

## Product Specification(产品规格书)

Issued By:  
Engineering Dept.

## Subject (主题):

Date Issued

2023/10/16

U03S0005B Connector Specification

Date Revised

2023/10/16

Document Number: PS-U03S0005B-01

Revised /Edition

A01

## 1.0 适用范围 (Scope)

此种规格包括U03S0005B 连接器规格说明.

This Specification Covers the U03S0005B Connector Specification.

## 2.0 规格与料号 (Spec and Part number)

规格内容 Specification	产品料号 Production No.	产品名称 Picture of name
USB3.0	U03S0005B	USB3.0 AF 90° L=16.70 H=6.96 端子镀金G-F 卷边

## 3.0 材质与表面处理 (Disposal of Material and surface)

规格内容 Specification	材质 Materials	表面处理 Disposal of Surface
外壳/Shell	BRASS	Nickel
端子/Terminal	Phosphor bronze	Au plating , Tin plated over nickel
主体/Housing	PA9T	UL94 V-0

(以上参数请以工程图为准/Please Refer to the Project drawing for the above Specification)

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**4.0 额定等级 (Ratings and applicable wires)**

项 目 Item	规 格 Standard	
额定电压Rated Voltage (Max.)	100V	AC/DC
额定电流Rated Current (Max.)	1.5A	
使用温度范围Ambient temperature Range	-20°C ~ +60°C	

**5.0 电气性能 (Electrical Performance)**

项 目 Item	条 件 Test Condition	规 格 Requirement
5.1 接触阻抗 Contact Resistance	在微小电流（100mA）以下测试。 Measured at small current(100mA or less).	30 milliohms Max.
5.2 绝缘阻抗 Insulation Resistance	输入500V DC 电压1分钟，按以下接触方法测试： (1) 接触端子之间 (2) 胶座与排脚之间 Apply a voltage of 500V DC for 1 MIN,to following portions after which measurement shall be made. (1) Between body and conductor. (2) Between conductors not to be contact.	100 Megohms Min.
5.3 耐电压 Dielectric Strength	输入 AC100V(50Hz) 电压，1分钟电流为0.5mA，按以下接触方式测试： (1) 排脚相互之间 (2) 排脚与外壳之间 AC 100 V(50Hz)for 1 MIN trip current:0.5mA (1)Between terminals. (2)Between individual terminals and frame.	无损毁或出现电火花 No Breakdown and Flashover

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**6.0 机械性能 (Mechanical Performance)**

项 目 Item		条 件 Test Condition	规 格 Requirement
6.1	插入力度 Connection force	依据标准做3次插拔后测定. Measurement shall be made afier connecting and disconnecting using standard plug gauge 3 times.	3.57 kgf Max.
6.2	端子保持力 Disconnection force	依据标准做3次插拔后测定. Measurement shall be made afier connecting and disconnecting using standard plug gauge 3 times.	1.02 kgf Min.
6.3	端子强度 Terminal strength	在任意一个方向的先端加上(1.0kgf)力度测试, 时间1分钟。 A static load of(1.0kgf)shall be applied to the tip of the terminal for 1 min in any direction.	端子没有裂开、松动等异常, 满足机械、电性能要求 Electrical character istics shall be satisfied without damage or excessive looseness of actuator.
6.4	测试标准状态 Standard atmospheic conditions	在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为-20℃~60℃ (2) 湿度为45%~85% (3) 气压为80Kpa~106Kpa Unless otherwise specified. The standard range of atmospheric conditions for making measurements and tests are as follows: (1) Ambient temperature: -20℃to60℃ (2) Relative humidity: 45%to85% (3) Air pressure: 80Kpato106Kpa.	

