

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		KAN0446-0201B	TACT SWITCH	Α

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		Ť	试验条件			要求				
ITI	ΞM		TE	ST CONDITIONS		REQ	UIREMENTS				
		的	在以 5V 10mA的] 电路中,以一个等于	直流电源或不低于 1K 2 倍按力的静负荷施							
	接触电阻		Applying a static	<50.0							
1	Contact Resist	ance the	e center of the stem,		≤ 50 m Ω						
			DC 10mA or mo	re than 1KHZ AC	small-current						
		со	ntact resistance met	er.							
2	绝缘电阻 Insulation Resistance	e 10	在端子之间施加 D间底座、盖板的电阻 Measurement shand DO DC potential, rminals and cover, for		≥100MΩ						
介质耐压 在端子之间施加 250V AC 3 Dielectric 250V AC (50HZ or 60H voltage proof terminals, for one minute				or 60HZ) shall be a			记击穿、无飞弧 There should be breakdown and flashover				
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С	USTOMER	CUSTOMER'S			S P/N		RODUCT		REVISION
				KAN044	6-0201B	TAC	T SWITCH		Α
	项目			试验条	: 件				要求
	ITEM		TE	ST COND	ITIONS			RE	QUIREMENTS
4	触点抖动Bounce	按照正常使用时在导通和断开这Lightly striking normal use (3 tested at "ON" 10V DC + T	性程中测试 the cente to 4 tim and "OFF 开关 Switch	和关抖动 er of the sper se in sper	tem at a rat	e encour bounce			msec.max 8msec.max
	械性能: IANICAL SP	ECIFICATION							
1	按力 Operating Force	量开关导通所需 Placing the sw vertical and th center of the st	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最大力度。 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 maximum load required for the switch to come to a stop shall be measured.						1.6±0.5N
2	最大行程 Full Trave	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.						0.2±0.1mm	
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С	USTOMER	CUSTOMER'S	S P/N	GYE'	S P/N	Р	RODUCT		REVISION
				KAN044	6-0201B	TAC	CT SWITC	1	Α
	项目 ITEM		Т	试验条 EST COND				RE(要求 QUIREMENTS
3	回弹力 Return Force	开关垂直于操作后,测量顶端向 The sample sw operation is ve to the whole tra	开关垂直于操作方向放置,在开关驱动件顶端中心下降至全行程后,测量顶端向自由位置转换的力度。 The sample switch is installed such that the direction of switch operation is vertical and upon depressing the stem in its center to the whole travel distance, the force of the stem to return to its free position shall be measured.						0.4N.min
4	停止强度 Stop Streng	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 i vertical, and then a static load of 30N shall be applied in th direction of stem operation for a period of 1 min.						几械和电气损坏 shall be no sign of e mechanically and electrically.
5	手柄拔出 强度 Stem Strength	的行程范围。 Placing the swi vertical, and the	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.						20N.min.
6	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							90%以」 Except	for the edge, the should cover a
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	APPROVAL SPECIFICATIONS									
С	USTOMER		CUSTOMER	'S P/N	GYE'	S P/N	Р	RODUCT		REVISION
					KAN044	6-0201B	TAC	CT SWITCH		Α
	项目	·			试 验	条件				要求
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
	限电气性能: RONMENTAL									
1	低温测试 Resistance low tempera	to ature	标准湿度的 Following t normal ten measureme (1) 温度 Tem (2) 时间	环境中 the test nperatu ents are 度: -30	±2℃ re:-30±2℃	l be left in	Contac ≤200ms 项目 3,4			
2	高温测试 Heat resista	ince	tem (2) 时间	环境中 he test nperatu ents are 度: 80± nperatu 司: 96h	Contac ≤200ms 项目 3,4					
3	温度周期性 Change temperati	time: 96h 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 接触电阻: ≤200mΩ Contact resistance sange of 2(hour) 2(hour)								t resistance: Ω 4.1,4.2,4.3
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С	USTOMER	(CUSTOMER'S	P/N G	YE'S P/N	PRODUC	Γ	REVISION
				KAN	I0446-0201B	TACT SWIT	СН	А
	项目	1		试	验条件			要求
	ITEM			TEST	CONDITIONS			REQUIREMENTS
4	湿温测记 Moistur resistand	е	标准湿度的环 Following the normal temp measuremen (1) 温度: tempe (2) 相对 relativ	60±2℃ rature: 60±2℃ 显度: 90%~9 e humidity:90% 96h	n e 接触 Cor ≤20 项目	虫电阻:≤200mΩ ntact resistance: 00mΩ 目 3,4.1,4.2,4.3 n 3,4.1,4.2,4.3		
5	硫化试乳 Sulfuratio resistand	on	标准湿度的环 Following the normal temp measuremen (1) H2S H ₂ S g (2) 时间: Time: (3) 温度:	气体浓度:3pp as concentratio :72h	n e 接触 Cor ≤20 项目	虫电阻:≤200mΩ ntact resistance: 00mΩ 目 3,4.1,4.2,4.3 n 3,4.1,4.2,4.3		
6	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) 益屬公司 时间: 8h±1h Time: 8h±1 hour						属件上没有腐蚀斑点 remarkable corrosion ll be recognized in tal part.	
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			APPF	KOVF	AL SP	ECIFIC	HII)	ONS_			
С	USTOMER	(CUSTOMER'S	S P/N	GYE'	S P/N	Р	RODUCT		REVISION	
					KAN044	6-0201B	TAC	CT SWITCH		А	
	限机械性能: NDURANCE	SPEC	IFICATION	l					l l		
	项目				试 验	条件			要求		
	ITEM			TEST CONDITIONS					REQUIREMENTS		
1	工作寿命 Operation		(1) DC 1 DC 1 (1) 按动 Rate (3) 按力 (4) Ope (5) 平均	nt shall to 2V, 50 m	ne made fol mA 带负载 nA resistive ~3 次/秒 ation: 2 to 3 勺 1.5 倍 orce: Op 手命: 10000	3 times/s erating Forc	e1.5 倍	of the Delow.	resistar 触点弹 Conta 按力 Operati initial vi 项目 3,	阻≤200mΩContact nce≤200mΩ 力≤10ms ct bounce≤10ms · 初 值 的 ±30% ing Force: alue±30% 4.1,4.2,4.3 4.1,4.2,4.3	
2	振动 Vibra	tion	Measureme (1)振云 Vib (2)振帆 Am (3)振云 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	
	接条件: ERING CON	DITION	NS:								
7.1	SOLDERING CONDITIONS: - 请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.										
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CUSTOMER		CUSTOMER'S P/N	HUAHUI'S P/N	PRODUCT	REVISION
			KAN0446-0201B	TACT SWITCH	А
	项目		推着	字条件	
	ITEM		Recommen	ded conditions	
7.2	回流焊时 Conditions for reflow	温度 (*C) 180 - 150 -	120sec max.(预 3 to 4 m 炉内通过	热) 40s r	—— 时间

