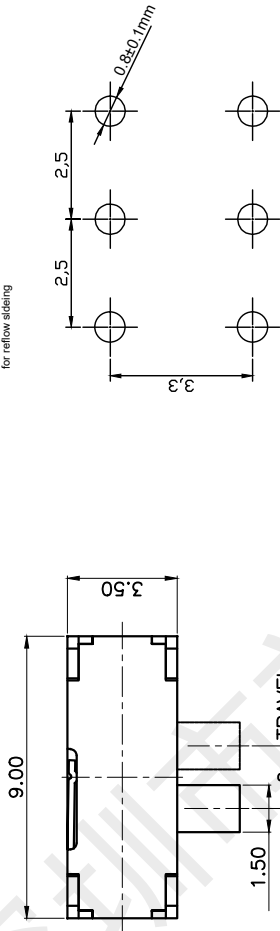


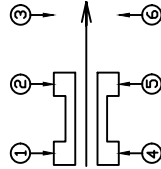
RoHS

P. C. B MOUNTING PATTERN DIMENSION  
the following soldering are recommended  
for reflow soldering



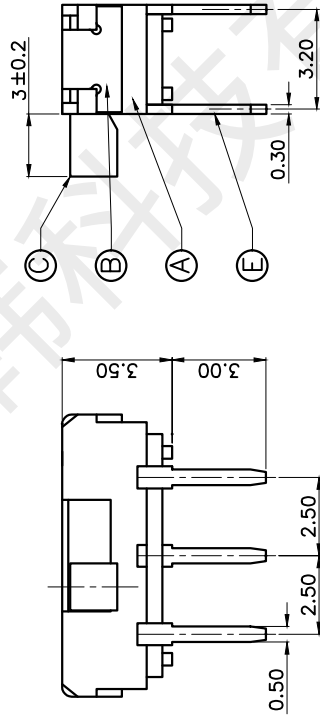
|     |
|-----|
| H   |
| 2.0 |
| 3.0 |
| 4.0 |

CIRCUIT DIAGRAM



技术参数

| NO | 项目   | 参数             |
|----|------|----------------|
| 1  | 额定电流 | 12V DC 500mA   |
| 2  | 接触电阻 | ≤100mΩ         |
| 3  | 按压力  | 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 |
|-----------|----------|---------------|
| 盖板        | 颜色       | 材质            |
| 按钮        | 银白色      | 不锈钢镀银         |
| 弹簧        | 黑色       | PA46/9T       |
| 簧片        | 本色       | 不锈钢丝          |
| 底座        | 银白色      | 磷青铜镀银         |
| 端子        | 黑色       | PA46/9T/LCP   |
|           | 银白色      | 磷铜镀银          |

名称/NAME:

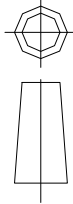
拨动开关

型号/MODEL:

HX MSK-22D18G3 051

| 标记 | 频率       | 更改文件号 | 签名        | 日期        | 比例 | 公差          |
|----|----------|-------|-----------|-----------|----|-------------|
| 设计 | DESIGN   | 黄彬    | 2020.8.20 | 2020.8.20 | mm | 0.5~2 ±0.10 |
| 审核 | CHECKED  | 张伟    | 2020.8.20 | 2020.8.20 | 重量 | 2~5 ±0.15   |
| 批准 | APPROVED | 罗小春   | 2020.8.20 | 2020.8.20 | 角度 | 5~10 ±0.20  |
|    |          |       |           |           | 角度 | ±0.5°       |

第三视图  
FIRST VIEW



深圳市韩下电子有限公司



8

7

6

3

3

2

1



深圳市韩下电子有限公司

Shenzhen Hanxia Electronic Co., Ltd  
Tel: 0755-33819206 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

拨动开关

\_\_\_\_\_

规格型号 Part No:

HX MSK-22D18G3 051

\_\_\_\_\_

#### 贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |  |
|-------------|-----|--|
| 拟制/Drawn    | 黄彬  |  |
| 审核/Check    | 张伟  |  |
| 批准/Approved | 罗小春 |  |



## SPECIFICATION 规格书

|   |   |  |  |
|---|---|--|--|
| 1: GENERAL SPECIFICATION 基本事项           |   |  |  |
| 1.1                                     | RATING (额定值): DC 12V 500mA  |  |  |
| 1.2                                     | PRACTICAL TEMPERATURE RANGE: -25°C~+70°C.<br>使用温度范围: 在-25°C~+70°C温度内使用.   |  |  |
| 1.3                                     | STANDARD ATMOSPHERIC CONDITIONS :<br>UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:<br>(1) AMBIENT TEMPERATURE : 5°C TO 35°C;<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°C; (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) 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 500V DC FOR 1 MIN.<br>THE FOLLOWING CONTACT TEST METHOD:<br>(1) BETWEEN BODY AND CONDUCTOR.<br>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT.<br>输入500V 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                                     | ELECTRIC STRENGTH<br>耐电压  | AC 250V (50-60Hz) FOR 1 MIN TRIP CURRENT: 0.5mA<br>THE FOLLOWING CONTACT 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 (推动力度)<br>: 210gf ± 70gf  |
| 3.2                                     | TRAVEL TO CLOSURE<br>动作行程   | IN THE HORIZONTAL DIRECTION SWITCH HANDLE OPERATION, WITH AN EQUAL TO 2 TIMES THE THRUST OF THE SWITCH FROM 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 ± 0.2mm  |
| 3.3                                     | STEM STRENGTH<br>操作部(柄)强度   | AND ALONG THE RUNNING DIRECTION AT APEX HANDLE (500gf)<br>ON THE STRENGTH 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.   | THERE SHALL BE NO DAMAGE ON APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常, 满足于机械, 电气性能 |



| 4. DURABILITY (耐久性) : |   |  |
|-----------------------|---|--|
| ITEM 项目               | TEST CONDITIONS 测试条件  | PERFORMANCE (DATA) 规格(数据)  |
| 4.1                   | <p>LIFE TEST<br/>寿命试验</p> <p>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.</p>   | <p>1) CONTACT RESISTANCE SHALL BE 50mΩ MAX.<br/>2) LIFETIME: 10000次<br/>1) 接触电阻不超于50mΩ.<br/>2) 寿命: 10000次</p>                  |
| 4.2                   | <p>HEAT TEST<br/>耐热实验</p> <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 85±2°C 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°C中96小时后，再放置正常室温中1小时后测定.</p>                         | <p>THERE SHALL BE NO DAMAGE ONAPPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>外观无异常，满足于机械，电气性能</p> |
| 4.3                   | <p>COLD TEST<br/>耐冷实验</p> <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3°C 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°C中96小时后，再放置正常室温中1小时后测定.</p>                       |  |
| 4.4                   | <p>HUMIDITY TEST<br/>潮湿实验</p> <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2°C 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°C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.</p> |  |
| 4.5                   | <p>SOLDERING CONDITIONS<br/>焊锡条件</p> <p>HAND SOLDERING 手焊:<br/>1) DIVCE 工具: SOLDER IRON 电烙铁.<br/>A. 350°C MAX., 2 sec Max<br/>B. 270°C MAX., 4 sec Max</p>  | <p>THERE SHALL BE NO DAMAGE ONAPPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED<br/>外观无异常，满足于机械，电气性能</p> |

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