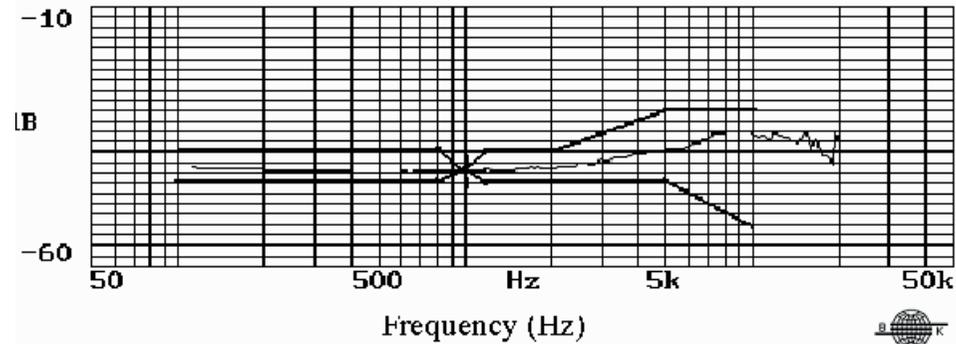


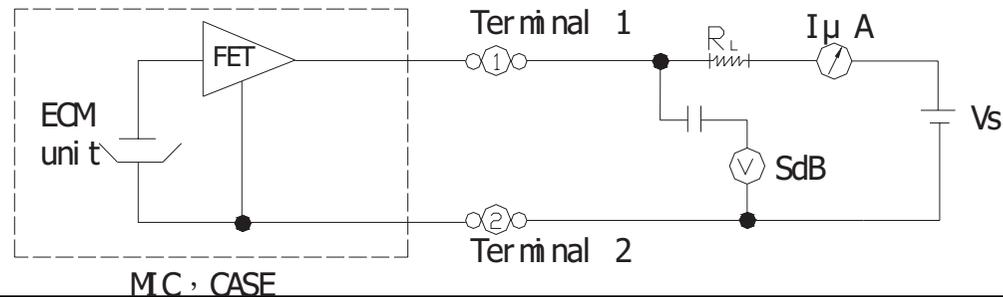
Electrical Specifications:

| | |
|---------------------------|---|
| Sensitivity Range | $-45 \pm 2\text{dB}$ $R_L=2.2\text{K}\Omega$ $V_{CC}=4.5\text{V}$ (1KHz 0dB=1V/Pa) |
| Impedance | Max .2.2K Ω 1KHz ($R_L=2.2\text{K}\Omega$) |
| Frequency | 20-16000 Hz |
| Current Consumption | Max.0.5mA |
| Operation Voltage Range | 1.0V-10V |
| Max. Sound Pressure Level | 120dB S.P.L |
| S/N Ratio | More than 58dB |
| Sensitivity Reduction | 4.5V-3.0V Sensitivity Variation less than 3dB |

Typical Frequency Response Curve:

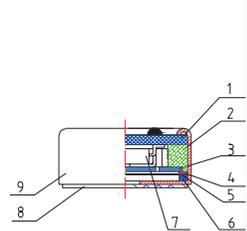


Schematic Diagram:



Mechanical Specifications:

Drawing



| Item | Part Name | Material | Qty | Color | Supplier |
|------|-----------|----------------|-----|------------|----------|
| 1 | P.C.B | BAKELITE EPOXY | 1 | GREEN | LOCAL |
| 2 | CHAMBER | FEP | 1 | BLACK/GREY | LOCAL |
| 3 | RING | BRASS | 1 | BRIGHT | LOCAL |
| 4 | SPACER | POLYESTER | 1 | RED/GREEN | LOCAL |
| 5 | DIAPHRAGM | FEP 46 | 1 | BRIGHT | U.S.A |
| 6 | RING | BRASS | 1 | BRIGHT | LOCAL |
| 7 | F.E.T | 2ST1109 | 1 | BLACK | SHANGHAI |
| 8 | SCREEN | NON-FIBREC ORD | 1 | BLACK | TAIWAN |
| 9 | CASE | ALUMINUM | 1 | BRIGHT | LOCAL |

| | |
|-----------------------|--|
| Vibration Test | The microphone unit must be subjected to a procedure that after vibrating for two hours from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high amplitude. |
| Dropping Test | The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1-meter-high without package. |

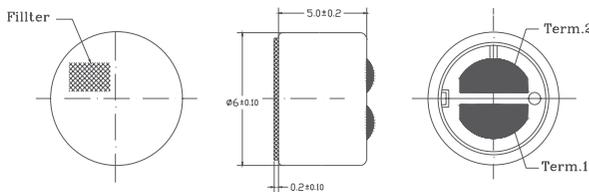
Environmental Condition:

| | |
|------------------------------|--|
| Storage condition | -20°C~+60°C R.H. less than 45%~75% |
| Operation condition | -10°C~+45°C R.H. less than 85% |
| Arbitration condition | Temperature : 20°C±1°C Relative humidity: 63%~67% Air pressure : 86~106Kpa |

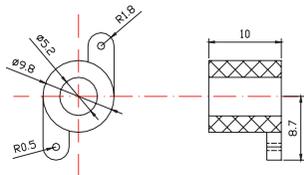
Notices:

All the soldering procedures upon microphones must be completed in a metallic device, the temperature of the soldering iron must be limited as 310°C± 20°C .
 Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.

Dimension (mm):



with the rubber(mm):



Weight 0.8g

Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than ±3dB from initial value, and shall keep their initial operation and appearance.

| | |
|-------------------------------|--|
| Hi-Temp. Test | The microphone unit must be subjected to +70°C for 48 Hours, and expose to room temperature for 3 Hours. |
| Low-Temp. Test | The microphone unit must be subjected to -25°C for 48 Hours, and expose to room temperature for 3 Hours. |
| Humi.&Heat Tes | The microphone unit must be subjected to +40°C, 93% RH-for 48 Hours, and expose to room temp for 3 Hours . |
| Humidity Shocking Test | The microphone unit must be subjected to following conditions (+45°C 1H-room temp 1H;-10°C 1H-room temp 1H) at 5 cycle, and expose to room temp for 3 Hours. |