

标准&定制开关连接器产品制造商

DONG GUAN XI BANG ELECTRONICS CO., LTD.

规 格 书 SPECIFICATION

CUSTOMER NAM	客户	名称:	
CUSTOMER NO.	客户组	编号:	
SERIES	系	列:	双行程轻触开关
MODEL NO.	型	号:	XB-TS-074
DRAWING NO.	图形	号 :	Tact Switches

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求,敬请确认此规格书内所有项目 并签名和盖章后回传给我司,以作我司产品制作之

依据和存档之用, 多谢合作!

EXAMINE & APPROVAL 审批

APPROVE 接受	,		NOT APPROVE 不接受
SIGNATURE 签署	STAMP盖章	DATE日期	

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2022. 06. 08	2022. 06. 08	2022. 06. 08	2022. 06. 08

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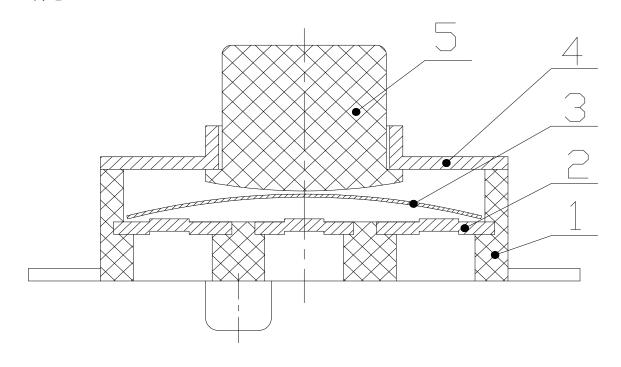
required)

MAiL: HK@ALPSR. CN XB@ALPSR. CN Quality core! Afterburner for Made in China!

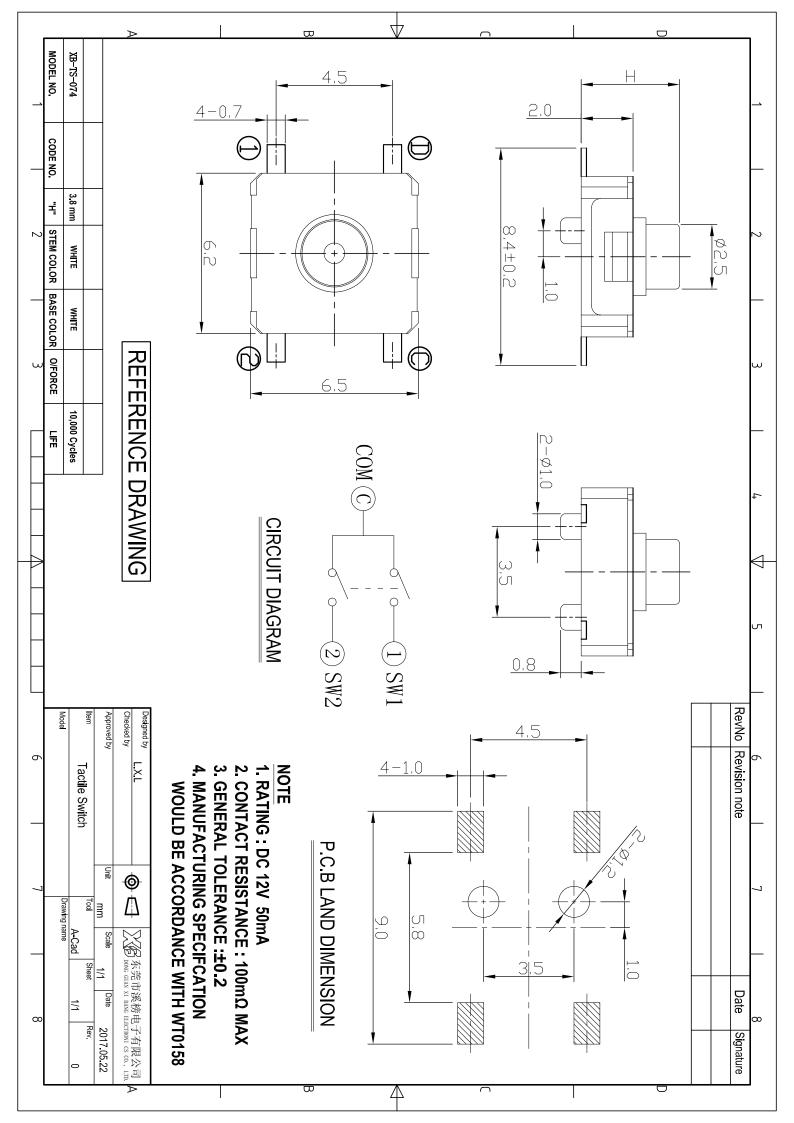
	敖	见格 承	认书			规格书编号 2020030404
品名	6.2X6.5 Flat	Туре	型 号		XB-TS-074	1/9
1.1 S k 1.2 C 1.3 S	ey top(TACT SWITCH Deperating Temperatur -20 to+70 Storage Temperature I -40 to+85°	ecification co ES:MECHAN e Range 使身 C(normal hu Range 保存為 C(normal hu	TCAL CO 用温度范 imidity, n 温度范围 midity, n	NTACT).出 国 ormal pre	:规范含盖单推标 ess.) 正常湿度 ss.)	key switches which have no 兩和无推柄的轻触开关要求 E,标准压力 nditions unless otherwise
I	pecified: 测试和计量 Normal temperature Normal humidity (r Normal pressure (p) n case any question a conditions: Temperature Relative humidity Pressure	e (temperature) elative huminessure 860 trises from the (20 ± 2) (65 ± 5)	re 5 to 35 dity 45 to o 1060 m e judgme °C)	℃) 标 85%) 正 bars) 枋 nt made, 温 相	A准压力 tests shall be co 度 对湿度	onducted in the following
	e Of Actuation 动	Tactile fee				
3. Cont	tact Arrangement		ontact ar	rangemen		1 回路 he assembly drawings.)
4. Max	imum Ratings				最大额定值最小额定值	

