

Model No.

JL-0622C

SPECIFICATION
of **Electret Condenser Microphone**
(RoHS Compliance)

Model No.: JL-0622C

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Publication History

| Version | Description | Date | Author | Approved |
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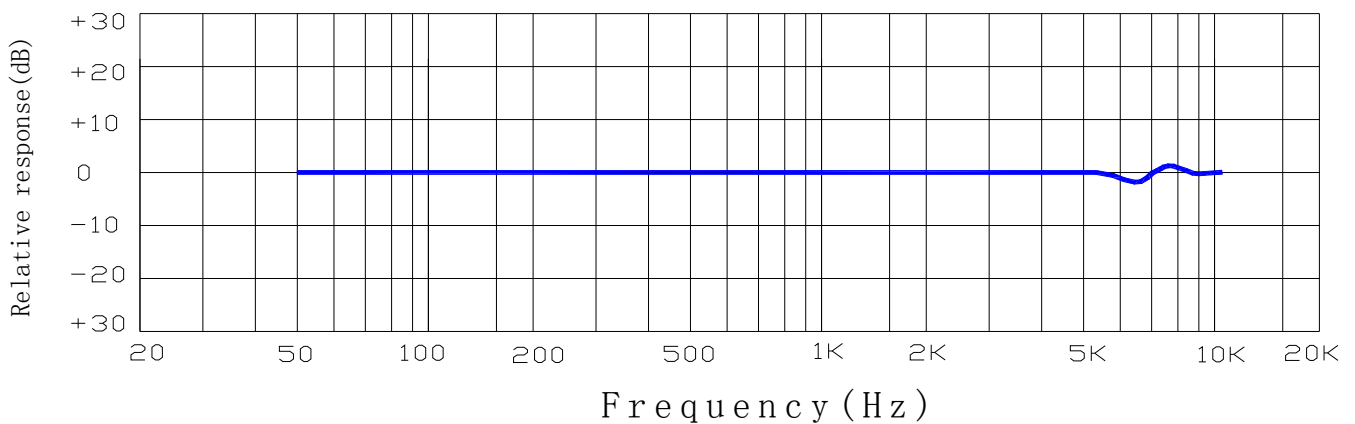


Scope: The specification describes the requirements of an omnidirectional condenser microphone.

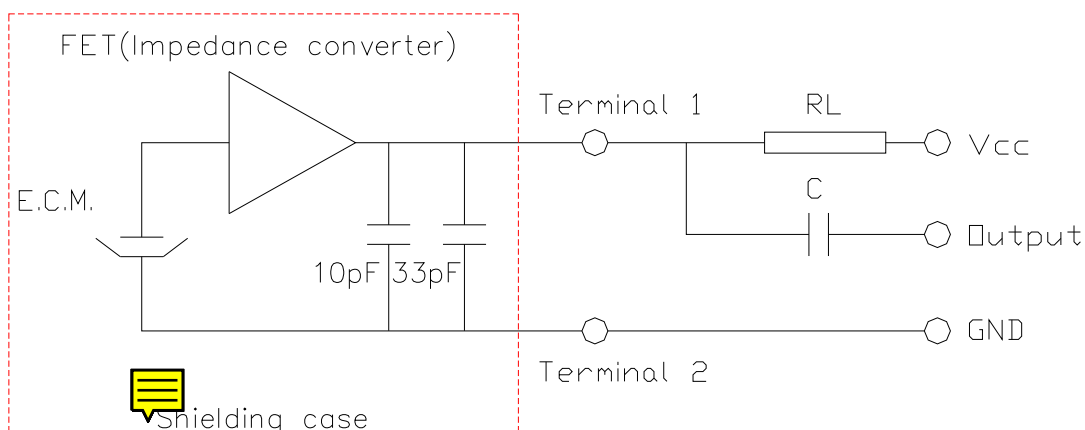
1、Electrical requirements: $V_{cc}=2.0V$, $R_L=2.2K\Omega$

| Items | Description | Min | TYP | Max | Unit |
|-------------------------|----------------------------|-----|-----|------|----------|
| Sensitivity | $f=1KHz$, $P_{in}=1Pa$ | -43 | -40 | -37 | dB |
| Output impedance | $f=1KHz$, $P_{in}=1Pa$ | | | 2.2K | Ω |
| Directivity | Omnidirectional | | | | |
| Power consumption | | | | 500 | μA |
| S/N ratio | A-weight, at 1Pa | 60 | | | dB |
| Max. input SPL | THD<1% | | 120 | | dB |
| Sensitivity reduction | V_{cc} from 2.0V to 1.0V | | | -3 | dB |
| Operating voltage range | | 1.0 | | 10 | V |

2、Frequency response



3、Measurement schematic :

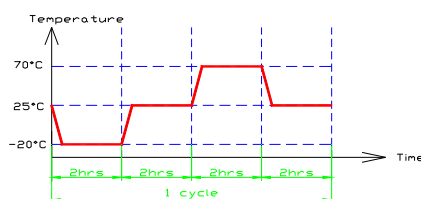


4、Mechanical requirements :

