

东 莞 市 金 葆 利 电 子 有 限 公 司 DONGGUAN JINBAOLI ELECTRONICS CO.,LTD.	文件编号	JBL-USB
	发行日期	2011-8-29
SPECIFICATION 承认书	第 A-2 版	第 1 页 共 3 页

SERIES 产品系列		USB JACK USB 插座		TYPE 产品型号		USB-AM-L18.75 A 公 180 度 沉板	
DRAWN 设 计		尹聪		APPD 审 批		刘三军	
1. RATING (额定值): DC 30V 1.5A			CONSTRUCTION DIMENSION 结构尺寸			Apply to the appended drawing. 符合附加图纸	
2. OPERATING TEMPERATURE RANGE 操作温度范围			-55℃～85℃	PRESERVATIVE TEMPERATURE RANGE 储存温度范围			15℃～35℃
ITEM 项目		TEST CONDITIONS 测试条件				SPECIFICATIONS 规格	
3. ELECTRICAL PERFORMANCE (电气性能规格):							
3A	CONTACT RESISTANCE 接触电阻	MEASURED BY THE CONTACT RESISTANCE APPARATUS OR mΩ METER AT 0.1A DC5V .THE RESULT IS THE AVERAGE OF5 SUCCESSIVE MEASUREMENTS. 在电压为 5V，直流电流为 0.1A 时，用接触电阻测量仪或毫欧表测量。结果取测量 5 次后的平均值。				30mΩ max 30 毫欧以下	
3B	INSULATION RESISTANCE 绝缘阻抗	A VOLTAGE OF500V DC SHALL BE APPLIED FOR 1 MIN. AFTER WHICH MEASUREMENT SHALL BE MADE. BETWEEN TERMINALS BETWEEN INDIVIDUAL TERMINALS AND FRAME 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) 插座本体与端子之间				1000MΩ min 1000 兆欧以上.	
3C	DIELECTRIC STRENGTH 耐电压	A VOLTAGE OF500V AC SHALL BE APPLIED FOR 1 MIN. AFTER WHICH MEASUREMENT SHALL BE MADE. BETWEEN TERMINALS BETWEEN INDIVIDUAL TERMINALS AND FRAME 输入 500V AC 电压 1 分钟, 按以下接触方法测试: (1) 接触端子之间 (2) 插座本体与端子之间				WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC 没有损伤, 变形, 绝缘破坏等异常	
4. MECHANICAL PERFORMANCE (機械性能規格)							
4A	INSERTION AND WITHDRAW FORCE 插拔力	BEING MEASURE AT ACROSS SPRING PIECE AND ACROSS MATCHING PLUG FOR ERGOMETER 用测力计在插头与弹片之间进行测量.				1.02~3.57KGF	
4B	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 5 N(500gf) SHALL BE APPLIED TO THE TIP OF THE TERMINALS FOR 60 SEC. IN ANY DIRECTION 在任意一个方向的先端上力度 5N(500gf) 60 秒钟				ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. WITHOUT DAMAGE OR EXCESSIVE LOOSEN-ESS OF ACTUATOR 在端子中没有裂开\松动等异常, 满足电器性能.	
4C	STANDARD ATMOSPHEIC CONDITIONS 使用标准状态	UNLESS OTHERWISE SPECIFIED. THE STANDRD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMDIENT TEMPERATURE: 15℃ TO 35℃ RELATIVE HUMIDITY :25%TO75%RH AIR PRESSURE :80Kpa TO 106Kpa				在没有指定的情况下测试温度湿度, 气压如下: (1) 温度为 15℃～35℃ (2) 湿度为 25%～75%RH (3) 气压 80Kpa ～106Kpa	

