



|               |        |              |
|---------------|--------|--------------|
| CUSTOMER NAME | 客户名称:  |              |
| CUSTOMER NO.  | 客户编号:  |              |
| SERIES        | 系 列:   | 耳机插座         |
| MODEL NO.     | 型 号:   | XB-PJ-3821   |
| DRAWING NO.   | 图 形 号: | Audio socket |

依据和存档之用，多谢合作！

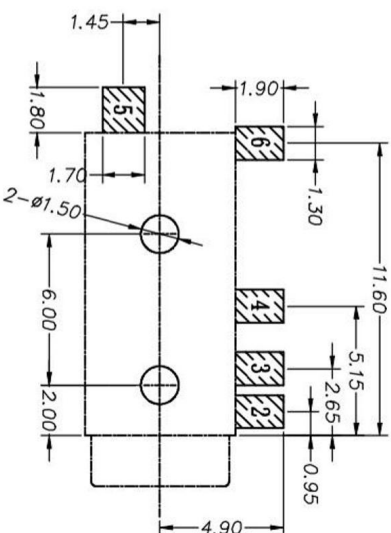
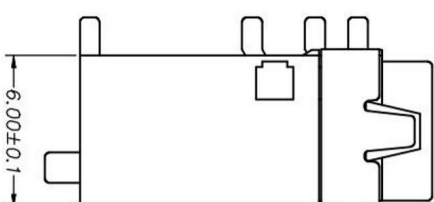
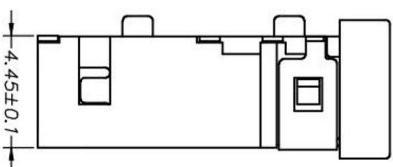
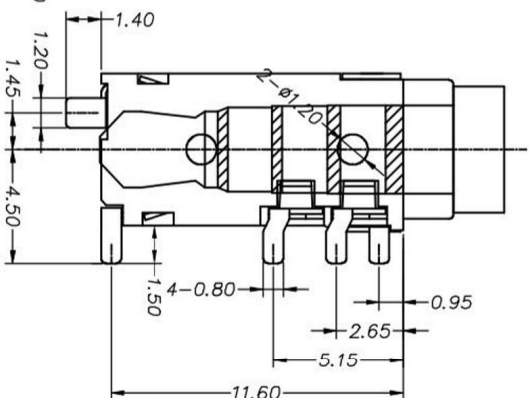
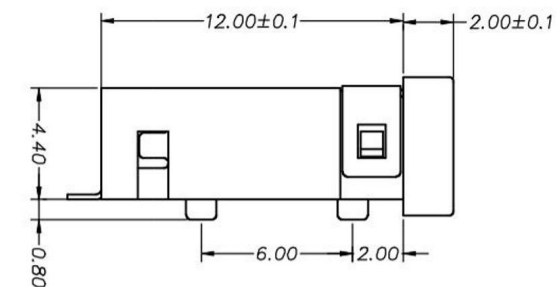
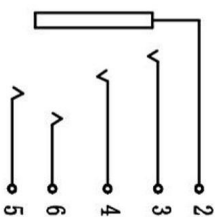
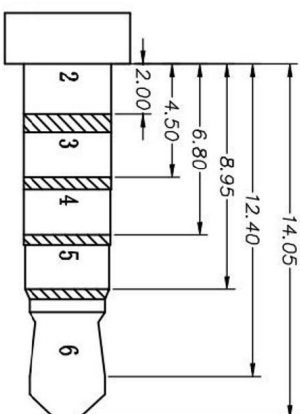
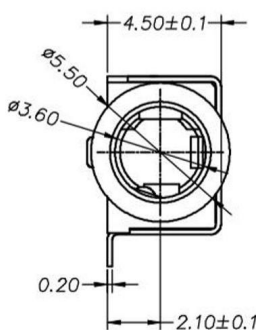
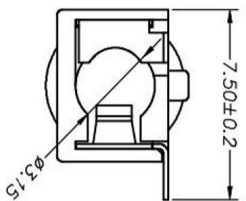
|              |  |  |                 |  |  |
|--------------|--|--|-----------------|--|--|
| APPROVE 接受   |  |  | NOT APPROVE 不接受 |  |  |
| SIGNATURE 签署 |  |  | STAMP 盖章        |  |  |
|              |  |  |                 |  |  |

|                                                     |                                                     |                                                    |                                                    |
|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| PREPARED BY.制表人                                     | CHECKED BY.校对                                       | APPROVED BY.审核                                     | APPROVAL BY.批准                                     |
| <div>研发部</div> <div>戴海明</div> <div>2022.06.08</div> | <div>品质部</div> <div>黄自清</div> <div>2022.06.08</div> | <div>工程部</div> <div>庞军</div> <div>2022.06.08</div> | <div>总经办</div> <div>吴量</div> <div>2022.06.08</div> |

