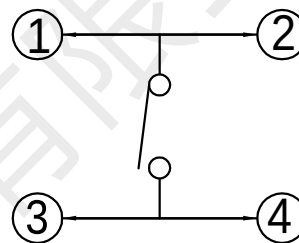
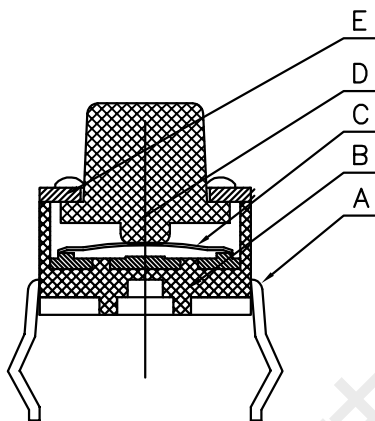
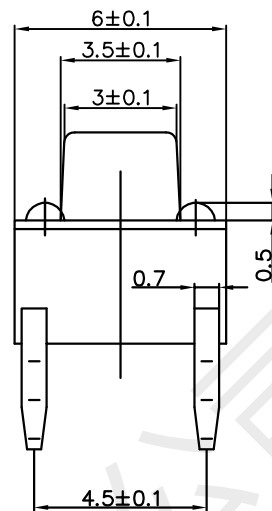
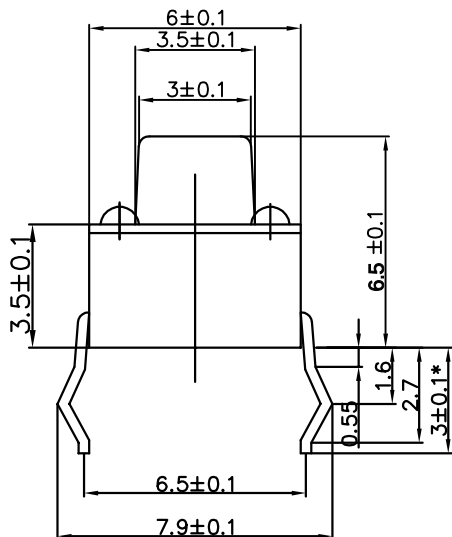
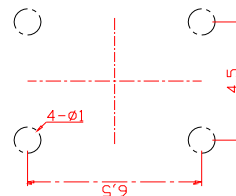


|       |               |      |                   |
|-------|---------------|------|-------------------|
| 1     | 2             | 3    | 4                 |
| RevNo | Revision note | Date | Signature Checked |



原理图



PCB. 焊接图

| 项 目  | 规 格                | H    |
|------|--------------------|------|
| 额定负荷 | DC 12V 50mA        | 4.3  |
| 绝缘电阻 | 100MΩ min. 100V Dc | 4.5  |
| 耐压强度 | AC250V 50HZ 1min   | 5.0  |
| 电器寿命 | ≤50000次            | 5.5  |
| 环境温度 | -25~70℃            | 6.0  |
| 相对湿度 | (40℃) ≤95%         | 7.0  |
| 接触电阻 | 50mΩ max           | 8.0  |
| 行程   | 0.20±0.1mm         | 9.0  |
| 动作力  | 250gf±50gf         | 10.0 |

|    |     |           |        |    |     |
|----|-----|-----------|--------|----|-----|
| E  | 盖板  | GFA010-05 | 铁带0.25 | 1  | 镀铜锡 |
| D  | 按钮  | GFA010-04 | PPA    | 1  |     |
| C  | 簧片  | GFA010-03 | 不锈钢    | 1  |     |
| B  | 底座  | GFA010-02 | PPA    | 1  |     |
| A  | 卡件  | GFA010-01 | 黄铜H62  | 1  | 镀银  |
| 序号 | 名 称 | 物 料 号     | 材 料    | 数量 | 备注  |

|                                                                                                                          |    |             |     |     |                 |     |     |                    |
|--------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|-----|-----------------|-----|-----|--------------------|
|                                                                                                                          |    |             | 設 計 | 李春风 | 角度公差            | 比例  | 名稱  | 6X6轻触开关            |
|                                                                                                                          |    |             |     |     | $\pm 1^{\circ}$ | 8:1 |     |                    |
|                                                                                                                          |    |             | 審 核 | 钟华华 | 標尺公差            | 單位  | 型 號 | TS6665CJ 250gf 009 |
|                                                                                                                          |    |             |     |     | $\pm 0.01$      | mm  |     |                    |
|                                                                                                                          |    |             | 批 準 | 罗孝金 | 日期              | 版本  | 料 號 |                    |
| 標記                                                                                                                       | 處數 | 更改文件號 簽字 日期 |     |     |                 | A   |     |                    |
| <div> 首韩® 深 圳 市 首 韩 科 技 有 限 公 司</div> |    |             |     |     |                 |     |     |                    |