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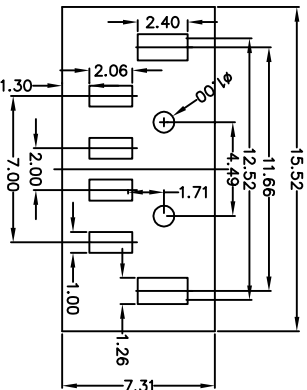
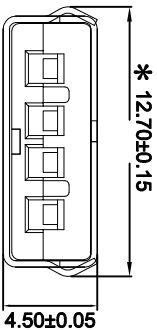
5. DURABILITY (耐久性)			
5A	SOLDERABILITY TEST 可焊性测试	THE TOP OF THE TERMINALS SHALL BEDIPPED 2mm IN THE SOLDER BATH OF $245 \pm 5^{\circ}\text{C}$ FOR 3 ± 0.5 SECONDS. THE PLASTIC BODY IS 1.6mm ABOVE THE TIN LIGUID. 端子顶部被浸入焊锡池中 2mm 深, 胶身距离锡液 1.6mm, 温度为 $245 \pm 5^{\circ}\text{C}$, 时间为 3 ± 0.5 秒。手工焊接温度为 $320 \pm 5^{\circ}\text{C}$, 时间为 2 ± 0.5 秒。 注: 本产品只适合用手焊、波峰焊。	(1) SOLDER WETTING TIME SHALL BE 3 SEC OR LESS 焊接时间应少于 3 秒 (2) THE AREA OF SOLDERABILITY SHOULD BE OVER 90% 焊接面积要有 90%以上
5B	RESISTANCE TO SOLDERING HEAT TEST 耐焊性测试	THE TOP OF THE TERMINALS SHALL BEDIPPED 2mm . THE PLASTIC BODY IS 1.6mm ABOVE THE TIN LIGUID. Wave-soldering is to be performed within 3seconds at $245 \pm 5^{\circ}\text{C}$, Hand weilding to be performed within 3 seconds at 320°C or below. 端子顶部被浸入焊锡池中 2mm 深, 胶身距离锡液 1.6mm。波峰焊接温度 $245 \pm 5^{\circ}\text{C}$ 时间 3 秒。手工焊接温度为 320°C 或以内, 时间为 3 ± 0.5 秒。 注: 本产品只适合用手焊、波峰焊。	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TERMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形, 能满足于机械、电气性能。
5C	LIFE TEST. 寿命测试	WITHOUT LOAD (IT IS TESTED BY MACHINE, ACTING FORCE MUST BE PARALLED TO THE WAY OF PUSHING): AN ACTUATOR SHALL BE SUBJECT TO 1500 CYCLES AT A SPEED OF 10 CYCLES FOR 1 MIN 无负荷 (只限于机器测试, 作用力平行于插拔方向): 操作者以每分钟 10 次的频率作 1500 回的无负荷测试。	(1) CONTACT RESISTANCE SHALLBE $100\text{m}\Omega$ max (2) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BESATISFIED. (1) 接触电阻不能超过 $100\text{m}\Omega$ (2) 其他满足于机械电器性能。
5D	HEAT TEST. 耐热试验	$85 \pm 2^{\circ}\text{C}$ FOR 48 HOURS AFTER TEST KEEP IN NORMAL CONDITION FOR 30 MINUTES. 在 $85 \pm 2^{\circ}\text{C}$ 环境中放 48 小时, 再放在正常环境中 30 分钟后进行测试。	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常, 满足於机械, 电器性能。
5E	HUMIDITY TEST. 耐湿试验	$40 \pm 2^{\circ}\text{C}$ 90-96%RH FOR 48 HOURS, TEST AFTER KEEPING IN NORMAL CONDITION FOR 30 MIN. 在 $40 \pm 2^{\circ}\text{C}$ 90-96%RH 环境中放 48 小时, 再放在正常环境中, 30 分钟后进行测试。	
5F	COLD TEST. 耐冷试验	At $-40 \pm 2^{\circ}\text{C}$ for 48 HRS. AFTER TEST KEEP IN NORMAL CONDITION FOR 30 MIN. 在 $-40 \pm 2^{\circ}\text{C}$ 环境中放 48 小时, 再置于正常环境中 30 分钟后进行测试。	
5G	SALT SPRAY TEST 喷雾试验	AT 5% NACL LIQUOR FOR 24HOURS, AFTER WASHING, KEEP IN NORMAL CONDITION FOR 30 MIN. 5%的 Nacl 溶液中喷雾 24 小时, 用水清洗并在室温下放置 30 分钟	WITHOUT EXCESSIVE CORROSION OR CRACK IN APPEARANCE 表面无明显腐蚀或镀层脱落现象

