



**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 NAME 客户名称: \_\_\_\_\_  
 CUSTOMER NO. 客户编号: \_\_\_\_\_  
 SERIES 系列: 轻触开关 6X6X5.0 J Type  
 MODEL NO. 型号: XB-TS-1102S-4PL  
 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

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SIGNATURE 签署      STAMP 盖章      DATE 日期	

PREPARED BY. 制表人	CHECKED BY. 校对	APPROVED BY. 审核	APPROVAL BY. 批准
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**东莞市溪榜电子有限公司**

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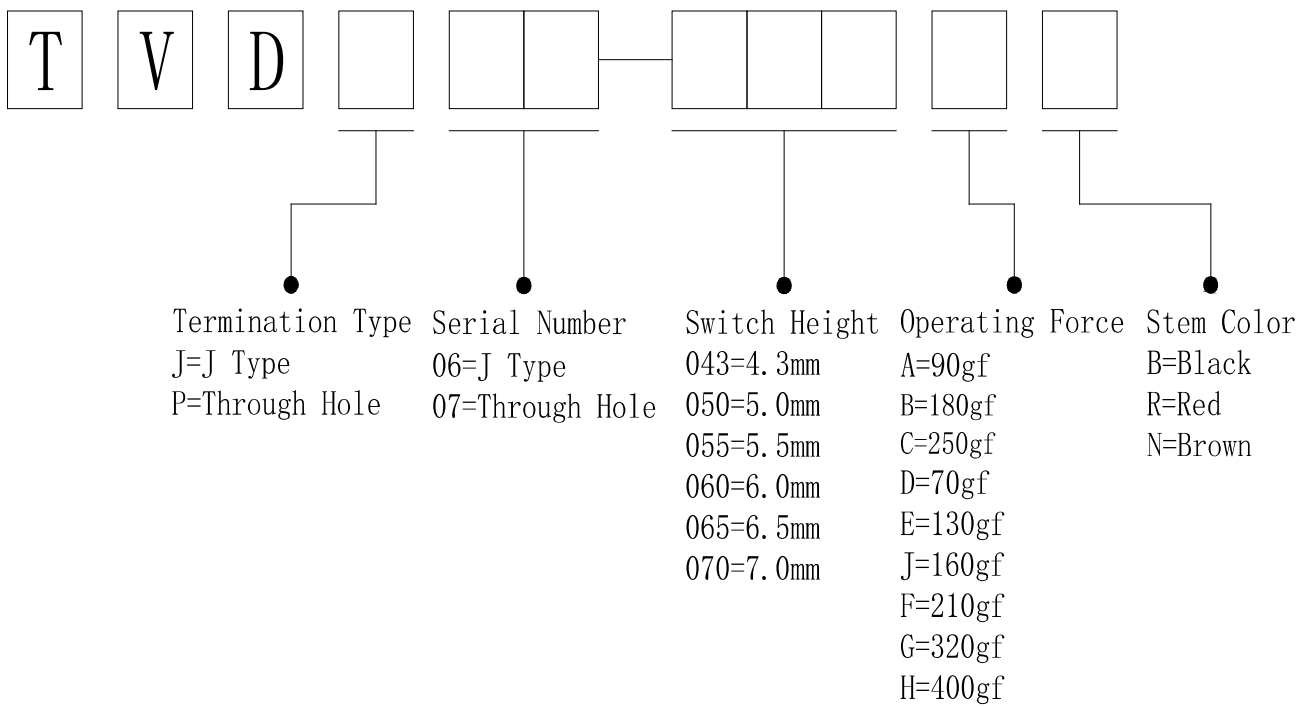
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AccountNumber: 705540238  
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 BankCode: 006  
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 SWIFT/BIC: CITIHKHX (CITIHKHXXXX\*If 11 characters are required)

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

# HOW TO ORDER



<b>规格承认书</b>			规格书编号 2011101401
品名	6X6X5.0 J Type	型号	XB-TS-1102S-4PL 1/10

**1.General specification 基本说明**

1.1 Scope 范围 This specification covers the requirements for single key switches which have no key top(TACT SWITCHES:MECHANICAL CONTACT).此规范含盖单推柄和无推柄的轻触开关要求

