



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-MIC6050-UNI01 单指向驻极体咪头 / Unidirectional Electret Condenser Microphone

Item 项目	Information 信息
Customer 客户	
Customer P/N 客户料号	
Supplier 供应商	常州市嘉传电子有限公司 Changzhou Jiachuan Electronics Co., Ltd.
Jiachuan P/N 嘉传型号	JC-MIC6050-UNI01
Description 产品名称	单指向驻极体咪头 / Unidirectional Electret Condenser Microphone
Main Specification 主要规格	Ø6.0×5.0mm -36~-66±3dB 2.0V ≤2.2kΩ 50-16000Hz S/N ≥58dBA
Revision 版本	A0

Approval / 签核

Prepared 制作	Checked 审核	Approved 批准	Company Seal 公司印章
李明珠	王敏娜	黄继桥	

Customer Confirmation / 客户确认

Signature / 签字 : _____ Date / 日期 : _____



常州市嘉传电子有限公司

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1. Scope / 适用范围

This specification applies to electret condenser microphone, GMI6050U-36-66DB.

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

Test condition / 测试条件: $RL=2.2K\Omega$ $VS=2V$ $TEMP=20^{\circ}C\pm 2^{\circ}C$ Related humidity= $65\pm 5\%$

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	2V	
4	Output impedance / 输出阻抗	Zout	K Ω	≤ 2.2	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	$\Delta S-Vs$	dB	-3	f=1KHz, 1Pa Vs=1.5VDC to 3.0VDC
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		$^{\circ}C$	-20~+70	
12	Storage temp. / 储存温度		$^{\circ}C$	-40~+80	
13	Dimension / 外形尺寸		mm	$\phi 6.0 \times 5.0$	See appearance drawing
14	Terminal / 端子			Terminal	See appearance drawing

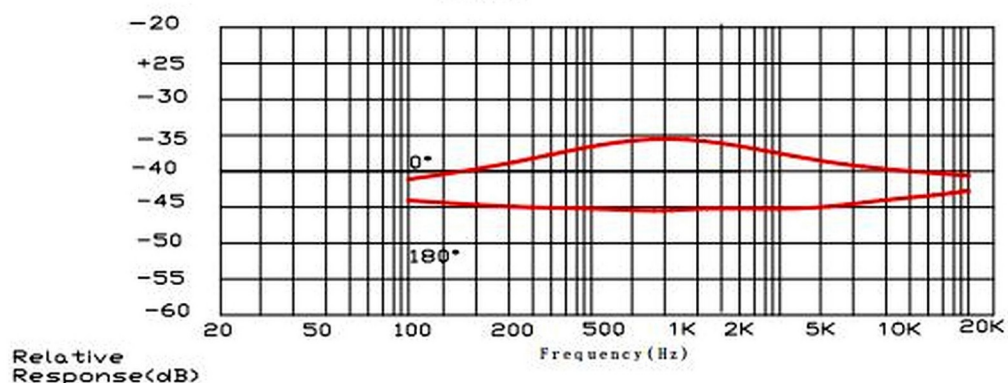


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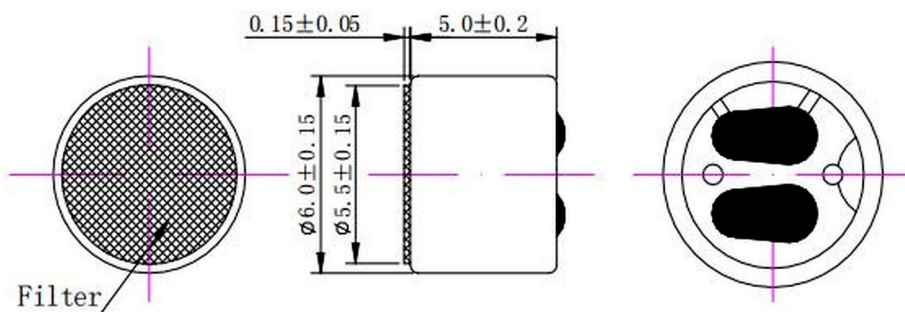
Changzhou Jiachuan Electronics Co., Ltd.

