ISO9001: 2015 ISO14001: 2015

APPROVAL SPECIFICATIONS

Title: PUSH SWITCH

Part NO: PB22E06371 /158

Customer's Part NO.

Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

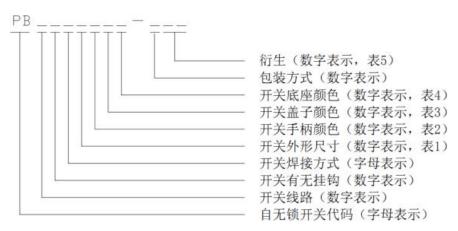
APPROVEREVIEWPOLT彭飞刘叶泉卢娇娇



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		PB22E06371 /158_	PUSH SWITCH	Α

A.Specification & meanings

The name of the tact switch is composed by type and specification, the particular meaning of the type, specification and code is as follows.



- 1、主称代号: 自无锁开关代码
- 2、开关线路代号: 1: 代表反向线路
- 4、开关焊接方式: E: 代表插板焊接 M: 代表贴片焊接

5. Product appearance size, as chart 2 shows:

产品外形尺寸

Code	Product size	Code	Product size	Code	Product sizet
06	5.8*5.8				
07	7*7				
08	8*8				
09	8.5*8.5				

2: 代表正向线路

3、开关有无挂钩: 1: 代表开关无锁无响 2: 代表开关有锁 3: 代表无锁有响

表 1

6. Stem color: It is expressed by a figure, as chart 2 shows:

Color	Black	Red	White	Blue	Yellow	Blue	Gray
Code	1	2	3	4	5	6	7

表 2

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GANGYUAN APPROVAL SPECIFICATIONS

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7. Products cover color, as chart 3 shows:

颜色	透明/本色	黑色	红色	白色	蓝色	黄色	天蓝色	深灰色	浅灰色	绿色
代码	0	1	2	3	4	5	6	7	8	9

表 33

8. The base color, as chart 4 shows:

颜色	透明/本色	黑色	红色	白色	蓝色	黄色	天蓝色	深灰色	浅灰色	绿色
代码	0	1	2	3	4	5	6	7	8	9

表 4

9、包装方式: 1: 代表胶袋包装(可省略), 2: 代表吸塑盒包装

10、衍生 (表 5): (无衍生号可省略,有两种以上衍生,按代码大小顺序填写,例:平头长柄为0104)

说明	平头	防锈	防火	长柄	连座
代码	01	02	03	04	05
	JF				
说明	JF	CY	接触电阻 100 毫欧	4.4mm 300gf	300gf
代码	06	07	08	09	10
说明	2 只脚	4 只脚	Ag3um 防锈油	5 只脚	0611 弯脚
代码	11	12	13	14	15
说明	加盖子	接触片三个点	中辰	湖北港源	Ag3um
代码	16	17	18	19	20
说明	Ag0. 3um	不锈钢弹簧	PPA(耐高温)底座	北陆包装	手柄有凸台阶
代码	21	22	23	24	25
说明	3 只脚	2 万次寿命	11 高的手柄	三只脚,有台阶	底座打油
代码	26	27	28	29	30
说明	黑色帽子	3.3*3.3 手柄	产品总高 18H	Ag0.5mm	黄灰色盖板
代码	31	32	33	34	35
说明	130gf	白色帽子	泰麟	云德	两脚 (端子上加支架)
代码	36	37	38	39	40

表 5



CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
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GENERAL MATTERS 总则

1.1 Application: This specification is applied to low current circuit push switch for eletronic equipment.

应用范围: 本规范适用于低电流电路开关电子

1.2 Operating Temperature Range : -10° C $^{\circ}$ 60 $^{\circ}$ C

工作温度范围: (-10℃—+60℃);

1.3 Storage temperature range : $-30~^{\sim}~80^{\circ}\text{C}$. However, 96 hours maximum for continuous storage over a range $-20~^{\sim}~-30^{\circ}\text{C}$ and a range $70~^{\sim}~80^{\circ}\text{C}$.

储温度范围:-30 ~ 80℃, 然而, 最大连续 96 小时存储在一个范围-20 ~ -30℃和 70 ~ 80℃范围

1.4 Test Condition:

测试条件

The standard test conditions shall be 5° ° 35°C in temperature,

 $45~^{\sim}~85\%$ RH and $860~^{\sim}1060$ mbar in atmospheric pressure. Should any doubt

arise in judgment, tests shall be conducted at $20\pm2^{\circ}$ C,

 $65 \pm 5\%$ RH and $860^{\circ}1060$ mbar

标准测试条件应当在温度 5℃ $^{\circ}$ 35℃, 45 $^{\circ}$ 85% RH 和 860 $^{\circ}$ 860 mbar。出现任何疑问再判断, 测试应在 20 ± 2 ℃, 65±5% RH 和 860 $^{\circ}$ 1060 mbar

