



Yuenfung Ec Company

源丰电子公司

SPECIFICATION 规格书		承认书编号		
		版 本		A/0
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WRITTEN 制定	雷艳平	审 核		
		APP'D审批		
MODEL/SERIES/NAME 系列名称:		TOGGLE SWITCH		
MODEL NO 产品型号:		SMTS-101-A1-T5-RS		
1.RATING 额定值:		1.5A 250VAC 3A 125VAC		
2.FUNCTION 接触型式:		SPST 2P		
3. CIRCUITRY TRAIT:		ON-OFF		
4.ELECTRICAL CHARACTERISTICS 电气性能规格:				
ITEM项目		TEST CONDITIONS 测试条件		PERFORMANCE 表现
4. 1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT(100mA OR LESS)1000Hz 在微小电流(100mA)以下测试.		50mΩ MAX 50毫欧以下
4. 2	INSULATION RESISTANCE 绝缘电阻			APPLY A VOL TAGE OF 500V DC FOR 1 MIN.TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1)BETWEEN BODY AND CONDUCTOR. (2)BETWEEN CONDUCTORS NOT TO BE CONTACT. 输入500V DC电压1分钟,按以下接触方法测试: (1)接触端子之间. (2)塑胶体与端子之间.
4. 3	DIELECTRIC STRENGTH 耐电压	AC1000V ims(50-60Hz)FOR 1 MIN : (1)BETWEEN TERMINALS. (2)BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入AC1000V (50-60Hz)电压1分钟,按以下接触方法测试: (1)接触端子之间.(2)塑胶体与端子之间.		NO DAMAGE TO PARTS ARCING,OR BREAKDOWN ETC. 没有绝缘破坏等异常.
5	PRACTICAL TEMPERATURE RANGE 使用温度范围	A-16℃~+85℃ 在-16℃~+85℃温度内使用		
6	STANDARD ATMOSPHEIC CONDITIONS 测试标准状态	UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AS FOLLOWS: (1)AMBIENT TEMPERATURE:5℃TO35℃. (2)RELATIVE HUMIDITY:45%TO85%. 在没有指定的情况下测试温度,湿度如下: (1)温度为5℃-35℃.(2)湿度为45%-85%.		
6. 1	STORE THE PERIOD 储存期	TEMPERATUER: 0℃~30℃ 温度: 0℃~30℃ DEGREE OF HUMIDITY 湿度40%~70%		THREE MONTH 三个月



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7.MECHANICAL CHARACTERISTICS 机械性能规格:

ITEM项目		TEST CONDITIONS 测试条件	PERFORMANCE 表现
7.1	OPERATION FORCE 作动力		
7.2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 1Kgf SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 15 SEC, IN ANY DIRECTION 在任意一个方向的前端加上1Kgf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.
7.3	LIFE TEST 寿命测试	1.ENDURANCE WITHOUT LOADING: THE TEST SHOULD BE TAKEN AT A SPEED OF 15-20 CYCLES FOR 1 MIN; 1.5 TIMES OF THE STANDARD FORCE 无负荷:每分钟15-20回速度测试压力不得超过标准力度1.5倍.进行测试 2.ENDURANCE WITH LOADING: THE TEST SHOULD BE TAKEN AT A SPEED OF 15-20 CYCLES FOR 1 MIN; OPERATE PRESSURE SHOULD BE UNDER THE 1.5 TIMES OF THE STANDARD FORCE 负荷:在负荷的条件下以每分钟15-20回的速度压力不得超过标准力度1.5倍.进行测试	(1).20,000 CYCLES CONTACT AT WITHOUT LOADING. 在无负荷下20,000次接触 (2).10,000 CYCLES MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 10,000次满足于机械,电器性能;

8.DURABILITY 耐久性:

ITEM项目		TEST CONDITIONS 测试条件	PERFORMANCE 表现
8.1	SOLDERABILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF $230 \pm 10^{\circ}\text{C}$ FOR 3 ± 0.5 SECONDS. 端子顶部被浸入锡焊池中2mm深,浓度为 $230 \pm 10^{\circ}\text{C}$,时间为 3 ± 0.5 秒.	THE AREA OF SOLDERING, SHOULD BE OVER 75%. 焊接面积要有75%以上.
8.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDER BATH METHOD: SOLDER TEMPERATURE $260 \pm 5^{\circ}\text{C}$, IMMERSION TIME 3 ± 0.5 SEC, IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD, DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BE IN ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊炉焊接的时候温度控制在 $260 \pm 5^{\circ}\text{C}$,过炉时间 3 ± 0.5 秒. 手焊接的时候温度控制在 $360^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 时间为 3 ± 0.5 秒.	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.



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8.3	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 85±2℃ FOR 96 HOURS.THEN THE SWITCH SHALLBE MAINTAINED AT STANDARD ATMOSPHERICCONDITION FOR 1 HOUR AFTER WHICHMEASUREMENT SHALL BE MADE. 放置在温度85±2℃中测试96小时后,再放置正常室温中1小时来测定.		THERE SHALL BE NO DEFORMATION OR CRACKSINMOLDED PART 外观无异常,满足于机械,电器性能.
8.4	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -20±3℃ FOR 96 HOURS,THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度-20±3℃中96小时后,再放置常温中1小时来进行测试.		
8.5	HUMIDITY TEST 潮湿试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2℃ AND A HUMIDITY OF 90%TO95% FOR 96 HOURS.THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERE CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置40±2℃试验的相对湿度为90%-95%环境中96小时后,再将样板放在正常环境1小时后进行测试.		