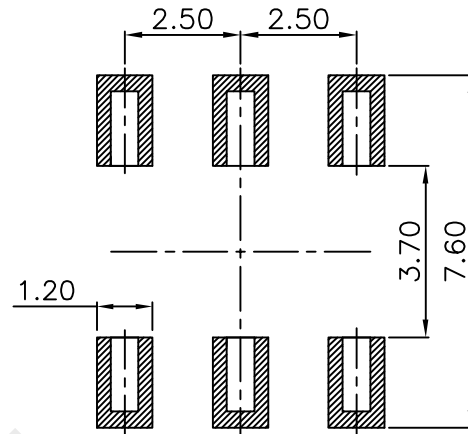
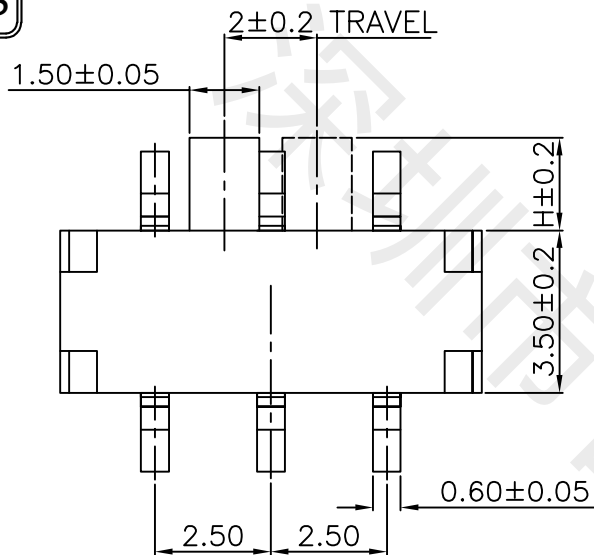
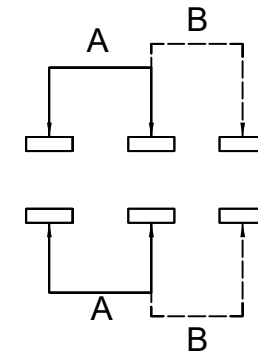


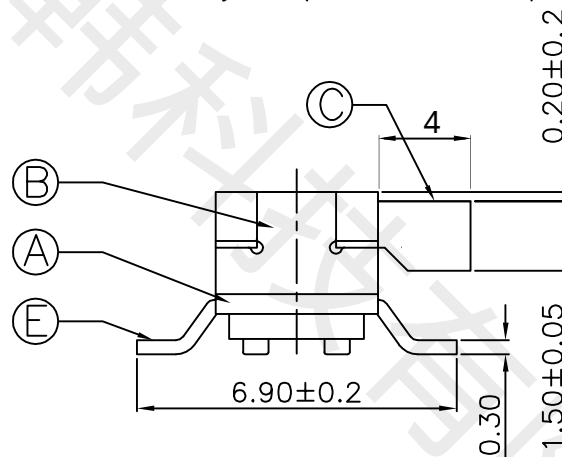
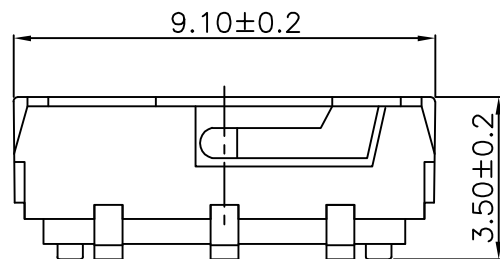
RoHS



PCB Layout(Pattern side)



Circuit Diagram



## 技术参数

| NO | 项目   | 参数             |
|----|------|----------------|
| 1  | 额定电流 | 12V DC 100mA   |
| 2  | 接触电阻 | ≤100mΩ         |
| 3  | 按 力  | 210±70gf       |
| 4  | 行 程  | 2.0±0.1mm      |
| 5  | 绝缘电阻 | >50MΩ          |
| 6  | 抗电强度 | 250V 50Hz 1Min |
| 7  | 寿 命  | 10000 次        |

## Specification 材质

| Part Name | Material | Specification |
|-----------|----------|---------------|
| 名称        | 颜色       | 材质            |
| 盖板        | 银白色      | 不锈钢镀银         |
| 按钮        | 黑色       | PA46          |
| 弹簧        | 本色       | 不锈钢丝          |
| 簧片        | 银白色      | 磷青铜镀银         |
| 基座        | 黑色       | LCP           |
| 端子        | 银白色      | 磷铜镀银          |



