



深圳市兴华鑫电子科技有限公司  
Shenzhen xinghuaxin Electronic Technology Co., Ltd

# 承認書

## SPECIFICATION FOR APPROVAL

客戶 (Customer): \_\_\_\_\_  
客戶料號 (Customer P/N): \_\_\_\_\_  
興華鑫型號 (Supplier P/N): XHVDZ-6050 平頭  
產品名稱 (Description): 咪頭 (Microphone)  
產品規格 (Specification): 6\*5MM

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 客戶承認欄<br>(Customer Authorization<br>Signature) | 深圳市興華鑫電子科技有限公司 承認欄<br>(Supplier Audit) |     |     |
|                                                | 審核                                     | 檢查  | 制作  |
|                                                | 唐国兴                                    | 唐玉来 | 吴银娟 |
|                                                | 日期: 2022 年 04 月 19 日<br>版次: A          |     |     |

声音让生活更精彩!

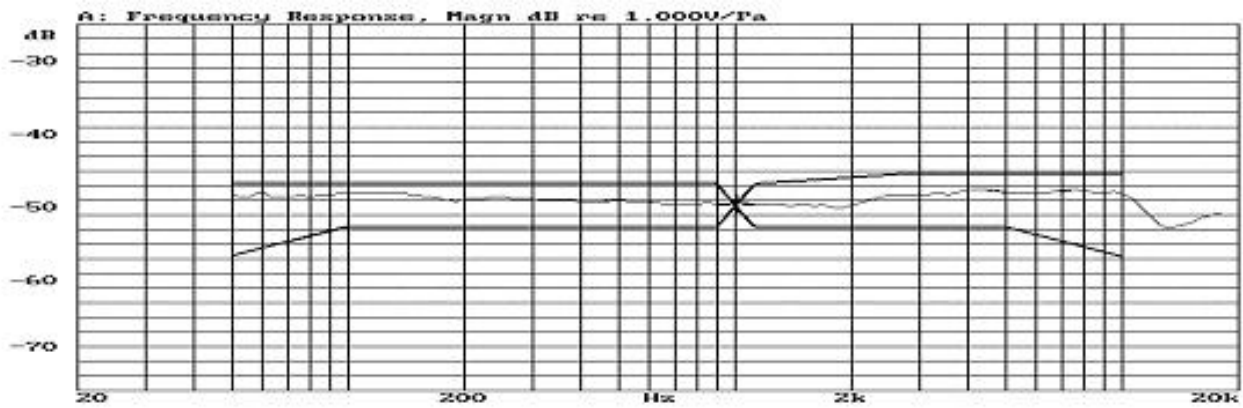
地址: 深圳市宝安区新安街道新乐社区新乐路 88 号厂房四层  
TEL: 0755-27892904 13652428659  
QQ: 438730351 2993501458  
E-mail: [jacky.tang@jsxhxdz.com](mailto:jacky.tang@jsxhxdz.com)  
Http: [www.jsxhxdz.com](http://www.jsxhxdz.com)

1、 Electrical Characteristics:

Test Condition (Vs=4.5V RL=2.2K Ω Ta=20℃ R.H.=70%)

