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| SHENZHEN XIEJIA ELECTRONICS CO., LTD. 深圳市协佳电子有限公司 | | 文件编号 发布日期 | XJ-SP-0080 2002年5月17日 |
| SPECIFICATION 规格书 | | 第A版 | 第1页共3页 |
| MODEL NO. 产品名称. SS-42D02 SS-42D03 | | | |
| DRAWN 制订 | | APPD. 审批 | |
| 1. RATING (额定值) | | : DC 50V 0.3A | |
| 2. FUNCTION (接触型式) | | : 4P2T | |
| 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 接触电阻 | MEASURED AT 1KHz SMALL CURRENT(100 mA OR LESS) 在1KHz 微小电流(100mA) 以下测试. | 30mΩ MAX. 30 毫欧以下. |
| 4.2 | INSULATION RESISTANCE 绝缘电阻 | APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE: (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入 500V DC 电压 1 分钟,按以下接触方法测试: (1) 排脚相互之间. (2) 排脚与外壳之间. | 100MΩ MIN. 100 兆欧以上. |
| 4.3 | DIELECTRIC STRENGTH 耐电压 | AC 500V rms(50-60Hz)FOR 1 MIN TRIP CURRENT:0.5 mA (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME. 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: (1) 排脚相互之间. (2) 排脚与外壳之间 . | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN, ETC. 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 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). 在距离胶柄前端 3mm 作测定点 . | 250gf±100gf |
| 5.2 | TERMINAL STRENGTH 端子强度 | A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC.IN ANY DIRECTION 在排脚前端任意一个方向加 300gf 力度测试,时间为 15 秒. | ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS. 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) 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. 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 . 柄部无严重变形,可以正常工作. |

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6. ENDURANCE CHARACTERISTICS (耐久性):

| ITEM 项目 | TEST CONDITIONS 测试条件 | PERFORMANCE 规格 | | | | | | | | | | | | |
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| 6.1 LIFE TEST 寿命试验 | <p>ENDURANCE WITHOUT LOADING: A SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES PER MINUTE WITHOUT LOADING. 无负荷: 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) 100mΩ MAX. 100 毫欧以下。 (2) INSULATION RESISTANCE (绝缘电阻) 50MΩ MIN. 50 兆欧以上。 (3) WITHSTAND VOLTAGE (耐电压) AC 500V, 1 MINUTE. AC 500V 1 分钟。 (4) OPERATING FORCE (作动力) ±30% INITIAL VALUE. 变化范围初始值±30%。 (5) WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. (测试后外表无损伤, 并且满足机械性能)</p> | | | | | | | | | | | | |
| 6.2 SOLDERABILITY TEST 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. 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%. 焊接面积要有 75% 以上。</p> | | | | | | | | | | | | |
| 6.3 RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验 | <table border="1"> <tr> <td colspan="3">(1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间</td> </tr> <tr> <td></td> <td>TEMPERATURE 温度 (°C)</td> <td>TIME 时间 (s)</td> </tr> <tr> <td>DIP SOLDERING 浸锡</td> <td>260±5</td> <td>3±1</td> </tr> <tr> <td>MANUAL SOLDERING 手焊</td> <td>360±10</td> <td>3±1</td> </tr> </table> <p>(2). IMMERSION DEPTH: IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm 浸锡深度: 浸锡深度至基板 (PCB) 表面, 基板厚度为 1.6mm.</p> | (1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间 | | | | TEMPERATURE 温度 (°C) | TIME 时间 (s) | DIP SOLDERING 浸锡 | 260±5 | 3±1 | MANUAL SOLDERING 手焊 | 360±10 | 3±1 | <p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TERMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形, 能满足于机械、电器性能。</p> |
| (1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间 | | | | | | | | | | | | | | |
| | TEMPERATURE 温度 (°C) | TIME 时间 (s) | | | | | | | | | | | | |
| DIP SOLDERING 浸锡 | 260±5 | 3±1 | | | | | | | | | | | | |
| MANUAL SOLDERING 手焊 | 360±10 | 3±1 | | | | | | | | | | | | |
| 6.4 COLD TEST 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. 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. 外观无异常, 满足于机械、电器性能。</p> | | | | | | | | | | | | |

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| 6.5 | HEAT TEST 耐热试验 | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 70±2°C 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 70±2°C 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 潮湿试验 | <p>THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2°C 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 40±2°C 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 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 : 5°C TO 35°C (2) RELATIVE HUMIDITY : 45% TO 85% (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:</p> <p>(1) 温度为 5~35°C. (2) 湿度为 45%~85%. (3) 气压为 86Kpa~106Kpa.</p> | |
| 6.8 | PRACTICAL TEMPERATURE RANGE 使用温度范围 | <p>-16°C~+60°C.</p> <p>在-16°C~+60°C内使用.</p> | |