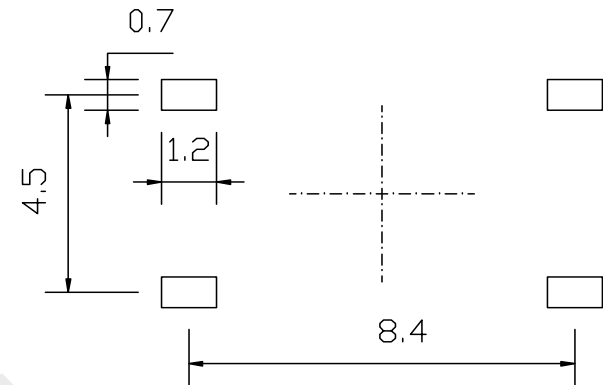
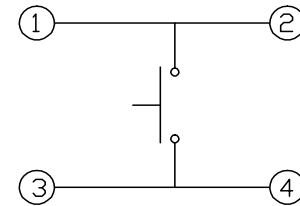
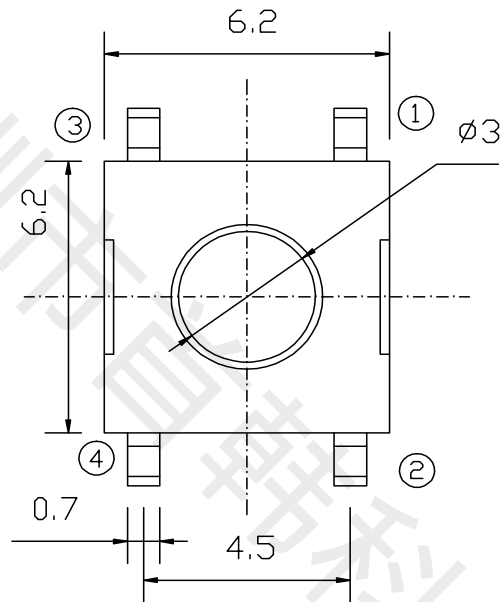
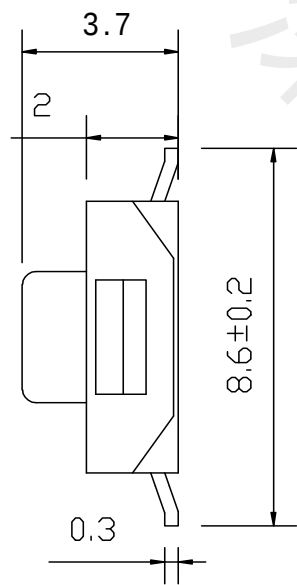




印制线路板(PCB Layout)

### 主要技术参数

额定电压(RATED VOLTAGE):12V DC

额定电流(RATED CURRENT):50 mA

接触电阻(CONTACT RESISTANCE):100mΩ MAX

寿命 (Lifetime):100,000 Cycles min

操作力(Operating Force): 250gf ±50gf

介电强度 (WITHSTANDING VOLTAGE):250V AC for 1 min

绝缘电阻(INSULATION RESISTANCE):100MΩ 100V DC

MIN工作温度(TEMPERATURE RANGE): -25℃~+70℃

行程 (Travel): 0.25±0.1mm

### 材料

1、 塑料: PA46 (符合UL94V-0级)

2、 接触件: 磷铜

3、 电镀: 镀银

|    |    |       |  |    |       |                                                                                       |  |             |    |    |                                                                                                   |
|----|----|-------|--|----|-------|---------------------------------------------------------------------------------------|--|-------------|----|----|---------------------------------------------------------------------------------------------------|
|    |    |       |  |    | 产品名称: |                                                                                       |  | 产品规格:       |    |    |                                                                                                   |
|    |    |       |  |    | 轻触开关  |                                                                                       |  | TS6637TP-4P |    |    |                                                                                                   |
|    |    |       |  |    |       |                                                                                       |  | 文件编号:       |    |    |                                                                                                   |
| 标记 | 处理 | 更改文件号 |  | 签字 | 日期    |                                                                                       |  |             |    |    |                                                                                                   |
| 设计 |    | 李春风   |  | 审定 | 罗孝金   | 图样标记                                                                                  |  |             | 重量 | 比例 |                                                                                                   |
| 审核 |    | 钟华华   |  | 日期 |       |  |  |             |    |    |                                                                                                   |
|    |    |       |  |    | 共 1 页 |                                                                                       |  | 第 1 页       |    |    |  深圳市首韩科技有限公司 |



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

产 品 编 码

Material code:

产品名称 Project:

轻触开关

规格型号 Part No:

