



CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	XLR音响组合插座
MODEL NO.	型 号:	XB-CT/CK SERIES
DRAWING NO.	图 形 号:	XLR AUDIO COMBO JACK

依据和存档之用，多谢合作！

Quality core! Afterburner for Made in China!



东莞市溪榜电子有限公司

SPECIFICATION 规格书

Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

1. Scope / 适用范围

This specification is applied to JACK CONNECTOR which is used for electric products.

本规格书适用于电子产品上的插座连接器。

2. Rated / 额定值

2-1. Practical temperature range: -25°C to +70°C

适用温度范围: -25°C to +70°C

Humidity range: 95% RH.MAX, (+40°C).

湿度范围: 95% RH.MAX, (+40°C)

2-2. Preservation temperature range: -10°C to +40°C

保存温度范围: -10°C to +40°C

Humidity range: 85% RH.MAX.

湿度范围: 85% RH.MAX.

2-3. Rated voltage and current: 50V AC, 7.5A

额定电压和额定电流: 50V AC, 7.5A

2-4. Appearance: No scratches, soil, rust or discoloration shall be observed.

外观: 表面无划伤、脏污、生锈或变色等现象。

3. Construction / 说明

3-1. Outline And Dimension / 外观和尺寸

Outline and dimension of the jack shown be as attached assembled drawing.

插座的外观和尺寸应与附件图纸相符。

3-2. Part And Material 部件和材料

The parts and materials shown be in material identification sheet and certification of material.

部件和材料应与材料清单规格一致。

4. Electrical efficiency / 电气特性

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
4-1	Withstand voltage 耐电压	The Jack shall be withstand 500V (AC 50/60Hz RMS) And the XLR shall be withstand 1500V (AC 50/60Hz RMS) between mutually insulated pin contacts for one minute. 在相互绝缘的接触脚之间, 插座能承受 500V 电压 (AC 50/60Hz RMS) 卡侬座能承受 1500V 电压 (AC 50/60Hz RMS) 并持续 1 分钟。	No dielectric breakdown shall occur. 无击穿现象发生
4-2	Insulation resistance 绝缘阻抗	Using a 500 volts DC insulation resistance meter between mutually insulated terminals or metallic parts 在相互绝缘的端子、端子与外壳之间, 插座应能承受施加的 500V 直流电压。	500 MΩ MIN. 最小 500 兆欧
4-3	Contact resistance 接触阻抗	At a current of below 1 kHz by the voltage drop method or four terminals method, the socket and the pin of matching plug to be made a closed circuit 插座与匹配插头的插针组成一个回路。	6.35 JACK: 30 mΩ MAX. XLR: 20 mΩ MAX. 6.35 插口: 最大 30 毫欧 卡侬插座: 最大 20 毫欧



东莞市溪榜电子有限公司

SPECIFICATION 规格书

Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

5. Mechanical efficiency 机械特性

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
5-1	Insertion and extraction force 插入和拔出力	Measured with a load cell or equivalent, the matching plug shall be inserted into the jack and extracted from the jack slowly. (Fig.1) 用一测压元件或对等物测试。用相匹配的插头慢慢地插入插座和慢慢地从插座里拔出。(Fig.1)	5N(About 0.5kgf) to 50N(About 5.0kgf) 5N(大约 0.5kgf) to 50N(大约 5.0kgf)
5-2	Terminal strength 端子强度	Every terminal shall be capable of withstand a force of 10N (About 1.0kgf) for 10 seconds. 每个端子都应能承受10N(大约1.0kgf)的力, 并持续10秒。	Without loosening and breakdown, but deformation of terminal is accepted. 无松脱、破损等现象, 但是端子变形可以接受。

