



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):

XHxDZ-4015 带线

產品名稱 (Description):

咪头 (Microphone)

產品規格 (Specification):

4.0*1.5MM 引线

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
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1.适用范围 Scope

本规格书适用于背极式驻极体电容式麦克风

This specification applies back elect ret condenser microphone

2.型号 Model No. XHXDZ-4015 带线

3. 试验条件 Test Condition

3-1 标准试验条件 Standard Test Condition

- 温度/Temperature
- :5~35℃
- 相对对湿度/Rel.Humidity:45~85%(RH)
- 气压/Pressure
- :86~106KPa

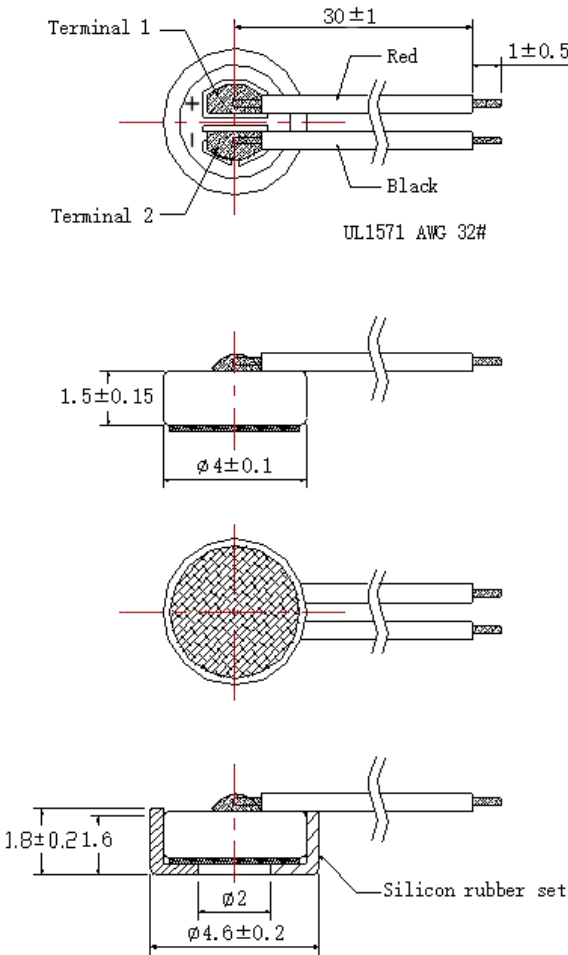
3-2 判定试验条件 Judgment Test Condition

- 温度/ Temperature
- :20±2℃
- 相对湿度/ Rel.Humidity:60~70%(RH)
- 气压/ Pressure
- :86~106KPa

4.规格 Specifications

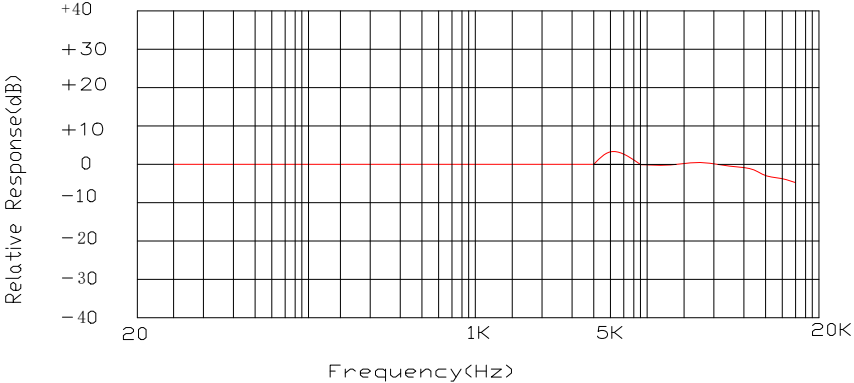
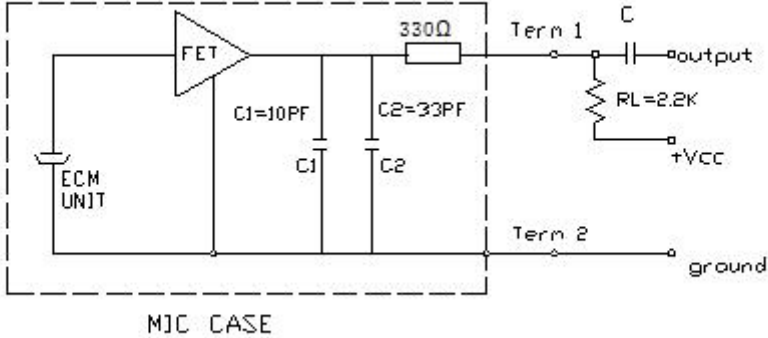
4-1 尺寸 Dimension	Φ4.0±0.1 x 1.75±0.2(H)mm
4-2 Elect ret	Back Elect ret
4-3 指向性 Directivity	Omni-directional
4-4 灵敏度 Sensitivity	-42±3DB (0DB=1V/Pa,1KHz)