TS6637TP-4P

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 |                                                                                      |

|                                                                                                                                                                                                                                    |                                    |                                                                                                                                                                      |                                                             |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------|
| <div> <b>首韩®</b><br/>SHOUHAN</div> <div><b>深圳市首韩科技有限公司</b><br/>SHENZHEN SHOUHAN TECHNOLOGYCO.,LTD<br/>Tel: 0755-27597601 Fax: 0755-27597491</div> |                                    |                                                                                                                                                                      | Page                                                        | 1/2                                                                           |
|                                                                                                                                                                                                                                    |                                    |                                                                                                                                                                      | MODEL                                                       | TS6637TP-4P                                                                   |
| SIRLES                                                                                                                                                                                                                             |                                    |                                                                                                                                                                      | 系列:FLIP SWITCHES(轻触开关)                                      |                                                                               |
| MODEL                                                                                                                                                                                                                              |                                    |                                                                                                                                                                      | 型号: TS6637TP-4P                                             |                                                                               |
| 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 of DC500V potential across terminals and across terminals and fuame for 1minute,在端子之间和端子与壳之间加 DC500V 条件下,持续 1 分钟测量. |                                                             | 100MΩ min<br>100 兆欧以上.                                                        |
| 5B                                                                                                                                                                                                                                 | WITHSTAND VILTAGE<br>耐电压           | AC250V、50HZ、1min (imin(interrupting current≤500uA). AC250V、50HZ、1 分钟(漏电流 500uA)                                                                                      |                                                             | There shall be no briakdown 无击穿现象出现。                                          |
| 5C                                                                                                                                                                                                                                 | CONTACT CIRCUIT<br>接触电路            | Addition 1.5-2 time force on the top of the keystrok and press the switch,DC50V100mA 在按键顶端上等于作用力1.5-2 倍的力按动开关,DC50V,10Ma.                                            |                                                             | 100mΩ Max<br>(100 mΩ 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 of 3-5time a sec.to press the switch.在开关的两端加 DC5V 的电压,以 3-5 次/秒的速度按动开关.                                           |                                                             | The flash time between open not more than 10ms.<br>开关在接通和断开时的接点抖动时间不大于 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 seconds in any directions.沿开关动作方向可承受静能压力 5N, 保持 5 秒钟.                                                            |                                                             | Switch electric andmechanical efficiency does not break 无 损开关电气或者机械性能         |
| 6B                                                                                                                                                                                                                                 | CONTACT JOURNEY                    |                                                                                                                                                                      |                                                             | 按键行程 0.25 ±0.1mm                                                              |
| 6C                                                                                                                                                                                                                                 | DRIVE FORCE<br>驱动力                 | Being measure at across spring piece and across keystoke forergometer.用测力计在按键与弹片之间测量.                                                                                |                                                             | Contact switch'sd drive dirive fouce was250±50gf. 按键的开关驱动力为 250±50gf          |

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>深圳市首韩科技有限公司</b><br><b>SHENZHEN SHOUHAN TECHNOLOGY CO., LTD</b><br><b>Tel: 0755-27597601 Fax: 0755-27597491</b> |                                                                                                                                                                                                                                         | Page                                                                                                                                                                                     | 2/2                                                                                                                                        |
|                                                                                                                                                                                                     |                                                                                                                                                                                                                                         | MODEL                                                                                                                                                                                    | TS6637TP-4P                                                                                                                                |
| 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 70 °C , 3h and changed to-25°C, 0. 5h, 5cycles of above test. 先 70°C, 3h, 然后-25°C, 0. 5h, 如此重复 5 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°C in temperature and 90-95%RH, Ruring the test time without load; After testing the temperature should be 24h. 经 40 $\pm$ 2°C, 相对湿度 90-95%, 试验期间, 开关不动作, 不带电负荷, 试验后恢复到常温 24h. | 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 °C ;Duration; 3 $\pm$ 0.5S:温度在 260 $\pm$ 5 °C, 持续 3 $\pm$ 0.5S.                                                                                                  | 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°C,40S, 焊锡温度 260 $\pm$ 5 °C, 浸焊时间 5 $\pm$ 0.5S.                                                                                                                   | 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 °C ,Duration of immersion: 5 $\pm$ 1S. 焊锡温度 260 $\pm$ 5 °C, 浸焊时间 5 $\pm$ 1S                                                                            | 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                                                                                                                                                                                                         |                                                                                                                                                                                          | $\leq 2$ times 小于 2 次                                                                                                                      |
| 9.NOTES                                                                                                                                                                                             |                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                            |
| 9A                                                                                                                                                                                                  | The whole boxes of switch should keep in the temperature -30--80 °C and less than 80%RH withort acidic, alkalescence, caustic gas in the environment of the storage. 整箱包装的开关, 应在温度为-30--80°C, 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:-25 to 70°C<br>操作温度的范围: -25 to 70°C                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                            |
| 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。                                                                                                                                                                      |                                                                                                                                                                                          |                                                                                                                                            |