1.2 Operating Temperature Range 使用温度范围  
-40 to+85°C(normal humidity, normal press.) 正常湿度, 标准压力

1.3 Storage Temperature Range 保存温度范围  
-40 to+85°C(normal humidity, normal press.)

1.4 Test Conditions 测试条件  
Tests and measurements shall be made in the following standard conditions unless otherwise specified: 测试和计量按下列标准条件除非特殊说明

Normal temperature (temperature 5 to 35°C) 标准温度

Normal humidity (relative humidity 45 to85%) 正常湿气

Normal pressure (pressure 860 to 1060 mbars) 标准压力

In case any question arises from the judgment made, tests shall be conducted in the following conditions:

Temperature (20±2°C) 温度

Relative humidity (65±5%) 相对湿度

Pressure (860 to 1060 mbars) 压力

**2.TYPE OF ACTUATION 动作类型**

Tactile feedback 轻触返回

**3.CONTACT ARRANGEMENT 1 poles 1 throws 接触形式 1 接点 1 回路**

(Details of contact arrangement are given in the assembly drawings.)  
细接点形式在装配图中

**4.MAXIMUM RATINGS DC 12 V 50 mA 最大额定值**

DC 1 V 10 μ A 最小额定值

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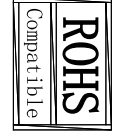
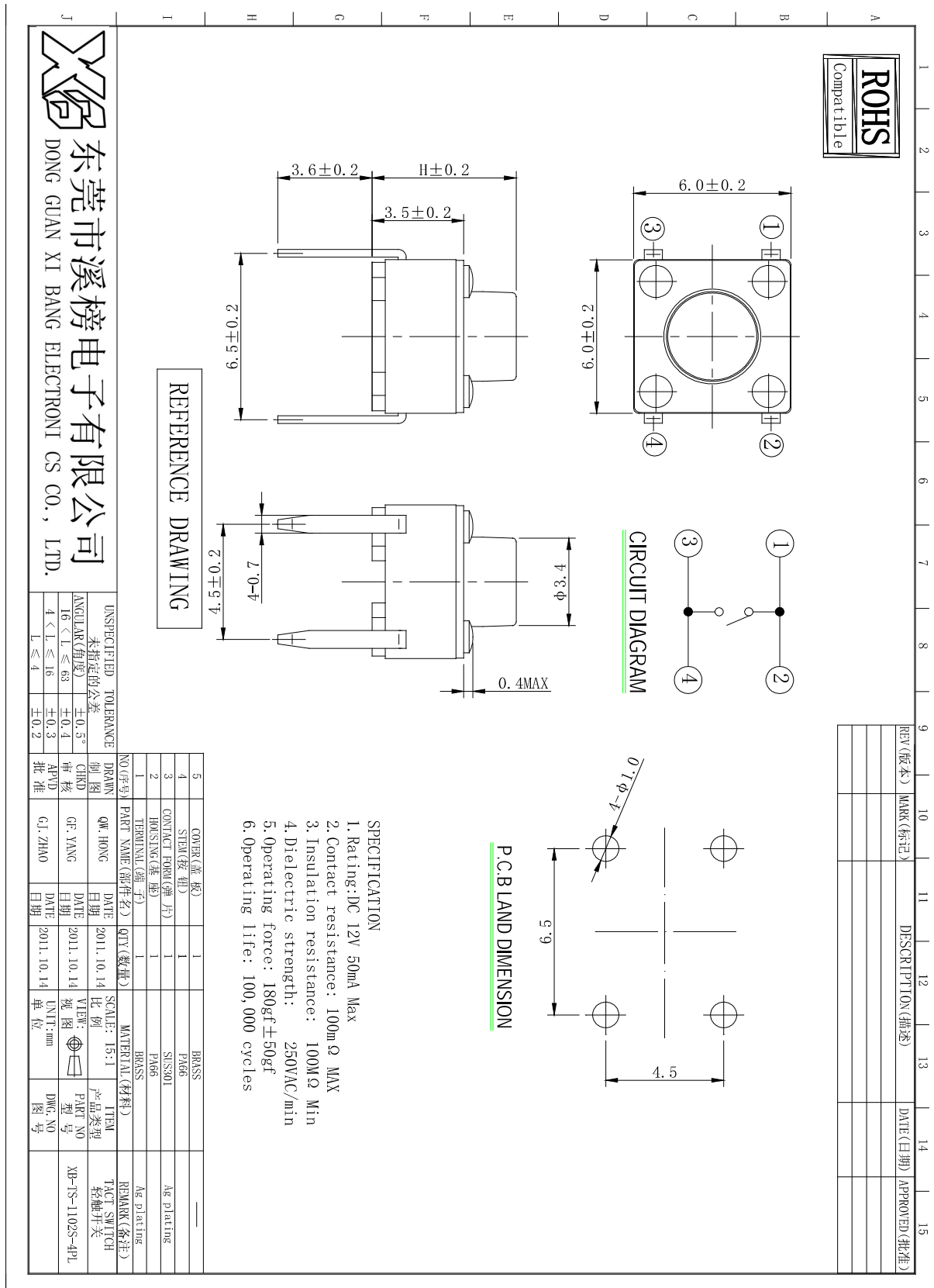
型号

