

|  |   |   |  |
|--|---|---|--|
| SHENZHEN XIEJIA ELECTRONICS CO., LTD.<br>深圳市协佳电子有限公司 |   | 文件编号<br>发布日期  | XJ-SP-5085<br>2004年3月17日   |
| SPECIFICATION 规格书                                    |   | 第A版   | 第1页 共3页  |
| MODEL NO.<br>产品名称. PS-22F46                          |   |   |  |
| DRAWN 制订   |   | APPD. 审批  |  |
| 1. RATING (额定值)                                      |   | : DC 50V 0.3A   |  |
| 2. FUNCTION (接触型式)                                   |   | : 2P2T  |  |
| 3. TIMING (时间特性)                                     |   | : NON-SHORTING  |  |
| 4. ELECTRICAL CHARACTERISTICS (电气性能规格):              |   |   |  |
| ITEM 项目  |   | TEST CONDITIONS 测试条件  | PERFORMANCE 规格   |
| 4.1  | 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.   | 30mΩ MAX.<br>30 毫欧以下.  |
| 4.2  | INSULATION RESISTANCE<br>绝缘电阻           | APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE:<br>(1) BETWEEN TERMINALS.<br>(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.<br>输入 500V DC 电压 1 分钟,按以下接触方法测试:<br>(1) 排脚相互之间.<br>(2) 排脚与外壳之间. | 100MΩ MIN.<br>100 兆欧以上.  |
| 4.3  | DIELECTRIC STRENGTH<br>耐电压              | AC 500V rms(50-60Hz)FOR 1 MIN TRIP CURRENT:0.5 mA<br>(1) BETWEEN TERMINALS.<br>(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.<br>输入 AC 500V(50-60Hz)电压,1 分钟感度电流为 0.5mA,按以下接触方法测试:<br>(1) 排脚相互之间.<br>(2) 排脚与外壳之间 .                  | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN, ETC.<br>没有绝缘破坏等异常.  |
| 5 .MECHANICAL CHARACTERISTICS (机械性能规格)               |   |   |  |
| ITEM 项目  |   | TEST CONDITIONS 测试条件  | PERFORMANCE 规格   |
| 5.1  | OPERATING FORCE<br>作动力                  | MEASUREMENT SHALL BE MADE AT THE NEAREST POINT OF THE COMPONENT OR AT THE POINT 3mm FROM THE TIP OF THE ACTUATOR (KNOB).<br>在距离胶柄前端 3mm 作测定点 .  | 250gf±100gf  |
| 5.2  | TERMINAL STRENGTH<br>端子强度               | A STATIC LOAD OF 500gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC. IN ANY DIRECTION<br>在排脚前端任意一个方向加 500gf 力度测试,时间为 15 秒.   | ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS.<br>在排脚中没有裂开.松动等异常, 满足于机械、电器性能. |
| 5.3  | DISPLACEMENT OF ACTUATOR (KNOB)<br>柄 强度 | A STATIC LOAD OF 10 N(1KgF)SHALL BE APPLIED TO THE TOP OF THE ACTUATOR(KNOD) AND THEN DISPLACEMENT SHALL BE MEASURED TO THE DIRECTION OF THE ARROW.<br>在柄的前端施加 1KgF 的力度,位移应沿印记的方向上定.  | THE LEVER SHALL HAVE NO SERIOUS DEFORMATION AND FUNCTION IS NORMALLY .<br>柄部无严重变形,可以正常工作.  |

|   |              |                          |
|---|--------------|--------------------------|
| SHENZHEN XIEJIA ELECTRONICS CO.,LTD.<br>深圳市协佳电子有限公司 | 文件编号<br>发布日期 | XJ-SP-5085<br>2004年3月17日 |
| SPECIFICATION 规格书                                   | 第 A 版        | 第 2 页 共 3 页              |

