 1mm 深, 温度为 $250 \pm 5^{\circ}\text{C}$ , 时间为 $5 \pm 0.5$ 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             | RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | REFLOW SOLDERING CONDITIONS:<br>PREHEAT: TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH $180^{\circ}\text{C}$ . 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 $260 \pm 5^{\circ}\text{C}$ 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 $180^{\circ}\text{C}$ , 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 $260 \pm 5^{\circ}\text{C}$ 且停留不超过 20 秒。  | WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TERMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br>本体无变形, 满足于机械、电气性能 |

|      |                                            |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |
|------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. 2 | RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | SOLDERING IRON METHOD:<br>BIT TEMPERATURE $330 \pm 5^{\circ}\text{C}$ APPLICATION<br>TIME OF SOLDERING IRON $3 \pm 0.5$ 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 $330 \pm 5^{\circ}\text{C}$ , 时间为 $3 \pm 0.5$ 秒, 但不能在排脚上施加异常压力。                                                                                                                               | 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                                                                                                              |
| 4. 3 | HUMIDITY TEST<br>潮湿试验                      | THE JACK SHALL BE STORED ATA TEMPERATURE OF $40 \pm 2^{\circ}\text{C}$ 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 $40 \pm 2^{\circ}\text{C}$ 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                                                                                                         | 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。                                                                                                                  |
| 4.4  | HEAT TEST<br>耐热试验                          | THE JACK SHALL BE STORED ATA TEMPERATURE OF $70 \pm 2^{\circ}\text{C}$ FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM<br>放置在温度 $70 \pm 2^{\circ}\text{C}$ 中测试 96 小时后, 再放置正常室温中 1 小时来测定                                                                                                                                                                                     |                                                                                                                                                                                                                                                |
| 4. 5 | COLD TEST<br>耐寒试验                          | THE JACK SHALL BE STORED ATA TEMPERATURE OF $-25 \pm 3^{\circ}\text{C}$ 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 $-25 \pm 3^{\circ}\text{C}$ 中 96 小时后, 再放置常温常湿中 1 小时来测定                                                                                                                                                             | 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                                                                                                                    |
| 4. 6 | LIFE TEST<br>寿命试验                          | 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Plug(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 | (1) CONTACT RESISTANCE SHALL BE $\leq 0.1 \Omega$<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 $\leq 0.1 \Omega$<br>(2) 拔出力是 0.8~2.0N<br>(3) 其它: 满足于机械、电气性能 |

|     |                                               |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.7 | <p>TEMPERATURE CYCLING TEST</p> <p>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</p> <p>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.</p> <p>INSERTION &amp; EXTRACTION FORCE:3 TO 20N</p> <p>CONTACT RESISTANCE:MAX.30M Ω</p> <p>INSULATION RESISTANCE: MIN.100 M Ω</p> <p>DIELECTRIC WITHSTANDING VOLTAGE: 100VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂</p> <p>插拔力: 3N 至 20N</p> <p>接触电阻: 最大 30m Ω</p> <p>绝缘电阻: 最小 100 M Ω</p> <p>绝缘耐压: 最小 100VAC (端子之间)</p> |
| 4.8 | <p>COLD&amp;HEAT SHOCK TEST</p> <p>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</p> <p>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.</p> <p>INSERTION &amp; EXTRACTION FORCE:3 TO 25N</p> <p>CONTACT RESISTANCE:MAX.30M Ω</p> <p>INSULATION RESISTANCE: MIN.100 M Ω</p> <p>DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂</p> <p>插拔力: 3N 至 25N</p> <p>接触电阻: 最大 30m Ω</p> <p>绝缘电阻: 最小 100 M Ω</p> <p>绝缘耐压: 最小 500VAC (端子之间)</p> |