CUSTOMER	CUSTOMER'S P.	/N P/N	PRODUCT	REVISION
		YZA-055	TACT SWITC	H A1
		0,55±0,1	① (3) 原理	2 1 4
	4,5	2,7 0,5	5	
General to	olerance: ±0.2mm	MATERIAL		FINISHING
4	Waterproof membrane	PI		Yellow
3	CONTACT	SUS301		Silver plating
2	CASE	LCP		Black
	TERMINAL	phosphorous bro		Silver plating

CHECKED BY

APPROVE BY

深圳市逸致电子有限公司 Shenzhen Yizhi Electronics Co., LTD



<u>Title.</u>	TACT	SWITCH
Product Model.	YZ	A-055
Customer's Par	t NO.	

|--|

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

APPROVE	REVIEW	POLT
张正达	李成军	张伟
2017.11.18	2017.11.18	2017.11.18

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		YZA-055	TACT SWITCH	A1

1、 概述

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°C ~70°C (Normal humidity, normal air pressure)
- 1.4 贮藏温度范围

Storage Temperature Range

- -55℃~85℃(在标准大气压、标准湿度条件下)
- -55°C ~85°C (Normal humidity, normal air pressure)
- 1.5 测试条件

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......5℃~35℃

Normal temperature......5°C ~35°C

标准湿度......相对湿度 25%~85%

Normal humidity.....relative humidity 25%~85%

标准大气压......86KPa~106Kpa

Normal air pressure......86Kpa~106Kpa

在制造过程中,测试和测量应该在以下的条件下进行:

If any doubt arise from the judgment, tests shall be conducted at the following conditions:

温度......**20℃±2℃**

Temperature.....20℃±2℃

相对湿度......65%±5%

Relative humidity......65%±5%

环境气压......86KPa~106Kpa

Air pressure......86KPa~106Kpa

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2、 详细说明

Detailed specification

2.1 外观:应无影响、降低产品性能的缺陷;

Appearance: There should be no defects that affect the serviceability of product.

2.2 结构尺寸和安装尺寸:应符合装配图要求;

Style and dimension: shall conform to the assemble drawings.

2.3 操作形式:有触觉反应的操作

Type of actuating: Tactile feedback.

2.4 开关结构: 单回路单输出(具体的触点结构在装配图中已绘出);

Contact arrangement: 1 pole, 1 throw

(Details of contact arrangement are given in the assembly drawings.)

2.5 最大额定值: DC 12V, 50mA (有效值)

Max Ratings: 12V DC, 50mA (effective value)

2.6 最小额定值: DC 1V, 10µA (有效值)

Min Ratings: 1V DC, 10µA (effective value)

3. 电气性能:

ELECTRICAL SPECIFICATION

项	目				要求			
ITI	EΜ		TEST CONDITIONS				JIREMENTS	
			的电路中,以一个等于		加于手柄中心			
1		接触电阻	Applying a static	load of 2 times ope	rating force to		≤100m Ω	
1	Conta	act Resistance	the center of the stem	, measurements sha	all be made by		100lii 52	
			5V DC 10mA or mo	re than 1KHZ AC	small-current			
			contact resistance met	er.				
2		绝缘电阻 Insulation Resistance	在端子之间施加 D 之间底座、盖板的电阻 Measurement sha 100V DC potential, terminals and cover, fo		\geqslant 100M Ω			
3	D	下质耐压 lielectric ltage proof		50V AC(50HZ或60HZ or 60HZ) shall be a minute.		-	击穿、无飞弧 There should be oreakdown and flashover	
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С	USTOMER	CUSTOMER'	S P/N F	P/N	Р	RODUCT	T REVISION		
			YZA-055	CT SWITCH		A1			
	项目		试验条	: 件				要求	
	ITEM		TEST COND	OITIONS			RE	QUIREMENTS	
4	触点抖动 Bounce	在导通和断开点 Lightly striking normal use (3 tested at "ON"	开关 Switch 10KΩ **			msec.max Bmsec.max			
1	械性能: IANICAL SP	ECIFICATION							
1	接力 Operating Force					eration is ed to the		250 ± 50gf	
五 最大行程 开关垂直于操作方向放置,以一个等于 2 倍按力的静负荷施加在 开关驱动件顶端中心,测量顶端移动的距离。 Placing the switch such that the direction of switch operation is vertical and then applying static load of 2times operating force to the center of the stem; the travel distance for the switch to come to a stop shall be measured.).15±0.1mm			
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ALLINOVALORILLI									
С	USTOMER	CUSTOMER'S	P/N F	P/N	PRO	DDUCT		REVISION	
			YZA-055		TACT	SWITCH		A1	
	项目		试 验 条	· 件				要求	
	ITEM		TEST COND	ITIONS			RE	QUIREMENTS	
3	回弹力 Return Force	开关垂直于操作方后,测量顶端向自 The sample swite operation is vertic to the whole trave free position shall	自由位置转换的力度 ch is installed succal and upon dep el distance, the fo		≥50gf				
4	停止强度 Stop Strengt	开关垂直于操作方 荷持续 1min。 Placing the switc vertical, and ther direction of stem	h such that the d n a static load of	ation is	There s	L械和电气损坏 shall be no sign of e mechanically and electrically.			
可焊性 Solder Solder Solder temperature : 240±5℃ Solder temperature : 240±5℃ Except for						for the edge, the should cover a			
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	APPROVAL SHEET									
С	USTOMER		CUSTOMER	'S P/N	F	P/N	Р	RODUCT		REVISION
			YZA-055 TACT SWITCH							A1
项目 试验条件										要求
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
1	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	低温测试 Resistance low tempera	to ature	标准湿度的 Following to normal ten measureme (1) 温度 Tem (2) 时间	Temperature : -40±2°C						⊞: ≤200mΩ t resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
2	高温测试 Heat resista	ance	标准湿度的 Following t normal ten measureme (1) 温度 ten	temperature:85±2℃						
3	根据下面的测试要求进行 5 次循环的温度周期性测试, 实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试。测试期间样品应保持干燥. 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. Temperature Time						E测试。测 e shall be d humidity de. During	接触电阻: ≤200mΩ Contact resistance ≤200mΩ 项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3		
65~-10°C 1										
APPROVE BY 张正达 CHECKED BY				李瓦	対 军	PRPARI	E BY	张伟		

