ISO9001	: 2000			ISO14001: 2004
		1		
	APPRC	OVAL SPECIFICAT	IONS	_
	<u>Title.</u>	TACT SWITCH	<u>I</u>	
	Produc	t Model. KAN0631K		
	Custon	ner's Part NO.		
	Custon	ner's Model:		
WEN	ZHOU) GANGYUA	NC	O.,LTD
	Custo	mer's Approval Rec	uested.	
	Please retur	n this copy as a certification	of your ap	proval.
	Checked by	: Date:		
	Approved b	y: Date:		

APPROVE	REVIEW	POLT
杨过	刘三军	曹 盖

WENZHOU GANGYUAN ELECTRONICS CO., LTD.





050	5	095	9.5	153	15.3
060	6	100	10	170	17
070	7	110	11	180	18
073	7.3(方头)	115	11.5		
080	8	120	12		
090	9	125	12.5		
		130	13		

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

Color	Black	Red	Gray	Light gray
Code	1	2	7	8

3. Operating force: An English letter expresses it, unite: Newton (N), as chart 3 shows:

	Operating			
force Code Spo	<u> </u>	Press force	Return force	
Code Sp				
A	1.0	1.0±0.3	0.2min	
В	1.6	1.6±0.5	0.4min	
С	2.6	2.6±0.5	0.6min	

Examples: "KAN0631K-0501B" denotes the tact switch with 6×6 base, the height is 5mm, the stem is black , the operating force is 1.6N.

APPROVE BY	杨	ì
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过 11.04.07

刘三军 11.04.07 CHECKED BY

PRPARE BY



	NGTUAN	/ \			
CUSTOMER	CUSTOMER'S	S P/N GYE	'S P/N	PRODUCT	REVISION
		KAN	0631K	TACT SWITCH	А
 This specificati 工作温度范围 Operating Tem -20℃~70℃(-20℃~70℃(-20℃~70℃(-20℃~70℃(-20℃~70℃(-20℃~70℃(1.4 贮藏温度范围 Storage Tempe -30℃~80℃(-30℃~80℃(1.5 测试条件 Test Conditions 在没有其它特定 Unless otherwid 常温 Normal temper 标准大气压 Normal air prese 在制造过程中, If any doubt ari 温度 Temperature 相对湿度 Relative humid 环境气压 	中机械式轻触开关的机 ion is applied to the perature Range 在标准大气压、标准 Normal humidity, no 在标准大气压、标准 Normal humidity, no s 定的条件下,应该在 ise specified, tests a fature	requirements for TA 湿度条件下) mal air pressure) 湿度条件下) mal air pressure) 以下的条件下进行测 nd measurement s 5° \sim 35 $^{\circ}$ C 5° \sim 35 $^{\circ}$ C 相对湿度 25% \sim 85% ative humidity 25% 36KPa \sim 106Kpa 86Kpa \sim 106Kpa 85% 50° \sim 20° \pm 2°C 55% \pm 5% KPa \sim 106Kpa	JGY(I试和测量: hall be made in % ~85%	H (MECHANICAL CO JAN CO the following standar following conditions:),LTD
APPROVE BY	杨 过 11.04.07	CHECKED BY	刘三军 11.04	4.07 PRPARE BY	z 曹 盖 11.04.07
					Page 2 of 11