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

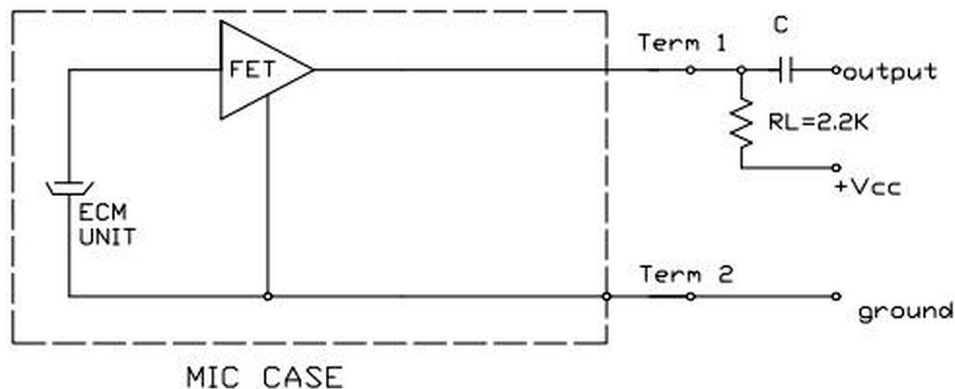
单指向



4. Appearance Drawing / 外形尺寸图



5. Measurement Circuit / 测量电路



6. Reliability Test / 可靠性试验

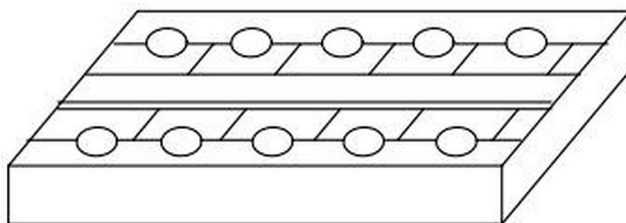
After any following tests, the sensitivity of the microphone to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C .

5-1 Vibration / 振动	Frequency: 10Hz ~ 55Hz; Amplitude: 1.52mm; Change of Frequency: 1 octave/min; 2 hours in each of 3 axes
5-2 Dry Heat / 高温	$+80 \pm 5^\circ\text{C}$ for 96 hours
5-3 Dry Cold / 低温	$-40 \pm 5^\circ\text{C}$ for 96 hours
5-4 Damp Heat / 高温高湿	90% ~ 95%RH, $+70 \pm 5^\circ\text{C}$ for 96 hours
5-5 Temperature cycles / 温度循环	$-20^\circ\text{C} \rightarrow 25^\circ\text{C} \rightarrow 70^\circ\text{C}$; (2h)(1h)(2h)(1h)(2h) $\times 10$ cycles
5-6 Packing drop test / 跌落	Height: 1m; 10 times from each of 3 axes
5-7 Temperature impact / 温度冲击	$-20^\circ\text{C} \leftrightarrow 70^\circ\text{C}$; 30min / 30s / 30min $\times 10$ cycles
5-8 Electrostatic shock / 静电冲击	6000V(contact), 15000V(air) $\times 10$ axes
6-1 Operation Temperature / 工作温度	$-20^\circ\text{C} \sim 70^\circ\text{C}$
6-2 Storage Temperature / 储存温度	$-40^\circ\text{C} \sim 80^\circ\text{C}$

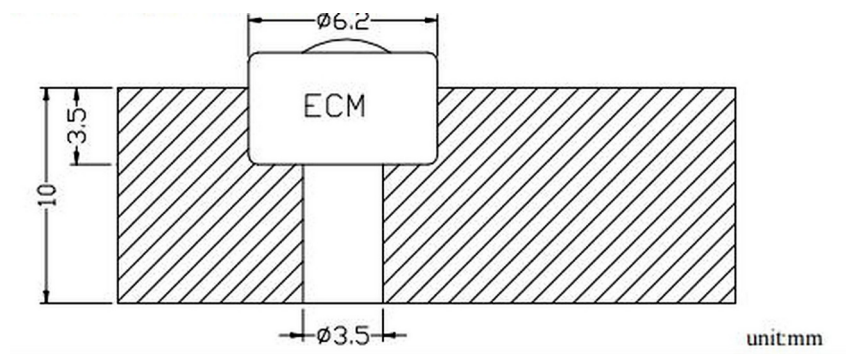
7. Soldering Condition / 焊接条件

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.