6. Durability / 耐久性能

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
6-1	Life test 寿命测试	The life test shall consist of 5000 cycles of insertion and extraction with gauge plug(Fig.1) or made plug(Fig.2), at a rate of 20 to 30 cycles per minutes under no load. 在没有负载的条件下, 以每分钟20-30次的频率, 均速, 用相匹配的插头进行插拔5000次。	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance: 100M Ω or more Contact resistance: less than 60m Ω 能满足项目4-1和5。 绝缘电阻: 最小100兆欧 接触电阻: 最大100毫欧



东莞市溪榜电子有限公司

SPECIFICATION 规格书

Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

7. Solderability / 焊锡试验

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
7-1	Resistance to soldering heat 耐焊性	Terminal shall be dipped in solder the condition as follow; 1.Terminal for a PC board (thickness 1.0-1.6mm) Pre-heat:100~110°C , 30S Temperature of solder: 260±5°C , 5±1S The specimen shall be stored at a standard atmospheric conditions for 24H. 2.Terminal for iron; Temperature of solder: 350±10°C(60W) 3±1 S 按下面的条件,将端子插入焊料里: 1.波峰焊 (厚度1.0~1.6mm) 预热: 100~110°C, 30S 焊锡温度: 260±3°C, 5±1S 在标准大气压下, 样品被放置2时。 2.烙铁焊 焊锡温度: 350±10°C (60W) 3±1S	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance:100M Ω or more Contact resistance:less than 50 m Ω 能满足项目4-1和5。 绝缘电阻: 最小100兆欧 接触电阻: 不超出50毫欧
7-2	Solderability 可焊性	Temperature of solder: 245±3°C. Time of dip: 3±0.5 seconds. Length of dip: 2.5 mm(from top of terminal). 焊锡温度: 245±3°C. 浸入时间: 3±0.5 秒 浸入深度: 2.5 mm(从端子顶部开始).	A new uniform coating of solder shall cover 95% or more of the surface being immersed. 焊锡面积要求达到95%以上

东莞市溪榜电子有限公司

SPECIFICATION 规格书

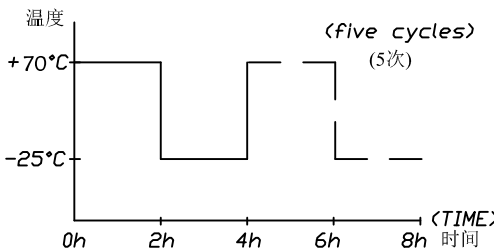
Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

8. Environment test / 环境试验

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
8-1	Cold test 低温测试	The jack shall be subjected to temperature of $-25\pm 2^{\circ}\text{C}$ for a period of 96 hours ,then shall be allowed to remain in room ambient conditions for 30 minutes. 将插座放置在 $-25\pm 2^{\circ}\text{C}$ 低温条件下持续96小时，然后在室温条件下静置30分钟。	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance: $100\text{M}\Omega$ or more Contact resistance: less than $50\text{m}\Omega$ 能满足项目4-1和5. 绝缘电阻：最小100兆欧 接触电阻：最大50毫欧
8-2	Heat test 高温试验	The jack shall be subjected to temperature of $65\pm 2^{\circ}\text{C}$ for a period of 96 hours ,then shall be allowed to remain in room ambient conditions for 30 minutes. 将插座放置在 $65\pm 2^{\circ}\text{C}$ 高温条件下持续96小时，然后在室温条件下静置30分钟。	

