APPROVAL SPECIFICATIONS

Title. TACT SWITCH

Product Model. TS-1087S

Customer's Part NO.

Customer's Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by:

Approved by: Date:

APPROVEREVIEWPOLT王凱李成功許志明

Date:

XUNPU ELECTRONICS CO.,LTD





force Code	Operating Spec	Press force(N)	Return force	
16	1.6	1.6±0.5	0.4min	
26	2.6	2.6±0.5	0.4min	

Examples: "TS-1087S-01516" denotes the ta ct switch with 5.2×5.2 base, the height is 1.5mm, the stem is black , the operating force is 1.6N.

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CUSTOMER	CUSTOMER	'S P/N GY	E'S P/N	PRODUCT	REVISION				
		TS-7	1087S	TACT SWITCH					
此规格书适用 This specific 1.3 工作温度范 Operating Te -20℃~70℃ 1.4 贮藏温度范 Storage Tem -30℃~80℃ -30℃~80℃ 1.5 测试条件	GENERAL 1.2 适用范围 APPLICATION 此规格书适用于机械式轻触开关的相关要求 This specification is applied to the requirements for TACTILE SWITCH (MECHANICAL CONTACT) 1.3 工作温度范围 Operating Temperature Range -20℃~70℃(在标准大气压、标准湿度条件下) -20℃~70℃(Normal humidity, normal air pressure) 1.4 贮藏温度范围 Storage Temperature Range -30℃~80℃(在标准大气压、标准湿度条件下) -30℃~80℃(Normal humidity, normal air pressure) 1.5 测试条件								
在没有其它来 Unless other 常温 Normal temp 标准湿度 Normal humi 标准大气压 Normal air pu 在制造过程中	Test Conditions 在没有其它特定的条件下,应该在以下的条件下进行测试和测量: Unless otherwise specified, tests and measurement shall be made in the following standard conditions: 常温								
If any doubt arise from the judgment, tests shall be conducted at the following conditions: 温度20℃±2℃ Temperature20℃±2℃ 相对湿度65%±5% Relative humidity65%±5% 环境气压86KPa~106Kpa Airpressure86KPa~106Kpa									
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CUSTOMER	CUSTOMER'S P/I	N GYE'S P/N	PRODUCT	REVISION		
		TS-1087S				
2、 详细说明	I		L			
Detailed spec 2.1 外观:应无影	sification 影响、降低产品性能的缺陷;					
	There should be no defects 安装尺寸:应符合装配图要:	s that affect the serviceability 求;	of product.			
Style and dim 2.3 操作形式: ィ	nension: shall conform to th 有触觉反应的操作	e assemble drawings.				
• •	iting: Tactile feedback. 单回路单输出(具体的触点绰	;构在装配图中已绘出);				
Contact arran	igement: 1 pole, 1 throw					
	ntact arrangement are give 定值:DC 12V,50mA(有效(n in the assembly drawings. 直)				
Ratings: 12V 3. 电气性能:	DC, 50mA (effective value)				
ELECTRICAL SPI	ECIFICATION					
项目		试验条件		要求		
ITEM		TEST CONDITIO	TEST CONDITIONS			
		、5V 10mA 的直流电源或不低 1,以一个等于2倍按力的静力				
-	接触电阻 App	lying a static load of 2 time	s operating force to			

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3	3 介质耐压 3 Dielectric voltage proof		在端子之间施加 2 250V AC (50HZ o terminals, for one	,	无击穿、无飞弧 There should be no breakdown and flashover				
2	l Ir	绝缘电阻 nsulation Resistance	子之间底座、盖板的电 Measurement sha 100V DC potential,	在端子之间施加 DC 100V /1min 的条件下,测量端 子之间底座、盖板的电阻值 Measurement shall be made following application of 100V DC potential, across terminals, and across terminals and cover, for one minute.					
1		接触电阻 act Resistance	在以 5V 10mA 的I 的电路中,以一个等于 Applying a static the center of the stem 5V DC 10mA or mo contact resistance met	$\leqslant 100 \text{m}\Omega$					

