



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	防水USB MICRO插座
MODEL NO.	型 号:	XB-USB-M-5P series
DRAWING NO.	图 形 号:	Waterproof USB MICRO socket

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
研发部 戴海明 2022. 06. 08	品质部 黄自清 2022. 06. 08	工程部 庞军 2022. 06. 08	总经办 吴量 2022. 06. 08

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.alpsr.cn/> <http://www.alpsr.com/>

Dong Guan XB ElectronicsCo., Ltd

AccountNumber: 705540238

BankName: CitibankN.A.,HongKongBranch

Country/Region: Hong Kong

BankCode:006

BankAddress: 3GardenRoad, Central, Hong Kong

SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If 11 characters are required)

MaIL: HK@ALPSR. CN XB@ALPSR. CN XB@ALPSR. COM

Quality core! Afterburner for Made in China!



规格书

SPECIFICATIONS

MODEL TYPE: 系列类型	MICRO USB	编写 WRTN BY:	审核CHECKED BY:	批准APPROVED BY:
PART NO: 型号	XB-USB-M-5P series	谢冰芯	贺龙飞	庞东
VERSION版本:	A			
DATE日期:	2024. 7. 6			

1. Scope适用范围 This specification covers the requirements for “XB USB JACK”

本规格书适用: “XB-USB JACK-DIP+SMT” 系列

2. Rating 额定值: DC 30V 3A (PIN1&5), 0.5A (PIN2&3&4)

3. Construction 构造

3.1 Shape and dimensions are subject to drawing. 形状、尺寸根据图面确定。

3.2 All parts are not allowed to exist rust 、crack and poor planting. 各部分无生锈、裂痕、电镀不良现象。

4. Standard test conditions shall be 5 to 35℃ in temperature and 45 to 85% in humidity. 温度 5~35℃ , 湿度45~85% 标准状态下测试

5. Operating temperature range -30 to 80℃ . 温度-30~80℃ 环境内使用。

Item 项目	Test condiction 测试条件	Performance 规格
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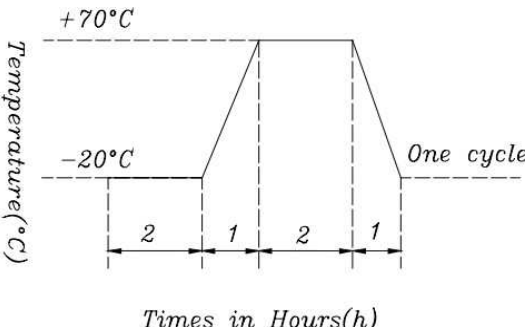
5. Electronical performance 电气性能

5.1	Contact resistance 接触阻抗	Being measured at 1 KHz small current contact resistance meter. 在1kHz 小电流下测量	30mΩ max. 30毫欧以下。
5.2	Insulation resistance 绝缘阻抗	Measurements shall be made following application of DC 500 V potential across terminals and across terminals and frame for 1 minute. 在端子之间和端子与胶身之间加 DC 100 V条件下, 持续1分钟测量。	100MΩ min. 100兆欧以上。
5.3	Withstand voltage 耐电压	AC 100 V(50Hz or 60 Hz) shall be applied across terminals and across terminals and frame for one minute. 在端子之间和端子与胶身之间加 AC 100 V(50Hz或60Hz)条件下, 持续1分钟测量	There shall be no breakdown. 无击穿现象出现。