说明: 1.1 开关浸焊后,注意不要用溶剂清洗。

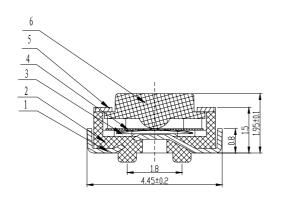
After switches were soldered, please be careful not to clean switches with solvent.

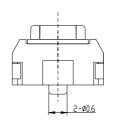
- 1.2 在使用烙铁的情况下,焊锡温度应在 380℃以下、3 秒以内。
 In the case of using solding iron, solding conditions shall be 380℃ max and 3 sec.max.
- 1.3 浸焊后,注意不要在顶部施加负荷。
 Right after switches were soidered; please be careful not to load to on the knobs of switches.
- 2 设计中应注意的事项(Design instructions):
- 2.1 印刷基板的安装孔尺寸参见产品图。
 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 .

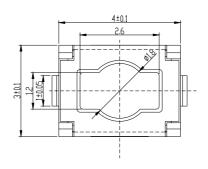
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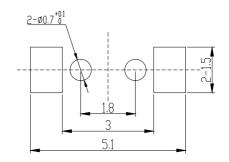


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		KAN0446-0201B	TACT SWITCH	Α

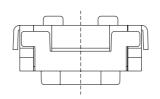








PRPARE BY



CHECKED BY

General tolerance: ±0.1mm

黄蜀东 09.10.25

APPROVE BY

1	NO.	NAME	MATERIAL	NATIONALITY	QTY.	FINISHING
	1	TERMINAL	C5191	China	1	Silver plating
	2	CASE	FR52	USA	1	Black
	3	CONTACT	STS 301	Korea	1	Contact side silver plating
	4	Damp Proof Tape	TI	China	1	
	5	COVER	SUS 301	Korea	1	
	6	STEM	FR52	USA	1	Black
	•					

关 林 09.10.25

曹 盖 09.10.25