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

Quality core! Afterburner for Made in China!

| REV. | ECN NO. | DESCRIPTION | DESIGN DATE    |
|------|---------|-------------|----------------|
| A    |         | INITIAL     | Kai 2018.06.14 |



P.C.B LAYOUT TOP VIEW

| 序号 | 产品编号 | 产品名称 | 数量 | 材料  | 规格    | 电镀 |
|----|------|------|----|-----|-------|----|
| 4  |      | 盖脚   | 1  | 磷铜  | 0.25T | 镀银 |
| 3  |      | 弹片脚  | 1  | 镀青铜 | 0.2T  | 镀银 |
| 2  |      | 中脚   | 3  | 磷铜  | 0.2T  | 镀银 |
| 1  |      | 底座   | 1  | PPA |       | 黑色 |

## 主要技术性能

额定电负荷 DC 30V/0.5A

接触电阻  $\leq 0.08\Omega$ 绝缘电阻  $\geq 1000\Omega$ 

耐压 AC500V (50Hz)/min

插拔力 3-20N

使用温度范围 -20~70℃

使用寿命 5000次

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMALS:

DIM TOL

X.  $\pm 0.35$ X.X  $\pm 0.30$ X.XX  $\pm 0.20$ X.XXX  $\pm 0.10$ 

ANGLES:

DIM TOL

X.  $\pm 2^\circ$ X.X  $\pm 1^\circ$ X.XX  $\pm 1^\circ$ X.XXX  $\pm 1^\circ$ 东莞市溪榜电子有限公司  
DONG GUAN XI BANG ELECTRONIC CO., LTD.

DWG NO.

DESIGN:

CHECK:

APPROVED

PART NAME:

PART NO.

Q/XM-CP-RD-XXXX

Kai

2018.06.14

2018.06.14

2018.06.14

2018.06.14

PHONE JACK

XB-PJ-3821

REV. A

SHEET: 1/1

mm

1/1

# 規 格 書

## SPECIFICATION

SERIES 系列: Audio socket (STEREO)

MODEL NO. 型號: XB-PJ-3821

1. RATING 額定值: 1A 12V DC

2. CIRCUIT 回路:

3. TIMING 切換類型:

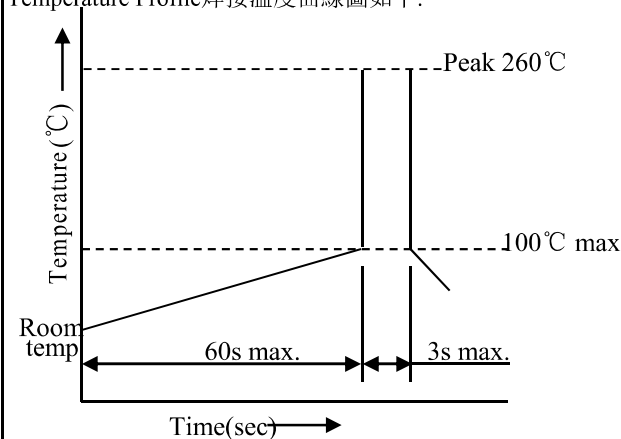
4. STANDARD TEST TEMPERATURE SHALL BE 5°C TO 35°C AND HUMIDITY SHALL BE 45% TO 85% .