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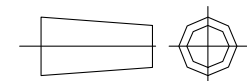
| 标记<br>SING | 处数<br>FREQUENCY | 更改文件号<br>REVISION | 签名<br>APPROVED | 日期<br>DATE | 比例<br>SCALE | 单位<br>UNIT | 重量<br>WEIGHT | 一般公差<br>GENERAL TOLERANCE |
|------------|-----------------|-------------------|----------------|------------|-------------|------------|--------------|---------------------------|
| 设计         | DESIGN          | 李春风               | 2020.8.20      |            | 单位          | mm         |              | 0.5~2 ±0.10               |
| 审核         | CHECKED         | 钟华华               | 2020.8.20      |            |             |            |              | 2~5 ±0.15                 |
| 批准         | APPROVED        | 罗孝金               | 2020.8.20      |            |             |            |              | 5~10 ±0.20                |
|            |                 |                   |                |            |             |            |              | 角度<br>ANGLE ±0.5°         |

名称/NAME:

拨动开关

型号/MODEL:

MST-22D18G4-WT

第三视角  
FIRST VIEW



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:

拨动开关

规格型号 Part No:

MST-22D18G4-WT

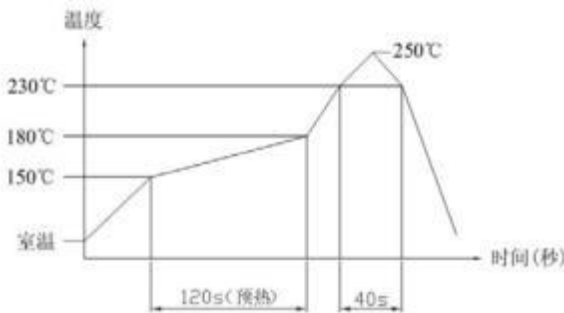
贵公司承认印 Approval signatures

| 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 |                                                                                                                                                                                                                                                                                                                                                                              | 文件编号                                                                                                                                                                                                                                           |                                                               |
|                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              | 发布日期                                                                                                                                                                                                                                           | 2020年8月20日                                                    |
| SPECIFICATION 规格书                                                                             |                                                                                                                                                                                                                                                                                                                                                                              | 第2版                                                                                                                                                                                                                                            | 1of2                                                          |
| 产品名称:拨动开关                                                                                     |                                                                                                                                                                                                                                                                                                                                                                              | 产品型号: MST-22D18G4-WT                                                                                                                                                                                                                           |                                                               |
| 1:GENERAL SPECIFICATION 基本事项                                                                  |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                                                               |
| 1.1                                                                                           | RATING (额定值): DC 12V 100mA                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |                                                               |
| 1.2                                                                                           | PRACTICAL TEMPERATURE RANEG: - 25℃~+70℃.<br>使用温度范围: 在-25℃~+70℃溫度內使用.                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                |                                                               |
| 1.3                                                                                           | STANDARD ATMOSPHEIC CONDITIONS :<br>UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:<br>(1) AMBIENT TEMPERATURE : 5℃ TO 35℃;<br>(2) RELATIVE HUMIDITY : 45% TO 85%;<br>(3) AIR PRESSURE : 86Kpa TO 106Kpa.<br>测试标准状态: 在沒有指定的情況下测试温度, 湿度, 气压如下:<br>(1)温度为5~35℃; (2)湿度为45%~85%; (3) 气压为86Kpa~106Kpa. |                                                                                                                                                                                                                                                |                                                               |
| 2. ELECTRICAL CHARACTERISTICS (电气性能规格):                                                       |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                                                               |
| ITEM                                                                                          | 项目                                                                                                                                                                                                                                                                                                                                                                           | TEST CONDITIONS 测试条件                                                                                                                                                                                                                           | PERFORMANCE (DATA) 规格 (数据)                                    |
| 2.1                                                                                           | CONTACT RESISTANCE<br>接触电阻                                                                                                                                                                                                                                                                                                                                                   | MEASURED AT 1KHz SMALL CURRENT(100 mA OR LESS)<br>在1KHz微小电流(100mA 以下)测试.                                                                                                                                                                       | 100mΩ MAX.<br>100毫欧以下.                                        |
| 2.2                                                                                           | INSULATION RESISTANCE<br>绝缘电阻                                                                                                                                                                                                                                                                                                                                                | APPLY A VOLTAGE OF 100V DC FOR 1 MIN.<br>THE FOLLOWING CONTACE TEST METHOD:<br>(1)BETWEEN BODY AND CONDUCTOR.<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTAC.<br>输入100V DC电压1分钟, 按以下接触方法测试:<br>(1)接触端子之间.<br>(2)胶座体和排脚之间.                          | 50MΩ MIN.<br>50兆欧以上.                                          |
| 2.3                                                                                           | IELECTRIC STRENGTH<br>耐电压                                                                                                                                                                                                                                                                                                                                                    | AC 250V(50-60Hz) FOR 1 MIN TRIP CURRENT:0.5mA<br>THE FOLLOWING CONTACE TEST METHOD:<br>(1)BETWEEN TERMINALS.<br>(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.<br>输入AC250V(50-60Hz) 电压, 1分钟感度电流为0.5mA,<br>接触测试方法如下:<br>(1)接触端子之间.<br>(2)外壳体和排脚之间. | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC.<br>沒有绝缘破坏等异常 |
| 3 .MECHANICAL CHARACTERISTICS (机械性能规格)                                                        |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                                                               |
| ITEM                                                                                          | 项目                                                                                                                                                                                                                                                                                                                                                                           | TEST CONDITIONS 测试条件                                                                                                                                                                                                                           | PERFORMANCE (DATA) 规格 (数据)                                    |
| 3.1                                                                                           | OPERATION FORCE<br>动作力                                                                                                                                                                                                                                                                                                                                                       | LATERAL PUSH (侧向推动)                                                                                                                                                                                                                            | PUSH FORCE (按压力度):<br>210gf±70gf                              |
| 3.2                                                                                           | TRAVEL TO CLOSURE<br>动作行程                                                                                                                                                                                                                                                                                                                                                    | IN THE HORIZONTAL DIRECTION SWITCH HANDLE OPRATION, WITH AN EQUAL TO 2TIMES THE THRUST OF THE SWITSH FORM ONE POSITION TO THE NEXT GEAR, MOVING DISTANCE MEASURING HANDLE.<br>在开关推柄运行的水平方向, 以一个等于2倍推力使开关从一个档位运动到下一档位, 测量推柄的移动距离.               | 2mm±0.1mm                                                     |
| 3.3                                                                                           | STEM STRENGTH<br>操作部 (柄) 强度                                                                                                                                                                                                                                                                                                                                                  | AND ALONG THE RUNNING DIRECTION AT APEX HANDLE( 500gf)ON THESTRENGTH TEST, TIME IS 30 SECONDS.<br>在推柄的先端沿运行方向加上 (500gf) 力度测试, 时间为30秒.                                                                                                          | 外观无异常, 满足于机械, 电气性能                                            |

