



# 规格书

## SPECIFICATION

CUSTOMER NAME 客户名称: \_\_\_\_\_

CUSTOMER NO. 客户编号: \_\_\_\_\_

SERIES 系列: **按钮开关**

MODEL NO. 型号: \_\_\_\_\_

DRAWING NO. 图形号: **Button Switch**

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	

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**  
Dong guan Xi Bang Electronics Co., Ltd  
地址：广东省东莞市黄江镇合路工业区  
Address: He Lu Industrial Zone, Huangjiang Town, Dongguan City, Guangdong Province  
Tel: (0769)82055138/82056828  
Fax: (0769)83663452  
邮箱: admin@alspr.com    switch@alspr.com  
<http://www.alspr.cn/>    <http://www.alspr.com/>

**Dong Guan XB Electronics Co., Ltd**  
Account Number : 705540238  
Bank Name : Citibank N. A., Hong Kong Branch  
Country/Region: Hong Kong  
Bank Code: 006  
Bank Address : 3 Garden Road, Central, Hong Kong  
SWIFT/BIC : CITIHKHX (CITIHKHXXXX\* If 11 characters are required)  
MAil : HK@ALPSR.CN    XB@ALPSR.CN  
Quality core! Afterburner for Made in China!



# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO., LTD

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IEC 61058 按钮开关 XB-PS102系列规格书

2022/5/1

电气额定值 Rating	UL/cUL 16GPA 250VAC T105/55 TUV 16A 250VAC T105/55 CQC 16A 250VAC T105/55
标准Standard	

### 1. 概述 General :

1.1适用范围: 本规格主要适用于一般电子设备上之IEC61058电源开关。

Application: This specification is applied to the IEC61058 power Switches used in electronic quipment.

1.2使用温度范围:  $-10\sim 105^{\circ}\text{C}$ 。

Operating Temperature:  $-10\sim 105^{\circ}\text{C}$

1.3产品测试条件: 环境温度 $5\sim 35^{\circ}\text{C}$ , 相对湿度: 45%-85%RH, 气压: 86Kpa-106Kpa

Test Conditions: Temperature Range:  $5\sim 35^{\circ}\text{C}$ ; Humidity Range: 45%-85%RH; Air pressure: 86Kpa-106Kpa

### 2. 外观、结构、尺寸Appearance Construction and Dimensions

2.1外观: 各部分之加工须良好, 开关不能生锈、刮伤、裂痕、电镀不良及剥离等现象产生。

Appearance: Switches shall have good finishing, and shall have no rust, crack or plating failure.

2.2结构与尺寸: 依照产品图面。

Construction and Dimensions: As per product drawing.

### 3. 电气性能Electrical Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
3.1	接触阻抗 Contact Resistance	在无负载条件下, 操作次数后, 用电压降法, 以1A, 5V DC进行测试 Shall be measured at 1A, 5V DC by voltage drop method after some operations without load	$\leq 50\text{m}\Omega$
3.2	绝缘阻抗 Insulation Resistance	以500VDC之电流于下述位置测试1分钟 $\pm 5$ 秒。 测试位置: 1. 在开路端子之间 2. 在端子与塑胶外壳之间 Test with DC 500V at following position for 1min $\pm 5$ s. Test position: 1. Between all terminals of any open circuit. 2. Between terminals and plastic base.	100M $\Omega$ 以上 More than 100M $\Omega$
3.3	耐电压 Withstand Voltage	将产品施以交流电压于下述位置并以下列条件测试之。 开路端子之间: 1500V AC(50-60Hz) 1min 端子与塑胶外壳之间: 3000V AC(50-60Hz) 1min 漏电流: 1mA Test with AC current at following position as following condition. Between all terminals: 1500V AC(50-60Hz) 1min Between terminals and plastic base: 3000V AC(50-60Hz) 1min Leakage Current: 1mA	不能有击穿、电弧导通或火花产生。 Any dielectric breakdown or arc shall not occur.



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### 4. 机械性能 Mechanical Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
4.1	操作力 Operating force	沿操作方向施加静负荷 A static Load shall be applied to the tip of actuator in operating direction	9~13N
4.2	插片端子强度 TABS Terminal Strength	80N的力垂直作用于端子顶部1分钟。 A 80N shall be applied to the top of terminal in a desired direction for 1min.	开关的端子不应出现明显的位移和损伤 No significant displacement or damage shall occur.

