客户 (Customer):

Customer):	发行编号:
	发行日期:
	发行区分: ■新规 □改定
	规格承认书 SPECIFICATION FOR APPROVAL
产品名称:	轻触开关
贵司型号:	
敝司型号:	6.2*6.2 <b>硅胶包脚</b>

接受印	兹证明	明此份材料已约	圣收到。	
ACKNOWLEDGEMENT	WE ACKNOWLE	OGE RECEIVIN	G THIS DOCUME	ENT .
	MO	NTH / DAY / Y	'EAR	
	DATE;	/ /		
G. MGR	LEADER	CHECKED	SIGNED	
	*			

发行部门: 技术部 TEL: FAX:				
拟制 核对 审核 批准				

地址: TEL: FAX:

品 名 <b>轻触开关</b> 型 号					
<ul> <li>1.General specification 基本说明         <ol> <li>1.1 Scope 范围 This specification covers the requirements for single key switches which have no             key top(TACT SWITCHES:MECHANICAL CONTACT).此规范含盖单推柄和无推柄的轻触开</li></ol></li></ul>					
<ol> <li>Operating Temperature Range 使用温度范围</li> <li>-20 to+70℃(normal humidity, normal press.) 正常湿度,标准压力</li> </ol>					
1.3 Storage Temperature Range 保存温度范围 -40 to+85℃(normal humidity, normal press.)					
<ul> <li>1.4 Test Conditions 测试条件 Tests and measurements shall be made in the following standard conditions unless otherwise</li> <li>specified: 测试和计量按下列标准条件除非特殊说明 Normal temperature (temperature 5 to 35℃) 标准温度 Normal humidity (relative humidity 45 to85%) 正常湿气 Normal pressure (pressure 860 to 1060 mbars) 标准压力 In case any question arises from the judgment made, tests shall be conducted in the following</li> <li>conditions:</li> <li>Temperature (20±2℃) 温度 Relative humidity (65±5%) 相对湿度</li> <li>Pressure (860 to 1060 mbars) 压力</li> </ul>					
2.TYPE OF ACTUATION 动作类型					
<u>Tactile feedback</u> _轻触返回					
<b>3.CONTACT ARRANGEMENT</b> _1 poles_1_throws 接触形式 1 接点1 回路					
(Details of contact arrangement are given in the assembly drawings.) 细接点形式在装配图中					
<b>4.MAXIMUM RATINGS</b> DC <u>12_</u> V <u>50</u> mA 最大额定值 DC <u>1_</u> V <u>10</u> μ A 最小额定值					



品名		轻触开关	型 号		
	al specificatio 已气的性能	on 性能			
Ite	m 项目	Test Condition	on 测试条件		Requirements 要求
6.1.1	Contact Resistance 接触电阻	force to the center of the measurements shall be small-current contact r	Applying static load twice the actuating force to the center of the stem, measurements shall be made with a 1 kHz small-current contact resistance meter. 用两倍的动作力作静负载施加于按钮的中心,		100m Ω 以下
6.1.2	Insulation Resistance 绝缘电阻	Measurements shall be application of DC <u>250</u> terminals and between terminals and frame fo 与端子之间,端子与外壳. 分钟	/ potential bet individual r one minute.	ween 在端子	100M Ω 以上
6.1.3	Dielectric withstandin g voltage 电气耐压	AC <u>250</u> V (50Hz or60) between terminals and terminals and frame fo 子与端子之间,端子与外 AC250V(50HZ-60HZ)	between indiv r one minute.	vidual	There shall be no breakdown. 无击穿、闪烁现象
6.1.4	Bounce 抖动	Lightly striking the cer rate encountered in r operations per sec), Bounce shall be tester "OFF". 在正常使用中(以每秒 3- 柄中心加力,在通与断瞬 Switch	hormal use (3 ed when "ON 4 次周期)轻轻 间测试抖动	3 to 4	10mS 以下

