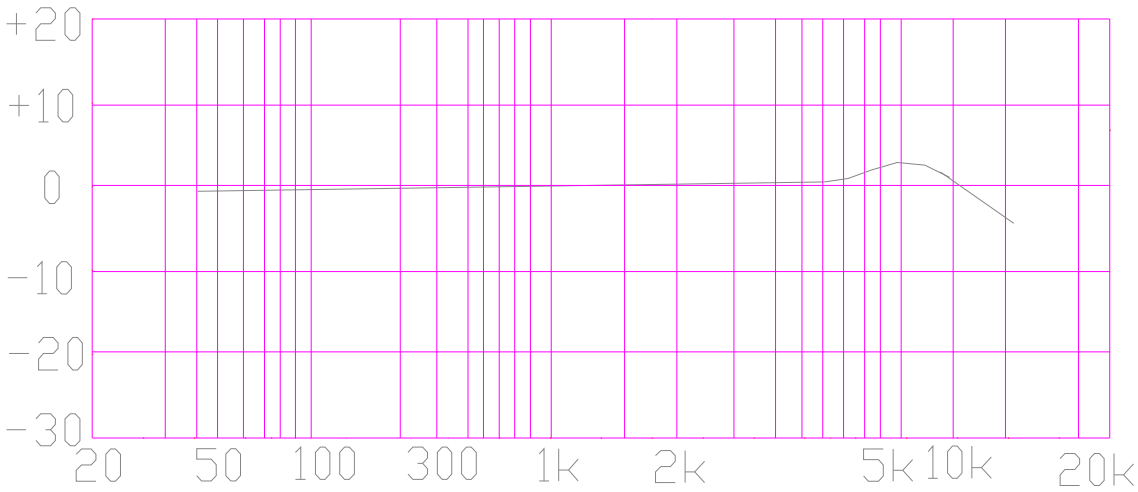
**LOUDITY**

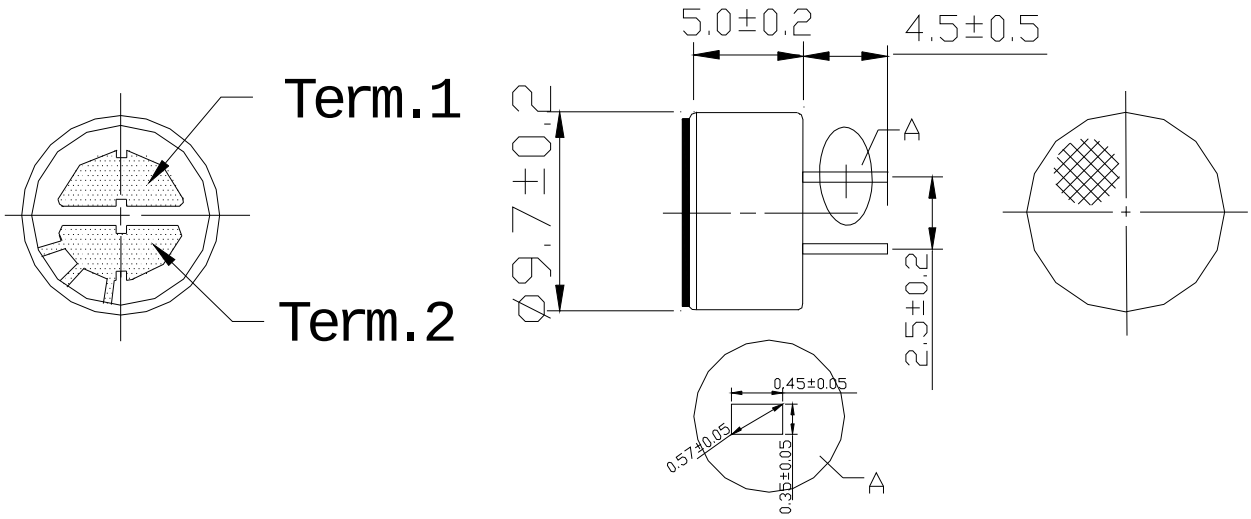
# SPECIFICATION of LD-MC-0905P

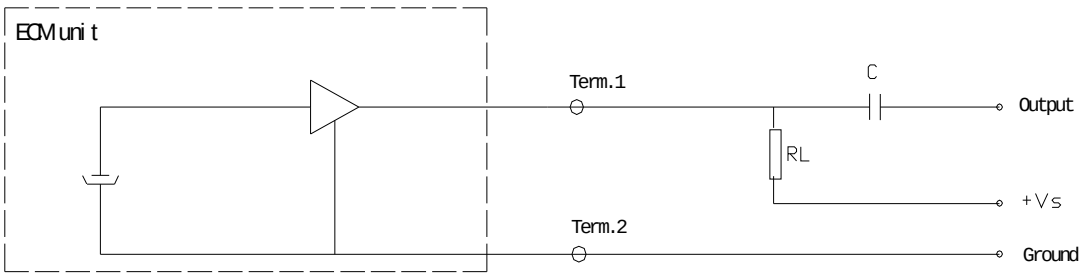
| No. | Item | Unit | Specification | Condition |
|---|---|---|---|---|
| 1 | Directivity | | Omnidirectional | |
| 2 | Sensiivity | dB | -42±3dB | F=1KHz<br>0dB=1V/Pa |
| 3 | Standard operating voltage | V | 3V | |
| 4 | Output impedance | Ω | 2.2K | F=1KHz 1Pa |
| 5 | Max. operating voltage | V | 10 | |
| 6 | Sensitivity reduction | dB | -3 | At 1.5V to 3.0V |
| 7 | Frequency | Hz | 50~16000Hz | |
| 8 | Max.current consumption | mA | 0.5 | |
| 9 | Signal to noise ration | dB | 60 | F=1KHz 1Pa<br>A weighted |
| 10 | Storage temp | ℃ | -20℃~+60℃ | |
| 11 | Dimension | mm | Φ9.7×5.0 | See appearance drawing |
| 12 | Material | | AL | |
| 13 | Terminal | | Pin Type | See appearance drawing |

# TYPICAL FREQUENCY RESPONSE CURVE




# APPEARANCE DRAWING&MEASUREMENT CIRCUIT

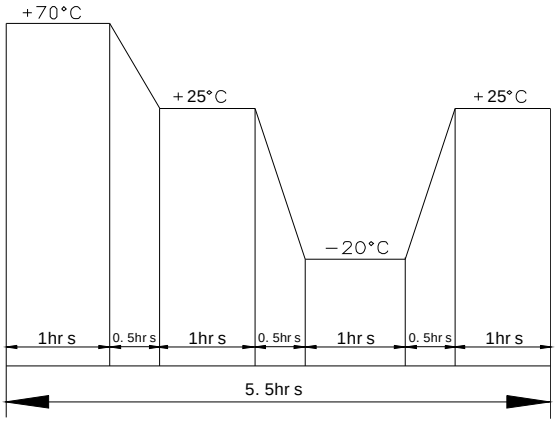


## MECHANICAL CHARACTERISTICS

| NO. | **item** | Test condition | Evaluation standard |
|---|---|---|---|
| 1 | Soldering Heat Resistance | Soldering iron of +330±5□ should be placed on the terminal for 2±0.5 seconds. | No interference in operation |