6. ENDURANCE CHARACTERISTICS (耐久性):

| ITEM 项目   | TEST CONDITIONS 测试条件   | PERFORMANCE 规格   |                        |                |                      |       |     |                         |        |     |  |
|---|--|--|------------------------|----------------|----------------------|-------|-----|-------------------------|--------|-----|--|
| 6.1<br>LIFE TEST<br>寿命试验                          | ENDURANCE WITHOUT LOADING:<br>A SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES PER MINUTE WITHOUT LOADING.<br>无负荷:<br>在无负荷的条件下以每分钟 15~18 回的速度进行 10,000 次的测试。   | (1) CONTACT RESISTANCE (接触电阻)<br>100mΩ MAX. 100 毫欧以下。<br>(2) INSULATION RESISTANCE (绝缘电阻)<br>50MΩ MIN. 50 兆欧以上。<br>(3) WITHSTAND VOLTAGE (耐电压)<br>AC 500V, 1 MINUTE. AC 500V 1 分钟。<br>(4) OPERATING FORCE (作动力)<br>±30% INITIAL VALUE.<br>变化范围初始值±30%。<br>(5) WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC.<br>(测试后外表无损伤, 并且满足机械性能) |                        |                |                      |       |     |                         |        |     |  |
| 6.2<br>SOLDERABILITY TEST<br>可焊性试验                | THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 230±5°C FOR 3±0.5 SECONDS.<br>端子顶部被浸入锡焊池中 2mm 深, 温度为 230±5°C, 时间为 3±0.5 秒。  | THE AREA OF SOLDERING.<br>SHOULD BE OVER 75%.<br>焊接面积要有 75% 以上。  |                        |                |                      |       |     |                         |        |     |  |
| 6.3<br>RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | <p>(1) . TEMPERATURE AND IMMERSING TIME<br/>温度及浸锡时间</p> <table border="1"> <thead> <tr> <th></th> <th>TEMPERATURE<br/>温度 (°C)</th> <th>TIME<br/>时间 (s)</th> </tr> </thead> <tbody> <tr> <td>DIP SOLDERING<br/>浸 锡</td> <td>260±5</td> <td>3±1</td> </tr> <tr> <td>MANUAL SOLDERING<br/>手 焊</td> <td>360±10</td> <td>3±1</td> </tr> </tbody> </table> <p>(2) . IMMERSION DEPTH:<br/>IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD<br/>THICKNESS OF PRINTED WIRING BOARD 1.6mm<br/>浸锡深度:<br/>浸锡深度至基板 (PCB) 表面, 基板厚度为 1.6mm.</p> |  | TEMPERATURE<br>温度 (°C) | TIME<br>时间 (s) | DIP SOLDERING<br>浸 锡 | 260±5 | 3±1 | MANUAL SOLDERING<br>手 焊 | 360±10 | 3±1 | WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br>本体无变形, 能满足于机械、电器性能。 |
|   | TEMPERATURE<br>温度 (°C)   | TIME<br>时间 (s)   |                        |                |                      |       |     |                         |        |     |  |
| DIP SOLDERING<br>浸 锡                              | 260±5  | 3±1  |                        |                |                      |       |     |                         |        |     |  |
| MANUAL SOLDERING<br>手 焊                           | 360±10   | 3±1  |                        |                |                      |       |     |                         |        |     |  |
| 6.4<br>COLD TEST<br>耐冷试验                          | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3°C FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.<br>放置在温度 -25±3°C 中 48 小时后, 再放置常温常湿中 1 小时来进行测试。   | THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.<br>外观无异常, 满足于机械、电器性能。  |                        |                |                      |       |     |                         |        |     |  |

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| SHENZHEN XIEJIA ELECTRONICS CO.,LTD. |   | 文件编号  | XJ-SP-5085  |
| 深圳市协佳电子有限公司                          |   | 发布日期  | 2004年3月17日  |
| SPECIFICATION 规格书                    |   | 第 A 版   | 第 3 页 共 3 页   |
| 6.5                                  | HEAT TEST<br>耐热试验                         | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>70\pm 2^{\circ}\text{C}</math> FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置在温度 <math>70\pm 2^{\circ}\text{C}</math> 中测试 48 小时后,再放置正常室温中 1 小时来测定.</p>  | <p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.</p> <p>外观无异常,满足于机械、电器性能。</p> |
| 6.6                                  | HUMIDITY TEST<br>潮湿试验                     | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>40\pm 2^{\circ}\text{C}</math> AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置 <math>40\pm 2^{\circ}\text{C}</math> 的相对湿度为 90%~95% 环境中 96 小时后,再将样版放在正常环境 1 小时后进行测试。</p>  |   |
| 6.7                                  | STANDARD ATMOSPHERIC CONDITIONS<br>测试标准状态 | <p>UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:</p> <p>(1) AMBIENT TEMPERATURE : <math>5^{\circ}\text{C}</math> TO <math>35^{\circ}\text{C}</math><br/> (2) RELATIVE HUMIDITY : 45% TO 85%<br/> (3) AIR PRESSURE : 86Kpa TO 106Kpa</p> <p>在没有指定的情况下测试温度、湿度、气压如下:<br/> (1) 温度为 <math>5\sim 35^{\circ}\text{C}</math>.<br/> (2) 湿度为 45%~85%.<br/> (3) 气压为 86Kpa~106Kpa.</p> |   |
| 6.8                                  | PRACTICAL TEMPERATURE RANGE<br>使用温度范围     | <p><math>-16^{\circ}\text{C}\sim +60^{\circ}\text{C}</math>.</p> <p>在 <math>-16^{\circ}\text{C}\sim +60^{\circ}\text{C}</math> 内使用.</p>   |   |