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**7.0 环境性能及其它 (Environmental Performance and Others)**

项 目 Item		条 件 Test Condition	规 格 Requirement
7.1	寿命试验 Life test	无负荷： 将结合标准（尽量接近中心点）在1分钟内以10~15次的速度，进行1500次的插入拔出。 Without load: Connection and disconnection shall be made with the mating plugs and jacks for 1500 cycles at a speed of 10 to 15 cycles/min.	(1) 接触电阻不能超过 30 milliohms. (2) 其它因满足机械、电性能要求。 (1) Contact resistance shall be 30 milliohms MAX. (2) Mechanical and electrical Characteristics shall be satisfied.
7.2	耐热试验 Heat test	放置在温度60℃中测试96小时后，再放置正常室温中1小时后测定。 The switch shall be stored at a temperature of 60±2℃ for 96 hours. And then it shall be subjected to the controlled recovery conditions for 1 hour after which measurement shall be made.	外观无异常，满足机械、电性能要求。 There shall be no damage on appearance. Mechanical and electrical characteristics shall be satisfied.
7.3	耐冷试验 Cold test	放置在温度-20±3℃中96小时，再放置常温中1小时后测定。 The switch shall be stored at a temperature of -20±3℃ for 96 hours. And then it shall be subjected to the controlled recover conditions for 1 hours after which measurement shall be made.	
7.4	潮湿试验 Homidity test	放置在温度-40±2℃相对湿度为90%~96%环境中96小时后，再放置常温中1小时后测定。 The switch shall be stored at a temperature of -40±2℃ and a humifity of 90% to 96% for 96 hours. Then the switch shall be maintained at standard atmospheric condition for 1 HR for other procedures be made.	

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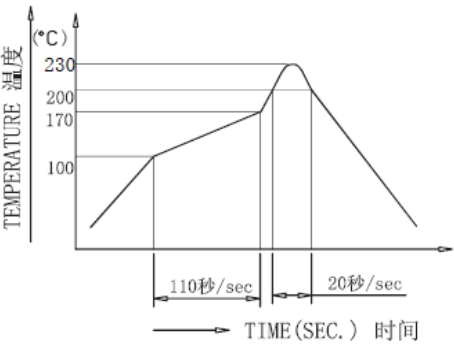
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项 目 Item	条 件 Test Condition	规 格 Requirement
7.6 焊锡条件 Soldering conditions	手焊 工具: 烙铁 350°C MAX. 3SEC MAX 不能对焊脚加压 240°C MAX. 5SEC MAX 波峰焊  Hand soldering: (1).Device:Solder iron A.350°C MAX. 3SEC MAX B.240°C MAX. 5SEC MAX (2).Wave soldering	外观无异常, 满足机械、电性能要求。 There shall be no damage on appearance. Mechanical and electrical characteristics shall be satisfied.
7.7 可焊性试验 Solderability test	端子顶部被浸入锡池中2mm深, 温度为235±5°C 时间为3±0.5秒。 The top of the terminals shall be dipped 2mm in the solder bath of 235±5°C for 3±0.5 seconds.	焊接面积要有95%以上 The area of soldering should be over 95%
7.8 耐焊性试验 Resistance to soldering heat test	在波峰焊的条件下在温度为230±5°C, 浸入时间3±0.5秒, 于(基板)厚度为1.6mm下, 线路板正常 Solder bath method: Solder temperature 230±5°C immersion time 3±0.5 SEC immersion depth up to the surface of the board thickness of printed wiring board 1.6mm dimensions of component holes in the printed wiring board shall be accordance with those specified in this specification.	本体无变形, 能满足机械、电气性能要求。 Without deformation of case or excessive looseness of terminals electrical characteristics.

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项 目 Item		条 件 Test Condition	规 格 Requirement
7.10	耐盐雾性试验 Resistance salt spray test	连接器放置在浓度为5±1%的盐水中,温度为35±2℃的试验箱内,喷雾24小时后取出,用水清洗,晾干满足. Connector at the concentration of 5±1% of the salt water, ambient temperature: 35±2℃, spray 24 hours after removal, clean water, dried meet.	外观 基体金属无锈蚀,镀层覆面占80%以上; In the absence of metal corrosion, coating review area of more than 80 percent.

**8.0 备注 (Remark)**

有关规格书内容经变更或改版,如未能及时发布与通知,烦请联系我司业务人员提供产品最新资讯

Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

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