8. Environment test / 环境试验

Item 项目	Property 特性	Test condition 测试条件	
8-3	Humidity test 耐湿试验	The jack shall be subjected to temperature of $40\pm 2^{\circ}\text{C}$ and relative humidity of 90% to 95% for a period of 96 hours. Upon completion of the exposure, dew drops shall be blown out and removed from the jack, after which the jack shall conditioned at room ambient conditions for 30 minutes. 将插座放置在温度为 $40\pm 2^{\circ}\text{C}$ ，相对湿度为90~95%的环境下持续96小时。完成以上事项后，除去插座上的水珠，然后在室温条件下静置30分钟。	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance: $50\text{M}\Omega$ or more Contact resistance: less than $50\text{m}\Omega$ 能满足项目4-1和5. 绝缘电阻：最小50兆欧 接触电阻：不超出50毫欧
8-4	Temperature cycling test 温度循环试验	The jack shall be subjected to conditions as shown in below, and then shall returned and allowed to remain in ambient condition for 30 minutes. 将插座放置于如下所示条件下进行试验，然后在室温条件下放置30分钟。 <TEMPERATURE> 温度  <five cycles> (5次) <TIME> 时间 0h 2h 4h 6h 8h	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance: $100\text{M}\Omega$ or more Contact resistance: less than $30\text{m}\Omega$ 能满足项目4-1和5. 绝缘电阻：最小100兆欧 接触电阻：不超出50毫欧

东莞市溪榜电子有限公司

SPECIFICATION 规格书

Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
8-5	Salt mist test 盐雾试验	Testing bath: The temperature shall be $35^{\circ}\text{C}\pm 2^{\circ}\text{C}$ in the ambient of the jack during the test. Spray apparatus: The apparatus shall be capable of producing fine dense mist uniformly. Salt water: The concentration of the salt water shall be adjusted at $5\pm 1\%$ weight ratio at $35^{\circ}\text{C}\pm 2^{\circ}\text{C}$. Testing time: 24 ± 0.5 hours. 试验室: 在温度为$35\pm 2^{\circ}\text{C}$条件下进行测试 喷雾设备: 设备应能承受均一浓度的盐雾 盐水浓度: 在温度为$35\pm 2^{\circ}\text{C}$条件下, 盐水浓度为$5\pm 1\%$ 测试时间: 24 ± 0.5小时	The jack shall be comply with paragraphs 4-1 and 5. Insulation resistance: $100\text{ M}\Omega$ or more Contact resistance: less than $50\text{ m}\Omega$ 能满足项目4-1和5. 绝缘电阻: 最小100兆欧 接触电阻: 不超出50毫欧

9. Test condition / 测试条件

The test and measurement, unless otherwise specified, shall be carry out at a temperature of $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$, ,relative humidity of $45\%\sim 85\%$, and atmospheric pressure of $86\text{kPa}\sim 106\text{kPa}$.

However, when any doubt arises on the judgment value under it, the test and measurement shall be carry out a temperature of $20\pm 2^{\circ}\text{C}$, relative humidity of $60\%\sim 70\%$, and atmospheric pressure of $86\text{kPa}\sim 106\text{kPa}$.

除非另有指定, 否则测试和测量温度在 $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$, 相对湿度在 $45\%\sim 85\%$, 气压在 $86\text{kPa}\sim 106\text{kPa}$ 条件下进行。

当在这个条件下判定出现疑问时, 测试和测量在 $20\pm 2^{\circ}\text{C}$, 相对湿度 $60\%\sim 70\%$, 气压在 $86\text{kPa}\sim 106\text{kPa}$ 条件下进行。

10. Amendment / 变更修正

When the amendment of this specification comes into necessity, it shall made by the mutual consultation and agreement between manufacture and customer.

当有必要对规格书进行变更修正时, 应该在制造商和客户共同商议及同意后才可以进行。

※ This specification is state with Chinese & English, Chinese is preferential while doubt in interpretation.