6.2 机械的性能					
It	em 项目	Test Condition	n测试条件	Requirements 要求	
6.2.1	Actuating Force 动作力	Place the switch such tha switch operation is vertic gradually increase the lo center of the stem, the m required for the stem to o shall be measured.开关的 置开关向推柄中心逐渐地 停止时所测量的最大负荷	cal and then ad applied to the naximum load come to a stop 可动作方向为垂直放	<u>250</u> ± 40 gf	
6.2.2	Travel 行程	Place the switch such tha switch operation is vertion a static load twice the act the center of the stem, the for the stem to come to a measured. 开关的动作方 并以双倍动作力的静负荷 推柄从开始到停止的行程.	cal and then apply tuating force to the travel distance the stop shall be 向为垂直放置开关, 作用推柄中心,测量	<u>0.40</u> ± <u>0.20</u> mm	
6.2.3	Return Force 返回力	The sample switch is i the direction of swi vertical and, upon depro- in its center the whole t force of the stem to position shall be measur 向为垂直放置开关,在已有 上减小压力,推柄回到自由 力	tch operation is ession of the stem ravel distance, the return to its free red. 开关的动作方 行程的推柄中心向	<u>50</u> gf min	
6.2.4	Static Strength 静止强度	Placing the switch such of switch operation is ve load of <u>3</u> kgf shall be a direction of stem operati <u>60</u> seconds. 开关的动作 关,在推柄动作方向施加 31 时间	ertical, a static applied in the on for a period of_ 方向为垂直放置开	There shall be no sign of damage mechanically and electrically. 无机械的和电气的损伤 迹象	

品 名 <b>轻触开关</b>		轻触开关	型 号	
6.3	使用耐久性能	<u>لا</u>		
It	em 项目	Test Condition	on 测试条件	Requirements 要求
6.3.1	Operating Life 动作寿命	Measurements shall be the test set forth below 命试验 (1)DC 5V 5mA resistiv 5mA 阻性负载 (2)Rate of operation:2 second 动作频率:2-3 次 (3)Action: <u>1.5 倍</u> (4)Cycles of operation 动作次数: 10×10 <sup>4</sup> 次	:按下列条件进行 ve load. DC 5 to 3 operations (/每秒 动作力 : 10×10 <sup>4</sup> cyc	F寿m ΩMax. 接触电阻Insulation resistance :V $50$ M Ω Min. 绝缘电阻Actuating force: 动作per $D + 30$ % or $30\%$ ofinitial force. ± 30% 初始动作力
6.3.2	Moisture Resistance 耐潮湿	Following the test set f sample shall be left in and humidity condition before measurements a 列条件进行耐潮湿试验, 湿度条件下放置1小时) (1) Temperature: 60: (2) Relative humidity: (3) Time: 96 hours Water drops shall be reference	normal tempera hs for one hour ire made: 样品打 试验后在正常温 后测定 ±2℃ 温度 90 to 95%相对 时间	$m \Omega$ Max. 接触电阻 Insulation resistance : 度和 <u>50 M Ω</u> Min. 绝缘电 阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.3	Low Temperature Resistance 耐低温	Water drops shall be left         Following the test set f         sample shall be left in         and humidity condition         before measurements a         样品按下列条件进行耐信         常温度和湿度条件下放置         (1)Temperature: -40:         (2)Time: 96 hours         Water drops shall be reference	Forth below the normal temperans for one hour are made: 低温试验,试验后 置1小时后测定 ±2℃ 温 时间	ture Contact resistance: $200$ m $\Omega$ Max. 接触电阻 Insulation resistance :: 在正 <u>50 M <math>\Omega</math> Min. 绝缘电</u> 阻 Item 6.1.3 $\$ 6.1.4 Item 6. 2.1~6.2.3
6.3.4	Heat Resistance 耐热	Following the test set f sample shall be left in and humidity condition before measurements a 列条件进行耐热试验,试 度条件下放置 1 小时后刻 (1)Temperature: 85 ± (2)Time: 96 hours 时	forth below the normal temperations for one hour the normal temperature made: 样品打 验后在正常温度: 则定 $=2^{\circ}$ 温 度	ture Contact resistance: 200 m $\Omega$ Max. 接触电阻 Insulation resistance 安下 <u>50</u> M $\Omega$ Min. 绝缘电