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С	USTOMER	CUSTOMER'	S P/N	GYE'	S P/N	Р	RODUCT		REVISION
				TS-10	87S	TA	CT SWITCH		
	项目 ITEM			试验条 ST COND		I		RE	要求 QUIREMENTS
	械性能: IANICAL SPE	ECIFICATION							
1	按力 Operating Force	开关垂直于操作 量开关导通所需 Placing the sw vertical and th center of the s come to a stop	高的最大力度 vitch such t nen gradua tem, the m	€。 hat the d lly increa aximum l	irection of s asing the lo	witch op ad appl	peration is ied to the	re	efer to chart 3
2	最大行程 Full Trave	开关驱动件顶端 Placing the sw vertical and the the center of th	F操作方向放置,以一个等于 2 倍按力的静负荷施加在 [‡] 顶端中心,测量顶端移动的距离。 e switch such that the direction of switch operation is d then applying static load of 2times operating force to of the stem; the travel distance for the switch to come shall be measured.						0.25±0.1mm
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С	USTOMER	CUSTOMER'S	S P/N GYE'	S P/N	PRODUCT		REVISION	
			TS-1	1087S	TACT SWIT	СН		
	项目 ITEM		试验条 TEST CONE			RE	要求 QUIREMENTS	
3	回弹力 Return Force	后,测量顶端向 The sample sw operation is ver to the whole tra	F方向放置,在开关 自由位置转换的力度 vitch is installed su rtical and upon dep avel distance, the fo all be measured.	n re r	efer to chart 3			
4	停止强度 Stop Strengt	荷持续 1min。 Placing the swi vertical, and th	开关垂直于操作方向放置,从操作方向向驱动件施加 30N 的静负 荷持续 1min。 Placing the switch such that the direction of switch operation is vertical, and then a static load of 30N shall be applied in the direction of stem operation for a period of 1 min.					
5	手柄拔出强度 Stem Strength	的行程范围。 Placing the swi vertical, and the	F方向放置,反方向 itch such that the c en the maximum fo direction of stem op	6	20N.min.			
6	可焊性 Solderabilit <u>y</u>	 (1) 焊接温度:24 Solder tem (2) 浸入时间:2s Immersion 对于其它步 	shall be made follo 45±5℃ perature : 245±5℃	90%以_ Except coating minimu	for the edge, the should cover a			
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с	USTOMER	CUSTOMER'	S P/N	GYE'S P/N		PROE	DUCT		REVISION
			TS-1087S TACT SWIT						
	项目			试验条件		1		I	要求
	ITEM			TEST CONDITIO	NS			RE	QUIREMENTS
	限电气性能: RONMENTAL SF	PECIFICATION							
1	 低温测试 低温测试 Resistance to low temperature I 加爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾爾					Contac ≤200m 项目 3			
2	高温测试 Heat resistance	标准湿度的: forth below humidity con (1) 温度 (2) 时间	(1) 温度: 80±2℃ ≤200mΩ temperature:80±2℃ 项目 3,4.1,4.2,4.3						ct resistance: Ω 4.1,4.2,4.3
3	3 根据下面的测试要求进行 5 次循环的温度周期性测试,实验后样晶应放在常温及标准湿度的环境中 1 小时后做性能测试。测试期间样晶应保持干燥. 3 After 5 cycles of following conditions, the sample shall be allowed to stand under normal temperature and humidity conditions for 1 h. and measurements shall be made. During the test water drops shall be removed. 3 温度周期性测试 Change of temperature 1 10±2℃ 2(hour) 1 65±2℃ 1 65~-10℃ 1					式。测 nall be umidity	Contac ≤200m 项目 3,		
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С	USTOMER	CUSTOMER'S P/N	GYE'	S P/N	PRODUCT		REVISION
			TS-1	1087S	TACT SWITC	сн	
	项目 ITEM		试 验 TEST CON			RE	要求 QUIREMENTS
4	湿温测试 Moisture resistance	(2) 相对湿度:	中1小时后做性 ample shall be ns for1h befor ±2℃ re: 60±2℃ 90%~95% imidity:90% to h	接触电 Contac ≤200m 项目 3,4			
5	硫化试验 Sulfuration resistance	标准湿度的环境中 forth below the s humidity condition (1) H2S 气体 H ₂ S gas c (2) 时间: 72 Time: 72h (3) 温度: 405	H ₂ S gas concentration: 3ppm±1ppm				
6	盐雾试验 Salt Mist						上没有腐蚀斑点 No remarkable on shall be zed in metal part.
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C	USTOMER	CUSTOMER'S P/N	CUSTOMER'S P/N GYE'S P/N PRODUCT			REVISION	
			TS-1087S	TACT SWITC	н		
	限机械性能:		1	1			
E		PECIFICATION				표구	
	项目		试验条件			要求	
	ITEM	相根工品的测出面子	TEST CONDITIONS		REG	UIREMENTS	
1	工作寿命 Operation lif	Measurement shall (1) DC 12V, 50 DC 12V, 50 (2) 按动速率: 1 Rate of ope (3) 按力: 按力 Operating For (4) 平均无故障:	DC 12V, 50 mA resistive load (2) 按动速率: 1 次/秒 Rate of operation: 1times/s (3) 按力: 按力的 1.5 倍 Operating Force: Operating Force1.5double (4) 平均无故障寿命: Average fault-free life 16 1.6 100000 次				
2	振动Vibration	Measurement shall (1) 振动频率范 Vibration f (2) 振幅(峰一 Amplitude: 。 无动方向: Direction o direction in ④ 测试时间:	 Vibration frequency range: 10 to 55 to 10Hz 振幅(峰一峰): 1.5mm Amplitude: 1.5mm 振动方向:包括手柄行程方向在内的三个相互垂直的方向 Direction of vibration:Three mutually perpendicular direction including the direction of stem travel 				
•	└接条件: DERINGCONDI□	TIONS					
JULL			件进行焊接:				
			(1) 焊锡温度: ≤350℃				
7.1	手工焊接		(2) 连续焊接时间: ≤3 s				
	Hand solderir	ng Please pra	etice according to below	conditions:			
		(1) Solderi	ng temperature: 350℃ uous soldering time: 3 s l				