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## 5. 外形、结构:

### 5.1 外形图:



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REFERENCE DRAWING

CIRCUIT DIAGRAM

P.C.B LAND DIMENSION

- SPECIFICATION
1. Rating: DC 12V 50mA Max
  2. Contact resistance: 100mΩ MAX
  3. Insulation resistance: 100MΩ Min
  4. Dielectric strength: 250VAC/min
  5. Operating force: 180gf±50gf
  6. Operating life: 100,000 cycles

UNSPECIFIED TOLERANCE	未指定的公差
ANGULAR(角度)	±0.5°
16 < L ≤ 63	±0.4
4 < L ≤ 16	±0.3
L ≤ 4	±0.2

NO(序号)	DRAWN	DATE	SCALE: 15:1	MATERIAL(材料)	ITEM	REMARK(备注)
5	COVER(盖板)	2011.10.14	1:1	BRASS		
4	STEM(按钮)	2011.10.14	1:1	BRASS		Ag plating
3	CONTACT FORM(弹片)	2011.10.14	1:1	SPSS01		Ag plating
2	HOUSING(壳体)	2011.10.14	1:1	P466		
1	TERMINAL(端子)	2011.10.14	1:1	BRASS		Ag plating

NO(序号)	CHKD	DATE	SCALE: 15:1	MATERIAL(材料)	ITEM	REMARK(备注)
4	审核	2011.10.14	1:1	BRASS		
1	批准	2011.10.14	1:1	BRASS		

NO(序号)	DATE	SCALE: 15:1	MATERIAL(材料)	ITEM	REMARK(备注)
4	2011.10.14	1:1	BRASS		
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2011101401