|                                                                                               |                              |                                                                                                                                                                                                                                                   |                                                                                                                             |
|-----------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  深圳市首韩科技有限公司 |                              | 文件编号<br>发布日期                                                                                                                                                                                                                                      | 2020年8月20日                                                                                                                  |
| SPECIFICATION 规格书                                                                             |                              | 第2版                                                                                                                                                                                                                                               | 2of2                                                                                                                        |
| 产品名称：拨动开关                                                                                     |                              | 产品型号：MST-22D18G4-WT                                                                                                                                                                                                                               |                                                                                                                             |
| 4. DURABILITY(耐久性)：                                                                           |                              |                                                                                                                                                                                                                                                   |                                                                                                                             |
| ITEM 项目                                                                                       |                              | TEST CONDITIONS 测试条件                                                                                                                                                                                                                              | PERFORMANCE (DATA) 规格(数据)                                                                                                   |
| 4.1                                                                                           | LIFE TEST<br>寿命试验            | AN ACTUATOR SHALL BE WITH A THRUST OF NO GREAT THAN 1 TIMES SWITH POWER TO 10000 CYCLES AT A SPEED OF 30 CYCLES FOR 1 MIN.<br>操作者以每分钟30次的频率，施加不大于开关1倍的推力做10000次无负荷测试.                                                                             | 1)CONTACT RESISTANCE SHALL BE 500mΩ MAX.<br>2)LIFETIME:10000CYCLES<br>1)接触电阻不超于500mΩ .<br>2)寿命:10000次                       |
| 4.2                                                                                           | HEAT TEST<br>耐热实验            | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 85±2℃ FOR 96 HOURS.AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.<br>放置在温度85±2℃中96小时后，再放置正常室温中1小时后测定.                      | THERE SHALL BE NO DAMAGE ONAPPEARANCE.<br>MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br>外观无异常，满足于机械，电气性能 |
| 4.3                                                                                           | COLD TEST<br>耐冷实验            | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF-25±3℃ FOR 96 HOURS.AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.<br>放置在温度-25±3℃中96小时后，再放置正常室温中1小时后测定.                     |                                                                                                                             |
| 4.4                                                                                           | HUMIDITY TEST<br>潮湿实验        | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2℃ AND A HUMIDITY OF 80% TO 85% FOR 96 Hr. THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES.<br>放置在40±2℃相对湿度为80~85%环境中96小时后，再将样品放在正常室温中1小时后测定. |                                                                                                                             |
| 4.5                                                                                           | SOLDERING CONDITIONS<br>焊锡条件 | HAND SOLDERING 手焊：<br>1) DIVCE 工具：SOLDER IRON 电烙铁.<br>A. 350℃MAX. ,2 sec Max<br>B. 270℃MAX. ,4 sec Max<br>2) REFLOW SOLDERING 回流焊：≤250℃<br>                    | THERE SHALL BE NO DAMAGE ONAPPEARANCE.<br>MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br>外观无异常，满足于机械，电气性能 |