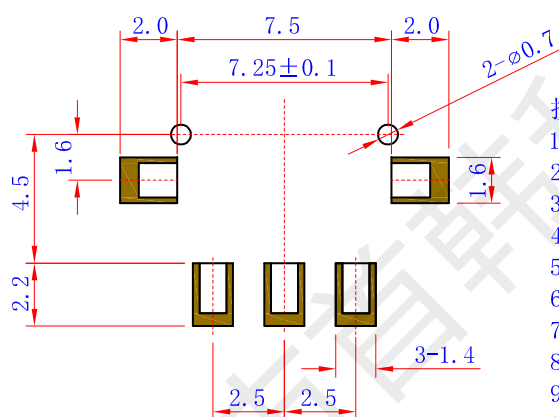
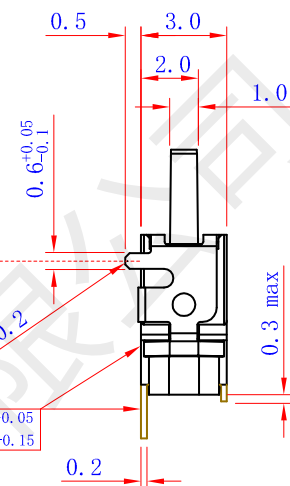
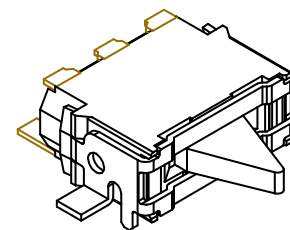
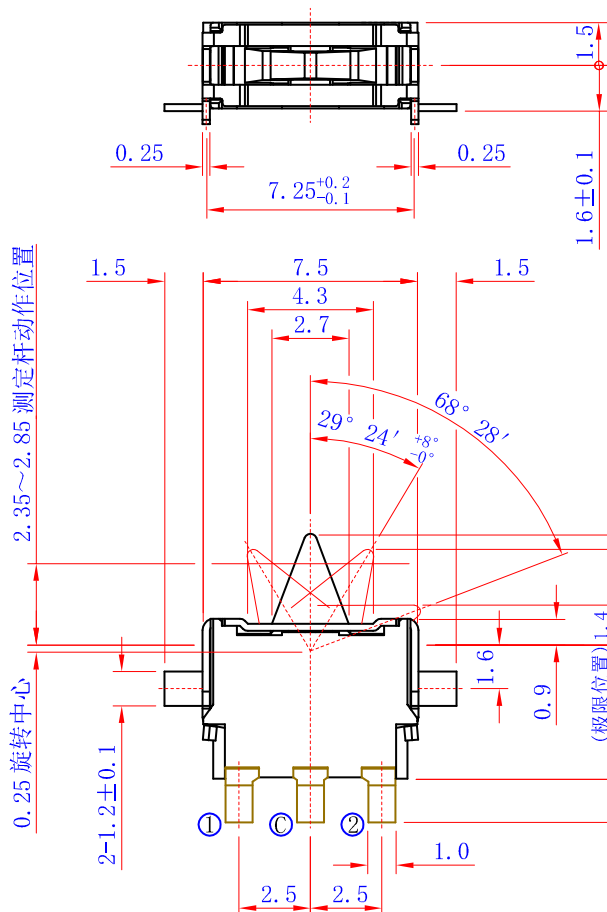
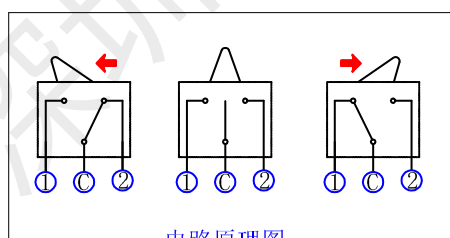


| 公差等级   | 尺寸分段  |      |       |         |
|--------|-------|------|-------|---------|
|        | 0.5~3 | >3~6 | >6~30 | >30~120 |
| m(中等级) | ±0.1  | ±0.1 | ±0.2  | ±0.3    |



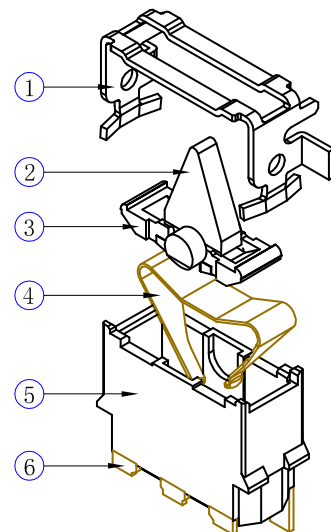
安装尺寸图



电路原理图

技术要求:

1. 额定负荷: DC 12V 0.1A
2. 绝缘电阻:  $\geq 100M\Omega$
3. 耐电压: AC100V 50Hz/1min
4. 电器寿命: 50000次
5. 环境温度:  $-10^{\circ} \sim +60^{\circ}$
6. 相对湿度:  $40^{\circ}C \leq 95\%$
7. 接触电阻:  $\leq 500m\Omega$
8. 接触行程:  $0.5 \pm 0.3$
9. 动作力:  $\leq 0.35N (36gf)$
10. 各零件无明显飞边, 配合要紧密, 不得有明显松动。
11. 未注公差尺寸均按GB1804-m级精度要求。



注: 图中 \* 标记为重点检验项。

|    |          |     |    |    |      |      |
|----|----------|-----|----|----|------|------|
| 6  | DS62-6.2 | 接触脚 | 3  | 黄铜 |      | 镀银   |
| 5  | DS62-5.2 | 底座  | 1  | PA |      |      |
| 4  | DS62-4   | 接触片 | 1  | 磷铜 |      | 镀银   |
| 3  | DS62.3   | 压柄  | 1  | PA |      |      |
| 2  | DS62.2   | 手柄  | 1  | PA |      |      |
| 1  | DS62-1.2 | 盖子  | 1  | 磷铜 |      | 镀铜锡  |
| 序号 | 代号       | 名称  | 数量 | 材料 | 单件重量 | 总计重量 |
|    |          |     |    |    |      | 备注   |



深圳市首韩科技有限公司

|    |     |       |     |    |
|----|-----|-------|-----|----|
| 标记 | 处数  | 更改文件号 | 签字  | 日期 |
| 设计 | 李春风 | 标准化   |     |    |
| 校对 |     | 审定    | 罗孝金 |    |
| 审核 | 钟华华 |       |     |    |
| 工艺 |     | 日期    |     |    |

图样标记

视图

重量

比例

产品名称:

检测开关

产品型号:

CYZX-HB 198

共

页

第

页



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:

检测开关

规格型号 Part No:

CYXZ-HB 198

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 |                                                                                      |



## 规 格 书 SPECIFICATION

### 1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value) : DC 12V 0.1A
- 1.2 工作温度(Work Temperature Range):  $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- 1.3 存贮温度(Store Temperature Range):  $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 1.4 正常测试条件(未有特殊说明量测在以下条件进行):

General test condition (Tests and measurements shall be made under the following standard conditions unless otherwise specified):

正常温度:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       相对湿度: 45%~85% RH      气压: 8,600~10,600 帕  
Temperature:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       Relative humidity: 45%~85%      Air pressure: 8,600~10,600 pa

### 2. 产品外观及尺寸要求 Appearance & Dimension Requirement

- 2.1 产品外形结构紧凑,无配合不良.  
The structure of product is compact, and assembly of parts has no badness.
- 2.2 产品塑胶部件无严重缩水、披锋、欠注、斑点、破损或变形现象.  
The plastic parts of product have no serious defects such as very serious shrink, scarcity, fleck, disrepair, transmutation, etc.
- 2.3 产品引脚和外壳无严重氧化、脏污、变形、毛刺或电镀不良.  
Lead feet and shell have no serious defects such as oxidation, smudge, disrepair, burr, defects on plating.
- 2.4 开关操作顺畅,节奏感强,无明显卡塞现象.  
Operating switch is unhindered, rhythmmed, and there is not palpable clag.
- 2.5 产品结构及尺寸参见产品规格图纸.  
Construction and dimensions: Refer to individual product drawing.

### 3. 电气特性 Electronic Characteristics

| No. | 项 目<br>Item                          | 测 试 方 法<br>Test Method                                                                                                                                                              | 测试设备<br>Equipment                     | 特 性 要 求<br>Requirements                                             |
|-----|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------|
| 3.1 | 接触电阻<br>Contact Resistance           | 在低电流( $\leq 100\text{mA}$ )条件下测试.<br>Measured at low current (100mA or less).                                                                                                       | 低电阻测试仪<br>Low Resistance Meter        | 500m $\Omega$ MAX                                                   |
| 3.2 | 绝缘阻抗<br>Insulation Resistance        | 测试相邻引脚之间,引脚与外壳之间的绝缘阻抗.<br>Measurement shall be made between adjacent terminals, between terminal and shell.                                                                         | 绝缘测试机<br>Insulation Resistance Tester | 100M $\Omega$ MIN                                                   |
| 3.3 | 耐压测试<br>Dielectric Withstand Voltage | 输入一定电压 (50-60Hz, 电压值 AC 100V)1分钟,漏电流为2mA,测试邻近端子间.<br>Apply certain voltage (50-60Hz, AC 100V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity. | 耐压测试机<br>Puncture Tester              | 没有绝缘破坏.<br>电弧等异常.<br>No arcing, break down and damaging insulation. |