品名

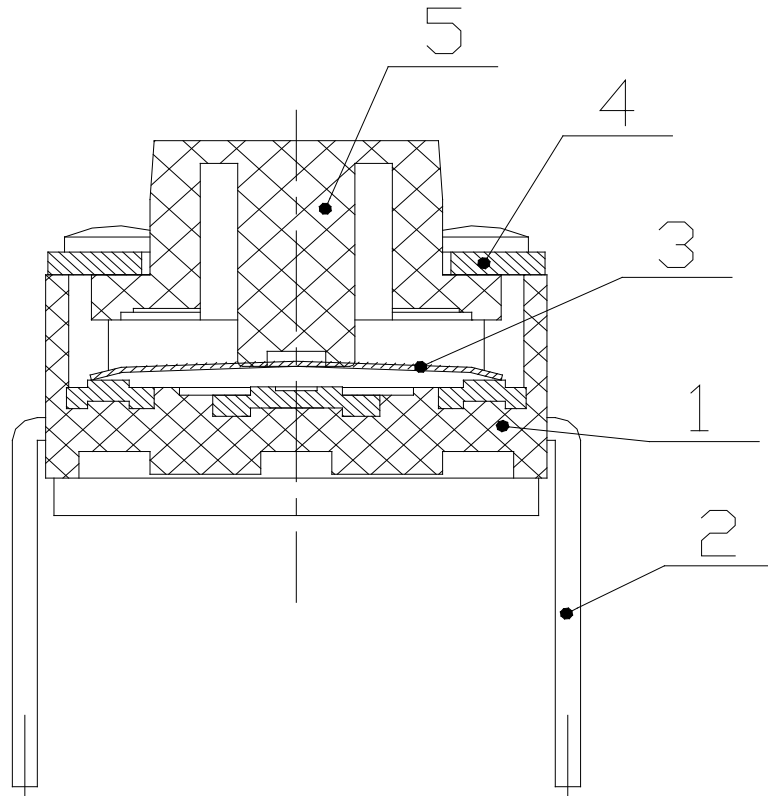
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5.2 构造:



序号	零部件名称	数量	材料名称	表面处理	备注
1	BASE	1	PA66		
2	TERMINAL	1	BRASS	Ag plating	
3	CONTACT	1	SUS301	Ag plating	
4	COVER	1	BRASS	C.T plating	
5	STEM	1	PA66		
6					
7					
8					

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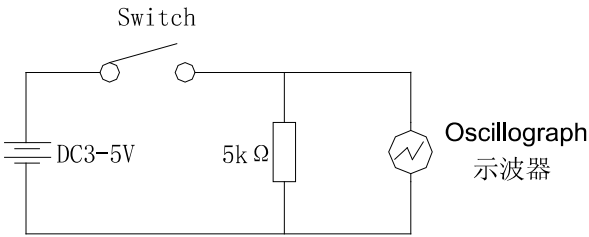
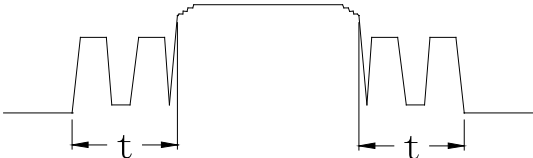
型号

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## 6. General specification 性能

### 6.1 电气的性能

Item 项目	Test Condition 测试条件	Requirements 要求
6.1.1 Contact Resistance 接触电阻	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. 用两倍的动作用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 DC100V 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 250 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   t 为触点抖动时间	5mS 以下

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## 6.2 机械的性能

Item 项目		Test Condition 测试条件	Requirements 要求
6.□.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	<u>180</u> ± <u>50</u> 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	<u>0.25</u> ± <u>0.10</u> 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的力	<u>30</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

Item 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:2 to 3 operations per second 动作频率:2-3 次/每秒 (3)Depression: <u>270</u> gf 减压力 (4)Cycles of operation: $10 \times 10^4$ cycles 动作次数: $10 \times 10^4$ 次	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Actuating force: 动作力 + <u>30 %</u> or - <u>30%</u> 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: $60 \pm 2^\circ\text{C}$ 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: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ 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: $-40 \pm 2^\circ\text{C}$ 温度 (2) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ 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: $85 \pm 2^\circ\text{C}$ 温度 (2) Time: 96 hours 时间	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3



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品名

6X6X5.0 J Type

型号

XB-TS-1102S-4PL

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Item 项目	Test Condition 测试条件	Requirements 要求
<p>6.3.5</p> <p>Change of Temperature 温度循环</p>	<p>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湿度条件下放置 1 小时后测定</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>温度(°C)</p> <p style="text-align: center;">时间(hour)</p> </div> <div style="width: 45%;"> <p>A: +85±2°C B: -40±2°C C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时</p> </div> </div> <p style="text-align: center;">Cycling: Five cycles 周期: 5 次</p>	<p>Contact resistance: <u>200</u> mΩ Max. 接触电阻</p> <p>Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻</p> <p>Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3</p>
<p>6.3.6</p> <p>Vibration Resistance 耐振动</p>	<p>Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验</p> <p>(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</p>	<p>Item 6.1 Item 6. 2.1、6.2.2</p>

