## TACTRONIC

### APPROVAL SPECIFICATIONS

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		PB21E06087-0738	PUSH SWITCH	A

1、 概述

**GENERAL** 

1.2 适用范围

**APPLICATION** 

此规格书适用于机械式 PB21E06087-0738 的相关要求

This specification is applied to the requirements for PUSH SWITCH (MECHANICAL CONTACT)

1.3 工作温度范围

Operating Temperature Range

- -5℃~35℃(在标准大气压、标准湿度条件下)
- $-5^{\circ}$ C  $\sim$  35  $^{\circ}$ C (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°C ~80°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...... $5^{\circ}$ C $\sim$ 35 $^{\circ}$ C

标准湿度......相对湿度 45%~85%

Normal humidity....relative humidity 45%~85%

标准大气压......860pa~1060pa

Normal air pressure......860pa~1060pa

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  $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 

环境气压......860pa~1060pa

Air pressure......860pa~1060pa

## **OTACTRONIC**

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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 接触方式: 具体的触点结构在装配图中已绘出;

Details of contact arrangement are given in the assembly drawings.

2.5 最大功率: DC 30V, 0.1A (有效值)

Most ratings: 30V DC, 0.1A (effective value)

#### 3. 电气性能:

#### **ELECTRICAL SPECIFICATION**

LEEC	EEEE TRICAL SI EER TEATION							
Į	页目		j	要求				
ľ	TEM		T	EST CONDITIONS		REQUIREMENTS		
1		接触电阻 act Resistance	在不低于 1KHz 等于 2 倍按力的静筑 Applying a stat to the center of the more than 1KHz AC meter.	100mΩ.max				
2	I	绝缘电阻 Insulation Resistance	在端子之间施 端间和壳体的电阻位 Measurement application of 500V and across terminals	100MΩ.min				
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## APPROVAL SPECIFICATIONS

	CUSTOMER	CUST	ΓOMER'S P/N	GYE'	S P/N	Pl	RODUCT		REVISION
				PB21E06	087-0738	PUS	H SWITC	Н	A
项目 试验条件 ITEM TEST CONDITIONS								REQ	要求 UIREMENTS
3	绝缘耐压 Insulation voltage pro	60Hz) 500V	在端子和壳体之间施加 500V AC(50Hz 或60Hz)/min 500V AC (50Hz or 60Hz) shall be applied across terminals and substance, for one minute.						
1	l械性能: HANICAL SPECIF	ICATION							
1	按力 Operatin Force	新施力 Placin operat load a	开关垂直于操作方向放置,在开关驱动件顶端中心逐渐施力,测量开关导通所需的力度。 Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the center of the stem, the load when switch turns on shall be measured						装配图所示 er to assembly drawings
2	最大行程 Full Trave	负荷放离。 Placin operat 2time travel	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.						装配图所示 er to assembly drawings
可焊性 Solder temperature: 245±5℃ 盖 90%以上 Except for the 6					for the edge, the should cover a				
Al	PPROVE BY	廖明谷 17.	04.07 CHE	CKED BY	薜益 17.	04.07	PRPAR	RE BY	孙高高 17.04.07



## APPROVAL SPECIFICATIONS

C	CUSTOMER	CUSTOMER'S	S P/N	GYE'	'S P/N	P	RODUCT		REVISION	
	PB21E06087-0738 PUSH SWITC							SH SWITCH		A
	5、极限电气性能: ENVIRONMENTAL SPECIFICATION								,	
1	低温测试 Resistance low tempera	to ature	面的测试要Following the normal temperature (1)温度: Temperature (2)时间: Time (3)水滴应:	样品应放在常温及标准湿度的环境中 1 小时后,根据下面的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:  (1)温度: -30±2℃  Temperature:-30±2℃  (2)时间: 72h  Time: 72h  (3)水滴应擦去  Dripping should be get rid of.						
2	样品应放在常温及标准湿度的环境中 1 小时后,根据下面的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:					l be left in	①接触电阻 < $500 \text{m}\Omega$ Contact resistance: < $500 \text{m}\Omega$ ②绝缘电阻 $>10 \text{M}\Omega$ Insulation Resistance: $>10 \text{M}\Omega$			
3	样品应放在常温及标准湿度的环境中 1 小时后,根据下面的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made:  (1) 温度: 40±2℃ temperature: 40±2℃ (2) 相对湿度: 90%~95% relative humidity:90% to 95% (3) 时间: 72h time: 72h (4) 水滴应擦去 Dripping should be get rid of.							3.3		
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# **APPROVAL SPECIFICATIONS**

C	CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT		REVISION	
			PB21E06087-0738	PUSH SWITCH		A	
	限机械性能: ENDURANCE!	SPECIFICATION					
	项目		试 验 条 件			要求	
ITEM TEST CONDITIONS					REG	QUIREMENTS	
1	工作寿命 Operation life	Measurement shabelow: (1) DC 5V, 5 DC 5V, 50 (2) 按动速率: Rate of operating Fo (4) 平均无故障	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 5V, 50mA 带负载				
2	振动 Vibration	Measurement shabelow: (1) 振动频率 Vibration f (2) 振幅(峰 Amplitude (3) 振动方向 Direction direction ir (4) 测试时间	<ul> <li>(1) 振动频率范围: 10~55~10Hz Vibration frequency range: 10 to 55 to 10Hz</li> <li>(2) 振幅(峰一峰): 1.5mm Amplitude: 1.5mm</li> <li>(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</li> </ul>				
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**CUSTOMER** 

CUSTOMER'S P/N

## APPROVAL SPECIFICATIONS

**PRODUCT** 

**REVISION** 

			PB21E06087-0738	PUSH SWITCH	A			
7. 焊	接条件:							
SOLD	DERING CONDIT	ΓΙΟNS:						
	项目			· 条件				
	ITEM		Recommen	ded conditions				
7.1	手工焊接 Hand soldering	(1) 焊锡温度: <u>≤3</u> (2) 连续焊接时间 Please practice acco (1) Soldering temp	情按以下条件进行焊接:  1) 焊锡温度: ≤350℃  2) 连续焊接时间: ≤3_s  Please practice according to below conditions:  1) Soldering temperature: _350℃ Max.  2) Continuous soldering time: 3_s Max.					
		项目 Items		条件 Condition				
		助焊剂附着:	量不附着于零	不附着于零部件贴装面的程度				
		Flux built-u	p Mounting su	Mounting surface should not be coated with flux				
	自动浸焊	预热温度 Preheating tempe	Ambient ter	焊接面的周围温度 10 mperature of the solo max.				
7.1	Conditions for Auto-dip	预热温度时间 Preheating time		45s max.				
		焊接温度 Soldering tempe	rature	255°C max.				
		焊接浸渍时间 Continuous dipping		5s max.				
		焊接次数		最多两次				
		2 times max.						

GYE'S P/N

#### 说明:

- 1、建议选用含助焊剂 0.2%以下的锡膏,并避免助焊剂进入开关内而导致开关失效。
- 2、设计按压推柄时,请参考所提供的图低,切勿以尖状物直接按压开关,且压柄需垂直置于开关中心位置按压,并将 压柄摇晃度按制在±3°以内。
- 3、开关焊接加工时,应特别注意将温度及时间控制在 255℃±2℃、5 秒内,否则过高的温度及过长的时间会导致开关的损坏或使用寿命减短。
- 4、焊接加工时开关应保持 OFF 状态,以避免开关损坏。

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