С	USTOMER	CUSTOMER'S P/N	N P/N PRODUCT		REVISION			
	YZA-055 TACT SWITC					A1		
	项目		试验条件		1	要求		
	ITEM		TEST CONDITIONS		RE	QUIREMENTS		
4	湿温测试 Moisture resistance	标准湿度的环境中 Following the test normal temperatur measurements are (1) 温度: 60±2 temperature (2) 相对湿度:	temperature: 60±2℃ (2) 相对湿度: 90%~95% relative humidity:90% to 95% (3) 时间: 96h					
5	硫化试验 Sulfuration resistance	标准湿度的环境中 Following the test normal temperatur measurements are (1) H2S 气体浓 H ₂ S gas cor (2) 时间: 72h Time: 72h (3) 温度: 40±2	H ₂ S gas concentration: 3ppm±1ppm (2) 时间: 72h Time: 72h					
在以下设定条件下进行测量: The switch shall be checked after following test: (1) 温度: 35℃±2℃ temperature: 35℃±2℃ (2) 盐溶液浓度: 5±1% (质量百分比) salt solution: 5±1%(solids by mass) (3) 时间: 48h±1h Time: 48h±1 hour 实验后的盐沉积物后水冲掉 After test, salt deposit shall be removed by running water.						上没有腐蚀斑点 narkable corrosion be recognized in art.		
APP	ROVE BY	张正达 CHE	李成 ²	军 PRPAR	E BY	张伟		

				APPRO	JVAL SHI				
CUSTOMER		CUSTOMER'S	S P/N	P/N	Р	RODUCT	REVISION		
				YZA	\- 055	TAC	CT SWITCH		A1
	限机械性能: NDURANCE	SPEC	CIFICATION	,				,	
	项目			Ť	式 验 条 件			要求	
	ITEM			TES	T CONDITIONS			REQUIREMENTS	
1	根据下面的测试要求进行测试: Measurement shall be made following the test set forth below: (1) DC 12V, 50mA 带负载 DC 12V, 50 mA resistive load (2) 按动速率: 1 次/秒 Rate of operation: 1 times/s (3) 按力: 按力的 1.5 倍 Operating Force: Operating Force1.5Times (4) 最低寿命: 100,000 次 Min life:100,000cycles				nce≤200mΩ : 初值的±30% ing Force: alue±30% 4.1,4.2,4.3				
2	根据以下给定条件进行测试: Measurement shall be made following the test set forth below: (1) 振动频率范围: 10~55~10Hz Vibration frequency range: 10 to 55 to 10Hz (2) 振幅(峰一峰): 1.5mm Amplitude: 1.5mm (3) 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 (4) 测试时间:每次 2hours. Duration: Each 2hours.				z 互垂直的方 pendicular	项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3			
1	接条件:						-		
SOLD	ERING CON	DITIO	NS:						
			请按以下条件进行焊接:						
			(1) 焊锡温度: ≤350℃						
7.1	手工焊接 Hand soldering		(2) 连续焊接时间: ≤3 s						
			Please practice according to below conditions:						
			1 ' '	•	nperature: 350℃ oldering time: 3 s				
APPROVE BY			张正达	CHECKED	BY 李成 ²	军	PRPARE	BY	张伟

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CUSTOMER	CUSTOMER'S P/N	P/N	PRODUCT		REVISION			
		YZA-055	TACT SWITC	Н	A1			
项目		推荐条件						
ITEM		Recommended conditions						
回流焊时 7.2 Conditions for reflow	温度(*C)	120sec max.(预 3 to 4 m 炉内通过:	in.	260°C m 230°C 40s max.	ax. 3sec max. - 时间			

- 说明: 1.1 开关浸焊后,注意不要用溶剂清洗。
 - After switches were soldered, please be careful not to clean switches with solvent.
 - 1.2 在使用烙铁的情况下,焊锡温度应在 380℃以下、3 秒以内。
 In the case of using solding iron, solding conditions shall be 380℃ max and 3 sec.max.
 - 1.3 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参见产品图。

Follow recommended P.W.B. piercing plan in outside drawing page.

- 3 注意点(Note):
- 3.1 注意不要施加超负荷的压力或晃动开关

Please be cautions not to give excessive static load or shock to swiches.

3.2 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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		YZA-055	TACT SWITCH	А

8. 包装: Packing

产品规格	盘带 Dribbling		内包装箱 INTER BOX		外包装箱 OUT BOX			
LT484870	规格(Cm)	数量(pcs)	规 格(Cm)	袋数	规格(Cm)		净重 (Kg)	毛重 (Kg)
-00550C0	死俗(CIII)	数重(pcs)	观 僧(CIII)	衣奴	水管(CIII)	益 数		
0055	330	5000						

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