| 2 | Vibration Test | The part shall be measured after being applied vibration of amplitude of 1.5mm with 10to 55hz band of vibration frequency to each of 3per-pendicular directions for 2hours. | After any tests, the sensitivity to be within ±3dB. |
| 3 | Drop Test | The microphone unit without packaged must be subjected to each 3 drops at three axises from the height of 1 meter to 20mm thick wooden board. | |

## ENVIRONMENTAL TEST

| NO. | **Item** | Test conditions | Evaluation standard |
|---|---|---|---|
| 1 | High temp.test | After being placed in a chamber at +70□ for 72 hours. | After any tests, the sensitivity to be within ±3dB of intial sensitivity after 6 hours of conditioning at +25□ |
| 2 | Low temp. test | After being placed in a chamber at -25□ for 72 hours. | |
| 3 | Humidity test | After being placed in a chamber at +60□and 90±5% relative humidity for 240 hours. | |
| 4 | Temp.cycle test | The part shall be subjected to 10 cycles.One cycle shall be consist of:   | |

TEST CONDITION.

Standard Test Condition: a)Temperature:+5~+35□ b)Humidity:45-85% c)Pressure:860-1060mbar

Judement Test Condition: a)Temperature:+25±5□ b)Humidity:60-70% c)Pressure:860-1060mbar