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| SHENZHEN XIEJIA ELECTRONICS CO., LTD.   |                                          | 文件编号                                                                                                                                                                                                                                                                                                                               | XJ-SP-4005                                                                                                                        |
| 深圳市协佳电子有限公司                             |                                          | 发布日期                                                                                                                                                                                                                                                                                                                               | 2007 年 12 月 2 日                                                                                                                   |
| SPECIFICATION 规格书                       |                                          | 第 B 版                                                                                                                                                                                                                                                                                                                              | 第 1 页 共 3 页                                                                                                                       |
| MODEL NO.                               |                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                   |
| 产 品 名 称 . PB-22E32                      |                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                   |
| DRAWN 制 订                               |                                          | APPD.审 批                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |
| 1. RATING (额 定 值)                       |                                          | : DC 12V 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            | A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN.<br>AFTER WHICH MEASUREMENT SHALL 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) 接触端子之间.<br>(2) 胶座体与端子之间.                                                                                              | 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) 接触端子之间.<br>(2) 插座体与端子之间.                                                                                                                   | WITHOUT DAMAGE SUCH AS INSULATION BREAKDOWN.<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                   |                                                                                                                                                                                                                                                                                                                                    | 350gf ±150gf                                                                                                                      |
| 5.2                                     | TERMINAL STRENGTH<br>端子强度                | A STATIC LOAD OF (300 gf) SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN. IN ANY DIRECTION.<br>在任意一个方向的先端上加力度(300 gf)1 分钟.                                                                                                                                                                                                  | 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                                     | STANDARD ATMOSPHEIC CONDITIONS<br>测试标准状态 | 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>在没有指定的情况下测试温度、湿度、气压如下:<br>(1) 温度为 5~35℃<br>(2) 湿度为 45%~85%<br>(3) 气压为 86Kpa~106Kpa |                                                                                                                                   |

|                                      |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
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| 深圳市协佳电子有限公司                          |                                            | 发布日期                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2007 年 12 月 2 日                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| SPECIFICATION 规格书                    |                                            | 第 B 版                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 第 2 页 共 3 页                                                                                                                                                |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| 5.4                                  | PRACTICAL TEMPERATURE RANGE<br>使用温度范围      | -16℃~+60℃<br>在-16℃~+60℃温度内使用                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| 6. ENDURANCE CHARACTERISTICS (耐久性)：  |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| ITEM 项目                              |                                            | TEST CONDITIONS 测试条件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PERFORMANCE 规格                                                                                                                                             |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| 6.1                                  | SOLDERABILITY TEST<br>可焊性试验                | THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 230±5℃ FOR 3±0.5 SECONDS.<br>端子顶部被浸入锡焊池中 2mm 深，温度为 230±5℃，时间为 3±0.5 秒。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THE AREA OF SOLDERING SHOULD BE OVER 75%<br>焊接面积要有 75%以上。                                                                                                  |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| 6.2                                  | RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | <div>(1) . TEMPERATURE AND IMMERSING TIME<br/>温度及浸锡时间</div> <table><tr><td></td><td>TEMPERATURE<br/>温度 (℃)</td><td>TIME<br/>时间 (S)</td></tr><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></table> <div>(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.</div> <div>(3) .WAVE SOLDERING<br/>波峰焊</div> <div>(A) 260±5℃ 5 SCE.MAX.</div> <div>(B) PREHEAT TIME SHALL BE 30 SECONDS MAX.<br/>AT 100℃ MAX.<br/>预热温度 100℃ 以下，30 秒以内完成。</div> |                                                                                                                                                            | TEMPERATURE<br>温度 (℃) | TIME<br>时间 (S) | DIP SOLDERING<br>浸 锡 | 260±5 | 3±1 | MANUAL SOLDERING<br>手 焊 | 360±10 | 3±1 | THERE SHALL BE NO DEFORMATION OF THE SWITCH. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br>本体无变形, 满足于机械、电气性能。 |
|                                      | TEMPERATURE<br>温度 (℃)                      | TIME<br>时间 (S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| DIP SOLDERING<br>浸 锡                 | 260±5                                      | 3±1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| MANUAL SOLDERING<br>手 焊              | 360±10                                     | 3±1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                            |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |
| 6.3                                  | LIFE TEST<br>寿命试验                          | WITHOUT LOAD:<br>AN ACTUATOR SHALL BE SUBJECT TO 100,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES FOR 1 MIN.<br>无负荷：<br>操作者以每分钟 15~18 次的频率作 100,000 回之无负荷测试。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (1) CONTACT RESISTANCE SHALL BE 100mΩ MAX.<br>(2) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.<br>(1) 接触电阻不能超于 100mΩ<br>(2) 其它、满足于机械、电器性能 |                       |                |                      |       |     |                         |        |     |                                                                                                                                  |

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|                                                      |                       | 第 B 版                                                                                                                                                                                                                                                                                                                                                       | 第 3 页 共 3 页                                                                                                                             |
| 6.4                                                  | COLD TEST<br>耐冷试验     | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>-25\pm 3^{\circ}\text{C}</math> FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置在温度<math>-25\pm 3^{\circ}\text{C}</math>中 96 小时后,再放置常温常湿中 1 小时来测定。</p>                                                 | <p>THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.</p> <p>外观无异常, 满足于机械, 电器性能。</p> |
| 6.5                                                  | HEAT TEST<br>耐热试验     | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF <math>85\pm 2^{\circ}\text{C}</math> FOR 96 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置在温度 <math>85\pm 2^{\circ}\text{C}</math> 中测试 96 小时后,再放置正常室温中 1 小时来测定。</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> |                                                                                                                                         |