CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
		KAN0616-0501B	TACT SWITCH	А	

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

- -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°C~35°C

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°C±2°C

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 开关工作额定值: DC 12V, 50mA (有效值)

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

3. 电气性能:

ELECTRICAL SPECIFICATION

项目			-	试验条件			要求
ITI	EM		TE		REQU	IREMENTS	
1		接触电阻 Contact Resistance	在以 5V 10mA的的 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		≤50mΩ		
2	I	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		≥100MΩ		
3	D	广质耐压 ielectric ltage proof	在端子之间施加 250V AC(50HZ 或 60HZ)/1min 250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.				b穿、无飞弧 here should be reakdown and flashover
APPROVE BY 杨过 10.06.1		2 CHECKED BY 关 林 10.06.12 PRPARE E				曹 盖 10.06.12	

CI	USTOMER	CUSTOMER'	CUSTOMER'S P/N GYE'S P/N PRODUCT						REVISION
				KAN061	6-0501B	TAC	T SWITC	Н	Α
	项目		试 验 条 件						
	ITEM			TEST CONDI				REC	QUIREMENTS
4	触点抖动 Bounce	按照正常使用时在导通和断开过stem at a rate of and bounce shall	t程中测记 encounte	式开关抖动 Lig ered in normal	htly striking t use (3 to 4 tir	he cent nes per			Imsec.max 8msec.max
4. 机									
		PECIFICATION							
1	按力 Operating Force		force		按				1.6±0.5N
2	最大行程 Full Trave	按力: Operating Placing the sw	force 与载 Return force 回弹力 Stroke 行程 按力: Operating Force: Placing the switch such that the direction of switch operation is).3±0.1mm
3	vertical and then gradually increasing the load applied to the center of the stem, the maximum load required for the switch to come to a stop shall be measured. 最大行程: Full Travel Placing the switch such that the direction of switch operation is vertical and then applying static load of 2 times operating force to						0.4N.min		
APP	position shall be measured. APPROVE BY 杨过 10.06.12 CHECKED BY 关 林 10.06.12 PRPARE					6.12	RE BY	曹 盖 10.06.12	

С	USTOMER	CUSTOMER'S F	P/N GYE	S P/N	Pl	RODUCT		REVISION
			KAN061	6-0501B	TAC	CT SWITCH		А
	项目 ITEM		试验条 TEST COND				RE	要求 QUIREMENTS
4	停止强度 Stop Strength	荷持续 1min。 Placing the switch vertical, and ther	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 switch vertical, and then	开关垂直于操作方向放置,反方向实施最大操作力,并测量手柄的行程范围。 Placing the switch such that the direction of switch operation is vertical, and then the maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.					
6	可焊性 Solderability	在以下设定条件下进行测量: Measurements shall be made following the test set forth below: (1) 焊接温度:245±5℃ Solder temperature: 245±5℃ (2) 浸入时间:2s±0.5s Immersion time: 2s±0.5s 对于其它步骤参考《GB 5095.6—86》试验 12a The other steps please refer to《GB 5095.6-86》TEST 12a						外涂层应均匀覆盖 E for the edge, the should cover a n 90%
APP	ROVE BY	杨过 10.06.12	CHECKED BY	关 林 10.0	06.12	PRPARE	BY	曹 盖 10.06.12

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С	USTOMER		CUSTOMER'S P/N GYE'S P/N PRODUCT							REVISION
					KAN061	6-0501B	TAC	CT SWITCH		А
	项目 试验条件							I	要求	
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
	限电气性能: RONMENTAL	. SPEC	CIFICATION							
1	低温测试 Resistance low tempera	to ature	Temp	环境中 ne test peratur nts are : -30± perature : 96h	Contac ≤200m 项目 3,					
2	高温测试 Heat resista	nce	temp (2) 时间	环境中 the san	Contac ≤200m 项目 3,					
3	温度周期性 Change temperate	of	样品应放在 试期间样品 After 5 cycl allowed to conditions for	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。测期间样品应保持干燥. ter 5 cycles of following conditions, the sample shall be owed to stand under normal temperature and humidity nditions for 1 h. and measurements shall be made. During test water drops shall be removed. Temperature Time -10±2℃ 2(hour) -10~65℃ 1 65±2℃ 2 65~-10℃ 1						阻: ≤200mΩ t resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
APPROVE BY 杨过			± 10.06.12	CHE	CKED BY	关 林 1	0.06.12	PRPAR	E BY	曹 盖 10.06.12

