

## 三佐部品【中国】股份有限公司 SAMZO PARTS [CHINA] CO.,LTD

# 承 認 書

#### APPROVE SHEET

客户名称				
CUSTOMER:				
贵司制品名 本公司制品名 TACT SWITCH PRODUCT PN: TACT SWITCH				
贵公司规格 本公司规格 本公司规格 T6A25-XXX4B21 PRODUCT CODE:				
客户料号 CUSTOMER NO:	本公司共 PRODUCT	见格书编号 DRAWING NO:2011	101401	
新品承认 NEW APPROVE	批准 APPROVAL	审核 CHECK	设计 DESIGN	
规格书变更承认 CHANGE CODE APPROVE AGAIN	批准李先缘	<u>审核</u> 周颖鑫	设计颜明玉	
材料变更承认 CHANGE MATERIAL APPROVE AGAIN	DATE:	DATE:	DATE:	
贵公司承认栏 APPROVAL SIGNATURE				
印章				
请于年月日前承认返回我司 日期 DATE: PLEASE RETURN TO US AFTER CONFIRMED! THANK YOU!				

### 深圳市三佐部品电子有限公司

Shenzhen City Samzo Parts Electronics Co., Ltd.

世界零部件制造商

- -SAMZO- -

IS09001 IS014001 认证企业

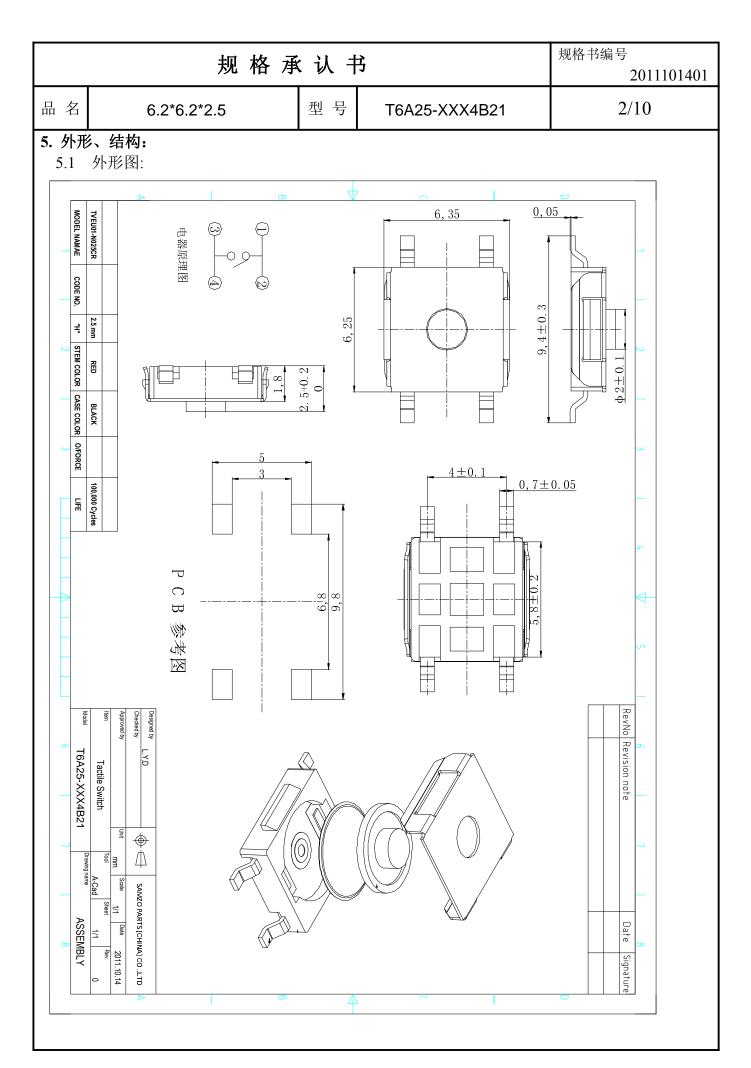
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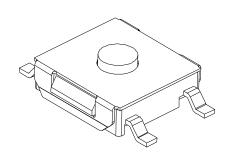
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	规 格 承	议认丰	<b>3</b>		规格书编号 2011101401
品名	6.2*6.2*2.5	型号	Т6,	A25-XXX4B21	1/10
1. Gen	neral Specification 基本说明	]			
	Scope 范围 This specification Key top(TACT SWITCHES:MECH		-	•	
1.2	Operating Temperature Range ↑ -20 to+70°C (normal			press.) 正常湿度,标	示准压力
1.3	Storage Temperature Range 保存 -40 to+85℃(normal			press.)	
	Test Conditions 测试条件 Tests and measurements shall be specified: 测试和计量按下列标准 Normal temperature (tempera Normal humidity (relative hum Normal pressure (pressure 86) In case any question arises from conditions:	条件除非ture 5 to 3 midity 45 0 to 1060 the judgn	持殊说明 55℃) to85%) mbars)	标准温度 正常湿气 标准压力 de, tests shall be condu	
	Relative humidity (65	±5%) 0 to 1060	mbars)	温度 相对湿度 压力	
2. Typ	e Of Actuation 动作类型				
	Tactile	feedback	轻触步	[日	
3. Con	ntact Arrangement 1 pole	es <u>1</u> th	rows 🕏	接触形式 1接点1回距	各
	(Details o	f contact a		ment are given in the a 点形式在装配图中	ssembly drawings.)
4. Max	ximum Ratings DC 12	_V	<u>50</u> m	A 最大额定值	
	DC1_	V	<u>10</u> μ	A 最小额定值	