CUSTOMER CUSTOMER'S P/N GYE'S P/N PRODUC KAN0631K TACT SWIT 2、详细说明 Detailed specification 2.1 外观:应无影响、降低产晶性能的缺陷; 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	CH A
 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: 	
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ELECTRICAL SPECIFICATION	
项目 试验条件 ITEM TEST CONDITIONS	要求 REQUIREMENTS
1 在以 5V 10mA 的直流电源或不低于 1KHz 的交流电的电路中,以一个等于 2 倍按力的静负荷施加于手柄中Applying a static load of 2 times operating force the center of the stem, measurements shall be made 5V DC 10mA or more than 1KHZ AC small-curr contact resistance meter.	Ξ源 □心 e to e by ≤100mΩ
2 Insulation Resistance 100V / 1min 的条件下,测量站 2 Insulation Resistance 100V DC potential, across terminals, and acrost terminals and cover, for one minute.	n of ≥100MΩ
介质耐压 在端子之间施加 250V AC (50HZ 或 60HZ) /1min 3 Dielectric voltage proof terminals, for one minute.	无击穿、无飞弧 There should be no breakdown and flashover
APPROVE BY 杨 过 11.04.07 CHECKED BY 刘三军 11.04.07 PRPAF	RE BY 曹 盖 11.04.07

GA	NGYUAN	APPR	OVAL SPE	ECIFIC	CATIO	ONS	
CUSTOMER	CUSTOMER'S	S P/N GYE	S P/N P	RODUCT		REVISION	
		KANC	0631K TAG	CT SWITCH	1	А	
项目 ITEM		试验条件 要求 TEST CONDITIONS REQUIREM					
4. 机械性能: MECHANICAL SPECIFICATION							
按力 1 Operating Force	量开关导通所需 Placing the swi vertical and the center of the st	F方向放置,在开关 F的最大力度。 itch such that the d en gradually increa	驱动件顶端中心逐渐 irection of switch op ising the load appli oad required for the	ī施力,测 peration is ed to the		fer to chart 3	
2 最大行程 Full Trave	开关驱动件顶端 Placing the swi vertical and the	三方向放置,以一个 一市心,测量顶端移z itch such that the d n applying static loa e stem; the travel di be measured.	C).25±0.1mm			
APPROVE BY	杨 过 11.04.07	CHECKED BY	刘三军 11.04.07	PRPAR	EBY	曹 盖 11.04.07	



CUSTOMER	CUSTOMER'S P	/N GYE'	S P/N	PRODUC	ICT REVISION		
		KAN	0631K	TACT SWIT	СН	А	
项目		试验条	:件			要求	
ITEM		TEST COND	ITIONS		F	REQUIREMENTS	
回弹力 Return Force 3	e 开关垂直于操作方 后,测量顶端向自 The sample switcl operation is vertica to the whole travel free position shall	由位置转换的力) n is installed suc al and upon dep distance, the fo	变。 ch that the di ressing the s	rection of swite	:h er	refer to chart 3	
4 停止强度 Stop Strengt	开关垂直于操作方 荷持续 1min。 Placing the switch vertical, and then direction of stem o	such that the d a static load of	is dam	无机械和电气损坏 re shall be no sign of age mechanically and electrically.			
手柄拔出 强度 Stem Strength	的行程范围。 Placing the switch vertical, and then t	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 Solderabilit	Measurements sha (1) 焊接温度:245 Solder temper (2) 浸入时间:2s±(Immersion tim 对于其它步骤	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					
APPROVE BY	杨 过 11.04.07 (CHECKED BY	刘三军 11.0	04.07 PRF	ARE BY	曹 盖 11.04.07	