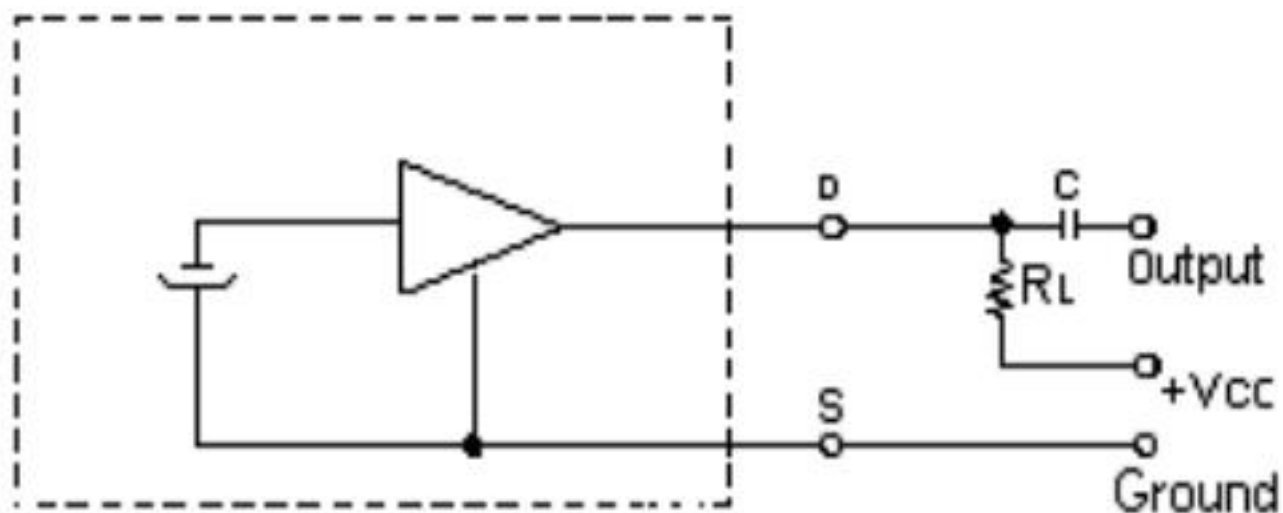
| Item                              | Symbol    | Test Conditions                     | Minimum | Standard | Maximum | Unit |
|-----------------------------------|-----------|-------------------------------------|---------|----------|---------|------|
| Sensitivity                       | S         | Pin=1 Pa ,<br>f=1kHz                | -54     | -50      | -52     | dB   |
| Output Impedance                  | Zout      | Low Impedance                       |         |          |         |      |
| Directivity                       |           | Unidirectional                      |         |          |         |      |
| Current consumption               | I         |                                     |         |          | 500     | μ A  |
| S/N ratio (A)                     | S/N (A)   | Pin=1 Pa ,<br>f=1kHz (A Curve)      | 50      |          |         | dB   |
| Decreasing Voltage Characteristic | Δ S       | Pin=1 Pa ,<br>f=1kHz<br>Vs=2.0~1.5V |         |          | -3      | dB   |
| Operating Voltage                 |           | DC                                  | 1.5     | 4.5      | 10      | V    |
| Charging Type                     | Diaphragm |                                     |         |          |         |      |

2、 Frequency Response Curve:



|                 |     |     |     |      |      |      |      |      |      |
|-----------------|-----|-----|-----|------|------|------|------|------|------|
| Frequency(Hz)   | 100 | 200 | 900 | 1000 | 1200 | 2000 | 4000 | 5000 | 8000 |
| Upper Limit(dB) | 3   | 3   | 3   | 0    | 3    | 5    | 6    | 6    | 6    |
| Lower Limit(dB) | -3  | -3  | -3  | 0    | -3   | -3   | -3   | -3   | -5   |

