

APPROVAL SPECIFICATIONS

Title. TACT SWITCH _____

Product Model. KAN0446-0181B-14 _____

Customer's Part NO. _____

Customer's Model: _____

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: _____ Date: _____

Approved by: _____ Date: _____

APPROVE	REVIEW	POLT
Jack Wu	孙斌	徐明娥

Shenzhen Gangyuan Microkey Technology Co.,ltd

深圳市港源实业发展有限公司 Shenzhen Gangyuan Industry Development Co.,Ltd		DOCUMENT NUMBER 文件编号	
		DATE 日期	2007年08月16日
SPECIFICATION 规格书		PAGE 页数	共 3 页 第 1 页
MODEL NO. 产品名称: 轻触开关			
ORGANIZER 编制		AUDITING 审核	AUTHORIZE 批准
1. RATING (额定值)		:DC 12V 0.5A	
2. ELECTRICAL CHARACTERISTICS (电气性能规格):			
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
2.1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT (100 mA OR LESS) 在微小电流 (100mA) 以下测试。	50 mΩ MAX 50毫欧以下。
2.2	INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 100V 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100V DC 电压1分钟, 按以下接触方法测试: (1) 接触端子之间 (2) 胶座与排脚之间	100MΩ MIN 100兆欧以上
2.3	DIELECTRIC STRENGTH 耐电压	DC 250V (50-60Hz) FOR 1 MIN TRIP CURRENT: 0.5mA (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入 DC 250V (50-60Hz) 电压, 1分钟电流为0.5mA, 按以下接触方式测试 (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。
3. MECHANICAL CHARACTERISTICS (机械性能规格)			
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.1	OPERATING FORCE 操作力		PAY ONE'S RESPECTS TO THIRDLU PAGE 参见第三页
3.2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 400gf SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN IN ANY DIRECTION 在任意一个方向的先端加上 400gf 力度测试, 时间1分钟。	ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF ACTUATOR 端子没有裂开、松动等异常, 满足机械、电性能要求
3.3	PRACTICAL TEMPERATURE RANGE 使用温度范围	-16°C~+60°C 在-16°C~+60°C 温度内使用	

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	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.4	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°C TO 35°C (2) RELATIVE HUMIDITY: 45% TO 85% (3) AIR PRESSURE : 80Kpa 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°C~35°C (2) 湿度为45%~85% (3) 气压为80Kpa~106Kpa	
4. DURABILITY(耐久性):			
4.1	LIFE TEST 寿命试验	WITHOUT LOAD: AN ACTUATOR SHALL BE SUBJECT TO 50,000 CYCLES AT A SPEED OF 20 CYCLES FOR 1 MIN. 无负荷: 操作者以每分钟20次的频率作50,000回无负荷测试	(1) CONTACT RESISTANCE SHALL BE 200mΩ MAX (2) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1) 接触电阻不能超过200mΩ (2) 其它因满足机械、电性能要求
4.2	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 85±2°C FOR 96 HOURS . AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度85°C中测试96小时后,再放置正常室温中1小时后测定	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 外观无异常,满足机械、电性能要求
4.3	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -20±3°C FOR 96 HOURS 。 AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVER CONDITIONS FOR 1 HOURS AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度-20±3°C中96小时,再放置常温中1小时后测定。	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常,满足机械、电性能要求
4.4	HOMIDITY TEST 潮湿试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2°C AND A HUMIFITY OF 90% TO 96% FOR 96 HOURS . THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HR FOR OTHER PROCEDURES BE MADE. 放置40±2°C相对湿度为90~96%环境中96小时后,再放置常温中1小时后测定。	外观无异常,满足机械、电性能要求

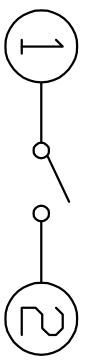
深圳市港源实业发展有限公司 Shenzhen Gangyuan Industry Development Co.,Ltd	DOCUMENT NUMBER 文件编号	
	DATE 日期	2007年08月16日
SPECIFICATION 规格书	PAGE 页数	共 3 页 第 3 页

ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.5 SOLDERING CONDITIONS 焊锡条件	<p>HAND SOLDERING: (1) DEVICE: SOLDER IRON A. 350°C MAX . 3SEC MAX B. 270°C MAX . 5SEC MAX (2) REFLOW SOLDERING 手焊 (1) 工具: 烙铁 A. 350°C MAX . 3SEC MAX B. 270°C MAX . 5SEC MAX (2) 回流焊</p>	<p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常, 满足机械、电性能要求</p>

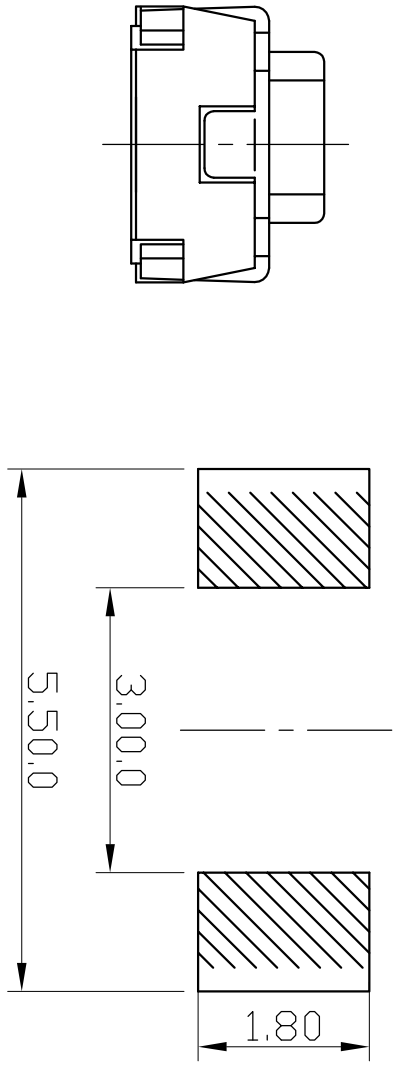
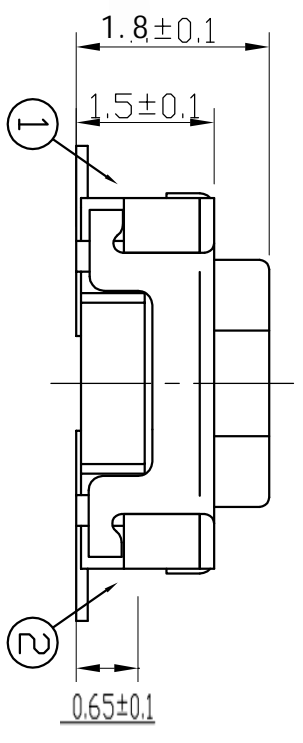
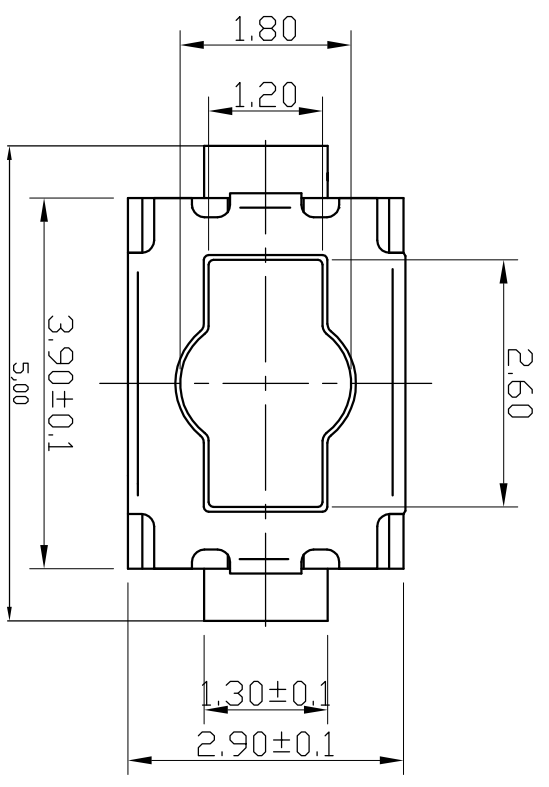
OPERATING FORCE 操作力	
100 ± 50gf	
180 ± 30gf	/
260 ± 50gf	
350 ± 50gf	

E	Dust proof membrane	1	TI	Yellow
D	Contact	2	STS 301	Ag plating
C	Cover	1	Brass	White
B	Case	1	FR52	White
A	Knob	1	FR52	FR52
NO.	Name	QTY	Material	Finished