# 规格承认书

规格书编号  
2011101401

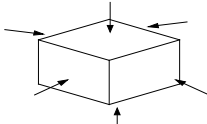
品名

6X6X5.0 J Type

型号

XB-TS-1102S-4PL

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Item 项目	Test Condition 测试条件	Requirements 要求
6.3.7	<p>Impact Shock Resistance 抗冲击</p> <p>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</p> <div style="text-align: center;">  </div>	<p>Item 6.1 Item 6. 2.1、6.2.2</p>

## 7. 焊接条件:

Item 项目	Recommended conditions 推荐条件
7.1	<p>Hand soldering 手工焊接</p> <p>Please practice according to bellow conditions:                      (1)Soldering temperature :<math>\leq 350^{\circ}\text{C}</math>                      (2)Continuous soldering time:<math>\leq 3\text{ S}</math>                      (3)Capacity of soldering iron:<math>\leq 60\text{ W}</math>                      请按以下条件进行焊接:                      (1)焊锡温度: <math>\leq 350^{\circ}\text{C}</math>                      (2)连续焊接时间: <math>\leq 3\text{ S}</math>                      (3)电烙铁的功率: <math>\leq 60\text{ W}</math></p>

<b>规格承认书</b>				规格书编号 2011101401
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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

# 规格承认书

规格书编号

2011101401

品名

6X6X5.0 J Type

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## 9. GENERAL 通用

### 9.1 SCOPE 范围

This specification covers the requirements for 6.0×6.0 series type of tact switches.

本规格涵盖6.0×6.0系列轻触开关的要求

### 9.2 PACKING MATERIAL 包装材料

ITEM	SUBSTANCE
CARTON BOX 卡通箱	CORRUGATED PAPER 瓦楞纸
PACKING CTN 包装盒	CORRUGATED PAPER 瓦楞纸
PLASTIC BAG 塑料袋	NORMAL PLASTIC 普通塑料

### 9.3 PACKING UNIT 包装单位

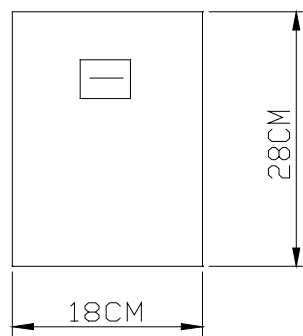
9.3.1 The capacity of packing ctn. 包装盒容量

Every carton box contains 30 packing box at most. 每个外箱内最多包括 30个包装盒

9.3.2 Every packing carton contains 2K pcs goods at most. 每个包装盒内包括 2K pcs产品

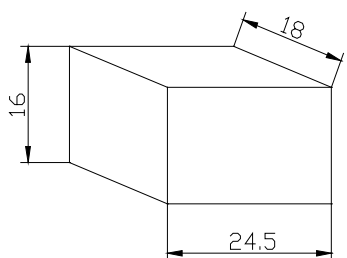
9.4 Every plastic bag contains 1000 pcs

每个塑料袋容纳 1000 pcs

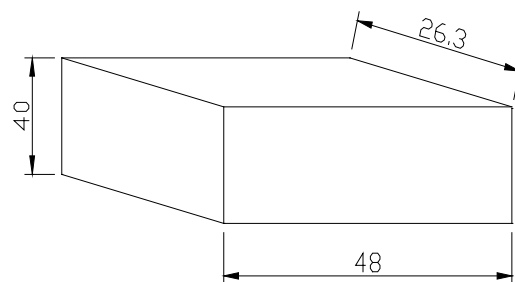


Pulling-out direction

### 9.5 THE SHAPE AND DIMENSION OF PACKING CARTON. 包装盒的外型及尺寸



(PACKING CARTON)



(CARTON BOX)