2. RATED VOLTAGE AND CURRENT

额定电压和电流

DC 30V 0.1A(with resistance and inductance)

直流 30 v 0.1A(电阻和电感)

3. ELECTRIC PERFORMANCE

电气性能

	PROPERTY	TEST CONDITIONS	PERFORMANCE
	性能	试验条件	要求
3.1	Contact	Measured at 1KHz ± 200Hz (max 20mV, max 50mA)or at	*100mΩ max.
	Resistance	DC 5V 1A	
	接触电阻	在 1 khz±200Hz(max 20 mV,max50 mA)	
		或在直流5V 1A 测试	

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3.2	3.2 Insulation Resistance				*100M	Ω min.
3.3	Withstand Voltage 耐压	Voltage between terminals and earth for 1 minute.			shall b 没有绝	ulation defect e observed. 缘缺陷 、无飞弧

4.MECHANICAL PERFORMANCE

机械性能

	PROPERTY	TEST CONDITI	ONS		PERFO	ORMANCE	
	性能	试验条件			要求		
4.1	Operating Force 按力	actuator in ope 垂直于操作方向	shall be applied to erating direction. D放置,在开关驱动件 ⁻ 关导通所需的最大力	顶端中心逐		er individual actured drawing. 要求	
4.2	Terminal Strength 端子强度	A static force direction to 1 minute.(once	of 500gf is appl the tip of the te per terminal) gf是应用于动作方向	ied in one	off or termin of sub 自由下 *Bent Accep 弯曲的 *The specif shall b	be free falling breakage of al and breakage estrate as well. 落或极限破损和底部 terminal may be btable. U端子可能可以接受的electrical performation item 3 be met.	វា。 ance requirement
4.3	Lever Strength 手柄强度	direction of op 1公斤力的静力 *A static force the direction state) 用0.5公斤的力 态) *A static force vertical direction	of 1Kgf shall be apperation for 15sec. 作用方向操作,持续15e of 0.5Kgf shall be of pulling for 15sec 向外拉手柄,持续15f of 1Kgf shall be appen of operation at the c. 作用于垂直动作方向	5秒。 applied in c. (for free 少。(自由状 plied to the ne tip of the	abnori	e,bending and o malities. J显摆动、弯曲等	
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4.4	Lever Deviation	A static load of 10 operating part.静	-	·		
	手柄偏差	oporating part.	4X [15] TOO GIRT		1 Hr 23 6	
4.5	Solderability 可焊性	The test is conducted under the following condition. Soldering Temperature: 260±5℃ Dipping Time: 3±0.5 sec 在下列条件下进行测试。 焊接温度:260±5℃ 浸渍时间:3±0.5秒				*Over 90% of the immersed part shall be covered with solder. 超过90%的部分应是满焊。
4.6	Soldering Heat Resistance 耐热焊接	在下列条件下进行 Temperature and 温度和浸渍时间 Dip	The test is conducted under the following condition. 在下列条件下进行测试。 Temperature and dipping time 温度和浸渍时间 Temperature Time (°C) (sec)			*Shall be free from a remarkable change in Appearance. 外观有明显的变化 *The electrical performance requirement specified in item 3 shall be met.
		Soldering Manual Soldering	350±10	3		电气性能需求指定的3项得到满足。

5. DURABILITY

	PROPERTY 性能	TEST CONDITIONS 试验条件	PERFORMANCE 要求
5.1	Mechanical Operation 机械寿命	10,000cycles operation at the rate of 15~30cycles/minute without load shall be done. 操作的速度为15~30次/分钟没有加载为10000次。	*Contact Resistance:500mΩ max. 接触电阻: 500mΩ max. *Insulation Resistance:10MΩ min. 绝缘电阻: 10MΩ min. *Dielectric Strength: No dielectric breakdown shall take place when AC 500V is applied for 1 minute. 绝缘强度:作用于交流500 v、1分钟介质不击
5.2	Mechanical Operation with electrical load 负载寿命	10,000cycles operation at the rate of 15~30cycles/minute with load DC 30V 0.1A操作的速度 15~30周期与负载直流30 v 0.1 / 分钟为10000次	穿。 *Operating Force: within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in appearance and Structure. 外观和结构不得有异常。