С	USTOMER	CUSTOMER'	S P/N	GYE'S P/N	PRODUCT	REVISION		
				KAN0616-0501B	TACT SWITCH	I	А	
	项目		I	试验条件		要求		
	ITEM		٦	TEST CONDITIONS		RE	QUIREMENTS	
4	湿温测试 Moisture resistance	temp (2) 相对 relati (3) 时间 time	环境中 1 / the sample nditions for the sample serving the sample servin	Contac ≤200m 项目 3,				
5	防水性能 Waterproofin	(2) 水深:	ents shall 60±2℃ ature: 60± 10 厘米 leep: 10cm 96h	Contac ≤200m 绝缘电				
6	硫化试验 Sulfuration resistance	1 120	Contac ≤200m 项目 3,					
7			shall be 35℃±2℃ erature: 35 夜浓度: 5± olution: 5 8h±1h 8h±1 hou 沉积物后力	checked after followin 5℃±2℃ ±1%(质量百分比) ±1%(solids by mass) r	No rer	上没有腐蚀斑点 markable corrosion be recognized in part.		
APP	PROVE BY	杨过 10.06.12	CHEC	KED BY 关 林 10	06.12 PRPAR	E BY	曹 盖 10.06.12	

0 11:	ACTRO	ONI	IC A	APPI	ROVAI	L SPE	CIFI	CATIO	NS	
С	USTOMER	(CUSTOMER'S P/N		GYE'	S P/N	Р	RODUCT		REVISION
				KAN061	6-0501B	TAC	CT SWITCH		А	
6、极限机械性能: ENDURANCE SPECIFICATION										
	项目				试验	条件				要求
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
1	工作寿命 Operation		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						t nce≤200mΩ : 初值的±30% ing Force: alue±30% 4.1,4.2,4.3	
2	振动 Vibra	tion	Measureme (1) 振玄 Vib (2) 振輔 Am (3) 振玄 Dire dire (4) 测证	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						4.1,4.2,4.3 4.1,4.2,4.3
7. 焊										
-	ERING CON	DITIO	NS:							
			请按以下条件进行焊接: (1) 焊锡温度: ≤350℃							
_	手工焊接		. ,		g. ~350 c 接时间: ≤3					
7.1	Hand solde	ering	,			ing to below	onditic	ons:		
			1		-	ure: 350℃ ng time: 3 s				
(2) APPROVE BY 杨过 10.06.12					KED BY	关 林 10.		PRPARE	E BY	曹 盖 10.06.12

TACTRONIC

APPROVAL SPECIFICATIONS

CUSTOMER		CUSTOMER'S P/N	GY	'E'S P/N	PRODUCT	REVISION		
	KANO			616-0501B	TACT SWITCH	А		
		项目 Items		条件 Condition				
		助焊剂附着量 Flux built-up		不附着于零部件贴装面的程度 Mounting surface should not be coated with flax				
	自动浸焊		预热温度 Preheating temperature		印刷电路板焊接面的周围温度 100℃ max. Ambient temperature of the soldered surface of PC board. 100℃ max.			
7.2	Conditions for Auto-dip	沙然温度时间	预热温度时间 Preheating time		60s max.			
		焊接温度 Soldering tem	perature	260°C max.				
		焊接浸渍时间 Continuous dipping time		5s max.				
		焊接次数	焊接次数		2 次以下			
		Number of solds	Number of soldering		2times max.			

焊接说明:

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.

1.1 在使用烙铁的情况下,焊锡温度应在 320℃以下、3 秒以内。

In the case of using solding iron, solding conditions shall be 320°C 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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