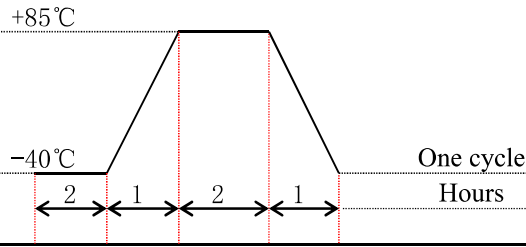
溫度 5~35°C, 濕度 45~85% 標準狀態下測試。

5. OPERATING TEMPERATURE RANGE IS -20°C TO 70°C. IT IS USUALLY APPLIED TO ELECTRONIC AND ELECTRICAL APPLIANCE PRODUCTS.

溫度 -20°C~70°C 環境內使用。一般適用於電子、電氣方面產品使用。

| ITEM 項目                                 |                                            | TEST CONDITION 測試條件                                                                                                                                                                          | PERFORMANCE 性能                                                                    |
|-----------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>6. ELECTRONICAL PERFORMANCE 電氣性能</b> |                                            |                                                                                                                                                                                              |                                                                                   |
| 6.1                                     | CONTACT RESISTANCE<br>接觸電阻                 | Being tested at 1 kHz small current and voltage (100mA,20mV ) by contact resistance meter.<br>在 1kHz 小電流電壓 (100mA,20mV) 下測量。                                                                 | 100mΩ max.<br>100毫歐 以下。                                                           |
| 6.2                                     | INSULATION RESISTANCE<br>絕緣電阻              | DC 500 V shall be applied for test between terminals and between terminals and frame for one minute.<br>在端子之間和端子與殼之間加 DC 500 V 條件下, 持續1分鐘測量。                                                 | 100 MΩ min.<br>100兆歐 以上。                                                          |
| 6.3                                     | WITHSTAND VOLTAGE<br>耐電壓                   | AC 500 V and induction current 1 mA shall be applied for test between terminals and between terminals and frame for one minute.<br>在端子之間和端子與殼之間加 AC 500 V (50Hz或60Hz) 感應電流 1mA 條件下, 持續1分鐘測量。 | There shall be no breakdown.<br>無擊穿現象出現。                                          |
| <b>7. MECHANICAL PERFORMANCE 機械性能</b>   |                                            |                                                                                                                                                                                              |                                                                                   |
| 7.1                                     | INSERTION AND EXTRACTION FORCE<br>插入及拔出 力度 | Insert plug into the jack and extract for test. then measure the insertion and extraction force.<br>用插頭插入和拔出插座, 測量插入和拔出的作用力。                                                                 | Insertion force:<br>插入力度: 0.4~2.0kgf<br>Extraction force:<br>拔出力度: 0.3~1.5kgf     |
| 7.2                                     | TERMINAL STRENGTH<br>端子強度                  | A static force of 500 g being applied in one direction on the tip of the terminal for 1 minute.<br>一個 500 克之靜負荷施加於端子頂部的一個方向持續1分鐘。                                                            | There shall be no sign of mechanical and electrical damage.<br>無任何迹象顯示機械及電器性能之損壞。 |

| ITEM 項目                  |                                   | TEST CONDITION 測試條件                                                                                                                                                                                                                                    | PERFORMAENCE 性能                                                                                                                  |
|--------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>8. DURABILITY 耐久性</b> |                                   |                                                                                                                                                                                                                                                        |                                                                                                                                  |
| 8.1                      | SOLDERING TEST<br>可焊性試驗           | The tip of the terminals shall be dipped 2 mm in the solder bath within temperature of $250\pm 5^{\circ}\text{C}$ for 3 seconds.<br>端子頂部被浸入焊錫池 2mm 深, 溫度 $250\pm 5^{\circ}\text{C}$ , 時間3秒。                                                            | Over 95% of the immersed surface was covered by tin.<br>浸入的部份95%以上表面將被錫覆蓋。                                                       |
|                          |                                   | The condition mentioned is temperature for lead-free soldering .<br>無鉛錫測試<br>Alloy: Sn 96.5% Cu 3% Ag 0.5%<br>成份: 錫 96.5% 銅 3% 銀 0.5%                                                                                                                  |                                                                                                                                  |
| 8.2                      | SOLDERING RESISTANT TEST<br>耐焊性試驗 | Manual soldering temperature $300\pm 5^{\circ}\text{C}$ , soldering time $3\pm 0.5$ seconds, however excessive pressure shall not be applied to the terminal.<br>手焊接的時候溫度需控制在 $300\pm 5^{\circ}\text{C}$ , 時間為 $3\pm 0.5$ 秒, 但不能在端子上施加異常壓力。            | Without deformation of case or excessive looseness of teminals, meet mechanical and electrical properties<br>本體無變形, 能滿足於機械、電器性能。 |
|                          |                                   | The condition mentioned is temperature for lead-free soldering .<br>無鉛錫測試。<br>Alloy: Sn 96.5% Cu 3% Ag 0.5%<br>成份: 錫 96.5% 銅 3% 銀 0.5%                                                                                                                 |                                                                                                                                  |
| 8.3                      | Wave soldering<br>波峰焊             | When applying wave soldering, the peak temperature of the wave Oven should be set to $260^{\circ}\text{C}$ max.<br>當使用低波爐進行焊接時, 最高溫度設置為 $260^{\circ}\text{C}$ .<br>ondition for soldering (Wave & Non-washable Type)<br>Temperature Profile 焊接溫度曲線圖如下: |                                                                                                                                  |
|                          |                                   |                                                                                                                                                                    |                                                                                                                                  |
|                          |                                   | Items                                                                                                                                                                                                                                                  | Condition                                                                                                                        |
|                          |                                   | Preheating temperature                                                                                                                                                                                                                                 | Ambient temperature of the soldered surface of PC board $100^{\circ}\text{C}$ max.                                               |
|                          |                                   | Preheating time                                                                                                                                                                                                                                        | 60s max.                                                                                                                         |
|                          |                                   | Soldering temperature                                                                                                                                                                                                                                  | $260^{\circ}\text{C}$ max.                                                                                                       |
|                          |                                   | Continuous dipping time                                                                                                                                                                                                                                | 3s max.                                                                                                                          |
|                          |                                   | Number of soldering                                                                                                                                                                                                                                    | 1 times max.                                                                                                                     |
|                          |                                   | There shall be no defects in appearance or in the mechanical functions.<br>沒有出現任何外觀和機械功能上的損傷。                                                                                                                                                          |                                                                                                                                  |

