



CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		KAN0642	TACT SWITCH	А

A.Specification & meanings

The name of the tact switch is composed by type and specification, the particular meaning of the type, specification and code is as follows.



1. Product height: It is denoted by three figures; For examples, "075" expresses the product which the total height is 7.5mm, as chart 1 shows:

Code	Product height	Code	Product height
043	4.3	090	9
050	5	095	9.5
060	6		
07	7		
073	7.3		
080	8		

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

Color	Black	Red	White	Blue	Yellow	Green	Gray	Grayish
Code	1	2	3	4	5	6	7	8

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

force Code	Operating Spec	Press force	Return force
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: "KAN0641N-0316B" denotes the tact switch with 6×6 base,Contact post is cover,the height is 3.1mm,the stem is Green , the operating force is 1.6N.

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CUSTOMER	CUSTOMER'S	S P/N GYE	''S P/N	PROE	JUCT	REVISION
		KAN	10642	TACT S	WITCH	А
This specific 1.3 工作温度范 Operating Te -20℃~70℃ -20℃~70℃ -20℃~70℃ 1.4 贮藏温度范 Storage Tem -30℃~80℃ 1.5 测试条件 Test Condition 在没有其它软 Unless other conditions: 常温	于机械式轻触开美 ation is applied to 围 cmperature Range ℃(在标准大气压、 (Normal humidi 围 perature Range ℃(在标准大气压、 (Normal humidi	失的相关要求 the requirement 本准湿度条件下 大和湿度条件下 大和湿度条件下 大和湿度条件下 大和湿度条件下 大和湿度条件下 大、normal air pression 本本湿度条件下 大、normal air pression 本本型で、35℃ 、5℃~35℃ 、5℃ 、5℃ 、5℃ 、5℃ 、5℃ 、5℃ 、5℃ 、	ts for TACT () ssure) 下进行测试和 ement shall %~85% lity 25%~8 5Kpa D6Kpa 下进行: all be condu	ILE SWITC 入入 印测量: be made ir 5%	CO.5	JICAL CONTACT)
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CUSTC	MER	CUSTOME	R'S P/N	GY	′E'S P/N	PRODUCT	REVISION
				K/	AN0642	TACT SWITCH	A
 2.1 外观 Appea 2.2 结构 Style a 2.3 操作 Type a 2.4 开关 Conta (Detai 2.5 开关 Rating 3. 电气性 	ed specifi : 应无影 arance: Th 尺寸和安 and dimer 形式: 有能 of actuatir 结构: 单[ct arrange ls of conta 工作额定 gs: 12V D 能:	响、降低产品 here should b 裝尺寸: 应符 hsion: shall co 触觉反应的操 ng: Tactile fee 回路单输出(具 ement: 1 pole act arrangeme 值: DC 12V, C, 50mA (effe	e no defec 合装配图要 onform to t 作 dback. (体的触点 , 1 throw ent are giv 50mA (有效	ts that a 要求; the asse 结构在落 ven in the 改值)	mble drawing 配图中已绘	AN CO	uct.
ELEC 项			ON	1	式验条件		要求
· · · · · · · · · · · · · · · · · · ·	ГЕМ				ST CONDITI	ONS	REQUIREMENTS
1	Cor	独电阻 ^施 ntact stance fc sł	函加于手柄 Applyir prce to the hall be m	电路中, 中心 ng a sta e center ade by	以一个等于 2 tic load of 2 f of the stem 5V DC 10m	或不低于 1KHz 的 2 倍按力的静负荷 times operating n, measurements nA or more than resistance meter.	≤100mΩ
2	Insu	建电阻 lation stance te	在端子 量端子之间 Measu pplication	之间施加 底座、盖 rement of 1(and acre	口DC 100V /1 症板的电阻值 shall be DOV DC p	min 的条件下, 测 made following otential, across s and cover, for	$\geq 100 M \Omega$
3	Di	耐压 ielectric e proof ae	250V A	AV (50H	-	HZ 或 60HZ)/1min shall be applied	无击穿、无飞弧 There should be no breakdown and flashover
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v v	GANGYUAN