## 4. 机械特性 Mechanical Characteristics

| No. | 项 目<br>Item              | 测 试 方 法<br>Test Method                                                                                                                                                                           | 测试设备<br>Equipment  | 特 性 要 求<br>Requirements |
|-----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|
| 4.1 | 操 作 力<br>Operation Force | 逐渐施力操作开关按键，测量开 关到达全部工作行程时所需的最 大操作力度。<br>Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full. | 测力计<br>Force Gauge | 30±10gf                 |

## 5. 可靠性测试 Reliability trial

| No. | 项 目<br>Item                          | 测 试 方 法<br>Test Method                                                                                                                                                | 测试设备<br>Equipment    | 特 性 要 求<br>Requirements                                                                                                                                                                                                                                                                  |
|-----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 | 可焊性试验<br>Solder ability Test         | 端子顶部被浸入焊锡炉中，温 度为 260±5℃，时间 5±1 秒。<br>The top of the terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds.                                           | 控温锡炉<br>Solder Stove | 引脚至少 95%上锡。<br>Ninety-five percent of terminals shall be dipped.                                                                                                                                                                                                                         |
| 5.2 | 寿命试验<br>Operation Life               | 开关在寿命试验设备上以约 90 次 / 分的速度连续被操作，具体次数见规格图示。<br>Switch shall be operated continuously at about 90 cycles /min without load.                                               | 寿命试验机<br>Life Tester | 寿命:50000 次<br>实验后:<br>绝缘电阻: 10M Ω Min<br>操作力: 变化在 ±50%内开关外观及结构无损坏。<br>Life test:50000 cycles<br>After test, Insulation resistance:10M Ω Min<br>Operating force: Change should be within ±50% of specified value.<br>No abnormalities shall be recognized in appearance and construction. |
| 5.3 | 耐焊接热<br>Resistance to Soldering heat | 端子焊接部分浸入焊炉，焊炉温度 260± 5℃，焊接时间 5±1 秒。(焊接时不可于 端子施加外力)。<br>Terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds without additional force for terminals. | 控温锡炉<br>Solder Stove | 本体无变形，能满足于机械、电气性能。<br>Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied.                                                                                                                                                                    |

## 5. 可靠性测试 Reliability trial

| No. | 项 目<br>Item                          | 测 试 方 法<br>Test Method                                                                                                                                                                                                                                                                                                                                                      | 测试设备<br>Equipment                              | 特 性 要 求<br>Requirements                                                                       |
|-----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 5.4 | 耐高温测试<br>Resistance to Heat Test     | 放置在温度 $80\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $80\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.                                                                                                                              | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.5 | 耐低温测试<br>Resistance to Cold Test     | 放置在温度 $-20\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $-20\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.                                                                                                                            | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.6 | 耐湿性测试<br>Resistance to Humidity Test | 放置于温度 $40\pm 2^{\circ}\text{C}$ ，相对湿度为 90~96% 环境中 96 小时后，再置于正常条件下 1 小时后测定(注意要擦去水滴)。<br>The switch shall be stored at a temperature of $40\pm 2^{\circ}\text{C}$ , relative humidity 90~96% for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour (Wipe out water drip).                                                      | 恒温恒湿箱<br>Temperature & Humidity Tester Chamber | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.7 | 盐雾实验<br>Salt Mist Test               | 试件在下述实验后测量：<br>1. 温度： $35\pm 5^{\circ}\text{C}$<br>2. 盐溶液浓度： $5\pm 1\%$ （质量百分比），<br>3. 试验时间：24 小时，<br>4. 试验后，将盐沉积物用水冲掉。<br>The switch shall be checked after following test:<br>1. Temperature: $35\pm 5^{\circ}\text{C}$<br>2. Salt solution: $5\pm 1\%$ (Solids by mass)<br>3. Duration: 24 hours,<br>4. After immersing, salt deposit shall be removed by running water. | 盐雾试验机<br>Salt Spray Tester                     | 在金属件上没有严重腐蚀斑点。<br>No remarkable corrosion shall be recognized in metal parts.                 |