| ITEM 項目 |                                    | TEST CONDITION 測試條件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PERFORMAENCE 性能                                                                                                                                                                  |
|---------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.4     | LIFE TEST<br>壽命試驗                  | 5000 cycles of operation at a rate of 15-18 cycles per minute with unloading<br>無負載條件下，每分鐘 15-18 次的速度操作 5000 次。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (1) Contact resistance<br>150mΩ max.<br>接觸電阻150毫歐 以下<br>(2) Insertion force:<br>插入力度: 0.25~2.0kgf<br>Extraction force:<br>拔出力度: 0.2~1.5kgf<br>(3) ITEM 項目—6.2<br>(4) ITEM 項目—6.3 |
| 8.5     | HEAT RESISTANT TEST<br>耐熱試驗        | 80±2℃ for 96 hours,test after keeping in normal condition for 30 minutes.<br>在 80±2℃ 環境中放96小時,再放在正常環境中30分鐘後進行測試。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (1) Contact resistance<br>150 mΩ max.<br>接觸電阻150毫歐以下<br>(2) Insulation resistance<br>50 MΩ min.<br>絕緣電阻50兆歐以上<br>(3) ITEM 項目—6.2<br>(4) ITEM 項目—6.3                              |
| 8.6     | MOISTURE RESISTANT TEST<br>耐濕試驗    | 40±2℃ 90-95% RH for 96 hours,test after keeping in normal condition for 30 minutes.<br>在40±2℃ 90-95% RH 環境中放96小時,再放在正常環境中, 30分鐘後進行測試。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                  |
| 8.7     | COLD RESISTANT TEST<br>耐冷試驗        | At -40±3℃ for 96 hours, test after keeping in normal condition for 30minutes.<br>在 -40±3℃ 環境中放96小時,再置於正常環境中, 30分鐘後進行測試。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |
| 8.8     | TEMPERATURE CYCLING TEST<br>溫度交變試驗 | According to following figure,after 5 cycles, test after keeping in normal condition for 30 minutes.<br>如圖示之環境中,循環5次後,再置於正常環境中, 30分鐘後進行測試。<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                  |
| 8.9     | STORAGE ENVIROMENT<br>儲存環境         | Under sealing pack condition,stored temperature don't exceed 30℃ and relative humidity is 75% RH;<br>in the enviroment of no sunshine direct and no corrosive gas,the stored time ought to be three months but within six month at most.<br>密封包裝狀態下,儲存溫度為≤30℃,相對溫度 75% RH; 無陽光直射,無腐蝕性氣體的環境中,儲存時間為3個月,最長不宜超過6個月。<br>Without sealing pack condition,stored temperature don't exceed 30℃ and relative humidity is 75% RH;<br>in the enviroment of no sunshine direct and no corrosive gas,the stored time shouldn't exceed 48H<br>無密封包裝狀態下,儲存溫度為≤30℃,相對溫度 75% RH; 無陽光直射,無腐蝕性氣體的環境中,儲存時間最長不宜超過48小時。<br>Don't excessive overlap or overstocking when keeping this goods,in case of damage.<br>保存時應注意物品不能過量重疊、積壓、以免損壞 |                                                                                                                                                                                  |