с	USTOMER	(CUSTOMER	'S P/N	GYE'	S P/N		PRODUCT		REVISION
			KAN0631K TACT SWITCH						1	А
	项目				试验	条 件				要求
	ITEM				TEST CON	DITIONS			RE	QUIREMENTS
	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	低温测试 Resistance low tempera	to ture	标准湿度的 Following t normal ten measureme (1) 温月 Tem (2) 时间	neasurements are made; 5 5 5 ≤200mΩ (1) 温度: -30±2℃ 项目 3,4.1,4.2,4.3 1tem 3,4.1,4.2,4.3 Temperature : -30±2℃ Item 3,4.1,4.2,4.3						t resistance: Ω 4.1,4.2,4.3
2	高温测试 Heat resista	nce	标准湿度的 forth below humidity cc (1) 温月 tem (2) 时间	forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: (1) 温度: 80±2℃ temperature:80±2℃						阻: ≤200mΩ ct resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
3	温度周期性 Change temperatu	of	样品应放在 试期间样品 After 5 cyc allowed to conditions	time: 96h 下面的测试要求进行 5 次循环的温度周期性测试,实验后 应放在常温及标准湿度的环境中 1 小时后做性能测试。测 可样品应保持干燥. 5 cycles of following conditions, the sample shall be ed to stand under normal temperature and humidity tions for 1 h. and measurements shall be made. During st water drops shall be removed. $\frac{1}{\text{Cycle}} \frac{-10 \pm 2^{\circ} \text{C}}{-10 - 65^{\circ} \text{C}} \frac{1}{-10 \pm 2^{\circ} \text{C}} \frac{2}{-10 - 65 - 2^{\circ} \text{C}} \frac{1}{-10 - 2^{\circ} \text{C}}$					Contac ≤200m 项目 3	
APP	ROVE BY	杨ì	寸 11.04.07	CHE	CKED BY	刘三军	11.04.07	PRPAR	EBY	曹 盖 11.04.07



С	USTOMER	CUSTOMER'S P/	N GYE'	S P/N	PRODUCT		REVISION
			KAN	0631K	TACT SWITC	н	А
	项目		试 验	条 件			要求
	ITEM		TEST CON	DITIONS		RE	EQUIREMENTS
4	湿温测试 Moisture resistance	(2) 相对湿度	中1小时后做性 cample shall be ons for 1 h befo D±2℃ ure: 60±2℃ : 90%~95% umidity:90% to	t d 接触电 Contac ≤200m 项目 3			
5	硫化试验 Sulfuration resistance	H ₂ S gas ((2) 时间: 7 Time: 72h (3) 温度: 40	中1小时后做性 sample shall be ons for 1 h befo 体浓度: 3ppm± ² concentration: 2h	t			
6	盐雾试验 Salt Mist	The switch sha (1)温度: 35℃ temperatu (2)盐溶液浓度 salt soluti (3)时间: 8h± Time: 8h± 实验后的盐沉积	 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) (3) 时间: 8h±1h Time: 8h±1 hour 实验后的盐沉积物后水冲掉 After test, salt deposit shall be removed by running water. 				
APP	PROVE BY	汤 过 11.04.07 C	HECKED BY	刘三军 11.	04.07 PRPA	RE BY	曹 盖 11.04.07

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С	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION		
			KAN0631K	TACT SWITCH	A		
6、极限机械性能:							
	NDURANCE SF	PECIFICATION					
	项目		试验条件		要求		
	ITEM		TEST CONDITIONS		REQUIREMENTS		
1	工作寿命 Operation life	根据下面的测试要3 Measurement shall (1) DC 12V, 50 DC 12V, 50 (2) 按动速率: 1 Rate of ope (3) 按力: 按力 Operating I (4) 平均无故障 A 1 B 1	Operating Force: Operating Force1.5double (4) 平均无故障寿命: Average fault-free life A 1.0 100000 次 B 1.6 80000 次				
2	振动 Vibratior	Measurement shall (1) 振动频率剂 Vibration f (2) 振幅(峰- Amplitude (3) 振动方向: Direction direction ii (4) 测试时间:	 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 				
	· 接条件: DERING CONDI	IONS:		<u>.</u>			
			条件进行焊接:				
	手工焊接		(1) 焊锡温度: ≤350℃				
7.1	于工序按 Hand solderin	g	(2) 连续焊接时间: ≤3 s				
		Please pra	Please practice according to below conditions:				
			(1) Soldering temperature: 350℃ Max. (2) Continuous soldering time: 3 s Max.				
APP	PROVE BY 札	汤 过 11.04.07 CHE	CKED BY 刘三军 11.	04.07 PRPARE	BY 曹盖 11.04.07		

