

SHENZHEN XIEJIA ELECTRONICS CO., LTD. 深圳市协佳电子有限公司		文件编号	XJ-SP-5049
SPECIFICATION 规格书		发布日期	2005年7月23日
		第A版	第1页共3页
MODEL NO. 产品名称. PS-42D01			
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 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 .	40gf MAX. 40gf 以下.
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(KNOD) 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°C FOR 3±0.5 SECONDS. 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。</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"> <thead> <tr> <th colspan="2">(1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间</th> </tr> <tr> <th></th> <th>TEMPERATURE 温度(°C)</th> </tr> </thead> <tbody> <tr> <td>DIP SOLDERING 浸锡</td> <td>260±5</td> </tr> <tr> <td>MANUAL SOLDERING 手焊</td> <td>360±10</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>	(1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间			TEMPERATURE 温度(°C)	DIP SOLDERING 浸锡	260±5	MANUAL SOLDERING 手焊	360±10	<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)									
DIP SOLDERING 浸锡	260±5									
MANUAL SOLDERING 手焊	360±10									
6.4 COLD TEST 耐冷试验	<p>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. 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。</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 <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 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 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>  (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:  (1) 温度为 <math>5\sim 35^{\circ}\text{C}</math>.  (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><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>	