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5.2 构造:



序号	零部件名称	数量	材料名称	表面处理	备注
1	BASE	1	PA6T		
2	TERMINAL	1	BRASS	Ag plating	
3	CONTACT	1	SUS 301	Ag plating	
4	COVER	1	SUS 301		
5	STEM	1	PA6T		
6					
7					

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## 6. General Specification 性能

#### 6.1 电气的性能

6.1 电气的性能					
It	tem 项目	Test Condition 测试条件	Requirements 要求		
6.1.1	Contact Resistance 接触电阻	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,并用 1 千赫小电流接触电阻仪测量	100mΩ以下		
6.1.2	Insulation Resistance 绝缘电阻	Measurements shall be made following application of DC <u>100</u> V potential between terminals and between individual terminals and frame for one minute.在端子与端子之间,端子与外壳之间施加 DC100V,一分钟	100MΩ以上		
6.1.3	Dielectric withstanding voltage 电气耐压	AC <u>250</u> V (50Hz or60Hz) shall be applied between terminals and between individual terminals and frame for one minute. 在端子与端子之间,端子与外壳之间施加 AC250V(50HZ-60HZ)	There shall be no breakdown. 无击穿、闪烁现象		
6.1.4	Bounce 抖动	Lightly striking the center of the stem at a rate encountered in normal use ( 3 to 4 operations per sec),  Bounce shall be tested when "ON" and "OFF".  在正常使用中(以每秒 3-4 次周期)轻轻地在手柄中心加力,在通与断瞬间测试抖动  Switch  Oscillograph 示波器  t 为触点抖动时间	10mS以下		

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## TU 부라 44 1차 4k

	机械的性能 [tem 项目	Test Condition 测试条件	Requirements 要求
6.2.1	Actuating Force 动作力	Place the switch such that the direction of switch operation is vertical and then gradually increase the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured.开关的动作方向为垂直放置开关向推柄中心逐渐地增加负荷直到推柄停止时所测量的最大负荷	
6.2.2	Travel 行程	Place the switch such that the direction of switch operation is vertical and then apply a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to a stop shall be measured. 开关的动作方向为垂直放置开关,并以双倍动作力的静负荷作用推柄中心,测量推柄从开始到停止的行程距离	<u>0.25</u> ± <u>0.10</u> mm
6.2.3	Return Force 返回力	The sample switch is installed such that the direction of switch operation is vertical and, upon depression of the stem in its center the whole travel distance, the force of the stem to return to its free position shall be measured. 开关的动作方向为垂直放置开关,在已有行程的推柄中心向上减小压力,推柄回到自由位置时所测量到的力	30_ gf min
6.2.4	Static Strength 静止强度	Placing the switch such that the direction of switch operation is vertical, a static load of <u>3</u> kgf shall be applied in the direction of stem operation for a period of <u>60</u> seconds. 开关的动作方向为垂直放置开关,在推柄动作方向施加 3KG的静负荷, 60 秒时间	There shall be no sign of damage mechanically and electrically. 无机械的和电气的损伤迹象

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#### 6.3 使用耐久性能

0.3	使用耐久性能		
It	tem 项目	Test Condition 测试条件	Requirements 要求
6.3.1	Operating Life 动作寿命	Measurements shall be made following the test set forth below: 按下列条件进行寿命试验 (1)DC 5V 5mA resistive load. DC 5V 5mA 阻性负载 (2)Rate of operation: 2 to 3 operations per second 动作频率: 2-3 次/每秒 (3)Depression:375_ gf 减压力 (4)Cycles of operation: 30×10 <sup>4</sup> cycles 动作次数: 30×10 <sup>4</sup> *	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Actuating force: 动作力+30 %or-30%of initial force. ±30%初始动作力 Item 6.1.3 Item 6.2.2
6.3.2	Moisture Resistance 耐潮湿	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐潮湿试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1) Temperature: 60±2℃ 温度 (2) Relative humidity: 90 to 95% 相对湿度 (3) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω 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	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐低温试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1)Temperature: -40±2°C 温度 (2) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 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 forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐热试验,试验后在正常温度和湿度条件下放置 1 小时后测定(1)Temperature: 85±2℃ 温度(2) Time: 96 hours 时间	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3

