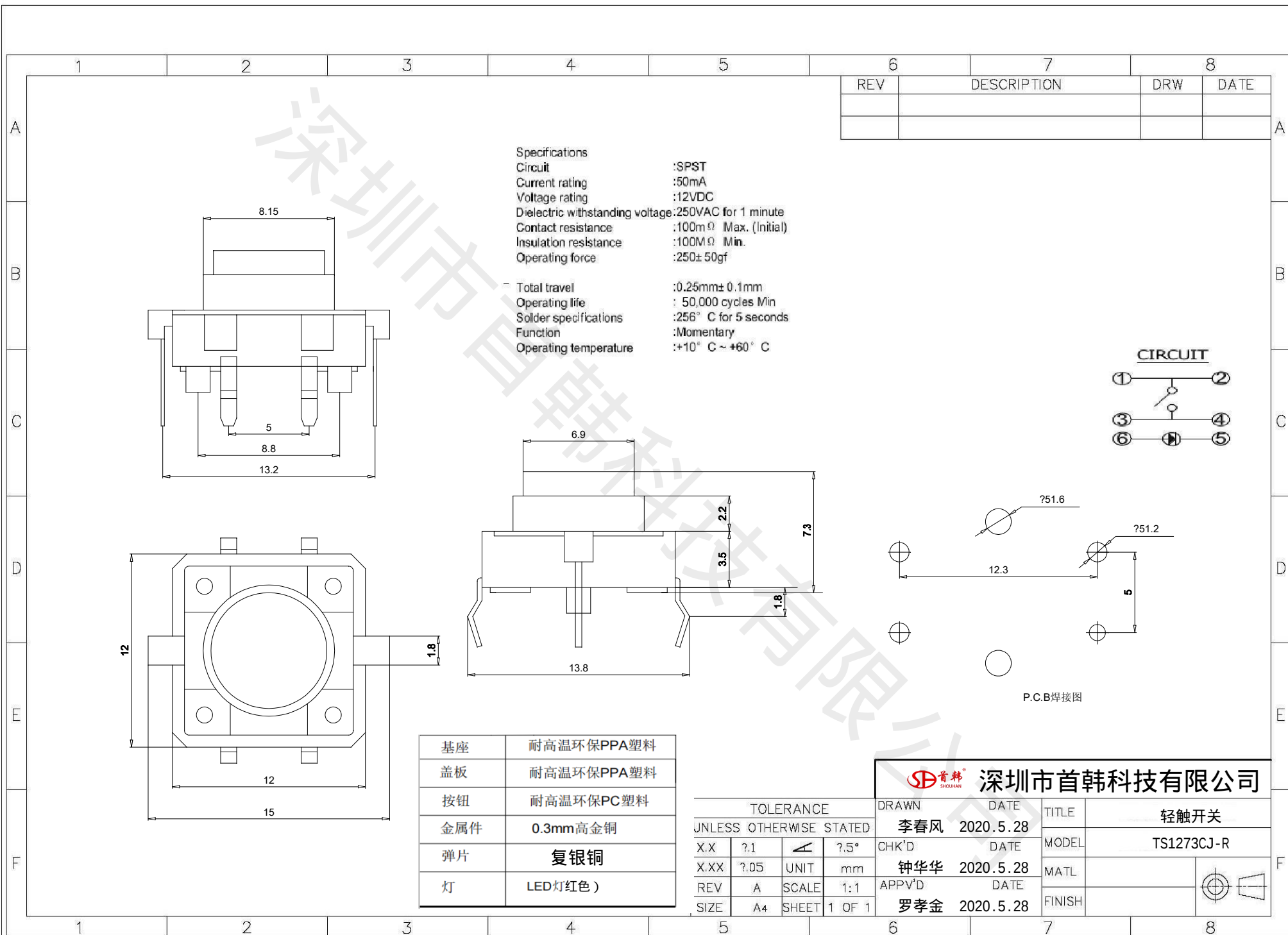






深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

## 承 认 书

## SPECIFICATION FOR APPROVAL

产 品 编 码

Material code:

07354

产品名称 Project:

轻触开关

规格型号 Part No:

TS1273CJ-R

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

### 1. GENERAL 一般性能

1.1 Switch Rating 产品额定值: 12VDC 5 0mA

1.2 Circuit 回路: SPST

1.3 Timing 切换类型: ☐ Non-shorting ☐ Shorting

1.4 Appearance and dimensions 外形及尺寸:

Shape and dimensions are subject to drawing 形状、尺寸依图面而确定

All part not allowed to exist rust、crack and poor plating.各部分应无生锈、裂痕、电镀不良现象

1.5 Operation Temperature Range 使用温度范围: - 1 0℃--60℃

1.6 Standard conditions 测试标准状态:

Unless otherwise specified, the test and measurements shall carried out as follows:

若没有特别说明, 则试验大气条件如下: Ambient temperature 正常温度: 5--35℃

Relative humidity 相对湿度 : 45--85% RH

Airpressure 大气压力 : 86--106 kPa ( 860--1060mbar)

### 1. 2. ELECTRONICAL PERFORMANCE 电气性能

| NO  | ITEM 项目                       | TEST CONDITIONS 测试条件                                                                                                                                                                                                               | PERFORMANCE 规格                         |
|-----|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 2.1 | CONTACT RESISTANCE<br>接触电阻    | Measurements shall be made with a 1KHz small-current contact resistance meter.<br>在 1KHz 微小电流以下进行测试                                                                                                                                | 100m $\Omega$ Max<br>100 毫欧以下          |
| 2.2 | INSULATION RESISTANCE<br>绝缘电阻 | Apply avoltage of250VDC 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>输入 250VDC 电压 1 分钟, 按以下接触方法测试:<br>接触端子之间, 塑胶体与端子之间进行测试 | 100 M $\Omega$ MIN<br>100 兆欧以上         |
| 2.3 | DIELECTRIC STRENGTH<br>耐电压    | AC 250V(50Hz or 60Hz) shall be applied for 1min:<br>1.Between Terminals<br>2.Between Individual Terminals and Frame<br>输入 AC250V(50Hz or 60Hz)电压 1 分钟,按接触端子之间和塑胶体与端子之间进行测试                                                         | There shall be no breakdown<br>无击穿现象出现 |

## 3. Mechanical characteristics 机械性能:

| NO  | ITEM 项目                      | TEST CONDITIONS 测试条件                                                                                                                       | PERFORMANCE 规格                                                                                         |
|-----|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 3.1 | OPERATION<br>FORCE<br>动作力    | The force applied to the plunger/lever required<br>Operate the switch contacts.<br>从自由位置运行到动作位置必须加到驱动杆上的力                                  | 250±50gf                                                                                               |
| 3.2 | TRAVEL<br>行程                 | The distance of or angle through which the plunger/lever moves from the free position to the Operating position.<br>从驱动杆的自由位置到动作位置的移动距离或角度 | 0.25±0.1 mm                                                                                            |
| 3.3 | TERMINAL<br>STRENGTH<br>端子强度 | A static forec of 500gf being applied in one direction on the tip of the terminal for 1 minute<br>一个 500gf 静负荷施加于端子顶部的之一个方向持续一分钟           | No damage ,Mechanical and electrical characteristics shall be satisfied.<br>没有破坏满足于机械、电气性能             |
| 3.4 | ACTUATOR<br>STRENGTH<br>按键强度 | A static load of 1Kgf being applied in one direction of actuator for 1 minute<br>一个 1 公斤静负荷施加于按键一个方向持续一分钟                                  | The deformation shall not be extreme and the actuator shall mechanically work normally<br>按键无变形，可以正常操作 |

