



常州市嘉传电子有限公司

Changzhou Jiachuan Electronics Co., Ltd.

## SPECIFICATION FOR APPROVAL

### 产品规格承认书

#### JC-MIC6027-UNI02

单指向驻极体电容咪头 / Unidirectional Electret Condenser Microphone

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Product / 产品              | Electret Condenser Microphone / 驻极体电容咪头                   |
| Model / 型号                | JC-MIC6027-UNI02                                          |
| Original Type / 原型号       | GMI6027U-2C36-66DB                                        |
| Main Specification / 主要规格 | Ø6.0×2.7mm   -36~-66dB   1.5V test condition   S/N ≥58dBA |
| Directivity / 指向性         | Uni-directional / 单指向                                     |
| Revision / 版本             | A0                                                        |

#### Approval / 签核

|             |            |             |
|-------------|------------|-------------|
| Prepared 制作 | Checked 审核 | Approved 批准 |
| 李明珠         | 王敏娜        | 黄继桥         |

#### Customer Confirmation / 客户确认

|                |                 |                  |
|----------------|-----------------|------------------|
| Tested by / 检查 | Checked by / 审核 | Approved by / 批准 |
|                |                 |                  |



常州市嘉传电子有限公司

Changzhou Jiachuan Electronics Co., Ltd.

## 1. Scope / 适用范围

This specification applies to electret condenser microphone, GMI6027U-2C36-66DB.

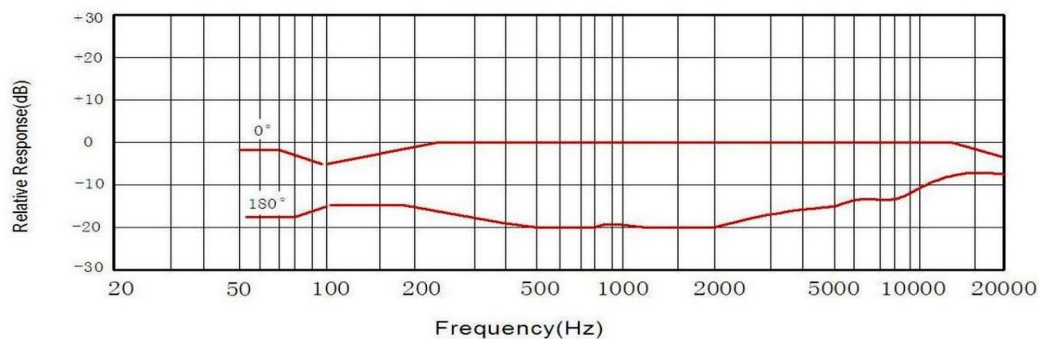
## 2. Electrical & Acoustic Specifications / 电气与声学参数

Test condition / 测试条件: RL=680Ω VS=1.5V TEMP=20°C±2°C Related humidity=65±5%

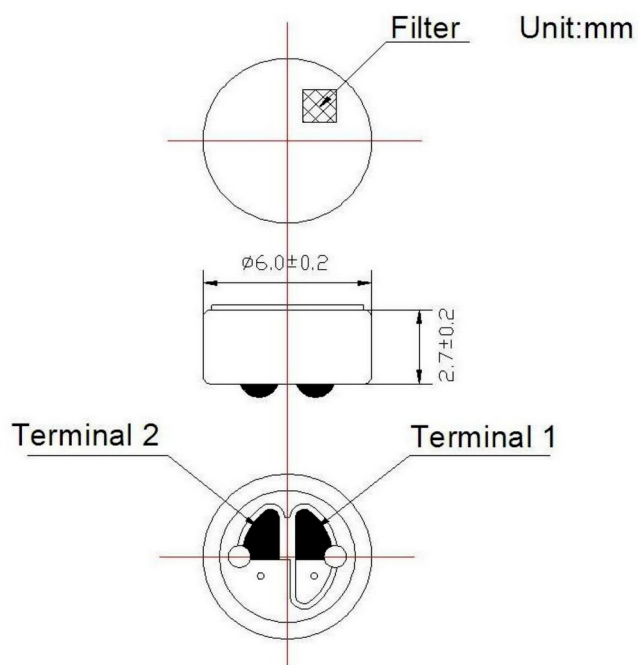
| No. | Item / 项目                           | Symbol | Unit | Specification   | Condition / 条件                      |
|-----|-------------------------------------|--------|------|-----------------|-------------------------------------|
| 1   | Directivity / 指向性                   |        |      | Uni-directional |                                     |
| 2   | Sensitivity / 灵敏度                   | S      | dB   | -36~-66±3       | 0dB=1V/Pa, 1KHz                     |
| 3   | Standard operating voltage / 标准工作电压 | Vs     | V    | 1.5V            |                                     |
| 4   | Output impedance / 输出阻抗             | Zout   | Ω    | ≤680            | f=1KHz, 1Pa                         |
| 5   | Frequency / 频率                      |        | Hz   | 50~16,000       |                                     |
| 6   | Max operating voltage / 最大工作电压      |        | V    | 10              |                                     |
| 7   | Sensitivity reduction / 灵敏度下降       | ΔS-Vs  | dB   | -3              | f=1KHz, 1Pa;<br>Vs=1.5VDC to 1.0VDC |
| 8   | Max. current consumption / 最大电流     | IDSS   | mA   | ≤0.5            |                                     |
| 9   | Signal to noise ratio / 信噪比         | S/N    | dBA  | ≥58             | f=1KHz, P in=1Pa                    |
| 10  | Max input sound level / 最大输入声压      | SPL    | dB   | 110             |                                     |
| 11  | Operation temp. / 工作温度              |        | °C   | -20 ~ +70       |                                     |
| 12  | Storage temp. / 储存温度                |        | °C   | -40 ~ +80       |                                     |
| 13  | Dimension / 外形尺寸                    |        | mm   | φ6.0 × 2.7      | See appearance drawing              |
| 14  | Terminal / 端子                       |        |      | Terminal        | See appearance drawing              |