6. Mechanical performance 机械性能

6.1	Insertion and extraction force 插入力及拔出力度	Insert plug gauge into the specimen and extract for test, and then measure the insertion and extraction force. 用插头插入插座再从中拔出, 测量插入和拔出的作用力	Insertion force: 插入力度: 35N Max Extraction force: 拔出力度: 8N Min
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SPECIFICATIONS			
Item 项目		Test condition 测试条件	Performance规格
6.2	Terminal strength 端子强度	The static force of 500gf being applied in one direction on the tip of the terminal for 1 minute. 在端子顶部的一个方向施加一个500克的静负荷, 持续一分钟。	There shall be no sign of damage mechanically and electrically. 无任何迹象显示机械及电气性能损坏。
7. Durability 耐焊性			
7.1	Soldering test 可焊性试验	The tip of the terminals shall be dipped 2mm in the solder bath at a temperature of $245\pm 5^{\circ}\text{C}$ for 4 ± 0.5 sec. 将端子顶部浸入焊锡池2mm深, 温度 $245\pm 5^{\circ}\text{C}$ 时间 4 ± 0.5 秒。	One new uniform coating of solder shall cover a minimum of 95% of the surface being immersed. 浸入部分95%以上表面被锡覆盖。
7.2	Resistance to soldering heat test 耐焊性试验	The sort of DIP USB JACK: Solder bath method: Solder temperature $260\pm 5^{\circ}\text{C}$, Immersion time 5 ± 1 sec . 焊炉焊锡的温度控制在 $260\pm 5^{\circ}\text{C}$, 过炉焊接的时间 5 ± 1 秒. soldering iron method: Bit temperature $350\pm 30^{\circ}\text{C}$, application time 1~5 sec, However excessive pressure shall not be applied to the terminal 手工焊接的时候温度需控制在 $350\pm 30^{\circ}\text{C}$, 时间为1~3秒, 不能在端子上施加异常压力	Without deformation of case or excessive looseness of terminals electrical and mechanical characteristics shall be satisfied. 本体无变形, 能满足于机械、电气性 (1) Contact resistance: $150\text{m}\Omega$ max. 55能。
7.3	Lift test 寿命试验	The sort of DIP USB JACK: 5000 cycles of operation at a rate of 15-18 cycles per minute with unloading. 在无负载条件下, 以每分钟15—18次的速度插拨5000 次	接触阻抗: 150毫欧以下。 (2) Operating force: 30% initial value. 动作力: 变化范围初始值30%。 (3) Insulation resistance: $50\text{M}\Omega$ min. 绝缘阻抗: 50兆欧以上。 (4) Withstand voltage: AC 100 V (50Hz or 60 Hz) shall be no breakdown. 耐电压: AC 100 V (50Hz or 60 Hz) 无击穿现象出现。 (5) Item 项目—5.2 (6) Item 项目—5.3 (7) Item 项目—6.2
7.4	Heat test 耐热试验	$80\pm 2^{\circ}\text{C}$ for 96 hours, test after keeping in normal condition for 30 minutes. 在 $80\pm 2^{\circ}\text{C}$ 环境中放96小时, 再放在正常环境中, 30分钟后进行测试。	(1) Contact resistance: $150\text{m}\Omega$ max 接触电阻: 150毫欧以下。 (2) Insulation resistance: $50\text{M}\Omega$ min.
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SPECIFICATIONS			
Item 项目		Test condition 测试条件	Performance规格
7.5	Humidity test 耐湿试验	40±2℃ 90-95%RH for 96 hours, test after,keeping in normal condition for 30 min. 在40±2℃ 90—95%RH 环境中放96小时，再放在正常环境中30分钟后进行测试。	绝缘电阻：50兆欧以上。 (3) There shall be no sign of damage mechanically and electrically.
7.6	Cold test 耐冷试验	At -40±3℃ for 96 hours, test after keeping in normal condition for 30 min. 在负40±3℃环境中放96小时，再放在正常环境中30分钟后进行测试。	无任何迹象显示机械及电气性能损坏。
7.7	Temperature cycling test 温度交变试验	In FIG. For 5 cycles, test after keeping in normal condition for 30 min. 如图示之环境中，循环5次后，再置于正常环境中30分钟后进行测试。 	(1)Contact resistance: 150mΩ max. 接触电阻：150毫欧以下。 (2)Insulation resistance: 50MΩ min. 绝缘电阻：50兆欧以上。 (3)There shall be no sign of damage mechanically and electrically. 无任何迹象显示机械及电气性能损坏。
7.8	盐雾测试 Salt spray	对插产品测试环境：温度：35±2℃，盐水浓度：重量比 5±1%，时间：24 小时。 测试后常温水洗，干燥。 EIA-364-26B	外观：无损伤； 接触阻抗最大：80mΩ
		Mated connectors and expose to the following salt mist conditions. Upon Completion of the exposure period, salt deposits shall be removed by a gentle Wash or dip in running water, after which the specified measurement shall Be performed. NaCl solution: Concentration: 5±1% Spray time: 24 hours ambient Temperature: 35±2℃ EIA-364-26B	Appearance: no damage. Contact Resistance:80mΩ Max

8 .Others The waterproof grade of this jack is IP-X6

When the amendment of this specification comes into necessity, the amendment must be made by the nutual consolation and agreement between manufacturer and customer