ISO9001: 2015 ISO14001: 2015

APPROVAL SPECIFICATIONS

Title. TACT SWITCH

Product Model. KAN0671 系列

Customer's Part NO.

Customer's Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

APPROVE	REVIEW	PRPARE		
彭飞	刘叶泉	卢娇		

HUBEI GANGYUAN ELECTRONICS CO., LTD.



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		KAN0671 系列	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

- -40℃~85℃(在标准大气压、标准湿度条件下)
- -40° C \sim 85°C (Normal humidity, normal air pressure)
- 1.4 贮藏温度范围

Storage Temperature Range

- -40℃~90℃(在标准大气压、标准湿度条件下)
- -40 $^{\circ}$ C $^{\circ}$ O $^{\circ}$ C (Normal humidity, normal air pressure)
- 1.5 保存期限

Storage Period

出货后,室温、正常湿度下未开封状态3个月以内.

After shipment, room temperature, normal humidity under unopened state within 3 months

1.6 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 \sim 35 $^{\circ}$ 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°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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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			试习		要求			
	ITEM			TEST	CONDITIONS		REC	UIREMENTS	
1	1	接触电阻 Contact		5V 10mA 的直流电源 卜等于 2 倍按力的静空 ing a static load o	force to the		≤100mΩ		
	Resist		center of	the stem, measure	ments shall be ma	de by 5V DC		(100m ==	
			10mA or i	more than 1KHZ A0	Small-current cont	act resistance			
			meter.						
2	Insula	在端子之间施加 DC 500V /1min 的条件下, 测量端子之间底座、 盖板的电阻值 Measurement shall be made following application of 500V DC potential, across terminals, and across terminals and cover, for one minute.						≥100MΩ	
3	介质耐压						无击穿、无飞弧 There should be breakdown and flashover		
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			К	AN0671 系列	TACT S\	WITCH	i A		
	项目 ITEM			验条件 CONDITIONS		I	要求 REQUIREMENTS		
4	触点抖动 Bounce	在导通和断开定 Lightly striking normal use (3 tested at "ON"	the center of to 4 times pand "OFF" 开关 Switch	the stem at a ra	te encounterd bounce sha	oll be	N-3msec.max FF-8msec.max		
	戒性能: ANICAL SP	ECIFICATION							
1	按力 Operating Force	开关垂直于操作量开关导通所需 Placing the sw vertical and th center of the s come to a stop	on is	1.6±0.5N					
五 最大行程 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. 0.25±0.1mm							0.25±0.1mm		
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				KAN06	71 系列	TAC	CT SWITCH	4	Α
	项目			试验多	条件				要求
	ITEM		-	TEST CONI	DITIONS			RE	QUIREMENTS
3	回弹力 Return Forc	后,测量顶端 The sample s operation is vo to the whole t	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 cente to the whole travel distance, the force of the stem to return to its free position shall be measured.						≥0.4N
4	停止强度 Stop Strengt	负荷持续 1mir th Placing the sw vertical, and t	开关垂直于操作方向放置,从操作方向向驱动件施加 30N 的青负荷持续 1min。 Placing the switch such that the direction of switch operation vertical, and then a static load of 30N shall be applied in th direction of stem operation for a period of 1 min.						L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 sv vertical, and	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						20N.min.
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%以上 Except	for the edge, the should cover a	
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					KAN06	71 系列	TACT	SWITCH		А
项目 试验条件								I	要求	
	ITEM				TEST CON	IDITIONS			REC	QUIREMENTS
	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	Resistanc	样品应按照以下实验条件进行测试,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: 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) 时间: 96h Time: 96h							Contact ≤200mΩ 项目 3,4	
2	高温测i Heat resist		样品应按照以下实验条件进行测试,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: 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: 90±2℃ temperature:90±2℃ (2) 时间: 96h time: 96h							resistance: ! .1,4.2,4.3
3	温度周期性 Change temperat	of	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. Idia Temperature Time 1							
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			KAN06	71 系列	TACT	SWITCH		А		
	项目		试 验	条件	1		I	要求		
	ITEM		TEST CON	IDITIONS			RE	QUIREMENTS		
4	湿温测试 Moisture resistance	标准湿度的环境 Following the tenormal temperate (1) 温度: 6 temperate (2) 相对湿度 relative h	temperature: 60±2℃ (2) 相对湿度: 90%~95% relative humidity:90% to 95%							
5	硫化试验 Sulfuratior resistance	(1) H₂S 气体 H₂S gas ((2) 时间: 7 Time: 72I (3) 温度: 40	中 1 小时后做性est set forth belature and huminare made: 家液度: 3ppm±1concentration:	be left in	Contact ≤200mg 项目 3,4					
6	盐雾试验 Salt Mist	ealt colution: 6±1%/colide by mace)						上没有腐蚀斑点 narkable corrosion be recognized in art.		
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					KAN06	71 系列	TAC	CT SWITCH		А
6、极限机械性能: ENDURANCE SPECIFICATION										
	项目				试验条件	+				要求
	TEM			TES	ST CONDIT	IONS			RE	QUIREMENTS
1	工作寿命 Operatio n life	tio (2) 按动速率: 2次/秒 按 力: 初 值 的 ±309								nce≤200mΩ : 初值的±30% ing Force: alue±30% 4.1,4.2,4.3
2	振动 Vibration	AIIIDIILUUE, I.SIIIIII								
	· 接条件: ERING CON	NDITIO	NS:							
				安以下条	:件进行焊接	:				
			(1)	焊锡温	度: ≤350℃					
	 手工焊接	i.	(2) 连续焊接时间: ≤3 s							
7.1	于工符货 Hand sold									
			(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 3 s Max.							
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		KAN0671 系列	TACT SWITCH	А				
项目 推 荐 条 件								
ITEM		Recommen	ded conditions					
回流焊时 7.2 Conditions for reflow	温度(*C) 180 - 150	120sec max.(预热) 3 to 4 min. 炉内通过时间	230°C	k. 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 .

