Title.: TACT SWITCH

Product Model.: KAN6247-0343M1

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	POLT
Jack Wu	孙斌	于化龙

Shenzhen Gangyuan Microkey Technology Co., ltd



CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
		KAN6247-0343M1	TACT SWITCH	А	
、 概述					
GENERAL					
1.2 适用范围					
APPLICATION 业如权共活用于机	城式轻触开关的相关要求	2			
	is applied to the requirer				
1.3 工作温度范围					
Operating Temper	rature Range				
	家准大气压、标准湿度条件	=下)			
-20℃~70℃ (No	ormal humidity, normal air	pressure)			
1.4 贮藏温度范围					
Storage Temperat					
•	淮大气压、标准湿度条件				
	ormal humidity, normal air	pressure)			
1.5 测试条件 Test Conditions					
	5夕供于 亡学去以于44	74.丁油/二洞/14.石洞目			
	的条件下,应该在以下的象		in the following standar	d conditional	
	specified, tests and mea 5℃~35		in the following standar	a conditions.	
	5℃~35 µre5℃~35				
	相对湿度				
	relative hu				
	86KPa~				
	ıre86Kpa				
	, 试和测量应该在以下的象				
If any doubt arise	from the judgment, tests	shall be conducted at th	ne following conditions:		
	20℃±2 ℃				
	20℃±2℃				
		0			
	65%±5%				
		•			
All pressure 1.6 防护结构 protec	86KPa	τυυκμα			
1.0 防护结构 protec 相当于 IP67					
Equivalent IP67					



CUST	OMER	CUSTON	/IER'S P/N	GYE'S P/N	PRODUCT	REVISION
				KAN6247-0343M1	TACT SWITCH	A
Detaile 2.1 外观: Appea 2.2 结构) Style a 2.3 操作 Type c 2.4 开关 Contai (Detail 2.5 开关:	arance: Then 尺寸和安装内 and dimensio 形式: 有触觉 of actuating: 结构: 单回路 ct arrangem ls of contact 工作额定值: gs: 12V DC,	降低产品性 e should be n 尺寸:应符合: on:shall cont 定反应的操作 Tactile feedb 备单输出(具体 ent: 1 pole, 1 arrangemen DC 12V, 50	no defects tha 装配图要求; form to the ass pack. 的触点结构在 throw t are given in	t affect the serviceability semble drawings. 葉裝配图中已绘出); the assembly drawings.) DC 1V, 10µA(最小值) A (Min)		
		ECIFICATIO	N	试验条件		田子
	〔 EM			武 亚 宋 任 TEST CONDITIONS		要求 REQUIREMENTS
1		电阻 Resistance	Applying the center of	一个等于 2 倍按力的静负 a static load of 2 times the stem, measurement A or more than 1KHZ	负荷施加于手柄中心 s operating force to ts shall be made by	\leqslant 100m Ω
2	Insu	≹电阻 lation stance	之间底座、盖 Measure 100V DC 」	间施加 DC 100V /1min 板的电阻值 ment shall be made folk potential, across termi l cover, for one minute.	owing application of	$\geq 100 M \Omega$
3 介质耐压 在端子之间施加 250V AC(50HZ 或 60HZ)/1min 3 Dielectric 250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.					无击穿、无飞弧 There should b no breakdown and flashover	



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С	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
			KAN6247-0343M1	TACT SWITCH	А	
	项目		试验条件			
	ITEM	ר ר	TEST CONDITIONS		REQUIREMENTS	
4	触点抖动 Bounce	在导通和断开过程中测 Lightly striking the cer	nter of the stem at a rai imes per second), and FF"	e encountered in bounce shall be	ON-10 msec.max OFF-10 msec.max	
	械性能: IANICAL SPEC □					
1	按力 Operating Force	量开关导通所需的最大 Placing the switch suc vertical and then grad	th that the direction of so dually increasing the loa maximum load required	witch operation is ad applied to the	350 ± 100 gf	
2	最大行程 Full 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.				



С	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
			KAN6247-0343M1	TACT SWITCH		
	- 16日		试验条件			
	项目 ITEM	r	试验余件 TEST CONDITIONS		安水 REQUIREMENTS	
3	回弹力 Return Force	后,测量顶端向自由位 The sample switch is operation is vertical ar to the whole travel dist	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 o the whole travel distance, the force of the stem to return to its ree position shall be measured.			
4	停止强度 Stop Strength	开关垂直于操作方向放 荷持续 1min。 Placing the switch suc vertical, and then a s direction of stem opera	无机械和电气损坏 There shall be no sign of damage mechanically and electrically.			
5	手柄拔出 强度 Stem Strength	开关垂直于操作方向放 的行程范围。 Placing the switch suc vertical, and then the r opposite to the directio	20N.min.			
6	可焊性 Solderability	在以下设定条件下进行 Measurements shall be (1) 焊接温度:245±5℃ Solder temperatur (2) 浸入时间:3s±0.5s Immersion time: 3 对于其它步骤参考 The other steps pl	除边缘外涂层应均匀覆盖 90%以上 Except for the edge, the coating should cover a minimum 90%			