4-5 尺寸图 Appearance and Dimension



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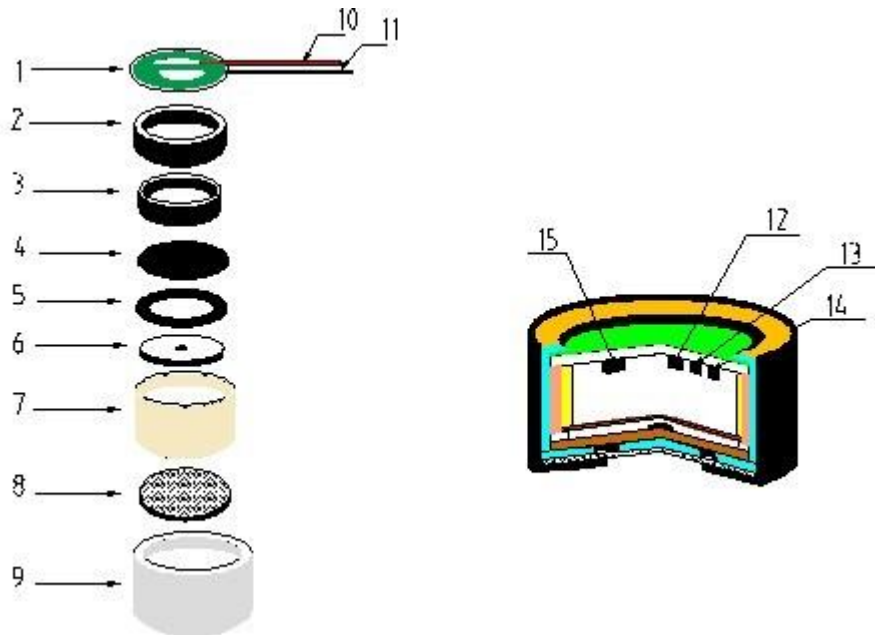
产品规格内容

4-6 负载阻抗 Operating Impedance	2.2K Ω
4-7 基准电压 Standard Power Supply	2.0V
4-8 操作电压 Operating Voltage	D.C1-10V (sensitivity Reduction: Within -3DB at 1.5V Compare to 3.0V)
4-9 频响特性 Frequency	50-16,000HZ
4-10 消耗电流 Current Consumption	Max.0.5mA
4-11 信噪比 S/N Ratio	More than 58DB
4-12 最大输入声压 Max input sound level	110DB SPL
4-13 周波数特性	Typical Frequency Response Curve 全指向性 
4-14 回路图	Test Circuit 

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产品规格内容

5、Part List Drawing



No. 序号	Part name 部件名称	Material Type 材料型号	Qty 数量	No. 序号	Part name 部件名称	Material Type 材料型号	Qty 数量
1	PCB	PCB-4015-04	1	8	防尘布	3.6*0.25	1
2	铜环	3.3*2.9*0.6	1	9	咪套	4618	1
3	塑环	3.7*3.2*0.6	1	10	线材	UL1571 AWG 32	1
4	膜片	3.7*2.8*0.2	1	11	线材	UL1571 AWG 32	1
5	垫片	3.7*0.02	1	12	电容	10pF 0201	1
6	背极	3.7*2.9*0.2	1	13	电容	33pF 0201	1
7	外壳	4.0*1.8	1	14	电阻	330 Ω 0201	1
				15	管芯	YD045	1

