

Product Specifications

产 品 承 认 书

客 户 Customer: _____

部品编号 Part Number: EL-3601

产品名称 Description: _____

客户料号 Code NO: _____

样品提供 (SAMPLE PROVIDE)		
工程 Engineering	业务 Sales	核准 Approval
卢旋	付文鹏	彭佳伟

客户承认 (CUSTOMER APPROVAL)		
工程 Engineering	品管 Q. C	核准 Approval

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产 品 承 认 书 目 录

1、封面-----1-1

2、目录-----2-2

3、技术规范-----3-7

4、产品图纸-----8-8

1、SCOPE: (适用范围)

- 1.1 This practice applies to the content 3x6x3.5 Tie Pian touch the s witch of production and inspection and testing..

本规范内容适用于本公司 3X6X3.5侧按贴片轻触开关的生产与检验测试

2、USE CONDITION: (使用条件)

- 2.1 **Ambient temperature Range:-20℃～+70℃**

环境温度: -20℃～+70℃

- 2.2 **Type of actuation: Tactile feedback**

动作类型: 轻触返回

- 2.3 **Contact arrangement 1 poles1 throws**

接触形式 1 接点 1 回路

3、Appearance and Dimension: (外观及尺寸)

- 3.1 **Appearance:Product surface without defect、dirt、crack、and mechanical damang, Contact without rust,plating not oxidized and not peeled.**

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤; 接触件无锈蚀、镀层氧化、脱落等现象.

- 3.2 **Dimension:According to drawings**

外形尺寸: 依照附图

- 3.3 **Exchangable:Exchangable with same specification products.**

互换性: 相同规格应能互换

5、Material:

材 料

P/N 零件名称	Material 材 料	Finish 表面处理	Expiain 说 明
Shrapnel 弹片	Stainless steel 不锈钢 厚 0.05mm		RoHS Comp liant
Terminal 接触脚	Brass 黄铜 厚 0.30 mm	Silver Plating:3~4 μ m 镀银: 3~4 μ m	
Lap 盖板	Brass 黄铜 厚 0.25 mm	Tin Plating:3~4 μ m 镀锡: 3~4 μ m	
Button 按钮	PPA UL94V-0	Color:Black 颜色: 黑色	
Foundation 底座	PPA UL94V-0	Color:White 颜色: 白色	

6、Electrical Performance:

电气性能

N0. 序号	Ltem 项 目	Requirement 技术要求
6.1	Voltage Rated 额定电压	12V AC DC
6.2	Current Rated 额定电流	0.05A AC DC
6.3	Contact Resistance 接触电阻	$\leq 0.1 \Omega$
6.4	Insulation Resistance 绝缘电阻	$\geq 100 M\Omega$
6.5	Dielectric Strength 耐 压	$\geq 250V$ AC/minute
6.6	Bounce 抖动	5m sec max

7、Mechanical Performance:

机械性能

N0. 序号	Ltem 项 目	Requirement 技术要求
7.1	Action force 动作力	$250 \pm 30gf$
7.2	To force 返回力	$100 \pm 30gf$ min
7.3	Still strength 静止强度	Push the handle in the direction of movement imposed 3kg static load acts, 60 seconds is not mechanical and electrical damage phenomenon 在推柄动作方向施加 3KG 的静负荷力, 60 秒时间无机械和电气的损伤现象
7.4	Stem Strength 推柄强度	$\geq 3kgf$
7.5	Travel 行程	$0.25 \pm 0.1mm$
7.6	Life 使用寿命	≥ 30000 次

8、Endurance Characteristics:

环境性能

N0. 序号	Ltem 项 目	Requirement 技术要求
8.1	Soldering rest 可焊性	Time: $2.5 \pm 0.5S$ 时间: $2.5 \pm 0.5S$ Temperature: $260 \pm 5^{\circ}C$ 温度: $260 \pm 5^{\circ}C$ Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$
8.2	Resistance to soldering Heat 耐焊接热	Time: $2.5 \pm 1S$ 时间: $2.5 \pm 1S$ Temperature: $260 \pm 5^{\circ}C$ 温度: $260 \pm 5^{\circ}C$ Appearance: NO Damage 外观: 无损坏
8.3	Heat test 耐热性	Time: 96h 时间: 96 小时 Temperature: $+85 \pm 3^{\circ}C$ 温度: $+85 \pm 3^{\circ}C$ Appearance: NO Damage 外观: 无损坏 Contact resistance: $\leq 0.1 \Omega$ 接触电阻: $\leq 0.1 \Omega$
8.4	Cold test 耐冷性	Time: 48h 时间: 48 小时 Temperature: $-25 \pm 3^{\circ}C$ 温度: $-25 \pm 3^{\circ}C$ Appearance: NO Damage 外观: 无损坏 Contact resistance: $\leq 0.1 \Omega$ 接触电阻: $\leq 0.1 \Omega$
8.5	Temperature Cycling 温度循环	Low temperature: $-25 \pm 3^{\circ}C$ 低温: $-25 \pm 3^{\circ}C$ High temperature: $-85 \pm 3^{\circ}C$ 高温: $-85 \pm 3^{\circ}C$ For 5 cycles. test after keeping in Normal Condition for 30 min. 5 次循环后, 放置在正常环境中 30 分钟, 进行测试 Appearance: NO Damage 外观: 无损坏 Contact resistance: $\leq 0.1 \Omega$ 接触电阻: $\leq 0.1 \Omega$

8.6	Invariab lenes humidity 恒定湿热	Temperature: $60 \pm 2^{\circ}\text{C}$ 温度: $60 \pm 2^{\circ}\text{C}$ Relative humidity: 90%-96% RH 相对湿度: 90%-96% RH Tim: 96h 时间: 96 小时 Appearance: NO Damage 外观: 无损坏 Contact resistance: $\leq 0.1 \Omega$ 接触电阻: $\leq 0.1 \Omega$ Insulation Resistance: $\geq 100 \text{M} \Omega$ 绝缘电阻: $\geq 100 \text{M} \Omega$
8.7	Salt Spray 盐雾试验	Salt concentration: $5 \pm 1\%$ 浓度: $5 \pm 1\%$ Temperature: $35 \pm 2^{\circ}\text{C}$ 温度: $35 \pm 2^{\circ}\text{C}$ Tim: $16 \pm 2\text{h}$ 时间: 16 ± 2 小时 After salt is removed by running wafer and A drop is removed ,it is measured. 把试验样品从试验箱顶悬挂下来, 采用浓度 (5 ± 1) %的氯化钠溶液, 连续雾化 16 小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物, 在常温常驻湿条件下恢复 1-2 小时, 外观无损伤 Appearance: NO Damage 外观: 无损坏 Contact resistance: $\leq 0.1 \Omega$ 接触电阻: $\leq 0.1 \Omega$

9、Packaging Transportation Storage

包装、运输、贮存

9.1 Packaging

包装

Products for the inner packing box, packing () got stuck in, and of the product name, specifications and model number of the date of production and other information

产品内包装为小纸盒包装，装（贴）入合格证，注明产品名称、规格型号、数量生产日期等信息

- (1) **Exterior package is carton, facing the packing list, the packing list marked with product name, specification model, quantity, date of dispatch.**

外包装为纸箱，贴装箱单、装箱单上注明产品名称、规格型号、数量、出货日期

- (2) **The product in the box must not rock.**

产品在箱内不晃动

9.2 Transportation

运输

Allow for any way transportation, can't get wet and mechanical in jury.

允许用任何方式运输，勿淋湿及机械性损伤

9.3 Storage

贮存

The connector of packing finished should be in the ambient temperature between -10℃ to +40℃, Relative humidity ≤ 80%. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.

包装完毕的轻触开关应在环境温度为 -10℃ ~ +40℃，相对湿度 ≤ 80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存