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6. WEATHER PROOF

环境试验

PROPERTY 性能	小児は	人习近		
6.1 Cold Heat Proof 冷热试验 After testing at -30±2℃ for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour and measurement is performed within 1 hour after that.Water drops should be wiped off. 在-30±2℃96小时测试后,样品允许放在正常温度和湿度条件为1小时后再测量。 No dielectric breakdown shall take place, when AC 500V is applied for 1 hour and measurement is performed within 1 hour after that. After testing at 85±2℃ for 96hrs, the sample is allowed to stand under normal temperature for 1 hour and measurement is performed within 1 hour after that. After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 **Contact Resistance : 500mΩ max. 按触电阻: 500mΩ max **Insulation Resistance : 10M≥ min. ** Dielectric strength : No dielectric breakdown shall take place, when AC 500V is applied for 1 minute. ** 40 **		PROPERTY	TEST CONDITIONS	PERFORMANCE
冷热试验		性能	试验条件	要求
humidity conditions for 1 hour and measurement is performed within 1 hour after that.Water drops should be wiped off.	6.1	Cold Heat Proof	After testing at -30±2℃ for 96hrs, the sample is	*Contact Resistance:
performed within 1 hour after that.Water drops should be wiped off. 在→30±2℃96小时测试后,样品允许放在正常温度和湿度条件为1小时后再测量。应该擦去产品的水滴。 6.2 Dry Heat Proof干热试验 After testing at 85±2℃ for 96hrs, the sample is allowed to stand under normal temperature for 1 hour and measurement is performed within 1 hour after that. 6.3 Damp Heat Proof 常湿的耐热的试验 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off.测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 */nsulation Resistance:100		冷热试验	allowed to stand under normal temperature and	500mΩ max.
be wiped off. 在→30±2℃96小时测试后,样品允许放在正常温度 和湿度条件为1小时后再测量。 应该擦去产品的水滴。 6.2 Dry Heat Proof 干热试验			humidity conditions for 1 hour and measurement is	接触电阻: 500mΩ max
在─30±2℃96小时测试后,样品允许放在正常温度 和湿度条件为1小时后再测量。 应该擦去产品的水滴。 6.2 Dry Heat Proof 干热试验 6.2 Dry Heat Proof 干热试验 6.3 Damp Heat Proof 潮湿的耐热的试验 6.3 Damp Heat Proof 测湿的耐热的试验 6.3 Damp Heat Proof 测湿的耐热的试验 6.3 Damp Heat Proof 测湿的耐热的试验 6.4 Damp Heat Proof 测湿的耐热的试验 6.5 Damp Heat Proof 测湿的耐热的试验 6.6 Damp Heat Proof 测湿的耐热的试验 6.7 Damp Heat Proof 测湿的耐热的试验 6.8 Damp Heat Proof 测湿的耐热的试验 6.9 Damp Heat Proof 测湿的耐热的试验 6.1 Damp Heat Proof 测湿的耐热的试验 6.2 Damp Heat Proof 测湿的耐热的试验 6.3 Damp Heat Proof 测湿的耐热的试验 6.4 Damp Heat Proof Numidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 4 级缘电阻: 10M② min. *Dielectric strength: No dielectric breakdown shall take place, when AC 500V is applied for 1 minute. 绝缘强度:作用于交流500 V 、1分钟介质不击穿。 *Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			performed within 1 hour after that.Water drops should	*Insulation Resistance:
和湿度条件为1小时后再测量。 应该擦去产品的水滴。 6.2 Dry Heat Proof 干热试验			be wiped off.	10MΩ min.
应该擦去产品的水滴。 6.2 Dry Heat Proof 干热试验 After testing at 85±2℃ for 96hrs, the sample is allowed to stand under normal temperature for 1 hour and measurement is performed within 1hour after that. 6.3 Damp Heat Proof 潮湿的耐热的试验 Proof 潮湿的耐热的试验 6.3 Damp Heat Proof 为证据的 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 No dielectric breakdown shall take place, when AC 500V is applied for 1 minute. 绝缘强度:作用于交流500 V 、1分钟介质不击穿。*Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			在-30±2℃96小时测试后,样品允许放在正常温度	绝缘电阻: 10MΩ min.
6.2 Dry Heat Proof 干热试验 After testing at 85±2℃ for 96hrs, the sample is allowed to stand under normal temperature for 1 hour and measurement is performed within 1hour after that. 6.3 Damp Heat Proof 潮湿的耐热的试验 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 AC 500V is applied for 1 minute. 绝缘强度:作用于交流500 v、1分钟介质不击穿。*Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			和湿度条件为1小时后再测量。	*Dielectric strength:
T.热试验 allowed to stand under normal temperature for 1 hour and measurement is performed within 1hour after that. 在85±2℃96小时测试后,样品允许在正常温度 1小时再测量。 6.3 Damp Heat Proof 潮湿的耐热的试验 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 AC 500V is applied for 1 minute. 绝缘强度:作用于交流500 v 、1分钟介质不击穿。*Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			应该擦去产品的水滴。	No dielectric breakdown
1 hour and measurement is performed within 1hour after that. 1 hour and measurement is performed within 1hour after that. 2	6.2	Dry Heat Proof	After testing at 85±2℃ for 96hrs, the sample is	shall take place, when
after that. 在85±2℃96小时测试后,样品允许在正常温度 1小时再测量。 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 绝缘强度:作用于交流500 v、1分钟介质不击穿。 *Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。		干热试验	allowed to stand under normal temperature for	AC 500V is applied
在85±2℃96小时测试后,样品允许在正常温度 1小时再测量。 After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 v 、1分钟介质不击穿。 *Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			1 hour and measurement is performed within 1hour	
在85±2℃96小时测试后,样品允许在正常温度 1小时再测量。 6.3 Damp Heat Proof 潮湿的耐热的试验 如der normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 *Operating force: Within ±10% of the initial Value. 操作力在最初的±10%变化值内。 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。			after that.	·
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6.3 Damp Heat Proof humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量				
Proof 潮湿的耐热的试验 humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存 在的在正常的温度和湿度条件为1小时再测量				
潮湿的耐热的试验 under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量	6.3	· ·		'
for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量 *No abnormality shall be recognized in Appearance 外观和结构不得有异常。				
1 hour after that. Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量		潮湿的耐热的试验		/
Water drops should be wiped off. 测试后60±2℃,相对90~95%湿度为96小时,样品是允许存在的在正常的温度和湿度条件为1小时再测量				
测试后60±2℃,相对90~95%湿度为96小时,样品是允许存 外观和结构不得有异常。 在的在正常的温度和湿度条件为1小时再测量				
在的在正常的温度和湿度条件为1小时再测量				
				外观和结构不得有异常。
	L			