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5.2 构造:



序 号	零部件名称	数量	材料名称	表面处理	备注
1	BASE	1	LCP		WHITE
2	TERMINAL	1	BRASS	Ag plating	
3	CONTACT	1	SUS	Ag plating	
4	COVER	1	SUS		
5	STEM	1	LCP		WHITE
6					
7					
8					



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6. General Specification 性能

6.1 电气的性能

0.1	电气的性能		
It	tem 项目	Test Condition 测试条件	Requirements 要求
6.1.2	Contact Resistance 接 电阻	Applying static load twice the actuating force to the center of the stem, measurements shall be made with a 1 kHz small-current contact resistance meter. 用两倍的动作力作静负载施加于按钮的中心,并用 1 千赫小电流接触电阻仪测量	100mΩ以下
6.1.2	Insulation Resistance 绝缘电阻	Measurements shall be made following application of DC <u>100</u> V potential between terminals and between individual terminals and frame for one minute.在端子与端子之间,端子与外壳之间施加DC100V, 一分钟	100MΩ以上
6.1.3	Dielectric Withstanding Voltage 电气耐压	AC <u>250</u> V (50Hz or60Hz) shall be applied between terminals and between individual terminals and frame for one minute. 在端子与端子之间,端子与外壳之间施加 AC250V(50HZ-60HZ)	There shall be no breakdown. 无击穿、闪烁现象
6.1.4	Bounce 抖动	Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operations per sec), Bounce shall be tested when "ON" and "OFF". 在正常使用中(以每秒 3-4 次周期)轻轻地在手柄中心加力,在通与断瞬间测试抖动 Switch Oscillograph 示波器	10mS 以下

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6.2 机械的性能

	机械的性能		
I	tem 项目	Test Condition 测试条件	Requirements 要求
6.2.1	Actuating Force 动作力	Place the switch such that the direction of switch operation is vertical and then gradually increase the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured.开关的动作方向为垂直放置开关向推柄中心逐渐地增加负荷直到推柄停止时所测量的最大负荷	1 st: $\underline{100} \pm \underline{40} \text{ gf}$ 2 st: $\underline{250} \pm \underline{80} \text{ gf}$
6.2.2	Travel 行程	Place the switch such that the direction of switch operation is vertical and then apply a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to a stop shall be measured. 开关的动作方向为垂直放置开关,并以双倍动作力的静负荷作用推柄中心,测量推柄从开始到停止的行程距离	1 st: $0.3 \pm 0.1 \text{ mm}$ 2 st: $0.55 \pm 0.1 \text{ mm}$
6.2.3	Return Force 返回力	The sample switch is installed such that the direction of switch operation is vertical and, upon depression of the stem in its center the whole travel distance, the force of the stem to return to its free position shall be measured. 开关的动作方向为垂直放置开关,在已有行程的推柄中心向上减小压力,推柄回到自由位置时所测量到的力	<u>40_</u> gf min
6.2.4	Static Strength 静止强度	Placing the switch such that the direction of switch operation is vertical, a static load of <u>3</u> kgf shall be applied in the direction of stem operation for a period of <u>60</u> seconds. 开关的动作方向为垂直放置开关,在推柄动作方向施加 3KG 的静负荷, 60 秒时间	There shall be no sign of damage mechanically and electrically. 无机械的和电气的损伤迹象