SCHMATIC



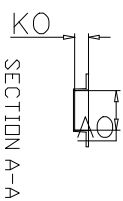
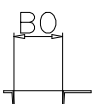
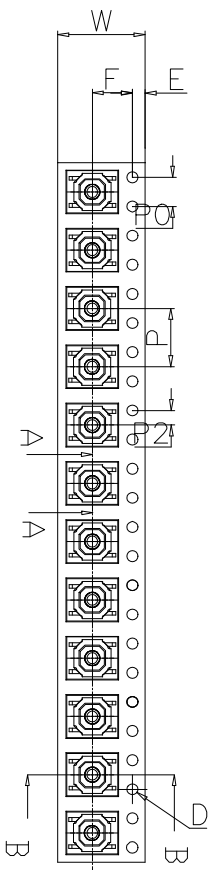
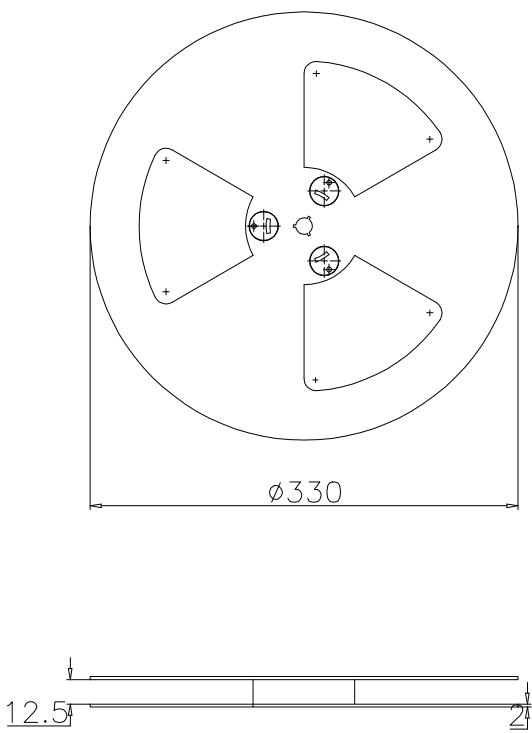
Recommended P. C. B. Layout



- 技术要求
- ELECTRICAL CHARACTERISTICS(电气性能):
 - Rating(额定值): DC12V 0.5A
 - Travel(行程): 0.25±0.1mm
 - Contact Resistance(接触电阻): 100mΩ Max
 - Life(寿命): 50,000 Cycles MIN(大于50,000次)
 - ELECTRICAL temperature rang(使用温度范围): -16° C~+60° C

单位	mm	一般公差		深圳市港源实业发展有限公司	
制图	DRAW	L<4 ±0.2	63<L≤250 ±0.5	Shenzhen Gangyuan Industry Development Co., Ltd	
设计	DESIGN	4<L≤16 ±0.3	250<L ±0.7	轻触开关	
审核	CHECKED	16<L≤63 ±0.4	※按GB/T19001-2008/ISO9001:2008	KAN0446-0181B-14	
标准化	STANDARD	MATERIAL	名称	Model No.	张数
重量	WT.	重量	料号	Part No.	SHEET
表面积	SA	表面积	视图	PROJ.	第1页, 共1页
修改	REVISE	批准	批准	日期	比例
批准	APPROVE	日期	批准	APPROVE	SCALE
ECON 编号/变更内容	ECON NO./DEFINITION	修改	批准	日期	版本
MARK		REVISION	APPROVE	DATE	REV.
1	2	3	6	7	8

ITRM	W	A \square	B \square	K \square	P	F	E	D	P \square	P2	T	13"
DIM	12	5.4	6.8	1.8	8	5.5	1.75	1.5	4	2	0.3	包装数
TOL	± 0.3	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	$^{+0.10}_{-0.00}$	± 0.1	± 0.1	± 0.05	4000PCS



SECTION B-B

SECTION A-A

1. 4000pcs/reel
2. The reel is made up of the front empty 300mm, around the end of the packing plate is about 200-300mm

编带		温州港源电子有限公司	
型号: T10057		KAN0446-0181B1-14	
设计	更改文件号	签字	日期
绘图	会		
批准	审		
日期			
材料	PS	重量	比例
图样标记			
共 1 页		第 1 页	