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6. 注意事项 (APPLICATION NOTES:) 1、在耐焊接过程中, 不得把松香等绝缘、有腐蚀性物质浸入产品内。 (ROSIN AND OTHER INSULATING AND CAUSTIC MATERIAL CAN NOT BE DIPPED INTO THE ROCKET DURING SOLDERING.) 2、产品焊接后不能用气枪吹或用溶剂冲洗。 (PRODUCTS CAN NOT BE BLOWN WITH AIR GUN OR CLEANED WITH A SOLVENT AFTER SOLDERING.) 3、产品焊接前各零件不能被溶化。 (ALL PARTS OF THE PRODUCTS CAN NOT BE DISSOLVED BEFORE SOLDERING.) 4、避免储藏于高温、潮湿及腐蚀的场所。 (AVOID STORING THE PRODUCTS IN A PLACE AT HIGH TEMPERATURE, HIGH HUMIDITY AND IN CORROSIVE GASES.) 5、贮存期限:自发货之日起, 贮存期不超过 180 天. 若超出贮存期限, 产生不良品, 本公司概不负责。 (SHELF LIFE IS LESS THAN 180 DAYS SINCE THE GOODS WARE SENT OUT FROM OUR FACTORY. OUR COMPANY DOESN’ T ACCEPT RESPONSIBILITY FOR REJECTS IF THE SHELF LIFE OF GOODS EXCEEDS 180 DAYS.) 6、本产品如有不良事件, 望厂家及时回馈, 以便及时记录、查核、改善、跟踪。 (PLEASE FEEL FREE TO REPORT TO US IF YOU DISCOVER THE INFERIOR GOODS, SO THAT WE CAN TAKE NOTE, CHECK, TRACK AND IMPROVE THEM. THANKS.)
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8					TOLERANCE UNLESS SPECIFIED								
7													
6					WITHIN 1.5: ±0.15mm OVER 1.5: ±0.3mm ANGLES: ±2°								
5					ISSUE	DATE	DESCRIPTIONS			APPD.			
4					TITLE:USB JACK		UNIT:mm	DRWG. NO.:					
3	SHELL	SPCC	1	NI PLATED	MODEL NO.: USB-AM-L18.75 A公180度双板 带脚 带柱			SCALE:4:1					
2	TERMINAL	BRASS	1					DWN	YINCONG				
1	HOUSING	PBT	1	BLACK				CHKD	ZHENGZHIHUI				
NO.	DESCRIPTION	MATERIAL	QTY	PLATING	DONGGUAN JINBAOLI ELECTRONICS CO.,LTD						APPD.	LJUSANJUN	



PCB LAYOUT

规格说明: Specifications:

电气特性:Electrical:

1. 额定电流: Current Rating
1.5A/contact terminal
2. 额定电压: Voltage Rating
30V DC
3. 接触阻抗: Contact Resistance
30 milliohms MAX
4. 耐电压: Dielectric Withstanding Voltage:
500 V AC AT Sea Level
5. 绝缘阻抗: Insulation Resistance:
1000MΩGA ohms MIN

物理性能:Mechanical:

1.1. 插拔力: Connector Mate and Unmate Force

Mate force:3.75kgf(MAX)

Unmate force:1.02kgf(MIN

- 2.端子保持力: Terminal Retention
1.2kgf(MIN)

原材料:Materials:

1. 塑胶:Housing:

High Temperature Thermoplastics

U194V-0 PB1/LCP White/Black

- 2.端子:Contact:Copper Alloy C2680

电镀:Finish:

- 1.端子:Contact: Plated Gold in Mating Area;
Tin On Solder Tails

2.外壳:Shell

Nickel Plating