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6.3 使用耐久性能

6.3	6.3 使用耐久性能					
It	tem 项目	Test Condition 测试条件	Requirements 要求			
6.3.1	Operating Life 动作寿命	Measurements shall be made following the test set forth below: 按下列条件进行寿命试验 (1)DC 5V 5mA resistive load. DC 5V 5mA 阻性负载 (2)Rate of operation: 1 to 2 operations per second 动作频率:1-2 次/每秒 (3)Depression:	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Actuating force: 动作力+ 30 %or- 30 %of initial force. ± 30 %初始动作力 Item $6.1.3$ Item $6.2.2$			
6.3.2	Moisture Resistance 耐潮湿	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐潮湿试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1) Temperature: 60±2℃ 温度 (2) Relative humidity: 90 to 95% 相对湿度 (3) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3			
6.3.3	Low Temperature Resistance 耐低温	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐低温试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1)Temperature: -40±2℃ 温度 (2) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3			
6.3.4	Heat Resistance 耐热	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐热试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1)Temperature: 85±2°C 温度 (2) Time: 96 hours 时间	Contact resistance: 200 m Ω Max. 接触电阻 Insulation resistance: 50 M Ω Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3			

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Item 项目		Test Condition 测试条件	Requirements 要求
6.3.5	Change of Temperature 温度循环	Following ten cycles of high temperature test .The Sample shall be Placed in Normal temperature and humidity Conditions for one hour before measurements are made. During this test, water drops shall be removed. 样品按下列条件进行高低温循环试验,试验后在正常温度和温度条件下放置 1 小时后测定 A: +85±2℃ B: -40±2℃ C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时 Cycling: Five cycles 周期: 5 次	Contact resistance: 200 mΩ Max. 接触电阻 Insulation resistance: 50 MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.6	Salt Spray Test 盐雾试验	The salt spray test shall be conducted at the following conditions: 样品按下列条件进行盐雾试验 (1)Density(浓度): 溶液(5±1)% Nacl (质量百分比) (2)Temperature: 35±2℃ 温度 (3) Time: 48 hours 时间	金属件无发黄、生锈
6.3.7	Vibration Resistance 耐振动	Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验 (1)Range of oscillation: 10 to 55Hz 频率范围 (2)Amplitude,pk-to-pk:1.5 mm 振幅:峰-峰 1.5mm (3)Cycle of sweep: 10-55-10Hz in one minute, approx.扫描周期: 10-55-10Hz 约一分钟内 (4)Mode of sweep: Logarithmically sweep or uniform sweep. 扫描方式: 对数扫描式恒定扫描 (5)Direction of oscillation: 振动方向 Three mutually perpendicular directions, including the direction of stem travel. 3 个相互垂直方向,包括推柄行程方向 (6)2 hours each ,for a total of 6hours.每方向 2 小时. 共 6 小时	Item 6.1 Item 6. 2.1、6.2.2

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Item 项目		Test Condition 测试条件	Requirements 要求
6.3.8	Impact Shock Resistance 抗冲击	Measurements shall be made following the test set forth below: 按下列条件进行冲击试验 (1)Acceleration: 80g 加速度 (2)Cycles of test: 3 cycles each in 6directions, for a total of 18cycles 试验次数: 每个方向 3 次, 6 个方向共 18 次	Item 6.1 Item 6. 2.1、6.2.2

7. 焊接	条件:		
Item 项目		Recommended conditions 推荐条件	
7.1	Hand soldering 手工焊接	Please practice according to bellow conditions: (1)Soldering temperature: ≤260 ℃ (2)Continuous soldering time: ≤5 S (3)Capacity of soldering iron: ≤30 W 请按以下条件进行焊接: (1)焊锡温度: ≤260 ℃ (2)连续焊接时间: ≤5 S (3)电铬铁的功率: ≤30 W	
7.2	Automatic flow soldering 自动焊接		

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8. Other Precautions 其他注意事项:

- (1) Following the soldering process, do not try to clean the switch with a solvent or the like. 进行焊接过程中,不可以用溶剂或类似品清洗开关
- (2) Safeguard the switch assembly against flux penetration from its topside. 防止助焊剂从开关的顶端渗入
- (3) Please have the products keep in close status and the storage time is 90 days guaranty after delivering the goods at most.

交货后保证开关处于封密状态并库存时间 90 天以下

9. Reel Packaging 盘装

9.1 Scope 范围

This specification covers the requirements of the reel packaging for SMT standard type of tact switches. 该规范包含 SMT 标准型拨动开关的绕带封装的要求

9.2 Packaging Materials 封装材料

Item	项目	Description 说明
Package	包 装	Cartons 卡通箱
Reel	转 轴	Delete Cartons 可降解箱
Carrier Tape	载 带	Polypropylene 聚丙烯

9.3 Packaging Quantity 封装数量

- 9.3.1 The number of the reels. 转轴数量
 Twenty (20) reels at maximum. Which contain 80K pcs switches
 Shall be packed in a package. 一箱装 20 盘,有 20K 只产品
- 9.3.2 The number of the switches. 产品数量 4K pcs switches shall be packed in a reel. 一个转轴包 1K 只产品
- 9.3.3 It should be noted that we regard two cartons 对出口包装需注意用两个箱子包装 mentioned above as on package for export.