

| 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-1037 2005年9月23日 |
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| SPECIFICATION 规格书 | | 第A版 | 第1页共3页 |
| MODEL NO. 产品名称. SK-24F01 | | | |
| DRAWN 制订 | | APPD. 审批 | |
| 1. RATING (额定值) : DC 50V 0.3A | | | |
| 2. FUNCTION (接触型式) : 2P4T | | | |
| 3. TIMING (时间特性) : 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 FOR 1 MIN. TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE. (1) BETWEEN BODY AND TERMINAL. (2) BETWEEN TERMINALS. 输入500V DC电压1分钟,按以下接触方法测试: (1) 外壳与排脚之间. (2) 端子之间. | 100MΩ MIN. 100兆欧以上。 |
| 4.3 | DIELECTRIC STRENGTH 耐电压 | AC 500V (50-60Hz)FOR 1 MIN TRIP CURRENT:0.5 mA (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINAL AND FRAME. 输入AC 500V(50-60Hz)电压,1分钟感度电流为0.5 mA,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。 | (T1→T2,T4→T3)200gf±100gf (T2→T3,T3→T2)300gf±100gf (T3→T4,T2→T1)400gf±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。 | MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF ACTUATOR. 在端子中没有裂开、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(KNOB) AND THEN DISPLACEMENT SHALL BE MEASURED TO THE DIR- ECTION 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 | | | | | | | | | |
|---|---|--|----------------------|---------------|---------------------|-------|-----|-----------------------|--------|-----|---|
| 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 | <p>(1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间</p> <table border="1"> <thead> <tr> <th></th> <th>TEMPERATURE 温度(℃)</th> <th>TIME 时间(s)</th> </tr> </thead> <tbody> <tr> <td>DIP SOLDERING 浸锡</td> <td>260±5</td> <td>3±1</td> </tr> <tr> <td>MANUALSOLDERING 手焊</td> <td>360±10</td> <td>3±1</td> </tr> </tbody> </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> | | TEMPERATURE 温度(℃) | TIME 时间(s) | DIP SOLDERING 浸锡 | 260±5 | 3±1 | MANUALSOLDERING 手焊 | 360±10 | 3±1 | <p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形,能满足于机械、电器性能。</p> |
| | TEMPERATURE 温度(℃) | TIME 时间(s) | | | | | | | | | |
| DIP SOLDERING 浸锡 | 260±5 | 3±1 | | | | | | | | | |
| MANUALSOLDERING 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 | 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. 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. 外观无异常,满足于机械、电器性能。 |
| 6.6 | HUMIDITY TEST 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. 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 测试标准状态 | UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) AMBIENT TEMPERATURE : 5℃ TO 35℃ (2) RELATIVE HUMIDITY : 45% TO 85% (3) AIR PRESSURE : 86Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为 5~35℃. (2) 湿度为 45%~85%. (3) 气压为 86Kpa~106Kpa. | |
| 6.8 | PRACTICAL TEMPERATURE RANGE 使用温度范围 | -16℃~+60℃. 在-16℃~+60℃内使用. | |