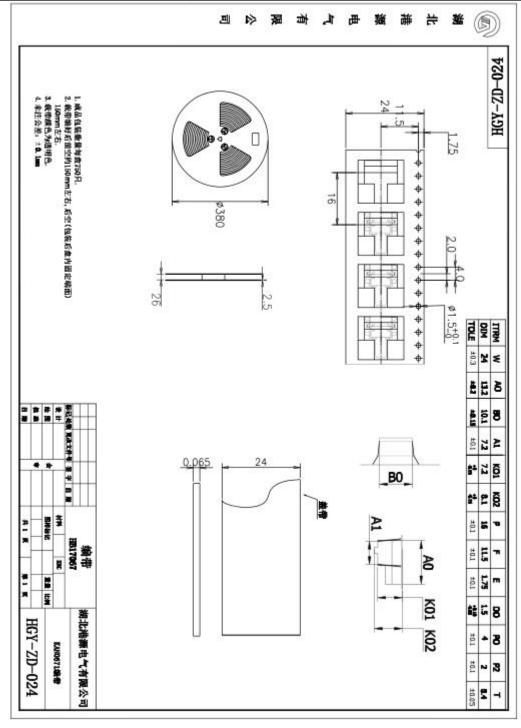
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				KAN0671		TA	TACT SWITCH		А	
7.1 6.0 9.5±0.1 8.5±0.2 9.5±0.3 8.5 10.1 安装尺寸图 で で で で で で で で で で で で で で で で で で で										
A1、A2、A3、A4 电路图										
	NO.	NAME		MATERIAL	. QTY.		FINISHING			
	1	TERMINA	L	Brass	1		Silver plating	9		
	2	CASE		PPA	1		Black			
	3		Г	F.Ag/C5210) 1	Co	Contact side silver plating			
	4			SPCC-SD	1		Cu/Sn plating			
5		STEM		PPA	1		Black			
APPROVE I	APPROVE BY		CHE	CKED BY	刘叶泉 1	3.4.13	PRPARE BY	, _声	娇 18.4.13	



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