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CI	USTOMER	CUSTOMER'	S P/N	GYE'	3 P/N	Р	RODUCT	REVISION	
				TS-1087S T		TAC	CT SWITCH		
	自动浸焊	项	目 Items			条	件 Condition		
	Conditions	for 助焊剂	可附着量	7	下附着于零部	3件贴装i	面的程度		
	Auto-dip			N	lounting sur	face sho	ould not be coate	d with flax	
		预热	温度				周围温度 100℃ m		
		Preheating	g temperature		mbient temµ 00℃ max.	perature	of the soldered s	urface of PC board.	
7.2			且度时间				60s max.		
		Prehe 焊接温	ating time]度						
			ring temperat	ture			260℃ max.		
							-		
		Continuou	s dipping time	e	5s max.				
		焊接沙	マ数	2 次以下					
		Numbe	r of soldering			20	2times max.		
	 / #接说明: 千天浸焊后,注意不要用溶剂清洗。 After switches were soldered,please be careful not to clean switches with solvent. 1.1 在使用烙铁的情况下,焊锡温度应在 350℃以下、3 秒以内。 In the case of using solding iron, solding conditions shall be 350℃ max and 3 sec.max. 1.2 浸焊后,注意不要在顶部施加负荷。 Right after switches were soidered;please be careful not to load to on the knobs of switches. 2. 设计中应注意的事项(Design instructions) 2.1 印刷基板的安装孔尺寸多见产品图。 Follow recommended P.W.B. piercing plan in outside drawing page. 1 注意不要施加超负荷的压力或晃动开关。 Please be careful not to give excessive static load or shock to swiches. 2. 开关浸焊后,印刷基板注意不要叠放。 Please be careful not to pile up P.W.B.after switches were soldered. 3.3 保管时尤其应注意避开高湿高温和有腐蚀性气体的环境。如需要长时间保存,请不要打开包装箱。 Preservation under high temperature and high high humidity or corrosive gas should be avoided Especially. When you need to preserve for a long period ,do not open the carton. 								
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