CUSTOMER		CUSTOMER	'S P/N	GYE'S P/N	PRO	DUCT		REVISION
				KAN6247-0343M1	TACT S	WITCH		А
	项目			试验条件	I			要求
	ITEM			TEST CONDITIONS			RE	QUIREMENTS
1	限电气性能: RONMENTAL SF	ECIFICATION						
1	低温测试 Resistance low temperature	标准湿度的 Following t normal ten measurem (1)温度 Tem (2)时间	Temperature : -30±2℃					阻: ≤200mΩ ct resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
2	高温测试 Heat resistance	标准湿度的 Following t normal ten (1) 温度 (2) 时间	temperature:80±2°C					阻: ≤200mΩ ct resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
3	温度周期性测词 Change of temperature	根据下面的 样品应放在 试期间样品 After 5 cy allowed to conditions the test wa	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. $\boxed{ 10\pm 2 \ C \ 1} \\ \hline 10-65 \ C \ 1} \\ \hline 65\pm 2 \ C \ 2} \\ \hline 65\sim-10 \ C \ 1} \\ \hline \ 1 \end{bmatrix}$					阻: ≤200mΩ ct resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3



C	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION		
	KAN6247-0343M1 TACT SWITC				A		
	项目 ITEM		试 验 条 件 TEST CONDITIONS		要求 REQUIREMENTS		
4	湿温测试 Moisture resistance	标准湿度的环境中 1 Following the test s normal temperature measurements are (1) 温度: 60±2 temperature: (2) 相对湿度: 9	temperature: 60±2℃ Insulation res (2) 相对湿度: 90%~95% ≥50MΩ relative humidity:90% to 95% 项目 3,4.1,4.2 (3) 时间: 96h Item 3,4.1,4.2				
5	硫化试验 Sulfuration resistance	标准湿度的环境中 1 Following the test s normal temperature measurements are (1) H ₂ S 气体浓) H ₂ S gas cor (2) 时间: 72h Time: 72h (3) 温度: 40±2	H ₂ S gas concentration: 3ppm±1ppm (2) 时间: 72h Time: 72h				
6	盐雾试验 Salt Mist	在以下设定条件下进 The switch shall b (1)温度: 35℃±2 temperature: (2)盐溶液浓度: salt solution : (3)时间: 12h±1h Time: 12h±1h 实验后的盐沉积物后 After test, salt depo	金属件上没有腐蚀斑点 No remarkable corrosion shall be recognized in metal part.				



GANGYUAN AFFRUVAL SFEUIFICATIONS						
C	CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
			KAN6247-0343M1	KAN6247-0343M1 TACT SWITCH		
	。 限机械性能: ENDURANCE SPE	CIFICATION	I			
	项目		试验条件		要求	
	ITEM		TEST CONDITIONS		REQUIREMENTS	
1	工作寿命 Operation life	Measurement shall (1) DC 12V, 5 DC 12V, 50 (1) 按动速率: 7 Rate of ope (3) 按力: 按力1 (4) Operating F (5) 寿命: 100,	DC 12V, 50 mA resistive load (1) 按动速率: 1 次/秒 Rate of operation: 1 times/s (3) 按力: 按力的 1.5 倍 (4) Operating Force: Operating Force1.5 倍			
2	振动 Vibration	Measurement shall (1) 振动频率范 Vibration fi (2) 振幅(峰一 (3) 振动方向: (Direction direction in	 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 			
3	Shock	Switch shall be mea 1.安装方法:正常安 Mounting method 2.加速 490 m/s2 (5 3.持续时间: 11 ms 4.测试方向: 6 个方 5.冲击次数:每个方	开关应在实验后测量 Switch shall be measured after following test. 1.安装方法:正常安装 Mounting method: Normal mounting method 2.加速 490 m/s2 (50G) Acceleration:490 m/s2 (50 G) 3.持续时间:11 ms Duration:11 ms 4.测试方向:6个方向 Test direction:6 directions 5.冲击次数:每个方向3次(18次计) Number of shocks: 3 times per direction (18 times in total)			
	接条件: DERING CONDITI	ONS:				
7.1	手工焊接 Hand soldering	(1) 焊锡温		ring temperature: 34 nuous soldering time:		



CUSTOMER		CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
			KAN6247-0343M1 TACT		А	
	项目		推着	孝条件		
	ITEM		Recommen	ded conditions		
7.2	回流焊 Conditions for reflow	温度(*C) 180 - 150 -	120sec max.(预 3to 4 r 炉内通过	230 (热) nin.	—— 时间	
说明:	 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 350℃以下、3 秒以内。 In the case of using soldering iron, soldering conditions shall be 350℃ 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 soldered;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 注意人(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. 					



General tolerance: ±0.2mm

NO.	NAME	MATERIAL	QTY	FINISHING
1	STEM	Silicone	1	White
2	COVER	SUS	1	Natural
3	CASE	PPS	1	Black
4	CONTACT	SUS301/Ag Clad	1	Natural
5	TERMINAL	Brass	4	Ag plated