品 名	品 名 轻触开关		型 号		
It	tem 项目	Test Condition	on 测试条件		Requirements 要求
6.3.5	Change of Temperature 温度循环	Following ten cycles of test .The Sample shall Normal temperature an Conditions for one hou measurements are made water drops shall be ree 样品按下列条件进行 试验后在正常温度和 小时后测定 温度(℃)	be Placed in nd humidity ar before le. During this moved. 高低温循环i 温度条件下放 A: +85 B: -40 C: 2 / D: 1 / E: 2 / F: 1 /	s test, 式验, 1 ±2℃ 小时 小时 小时	Contact resistance: 200 mΩ Max. 接触电阻 Insulation resistance : 50 MΩ Min. 绝缘电 阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.6	Vibration Resistance 耐振动	Measurements shall be the test set forth below 振动试验 (1)Range of oscillation: (2)Amplitude,pk-to-pk 振幅:峰-峰 1.5mm (3)Cycle of sweep: 10- minute, approx. 扫描周期: 10-55-10Hz (4)Mode of sweep: Lo or uniform sweep. 扫描方式:对数扫描: (5)Direction of oscillar Three mutually perpending the direction 相互垂直方向,包括捎 (6)2 hours each ,for a to 向 2 小时.共 6 小时	<ul> <li>按下列条件:</li> <li>10 to 55Hz 频</li> <li>10 to 55Hz 频</li> <li>1.5 mm</li> <li>-55-10Hz in c</li> <li>-55-10Hz in c</li> <li>-30一分钟内</li> <li>garithmically</li> <li>式恒定扫描</li> <li>tion: 振动方向</li> <li>adicular direct</li> <li>of stem trave</li> <li>5柄行程方向</li> </ul>	进行抗 i率范围 one sweep J cions, el. 3 个	Item 6.1 Item 6. 2.1、6.2.2

品 名		轻触开关	型 号		
Ite	em 项目	Test Conditio	n 测试条件		<b>Requirements</b> 要求
6.3.7	Impact Shock Resistance 抗冲击	Measurements shall be made following the test set forth below: 按下列条件进行冲击试 验 (1)Acceleration:80g 加速度 (2)Cycles of test :3 cycles each in 6directions, for a total of 18cycles 试验次数:每个 方向 3 次,6 个方向共 18 次		Item 6.1 Item 6. 2.1 56.2.2	
7. 焊接	条件:	1			>
Ite	em 项目	Recomm	nended con	ditions	推荐条件
7.1	Hand soldering 手工焊接	Please practice accordin (1)Soldering temperatur (2)Continuous soldering (3)Capacity of soldering 请按以下条件进行焊接 (2)连续焊接时间: 《5	e :≤260℃ g time:≤5 S g iron:≤20 W 铥: (1)焊	7 湯温度:	≪260°C
7.2	Automatic flow soldering 自动焊接	(2)连续焊接时间: ≤5 S (3)电铬铁的功率: ≤20 W For the product of SMT, type solder according to the following conditions 对于 SMT 产品,请按以下条件进行焊接 surface of product temperature **********************************			ording to the following 进行焊接 -260℃ max. 35ec max. peak temperature -time 时间(秒) -time 时间(秒) temperature on the PWB e are cases where PWB 's surface temperature etc. The switch's surface C 注意: 以上提及的条件 、尺寸、厚度等不同, PWB

品名	轻触开关		型 号	
8. Other	precautions 其他注:	意事项 <b>:</b>		
进行 (2) Saf 防」 (3) Plea afte	行焊接过程中,不可以 eguard the switch asser 止助焊剂从开关的顶站	人用溶剂或类 nbly against f 高渗入 eep in close s at most.	似品清洗开 lux penetratio tatus and the	on from its topside. storage time is 90 days guaranty
9.REEL	PACKAGING 盘装	۲. ۲		
typ	e of tact switches. 该 ckaging Materials 封約	规范包含 SM 裝材料	IT 标准型拨	reel packaging for SMT standard 动开关的绕带封装的要求
-	Item 项目	Description	说明	
-	Package 包装	Cartons	卡通箱	
_	Reel 转轴	Delete Carto	ons 可降解箱	
	Carrier Tape 载带	Polypropyle	ne 聚丙烯	
9.3 9.3	ckaging Quantity 封装 .1 The number of the re Thirty(30) reels at m Shall be packed in a .2 The number of the sw 1.5K pcs switches sh .3 It should be noted th 对出口包装需注意月 mentioned above as	tels. 转轴 aximum. Whi package. 一線 witches. 产品 all be packed at we regard t 月两个箱子包	ich contain 45 箱装 30 盘, 品数量 in a reel. 一 wo cartons 装	-