深圳市首韩科技有限公司

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## 承 认 书

### SPECIFICATION FOR APPROVAL

产 品 编 码  
Material code:

产品名称 Project: 轻触开关

规格型号 Part No: TS6665CJ 250gf 009

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 |                                                                                      |



## 产 品 规 格 书 PRODUCT SPECIFICATION

|                               |                                    |                                                                                                                                                                               |                                                                                              |
|-------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| SIRLES                        |                                    | 系列:FLIP SWITCHES(轻触开关)                                                                                                                                                        |                                                                                              |
| MODEL                         |                                    | 型号:TS6665CJ 250gf 009                                                                                                                                                         |                                                                                              |
| 1.RATING                      |                                    | 额定值:50mA 12VDC                                                                                                                                                                |                                                                                              |
| 2.CONSTRUTION DIMENSION 结构尺寸  |                                    | Apply to the appended drawing符合附加图纸                                                                                                                                           |                                                                                              |
| 3.APPEARANCE 外观               |                                    | Have no remarkable damage,crack and rust etc无<br>明显损伤,裂纹,锈迹等.                                                                                                                 |                                                                                              |
| 4.CONTACTLOOP 接触回路            |                                    | Monople loop:单通单极回路                                                                                                                                                           |                                                                                              |
| ITEM 专案                       |                                    | TEST CONDITION 测试条件                                                                                                                                                           | SPECIFICATION 规格                                                                             |
| 5.CAPABILITY OF ELECTRIC 电气性能 |                                    |                                                                                                                                                                               |                                                                                              |
| 5A                            | INSULATION RESISTANCE<br>绝缘电阻      | Measurements shall be made following Application<br>of DC500V potential across terminals and across<br>terminals and fuame for 1minute在端子之间和端<br>子与壳之间加 DC500V 条件下,持续 1 分钟测量. | 100M $\Omega$ min<br>100 兆欧以上.                                                               |
| 5B                            | WITHSTAND VILTAGE<br>耐电压           | AC250V、50HZ、1 min (imin(interrupting<br>current $\leq 500\mu A$ ). AC250V、50HZ、1 分钟(漏<br>电流 500 $\mu A$ )                                                                     | There shall be no<br>briakdown 无击穿<br>现象出现。                                                  |
| 5C                            | CONTACT CIRCUIT<br>接触电路            | Addition 1.5-2 time force on the top of the keystrok<br>and press the switch,DC50V100mA在按键顶端上<br>等于作用力 1.5-2 倍的力按动开关,DC50V,10Ma.                                              | 50 m $\Omega$ Max<br>(50 m $\Omega$ 以下) .                                                    |
| 5D                            | SWITCH CONNECTION<br>FLASH 开关接触点抖动 | Addition DC5V on the two side of switch,at a speed<br>of 3-5time a sec.to press the switch在开关的两端<br>加 DC5V 的电压,以 3-5 次/秒的速度按动开关.                                              | The flash time<br>between open not<br>more than 10ms.<br>开关在接通和断开<br>时的接点抖动时间<br>不大于 10 ms.  |
| 6.MECHANICAL EFFICIENCY 机械性能  |                                    |                                                                                                                                                                               |                                                                                              |
| 6A                            | CONTACT STRENGTH<br>按键强度           | The contact shall be capable of a rorce of 5N for 5<br>seconds in any directions沿开关动作方向可承受<br>静能压力 5N, 保持 5 秒钟.                                                               | Switch electric<br>andmechanical<br>efficiency does<br>not break 无损开<br>关电气或者机械<br>性能        |
| 6B                            | CONTACT JOURNEY                    |                                                                                                                                                                               | 按键行程:0.2 $\pm$ 0<br>.1mm                                                                     |
| 6C                            | DRIVE FORCE<br>驱动力                 | Being measure at across spring piece and across<br>keystoke forergometer用测力计在按键与弹片之<br>间测量.                                                                                   | Contact switch'sd<br>drive dirive fouce<br>was250 $\pm$ 50gf.<br>按键的开关驱动力<br>为250 $\pm$ 50gf |