#### 4. Standard test circuit:

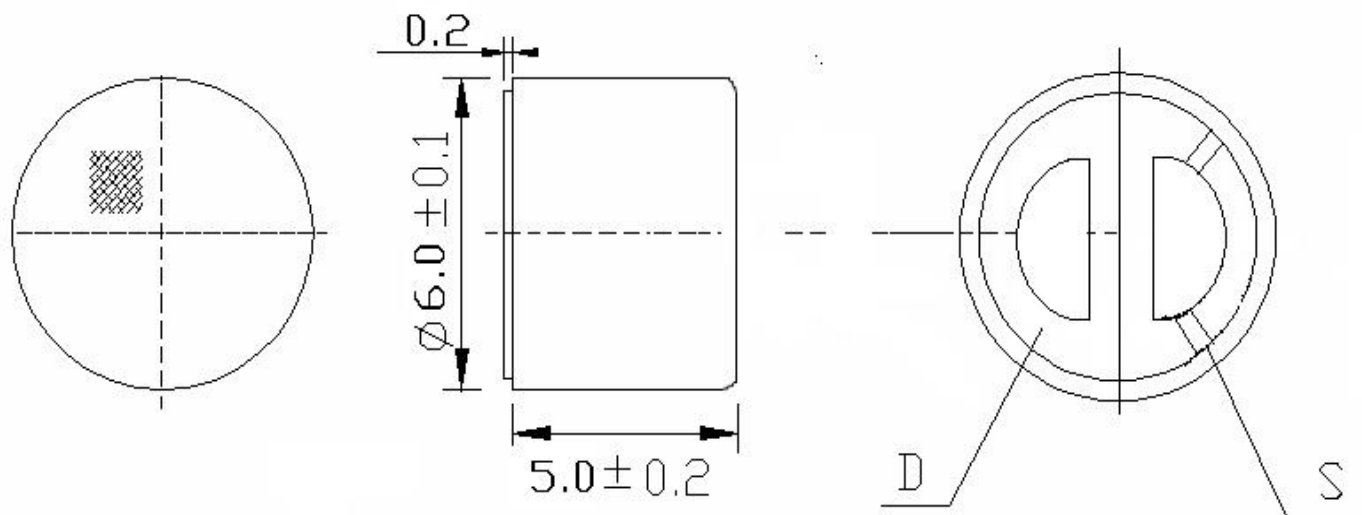


$R_L=2.2k\Omega$  (External resistor)       $+V_{cc}=4.5V$        $C=1\mu F$

#### 5、 Mechanical Characteristics

|                       |                        |
|-----------------------|------------------------|
| Dimension             | See appearance drawing |
| Weight                | Less than 1.0g         |
| Operation Temperature | -30℃ to +70℃           |
| Storage Temperature   | -40℃ to +85℃           |

## 6、 Appearance Drawing (Unit:mm)



## 7. Reliability Tests

|                |                                                                                                                                                                                                                            |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration Test | Vibration cycle of 10 to 50 Hz/min, for 2 hours, full Amplitude 1.52mm, in 3directions.<br>The sensitivity change within $\pm 3\text{dB}$ relative to initial value.                                                       |
| Drop Test      | To be no interference in operation after drop from 1.5 Meter height onto aconcrete surface, each time at three direction in state of packing, The sensitivity<br>change within $\pm 3\text{dB}$ relative to initial value. |
| Operating Life | Subject samples to $+70^{\circ}\text{C}$ for 1000 hours under full rated power.                                                                                                                                            |

## 7. Reliability Tests

|                       |                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Temperature Test | <p>The Microphone exposure at 70 °C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature.</p> <p>The sensitivity change within <math>\pm 3\text{dB}</math> relative to initial value.</p>                                                                         |
| Low Temperature Test  | <p>The Microphone exposure at -30 °C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature.</p> <p>The sensitivity change within <math>\pm 3\text{dB}</math> relative to initial value.</p>                                                                        |
| Static Humidity       | <p>Condition part at +25°C for 1 hour. Then expose to +70°C with 95% relative humidity for 240 hours. Finally allow to dry at room ambient for 4 hours before taking final measurements, The sensitivity change within <math>\pm 3\text{dB}</math> relative to initial value.</p>                                       |
| Temperature Shock     | <p>32 cycles of the following:</p> <p>30 minutes at -40°C followed by 30 minutes at 85°C with a 20 second maximum transition time between temperature extremes, The sensitivity change within <math>\pm 3\text{dB}</math> relative to initial value. 32 cycles of the following: 30 minutes at -40°C followed by 30</p> |

## 7. Reliability Tests

|                                              |                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | minutes at 85°C with a 20 second maximum transition time between temperature extremes, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.                                       |
| Lead Pull Test<br>(If applicable)            | Subject test leads to an increasing pull force (between the wire or lead and the transducer) until destruction occurs. Record the point of destruction. The minimum pull strength is 1Kg (2.2 pounds). |
| Solder Heat<br>Resistance<br>(If applicable) | Flux the terminations using a RMA solder flux ,then manually immerse the terminations into a $260 \pm 5^\circ\text{C}$ solder pot containing 63/37 solder for 10 to 11 seconds.                        |

## 8. Packing Specification

A、Small Packet 100pcs 65mmx65mmx5mm

(小包装盒 100 只/盒)

B、Middle Packet 1000pcs 130mmx65mmx75mm

(中包装盒 1000 只/盒)

C、Paper Case 10000pcs 230mmx220mmx300mm

(大包装盒 32000 只/盒)

## 8. Packing Specification