3-1、Dimension : $\varnothing 6.0 \times 2.2$ mm3-3、Soldering heat shock : After soldering heat shock at $310 \pm 5^\circ\text{C}$ for 2 ± 1 seconds.
The microphone should be without damage.3-4、Terminal strength : After applied a 1 Kg force on terminal for 1 minute.
The microphone should be without damage.3-5、Operating temperature range : $-20^\circ\text{C} \sim 70^\circ\text{C}$ 3-6、Storage temperature range : $-30^\circ\text{C} \sim 85^\circ\text{C}$

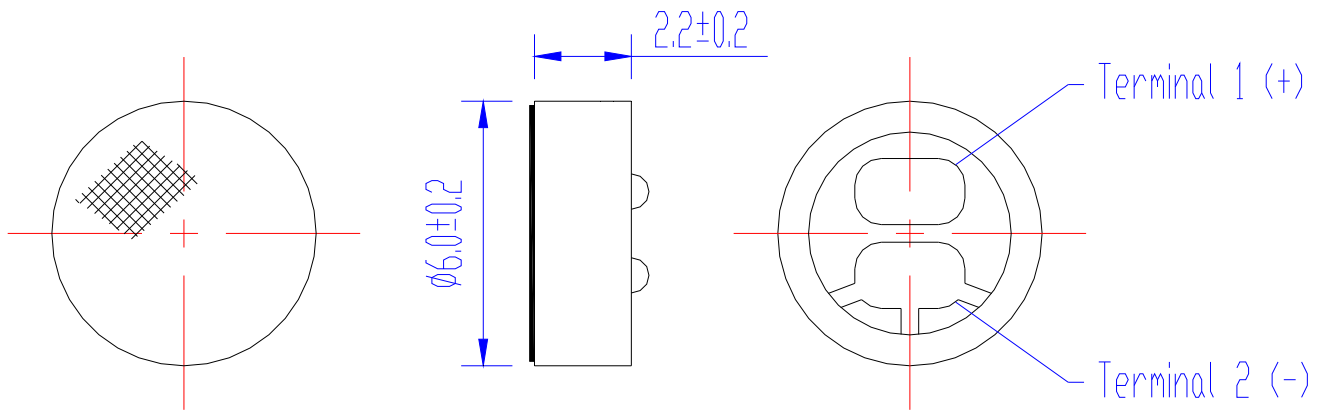
5、Reliability test :

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration test | After vibrations with 10Hz~55Hz, full amplitude 2mm to each 3 perpendicular directions for 30 minutes at three axes. The sensitivity should be within ± 3 dB from initial value. |
| Drop test | After drop from 1 meter height to concrete floor, each 5 face for 5 times with packing. The sensitivity should be with ± 3 dB from initial value. |
| Humidity test | After exposure at $40 \pm 2^\circ\text{C}$ and 90%~95% humidity for 48 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.) |
| High temperature test | After exposure at $85 \pm 2^\circ\text{C}$ for 72 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.) |
| Low temperature test | After exposure at $-30 \pm 2^\circ\text{C}$ for 72 hours. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.) |
| Temperature cycle test | After exposure at $-20 \pm 2^\circ\text{C}$ for 2 hours, at $25 \pm 2^\circ\text{C}$ for 2 hours, at $70 \pm 2^\circ\text{C}$ for 2 hours, 5 cycles. The sensitivity should be with ± 3 dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$.) |

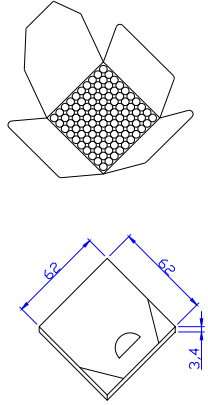
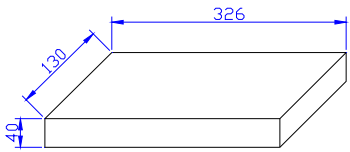
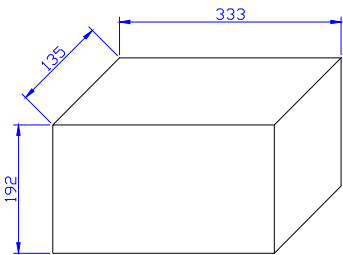


6、Microphone dimension :

Unit : mm



7、Packing

| | Drawing | Quantity | Material | Re-mark |
|---------------|-------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------------------------------------|
| Inner packing |  | 100 pcs / box | Box White paper 62x62x3.4mm | Label: ModelNo. Q'ty: QC mark RoHS mark |
| Middle box |  | 100x7x10 =7,000pcs | White paper 326x130x40mm | Label: ModelNo.: Q'ty: RoHS mark |
| Outer carton |  | 7,000x4 =28,000 pcs | Paper 333x135x192mm | Label: ModelNo.: Q'ty: RoHS mark |