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Item 项目		Test Condition 测试条件	Requirements 要求
6.3.5	Change of Temperature 温度循环	Following ten cycles of high temperature test .The Sample shall be Placed in Normal temperature and humidity Conditions for one hour before measurements are made. During this test, water drops shall be removed.  样品按下列条件进行高低温循环试验,试验后在正常温度和温度条件下放置 1 小时后测定  A: +85±2℃ B: -40±2℃ C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时 Cycling: Five cycles 周期: 5次	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.6	Salt Spray Test 盐雾试验	The salt spray test shall be conducted at the following conditions: 样品按下列条件进行盐雾试验 (1)Density(浓度): 溶液(5±1)% Nacl (质量百分比) (2)Temperature: 35±2℃ 温度 (3) Time: 48 hours 时间	金属件无发黄、生锈
6.3.7	Vibration Resistance 耐振动	Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验 (1)Range of oscillation: 10 to 55Hz 频率范围 (2)Amplitude,pk-to-pk:1.5mm 振幅: 峰-峰 1.5mm (3)Cycle of sweep: 10-55-10Hz in one minute, approx.扫描周期: 10-55-10Hz 约一分钟内 (4)Mode of sweep: Logarithmically sweep or uniform sweep. 扫描方式: 对数扫描式恒定扫描 (5)Direction of oscillation: 振动方向 Three mutually perpendicular directions, including the direction of stem travel. 3 个相互垂直方向,包括推柄行程方向 (6)2 hours each ,for a total of 6hours.每方向 2 小时.共6 小时	Item 6.1 Item 6. 2.1、6.2.2

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Item 项目		Test Condition 测试条件	Requirements 要求
6.3.8	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、6.2.2

#### 7. 焊接条件:

Item 项目		Recommended conditions 推荐条件		
7.1	Hand Soldering 手工焊接	Please practice according to bellow conditions:  (1)Soldering temperature: ≤260°C  (2)Continuous soldering time: ≤5 S  (3)Capacity of soldering iron: ≤20 W 请按以下条件进行焊接:  (1)焊锡温度: ≤260°C  (2)连续焊接时间: ≤5 S  (3)电铬铁的功率: ≤20 W		
7.2	Automatic Flow Soldering 自动焊接	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 部品表面温度 (°C) 260°C max. 3sec max. peak temperature 180°C 150°C 260°C max. 3sec max. peak temperature 260°C max. 3sec max. peak temperature on the PWB surface on which parts are mounted. There are cases where PWB temperature greatly differs from switch's surface temperature depending on PWB material, size, thickness, etc. The switch's surface temperature shall not allowed to exceed 260°C 注意:以上提及的条件是零部件上PWB表面的温度,由于PWB的材料、尺寸、厚度等不同,PWB从开关表面蒸度超过 260°C		

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#### 8. Other Precautions 其他注意事项:

- (1) Following the soldering process, do not try to clean the switch with a solvent or the like. 进行焊接过程中,不可以用溶剂或类似品清洗开关
- (2) Safeguard the switch assembly against flux penetration from its topside. 防止助焊剂从开关的顶端渗入
- (3) Please have the products keep in close status and the storage time is 90 days guaranty after delivering the goods at most.

交货后保证开关处于封密状态并库存时间90天以下

#### 9.Reel Packaging 盘装

#### 9.1 Scope 范围

This specification covers the requirements of the reel packaging for SMT standard type of tact switches. 该规范包含 SMT 标准型拨动开关的绕带封装的要求

#### 9.2 Packaging Materials 封装材料

Item	项目	Description 说明
Package	包 装	Cartons 卡通箱
Reel	转 轴	Delete Cartons 可降解箱
Carrier Tape	载 带	Polypropylene 聚丙烯

#### 9.3 Packaging Quantity 封装数量

- 9.3.1 The number of the reels. 转轴数量
  Twenty (20) reels at maximum. Which contain 60K pcs switches
  Shall be packed in a package. 一箱装 20 盘,有 30K 只产品
- 9.3.2 The number of the switches. 产品数量 1.5K pcs switches shall be packed in a reel. 一个转轴包 1.5K 只产品
- 9.3.3 It should be noted that we regard two cartons 对出口包装需注意用两个箱子包装 mentioned above as on package for export.