C	USTOMER	CUSTOMER	'S P/N	GYE	'S P/N	Р	RODUCT	REVISION
			KAN	0631K	TAC	CT SWITCH	A	
	自动浸焊	项	目 Items			条	件 Condition	
	Conditions t		助焊剂附着量 Flux built-up 预热温度 Preheating temperature		不附着于零部 Mounting sur		面的程度 ould not be coated v	vith flax
					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	预热温度时间 Preheating tir			e			60s max.	
		焊接波	-		260°C max.			
	WE				5s max.			
	焊接次数 Number of soldering		2 次以下 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 350℃以下、3 秒以内。 In the case of using solding iron, solding conditions shall be 380℃ 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 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.								
APP	ROVE BY	杨 过 11.04.07	CHEO	CKED BY	刘三军 11.	.04.07	PRPARE BY	曹 盖 11.04.07





CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		KAN0631K	TACT SWITCH	А

8. 生产工场: The country of origin

WENZHOU GANGYUAN ELECTRONICS CO.,LTD NO.392 NING KANG EAST ROAD OF YUE QING CITY, ZHE JIANG

9. 包装: Packing

产品规格	包装袋 PACKING BAG		内包装箱 INTER BOX		外包装箱 OU	т вох	净重	毛重
KAN0631K	规 格(Cm)	数量(pcs)	规格(Cm)	7 袋数	规格(Cm)	盒数	(Kg)	(Kg)
043	19×16	1000	$21.6 \times 16.5 \times 4.8$		44.5×35×28	20	19.2	21.458
050	1 <u>9</u> ×16	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	19.6	21.858
055	19×16	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	19.7	21.958
060	19×16	1000	$21.6 \times 16.5 \times 4.8$	2	$44.5 \times 35 \times 28$	20	19.8	22.058
070	19×19.5	1000	$21.6 \times 16.5 \times 4.8$	2	$44.5 \times 35 \times 28$	20	19.9	22.186
073	19×19.5	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	20.0	22.286
075	19×19.5	1000	$21.6 \times 16.5 \times 4.8$	2	$44.5 \times 35 \times 28$	20	20.4	22.686
080	19×19.5	1000	$21.6 \times 16.5 \times 4.8$	2	$44.5 \times 35 \times 28$	20	20.8	23.086
085	19×19.5	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	21.0	23.286
090	19×19.5	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	21.4	23.570
095	19×21	1000	21.6×16.5×4.8	2	$44.5 \times 35 \times 28$	20	21.6	23.898
100	19×21	1000	21.6×16.5×4.8	1	$44.5 \times 35 \times 28$	20	10.6	12.770
110	19×21	1000	$21.6 \times 16.5 \times 4.8$	1	$44.5 \times 35 \times 28$	20	10.8	12.970
120	19×21	1000	21.6×16.5×4.8	1	$44.5 \times 35 \times 28$	20	11.0	13.170
125	19×21	1000	21.6×16.5×4.8	1	$44.5 \times 35 \times 28$	20	11.1	13.270
130	19×21	1000	21.6×16.5×4.8	1	$44.5 \times 35 \times 28$	20	11.3	13.470
135	19×21	1000	$21.6 \times 16.5 \times 4.8$	1	$44.5 \times 35 \times 28$	20	11.6	13.770
150	19×21	1000	$21.6 \times 16.5 \times 4.8$	1	$44.5 \times 35 \times 28$	20	11.8	13.970
153	19×21	1000	21.6×16.5×4.8	1	$44.5 \times 35 \times 28$	20	11.9	14.070
170	19×21	1000	$21.6 \times 16.5 \times 4.8$	1	$44.5 \times 35 \times 28$	20	12.0	14.170
180	19×21	1000	$21.6 \times 16.5 \times 4.8$	1	$44.5 \times 35 \times 28$	20	12.1	14.270

APPROVE BY	杨 过 11.04.07	CHECKED BY	刘三军 11.04.07	PRPARE BY	曹 盖 11.04.07