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产品规格内容

6. 信赖性试验 Reliability Test

经过以下所有试验在 20℃ 的条件下放置 3 小时后,麦克风的灵敏度与试验前比较变化在 3DB 以内
After any following tests, the sensitivity of the microphone to be within $\pm 3\text{DB}$ of initial sensitivity after 3hours of conditioning at 20℃

6-1 振动试验 Vibration	周波数 1/Frequency1:10Hz~55Hz 振幅/Amplitude:1.52mm 变化/Change of Frequency:1 octave/min 3 方向,各 2 小时/hours in each of 3 axes
6-2 高温试验 Dry Heat	+70℃ for 72 hours
6-3 低温试验 Dry Cold	-20℃ for 72 hours
6-4 高温高湿试验 Damp Heat	90%~95%RH, +40℃ for 240 hours
6-5 温度循环试验 Temperature cycles	-20℃ $\longleftrightarrow$ 25℃ $\longleftrightarrow$ 70℃ $\longleftrightarrow$ -20℃ (2h) (1h) (2h) (1h) (2h) (2h) x 10 cycles
6-6 跌落试验 Packing drop test	Height:1m 顺序:三个面各跌 5 次 Procedure:5 times from each of 3 axes

7. 备注 Note

7-1 动作温度范围 Operation Temperature
-40℃~75℃

7-2 保存温度范围 Storage Temperature
-40℃~75℃

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产品规格内容

8.焊接条件 Soldering Condition

8-1 焊接使用 13W~20W 的烙铁。

The soldering copper of a type of 13W~20W shall be applied

8-2 电烙铁表面温度低于 350℃

The temperature of the working surface of the soldering copper shall be below 320℃

8-3 焊接时把麦克风嵌入散热能力强的金属块内。

ECM shall be soldered fixed on the metal block(heat sink)which has the higher radiation effects said heat sink

Shall contact with of ECM .

8-4 焊接时间控制在 1~2 秒内。

time for each terminal shall be 1~2 sec.

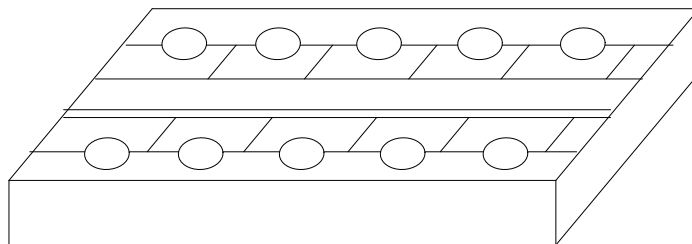
8-5 焊接后不能出现针孔。

The pinhole after soldering shall be avoided.

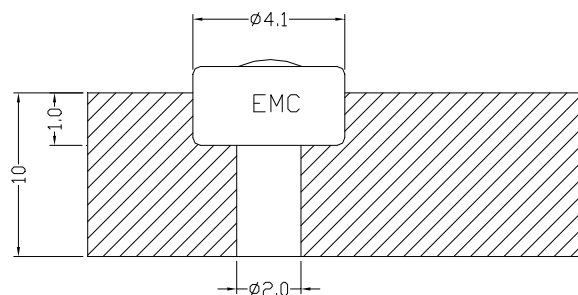
8-6 静电容易破坏麦克风必须采取措施避免（电烙铁接地，戴静电环等。）

ECM may easily destroyed by the static electricity and the countermeasure for eliminating the static electricity(the ground for soldering copper, for worktable and for human body)shall be executed.

8-7 放热板形状 Shape of heat sink



8-8 固定部孔形状 Shape of hole at fixed part



unit:mm