## 产 品 规 格 书

### PRODUCT SPECIFICATION

- 2 -

|                                             |                                                                                                                                                                                                                                      |                                                                                                                                                                                                              |                                                                                                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 6D                                          | CONNECTION STRENGTH<br>接线端强度                                                                                                                                                                                                         | A force of 1N being applying in any directions of the switch connection partt.在接线端的作用方向施加 1N 的力.                                                                                                             | Switch mechanical efficiency does not break.无损开关机械性能.                                                                                      |
| 6E                                          | MECHANICAL LIFE<br>机械寿命                                                                                                                                                                                                              | Operatin at a rate of 30-50 cycles a minute. 以 30-50 次/分的驱动速度操作.                                                                                                                                             | Life:100000cycles<br>寿命:100000 次                                                                                                           |
| 7.ENVIRONME NT---RESISTANT EFFICIENCY 耐环境性能 |                                                                                                                                                                                                                                      |                                                                                                                                                                                                              |                                                                                                                                            |
| 7A                                          | CHANGE OF TEMPERATURE 温度变化                                                                                                                                                                                                           | The first temperature shall be 65℃ ,2h and changed to-30℃ ,2h,5c ycles of above test . 先 65℃ ,2h,然后 -30℃ ,2h, 如此重复 3 次.                                                                                      | 1. The appearance should not break. 外观应无损伤.<br>2. Contact resistance $\leq 100 \text{ M } \Omega$ 接触电阻 $\leq 100 \text{ M } \Omega$        |
| 7B                                          | HUMIDITY RESISTANT 耐湿热                                                                                                                                                                                                               | 40 $\pm 2^{\circ}\text{C}$ in temperature and 95%RH ,Ruring the test time without load; After testing the temperature should be 48h. 经 40 $\pm 2^{\circ}\text{C}$ ,相对湿度 95% , 试验期间,开关不动作,不带电负荷,试验后恢复到常温 48h. | 3. Insulation resistance $\geq 100 \text{ M } \Omega$ . 绝缘电阻 $\geq 100 \text{ M } \Omega$                                                  |
| 8.IOINTING EFFICIENCY 焊接性能                  |                                                                                                                                                                                                                                      |                                                                                                                                                                                                              |                                                                                                                                            |
| 8A                                          | SOLDERABILITY<br>可焊性                                                                                                                                                                                                                 | Temperature 260 $\pm 5^{\circ}\text{C}$ ;Duration; 3 $\pm 0.5\text{S}$ :温度在 260 $\pm 5^{\circ}\text{C}$ ,持续 3 $\pm 0.5\text{S}$ .                                                                            | Solderability part should above 90% 可焊部分被焊料覆盖面应在 90% 以上.                                                                                   |
| 8B                                          | SOLDER—RESISTANT<br>耐焊剂性                                                                                                                                                                                                             | Warm-up temperature:100℃,40S,焊锡温度 260 $\pm 5^{\circ}\text{C}$ ,浸焊时间 3 $\pm 0.5\text{S}$ .                                                                                                                    | Froth height of assist solder should under board and switch electric and mechanical efficiency does not break.助焊剂发泡不应超过印制板,无损伤开关电气或机械动作性能. |
| 8C                                          | JOINTING—RESISTANT<br>耐焊接热                                                                                                                                                                                                           | Jointing temperature: 260 $\pm 5^{\circ}\text{C}$ ,Duration of immersion: 5 $\pm 1\text{S}$ .焊锡温度 260 $\pm 5^{\circ}\text{C}$ ,浸焊时间 5 $\pm 1\text{S}$                                                        | efficiency does not break 无损伤开关电气或机械动作性能.                                                                                                  |
| 8D                                          | NORMAL JOLNTING TIMES<br>正常焊接次数                                                                                                                                                                                                      |                                                                                                                                                                                                              | $\leq 2\text{times}$ 小于 2 次                                                                                                                |
| 9.NOTES                                     |                                                                                                                                                                                                                                      |                                                                                                                                                                                                              |                                                                                                                                            |
| 9A                                          | The whole boxes of switch should keep in the temperature -30--80℃ and less than 80%RH withort acidic,alkalescence,caustic gas in the environment of the storage.<br>整箱包装的开关,应在温度为-30--80℃ ,相对湿度不大于 80% ,周围的空气中没有酸性、碱性或其他腐蚀性气体的库房内保管。 |                                                                                                                                                                                                              |                                                                                                                                            |
| 9B                                          | Operating Temperature Range:-25to 70℃<br>操作温度的范围: -25 to 70℃                                                                                                                                                                         |                                                                                                                                                                                                              |                                                                                                                                            |
| 9C                                          | Switch should install in a correct method.<br>开关应按正确的安装方法进行正确安装使用。                                                                                                                                                                   |                                                                                                                                                                                                              |                                                                                                                                            |