### 3. Typical Frequency Response Curve / 典型频响曲线

半指向



### 4. Appearance Drawing / 外形尺寸图

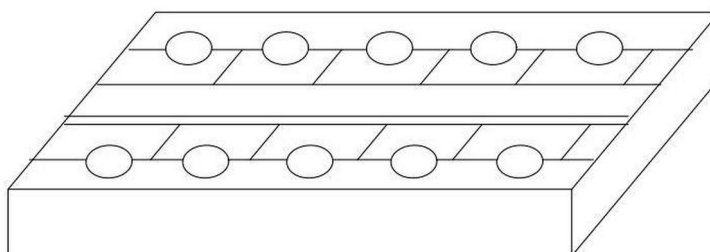




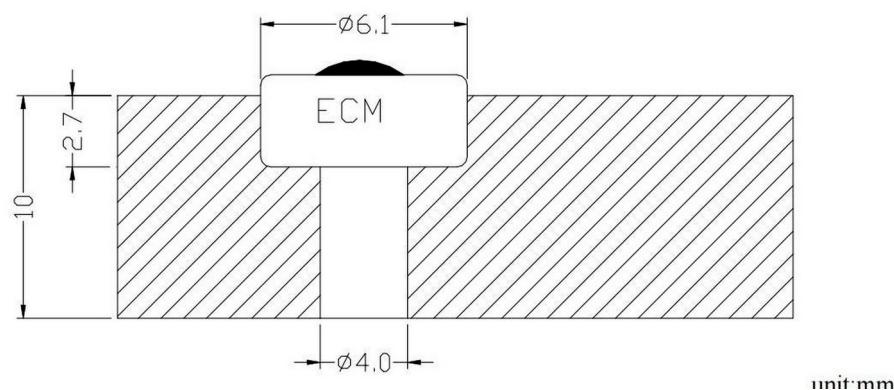
## 7. Soldering Condition / 焊接条件

|     |                                                                                                                                                  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 7-1 | The soldering copper of a type of 90W shall be applied. / 使用 90W 烙铁。                                                                             |
| 7-2 | The temperature of the working surface of the soldering copper shall be $320\pm 10^{\circ}\text{C}$ . / 烙铁表面温度 $320\pm 10^{\circ}\text{C}$ 。     |
| 7-3 | ECM shall be soldered fixed on the metal block (heat sink) which has the higher radiation effects; shall contact with ECM. / 焊接时把咪头嵌入散热能力强的金属块内。 |
| 7-4 | Time for each terminal shall be 2~3 sec. / 每个端子焊接时间 2~3 秒。                                                                                       |
| 7-5 | The pinhole after soldering shall be avoided. / 焊接后不能出现针孔。                                                                                       |
| 7-6 | ECM may easily be destroyed by static electricity; anti-static countermeasures shall be executed. / 必须采取防静电措施。                                   |

### 7-7 Shape of Heat Sink / 散热板形状



### 7-8 Shape of Hole at Fixed Part / 固定部孔形状



## 8. Packaging / 包装方式

按客户要求包装。

Packaging according to customer requirements.