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| SHENZHEN XIEJIA ELECTRONICS CO.,LTD.<br>深圳市协佳电子有限公司 |                                         | 文件编号                                                                                                                                                                                                                            | XJ-SP-1111                                                                                                                       |
|                                                     |                                         | 发布日期                                                                                                                                                                                                                            | 2005年9月12日                                                                                                                       |
| SPECIFICATION 规格书                                   |                                         | 第A版                                                                                                                                                                                                                             | 第1页共3页                                                                                                                           |
| MODEL NO.<br>产品名称. SK-22F16                         |                                         |                                                                                                                                                                                                                                 |                                                                                                                                  |
| DRAWN 制订                                            |                                         | APPD. 审批                                                                                                                                                                                                                        |                                                                                                                                  |
| 1. RATING (额定值) : DC 50V 0.5A                       |                                         |                                                                                                                                                                                                                                 |                                                                                                                                  |
| 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.                                        |

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| 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                                                                                                                                                                                                                                                                                                                                 |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |
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| 6.1<br>LIFE TEST<br>寿命试验                          | <p>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。</p>                                                                                                                                                                                                                                                                                                               | <p>(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)</p> |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |
| 6.2<br>SOLDERABILITY TEST<br>可焊性试验                | <p>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。</p>                                                                                                                                                                                                                                                                                                                                                               | <p>THE AREA OF SOLDERING SHOULD BE OVER 75%.<br/>焊接面积要有75%以上。</p>                                                                                                                                                                                                                                                                              |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |
| 6.3<br>RESISTANCE TO SOLDERING HEAT TEST<br>耐焊性试验 | <table border="1"> <tr> <td colspan="3">(1). TEMPERATURE AND IMMERSING TIME<br/>温度及浸锡时间</td> </tr> <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> <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> | (1). TEMPERATURE AND IMMERSING TIME<br>温度及浸锡时间                                                                                                                                                                                                                                                                                                 |  |  |  | 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 | <p>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。</p> |
| (1). TEMPERATURE AND IMMERSING TIME<br>温度及浸锡时间    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |
|                                                   | 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                                                                                                                                                                                                                                                                                                                                            |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |
| 6.4<br>COLD TEST<br>耐冷试验                          | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3℃ 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℃中48小时后,再放置常温常湿中1小时来进行测试。</p>                                                                                                                                                                                                                                                                | <p>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。</p>                                                                                                                                                                                                                                                           |  |  |  |                      |               |                     |       |     |                        |        |     |                                                                                                                                             |

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| SPECIFICATION 规格书                                   |                                           | 第 A 版                                                                                                                                                                                                                                                                                                                                  | 第 3 页 共 3 页                                                                  |
| 6.5                                                 | HEAT TEST<br>耐热试验                         | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 70±2℃ 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 70±2℃中测试 48 小时后,再放置正常室温中 1 小时来测定.                                                                                                 | 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。 |
| 6.6                                                 | HUMIDITY TEST<br>潮湿试验                     | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2℃ 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.<br>放置 40±2℃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.                                                      |                                                                              |
| 6.7                                                 | STANDARD ATMOSPHERIC 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. |                                                                              |
| 6.8                                                 | PRACTICAL TEMPERATURE RANGE<br>使用温度范围     | -16℃~+60℃.<br>在-16℃~+60℃内使用.                                                                                                                                                                                                                                                                                                           |                                                                              |