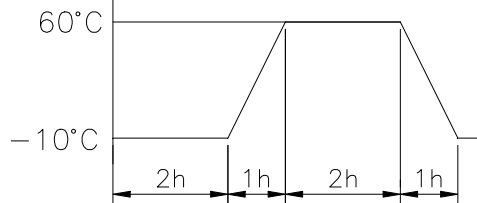
## 2. DURABILITY 耐焊性:

| NO  | ITEM 项目                       | TEST CONDITIONS 测试条件                                                                                                                                                                                          | PERFORMANCE 规格                                                                                                       |
|-----|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 4.1 | SOLDERING<br>TEST<br>可焊性测试    | The tip of the terminals shall be dipped 2mm in the soldet bath at a temperature of 260 ±5℃ for 3±0.5 sec<br>端子顶部被浸入焊锡池 2mm 深，温度 260 ±5℃，时间为 3±0.5 sec.                                                       | A new uniform coating of solder<br>Shall cover a minimum of 75% of The surface being immersed.<br>浸入的部分 75%以上表面将被锡覆盖 |
| 4.2 | SOLDERING<br>HEAT TEST<br>耐焊性 | Temperature of solder: 250±5℃<br>Time of immersion: 3±1 Sec<br>Immersion depth up to the surface of the board<br>Thickness of PCB 1.6mm Reflow soldering graph<br>焊炉焊锡的温度控制在250±5℃，过炉焊接的时间 3±1秒，于(基 板)厚度为 1.6 | There shall be no damage ,<br>Mechanical and electrical characteristics shall be satisfied.<br>外观无异常，满足于机械，电气性能      |

### 3. LIFE CHARACTERISTICS 寿命性能:

| NO  | ITEM 项目           | TEST CONDITIONS 测试条件                                                                                                               | PERFORMANCE 规格                                                                                                                                                                         |
|-----|-------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 | LIFE TEST<br>寿命测试 | 1) Resistance load<br>2) Operation speed :15-30cycles/min<br>3) Cycles of operation : 5 0,000 cycles<br>在负荷的条件下以每分钟 15~30 次的速度进行测试 | (1) Contact Resistance shall be 200mΩ Max.<br>(2) Actuating Force:±30%<br>(3) Mechanical and electrical characteristics shall be satisfied.<br>接触电阻不能超过 200 mΩ<br>力度减少 30%其它满足于机械、电气性能 |

### 4. WEATHER PROOF CHARACTERISTICS 耐候性能:

| NO  | ITEM 项目                     | TEST CONDITIONS 测试条件                                                                                                                                                                                                | PERFORMANCE 规格                                                                                               |
|-----|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 6.1 | COLD TEST<br>耐冷测试           | 1) Temperature : -25±2℃<br>2) Duration of test : 96 hours<br>3) Standard condition after test : 1 hour<br>在-30±2℃环境中放 96 小时，再放在正常环境中，1 小时后进行测试                                                                      | There shall be no damage , Mechanical and electrical characteristics shall be satisfied.<br>外观无异常，满足于机械，电气性能 |
| 6.2 | HEAT TEST<br>耐热测试           | 1) Temperature : 80±2℃<br>2) Duration of test : 96 hours<br>3) Standard conditions after test : 1 hour<br>在 80±2℃环境中放 96 小时，再放在正常环境中，1 小时后进行测试                                                                      |                                                                                                              |
| 6.3 | HUMIDITY TEST<br>耐湿测试       | 1) Temperature : 60±2℃<br>2) Relative humidity : 90--95%<br>3) Duration of test : 96 hours<br>4) Standard conditions after test : 1 hour<br>在 60±2℃: 90--95%环境中放 96 小时，再放在正常环境中，1 小时后进行测试                           |                                                                                                              |
| 6.4 | TEMPERATURE CYCLE<br>温度循环测试 | 1) Test cycles : 5 cycles<br>2) Standard conditions after test : 1 hour<br>3) 1 cycle : <br>如图示之环境中，循环 5 次后，再置于正常环境中，60 分钟后进行测试 |                                                                                                              |