规格书同时记入中英文, 但发生疑义的场所以中文优先。

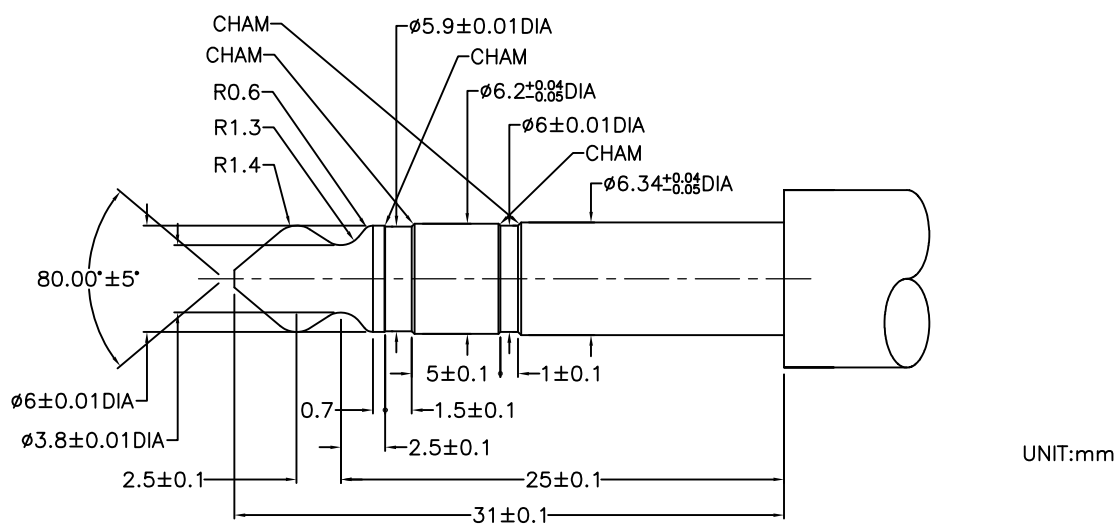
东莞市溪榜电子有限公司

SPECIFICATION 规格书

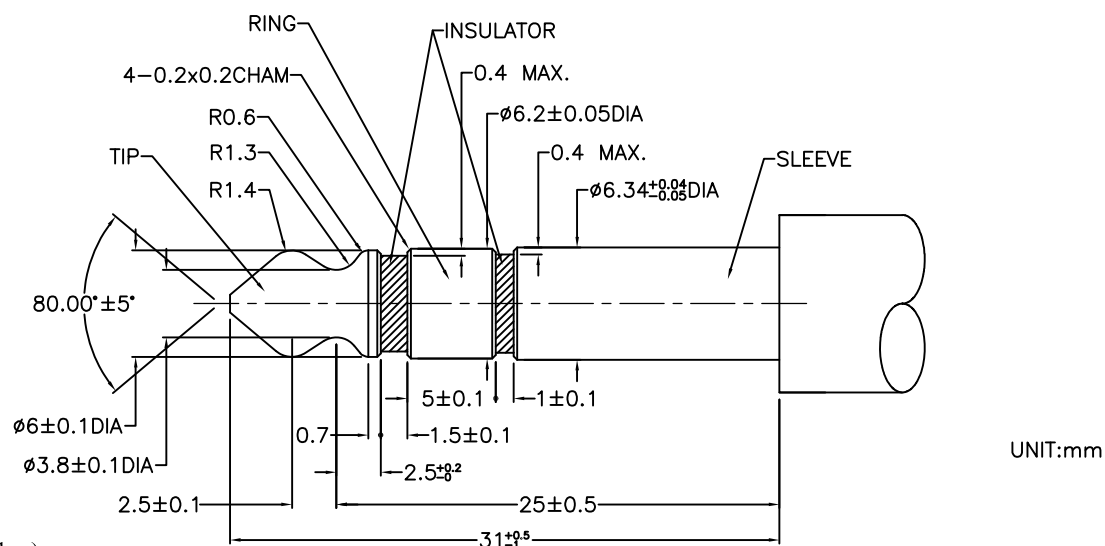
Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

11. Standard dimension of gauge plug / 标准插头



(Fig.1 gauge plug)



(Fig.2 mate plug)

3 CONDUCTORS TYPE

Model Type:
类型型号:

6.35 PHONE JACK AND XLR AUDIO COMBO JACK

11. Standard dimension of gauge plug / 标准插头