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7. AUTOMATIC SOLDERING CONDITIONS

自动焊接条件

7.1 Preheat ----- 100°C max, 45 (sec)

预热:100℃ max,45 (sec)

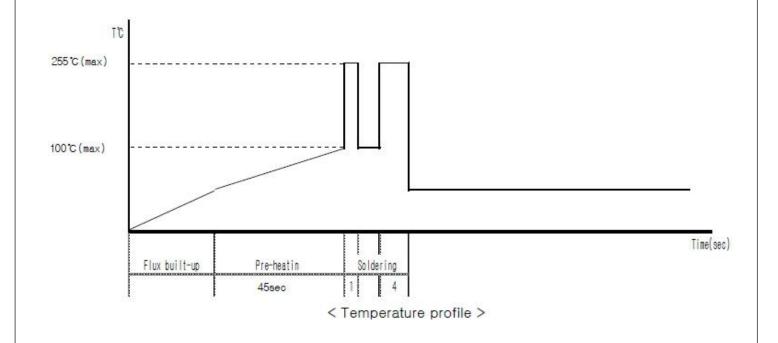
7.2 Peak temperature ---- 255℃ max

峰值温度:255℃ max

7.3 Soldering area temperature ----- 255°C max, $1 \sim 4$ (sec)

焊接区温度: 255℃ max, 1~4 (sec)

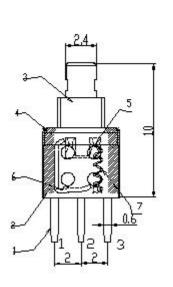
Except for the edge, the coating should cover a minimum 90%

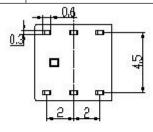


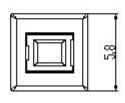
APPROVE BY	彭 飞 18.01.18	CHECKED BY	刘叶泉 18.01.18	PRPARE BY	卢娇娇 18.01.18

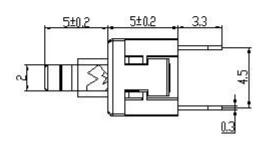


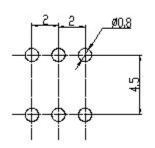
CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		PB22E06371 /158	PUSH SWITCH	Α

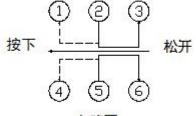














松开:2-3;5-6接通

产品性能					
按力	200±50g				
行程	1.2±0.2mm				
电阻	按客户要求				

	部件名称	材料名称	牌号及规格	数量	备注
1	针脚	高精铜	H65T	2排(6个)	镀银
2	底座	增强尼龙/工程塑料	PA66/PPA	1	浅灰色/其它
3	手柄	甲醛塑料/增强尼龙	POM/PA66	1	白色/其它
4	盖子	增强尼龙	PA66	1	黑色/其它
5	簧片	复合银铜	F.Ag/C5210-EH-TA	1对(2只)	本色
6	钩针	不锈钢针	SUS301-EH	1	本色
7	弹簧	碳素钢丝	60#/70#钢丝	1	本色

APPROVE BY	彭 飞 18.01.18	CHECKED BY	刘叶泉 18.01.18	PRPARE BY	卢娇娇 18.01.18
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