С	USTOMER	CUSTOMER'	S P/N	GYE'	S P/N	Р	RODUCT		REVISION
				CT SWITCH	4	A			
	项目		 	试验条 ST COND					要求
	ITEM 最大行程 Full Travel	开关垂直于操	作方向	的静负荷		QUIREMENTS			
2	βU	Placing the operation is 2times opera travel distance measured.	switch vertical ating for	such that I and their rce to the	t the direc n applying center of	ction o static the st	f switch load of em; the	0	.25±0.1mm
3	回弹力 Return Force	开关垂直于 全行程后,测 The sample s switch opera stem in its ce of the stem measured.]量顶端 switch is ition is enter to	向自由位置 s installed vertical a the whole	置转换的力, such that ind upon (travel dist	度。 the dire depress ance, t	ection of sing the he force	re	fer to chart 3
4	停止强度 Stop Strength	Placing the	≹ 1min。 switch vertical,	such that and then	t the direc a static loa	ction o ad of 3	f switch 0N shall	There med	.械和电气损坏 shall be no sign of damage chanically and electrically.
5	手柄拔出 强度 Stem Strength	重于树的门档 Placing the	ā围。 switch vertical oull appl	such that I, and the lied oppos	t the direc n the max	ction o cimum	f switch force to		20N.min.
6	耐焊接热 Soldering heat resistance	的测试要求进 Following the in normal ter	样品应放在常温及标准湿度的环境中 1 小时后,根据下面 的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurement are made:						械和电气损坏
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С	USTOMER	CUSTOMER		GYE'	S P/N		RODUCT		REVISION
			KAN0642 TACT SWITCH						A
	项目 ITEM 耐焊接执	(1) 泪庇	\sim	REC	要求 QUIREMENTS				
6	 耐焊接热 Goldering heat Fresistance Temperature and Immersion time: 260±5℃, 5s±1s 								shall be no sign damage anically and cally.
7 可焊性 Solderability Solder temperature : 255±5℃ (2) 浸入时间:2s±0.5s 盖 90%以上 Except for the coati							t for the edge,		
	t限电气性能: RONMENTAL S	PECIFICATION							
1 低温测试 Resistance to low temperature 样晶应放在常温及标准湿度的环境中 1 小时后,根据下面的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: 接触电阻: ≤200mΩ (1) 温度: -30±2℃ Temperature :-30±2℃ 项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3 Time: 96h Time: 96h								ct resistance: nΩ ,4.1,4.2,4.3	
APP	ROVE BY	余晓丽 2013.9.20	CHECK	KED BY	刘叶泉 201	3.9.20	PRPARE	EBY	胡海燕 2013.9.18

	USTOMER	CUSTOMER	'S P/N	GYE'S P/N	GYE'S P/N PROD			REVISION	
				KAN0642	TACT	SWITCH		А	
	项目			试验条件			要求		
	ITEM			TEST CONDITION	IS		REQUI	REMENTS	
2	高温测试 Heat resistance HUB	面的测试 Following left in nor 1 h before (1)温/ ten (2)时	要求进 the tes mal ter e meas 度: 80	st set forth below th nperature and hum urements are made ±2℃ ure:80±2℃	ne sample sh idity conditio	nall be			
3	温度周期性测试 Change of	面的测试 测试期间和 After 5 cy be allowe humidity t be made removed.	要求进 ^注 样品应作 cles of ed to s conditio	及标准湿度的环境中 行 5 次循环的温度周 保持干燥 following conditions tand under normations for 1 h. and m ing the test wat	引期性测试: s, the sample I temperatur easurements	e shall e and s shall	Contact ≤200mΩ	≤200mΩ resistance:	
	temperature			Temperature	Time		项目 3,4.1 Item 3,4.1		
				-10±2 ℃	2(hour)	_	1.0111 0,4.1	,᠇.᠘,᠇.᠐	
			1cycle	-10∼65 ℃	1				
			-	65±2℃	2				
				65∼-10℃	1				



	CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT		REVISION		
			KAN0642	TACT SWITCH		A		
	项目 ITEM		REC	要求 QUIREMENTS				
4	H 湿温测试 Moisture resistance	面的测试要求进行 Following the tes left in normal ten 1 h before measu (1) 温度: 60± temperatu (2) 相对湿度:	t set forth below the operature and humidit urements are made: :2℃ re: 60±2℃ 90%~95% midity:90% to 95%		ct resistance:			
5	硫化试验 Sulfuration resistance	3 次后,根据下面 Following the tes left in normal tem h1 and repea measurements a (1) H ₂ S 气体 H ₂ S gas c (2) 时间: 72h Time: 72h	样品应放在常温及标准湿度的环境中 1 小时并重复 2~ 3 次后,根据下面的测试要求进行测试: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for1 h1 and repeat two to three times before measurements are made: (1) H ₂ S 气体浓度: 3ppm±1ppm H ₂ S gas concentration: 3ppm±1ppm (2) 时间: 72h Time: 72h					
6	盐雾试验 Salt Mist	remark	上没有腐蚀斑点 No able corrosion e recognized in part.					
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CUSTOMER		CUS	TOMER'S P/N	GYE'S P/N	PRODUCT	REVISIO	REVISION	
			KAN0642 TACT SWITC		TACT SWITCH	H A		
	限机械性能 INDURANC		FICATION					
	项目			试验条件		要求		
	ITEM		TEST CONDITIONS			REQUIREMENTS		
1	工作寿命 Operation	life 根語 for (th below: 1) DC 12V, 5 DC 12V, 5 2) 按动速率: Rate of op 3) 按力:按力 4) Operating	all be made followin 0mA 带负载 0 mA resistive load $2 \sim 3 次/秒$ eration: 2 to 3 times/s 0的 1.5~2 倍 Force: Operating 重寿命: Average faul 1.6 8000	NCO Force1.5~2倍 It-free life: 00次	接 触 电 ≤200mΩContact resistance≤200m 触点弹力≤10ms Contact bounce≤10ms 按力:初值的 Operating Force: initial value±30% 项目 3,4.1,4.2,4.3	±30% 3	
2 7. 焊	振动 Vibra 接条件:	tion	 根据以下给定条件进行测试: Measurement shall be made following the test set forth below: (1) 振动频率范围: 10~55~10Hz 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) 测试时间: 每次 2hours. 					
	·接东什:)ERING CO	NDITION	IS:					
7.1	手工; Hand so	焊接	请按以下条件 (1) 焊锡温度: (2) 连续焊接 Please practio (1) Soldering	≤ <u>350</u> ℃	Max.			
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	GA GA	NGY	UAN	APP	ROVAL	SPE	ECIFICAT	ONS
CUSTOMER CUSTOMER'S		S P/N G	GYE'S P/N PF		RODUCT	REVISION		
				к	AN0642	TAC	CT SWITCH	A
项目 ITEM			推荐条件 Recommended conditions					
7.2	回流焊 Conditions reflow	for	温)	度(*C) 180 150	120sec max.(预 3 to 4 m 炉内通过	nin.	260°C 230°C 40s max	nax. 3sec max. — 时间
说明:	After 1.2 在使 In the 1.3 浸焊	switche 用烙铁 e case (后,注;	的情况下,焊 of using soldil 意不要在顶部	rred,please be ca 锡温度应在 380℃ ng iron, solding c 施加负荷。	C以下、3 秒以 Inditions shall	内。 be 380℃	hes with solvent. C max and 3 sec. o on the knobs of	
	2 设计 2.1 印刷	中应注 基板的	意的事项(De: 安装孔尺寸参	sign instruction	5):			SWILCHES.
	Plea 3.2 开关:	不要施 ise be 受焊后	加超负荷的压 cautions not t ,印刷基板注					
	3.3 保管 Pres	[·] 时尤其 servatio	其应注意避开 on under high	temperature and	^{虫性气体的环步} high high hum	竟。如需 nidity or (青不要打开包装箱。 Id be avoided
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CUSTOMER	CUSTOME	R'S P/N	GYE'S P/N	PROD	UCT	REVISION	
			KAN0642	TACT SV	WITCH	А	
	5 4 3 2 1 0-0	Ø3.5 6.6 8±0.2	0.3 0.3		0.4M	<u>AX</u>	
	安装尺寸						
	-	<u></u>		₽ ()			
	lerance: ±0.1mm				1		
NO.	NAME	MATERIAL	NATIONALITY	QTY.	FINI	SHING	
1	TERMINAL	Brass	China		Silver	plating	
2	CASE	-PPA	China	1	brow	n/Black	
3	CONTACT	F.Ag/Cu	Japan	1	Contact side	e silver plating	
4	COVER	SPCC	China	1	CuSn	plating	
5	STEM	PPA	Japan	1	Custome	er Demand	