### 5. 耐久性 Durability Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
5.1	可焊性 Soldering Ability	将端子顶部浸入温度为255℃±5℃的焊锡池中约2mm深，浸入时间为3±0.5秒。 Dip the top of terminals about 2mm deep in the solder bath of 255℃±5℃ for 3±0.5seconds.	浸渍部分≥95%的面积吃锡 More than 95% are covered by solder.
5.2	耐焊性 Solder Heat Resistance	将端子顶部浸入温度为255℃±5℃的焊锡池中约2mm深，焊锡温度和时间如下： Dip the top of terminals about 2mm deep in the solder bath. The Soldering type and test time is following. 锡炉式Dip Soldering: 260±5℃, 3±1sec; 手焊式Manual Soldering: 350±10℃, 3±0.5sec	不应有外观明显变形和作动功能异常现象 Product shall not have any abnormality on appearance or operating function.
5.3	寿命测试 Life Test	对开关施加相应的电流和电压进行10000次操作 Apply corresponding current and voltage to the switch for 10000 cycles operations	开关应通断正常，满足3.2和3.3要求 Switch shall function properly at rated current, tlectrical performance standard 3.2 & 3.3
5.4	耐湿性 Humidity Endurance	在40±2℃相对湿度90~95%下放置 96小时试验后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under 40±2℃ and 91-95%RH condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.
5.5	耐热性 Heat Endurance	在105±2℃条件下放置 96 小时后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under 105±2℃ condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.



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项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
5.6	耐寒性 Cold Endurance	在-20±2℃条件下放置 96 小时后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under -20±2℃ condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.
5.7	盐雾测试 Salt Spray Test	测试条件：温度35±2℃；盐水浓度5%±1；PH值6.5~7.2；时间24小时。以清水将产品表面冲洗干净，置于室温1小时后检查之。 Test condition: Temperature: 35±2℃, Salt Water concentration: 5%±1, PH:6.5~7.2. After storing product in this condition for 24 hours, to wash product by water and restore in room temperature for 1h. Check the product after removing globules on surface.	无明显氧化或生锈现象发生 The product shall not have any rust or crack on plating.
5.8	球压测试 Ball-Pressure Test	在125±2℃条件下放置 1 小时后，以20N负载重物，顶端为一直径5mm的球体测试之。 After storing the product under 125±2℃ condition for 1 hour, test the product by a 5mm Ball Pressure Test machine with 20N force from vertical direction on Plastic.	压痕直径≤2mm Diameter of the impression≤ 2mm

### 6. 安全性能Safty Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
6.1	灼热丝试验 Glow Wire Test	以温度750℃之灼热丝，接触产品30秒，之后移开。 Touch the specimen with a 750℃ glow wire last 30 second. Check the specimen after moving away the glow wire.	火焰在30秒内熄灭，滴落的残焰不能使绢纸燃烧。 Burning stops within 30 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.
6.2	防火等级 Safety of Flammability	将样本点燃后，依据下列情况判断防火等级。 94V-2: 30秒内停止燃烧，允许滴下燃烧的颗粒。 94V-1: 30秒内停止燃烧，允许滴下不燃烧的颗粒。 94V-0: 10秒内停止燃烧，允许滴下不燃烧的颗粒。 Burning the specimen and check the condition by following: V-2: burning stops within 30 seconds; drips of flaming are allowed. V-1: burning stops within 30 seconds; drips of particles allowed as long as they are not inflamed. V-0: burning stops within 10 seconds; drips of particles allowed as long as they are not inflamed.	产品防火等级满足V-2~V-0 Product satisfied V-2 to V-0 condition.



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### 7. 环保要求 environmental requirement:

项次 No.	项 目 Property	判定标准 Standards
7.1	RoHS 2.0	此产品遵循RoHS2.0对有害物质管控标准。镉 $\leq$ 100PPM, 铅 $\leq$ 1000PPM, 汞 $\leq$ 1000PPM, 六价铬 $\leq$ 1000PPM, 多溴联苯 $\leq$ 1000PPM, 多溴二苯醚 $\leq$ 1000PPM, 邻苯二甲酸二(2-乙基己基)酯 $\leq$ 1000PPM, 邻苯二甲酸丁酯苯甲酯 $\leq$ 1000PPM, 邻苯二甲酸二丁酯 $\leq$ 1000PPM, 邻苯二甲酸二异丁酯 $\leq$ 1000PPM。 The product follow the RoHS2.0 requirement. Cd $\leq$ 100PPM, Pb $\leq$ 1000PPM, Hg $\leq$ 1000PPM, Cr <sup>6+</sup> $\leq$ 1000PPM, PBBs $\leq$ 1000PPM, PBDEs $\leq$ 1000PPM, DEHP $\leq$ 1000PPM, BBP $\leq$ 1000PPM, DBP $\leq$ 1000PPM, DIBP $\leq$ 1000PPM
7.2	REACH Compliance	此产品遵循欧盟颁布之REACH管制物质标准。 The product follow the European Union REACH requirement.

#### 注意事项 Note

1. 应避免使用也太焊剂, 否则易腐蚀;

To avoid causing corrosion, liquid soldering flux shall not be used in soldering process;

2. 如长期储存超过6个月以上, 应用塑料袋将产品密封, 且放在阴暗干燥处。

If product are going to store more than 6 months, product should be packaged in a plastic bag and placed in dark and dry place.