

General Description

Ø6.0mm x 2.2mm, Omnidirectional Electret Condenser Microphone (Foil Electret Type)

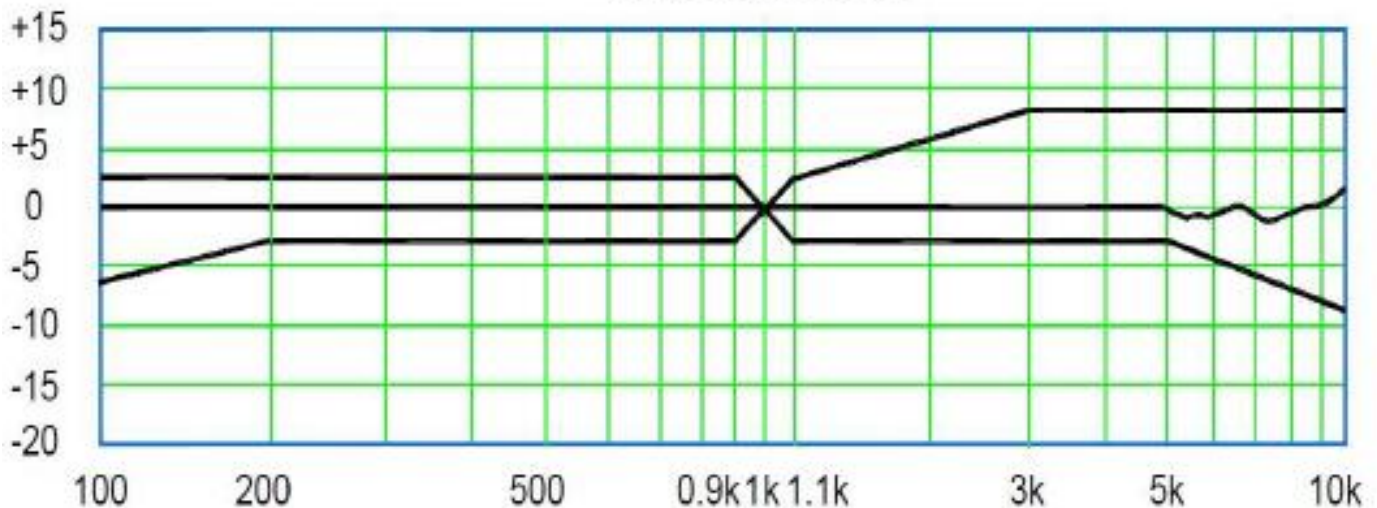


ELECTRICAL SPECIFICATIONS

| Parameters | | Value | | | Unit |
|-----------------------------|---|-------|--------|-------|------|
| | | min | center | max | |
| Frequency | | 50 | | 16000 | Hz |
| Sensitivity Range | @ 0dB=1V/Pa, @ 1kHz, RL=2.2kΩ, Vs=2.0V | -39 | -42 | -45 | dB |
| Current Consumption | @ V _{CC} =2.0V, RL=2.2kΩ | | | 500 | μA |
| Impedance | @ f=1kHz, RL=2.2kΩ | | | 2.2 | kΩ |
| Sensitivity Reduction | @ V _{CC} =3.0V ~ 2.0V | | | 3 | dB |
| Signal to Noise Ratio | @ 1kHz, 0dB=1V/Pa (A-Weighted Curve) | 58 | | | dB |
| Operating Voltage | | 1.0 | | 10 | V |
| Sound Pressure Level, max | @ 1kHz, THD<3% | 110 | | | dB |
| Operating Temperature Range | | -20 | | +70 | °C |
| Storage Temperature Range | | -20 | | +70 | °C |

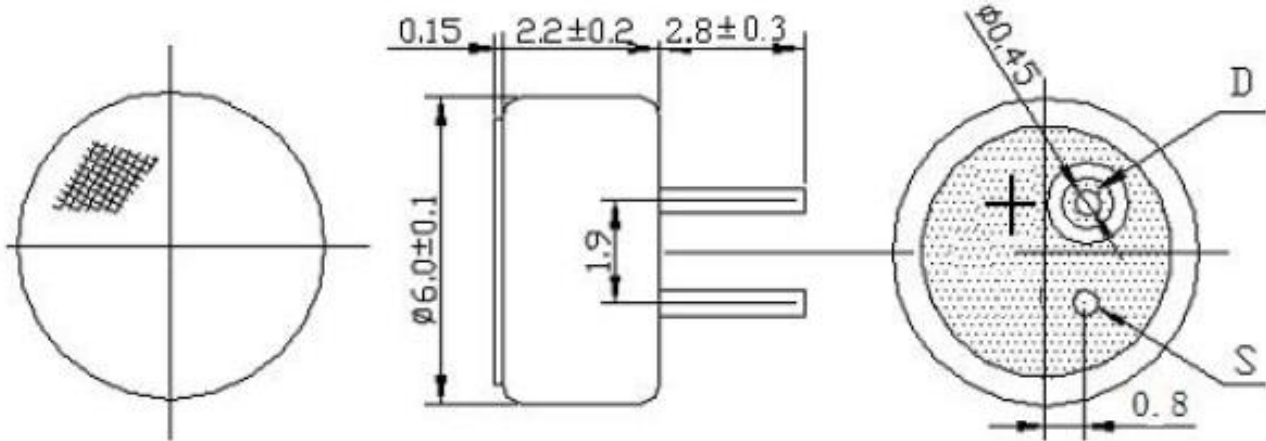
FREQUENCY CHARACTERISTICS

Frequency Response

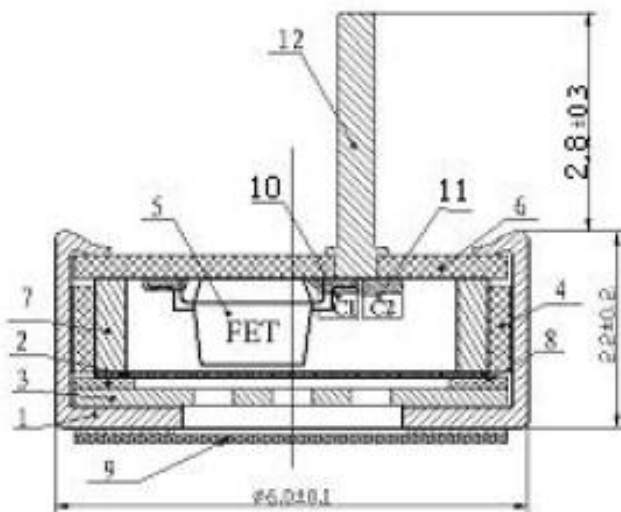


L=50m

DIMENSIONS AND MATERIAL/STRUCTURE

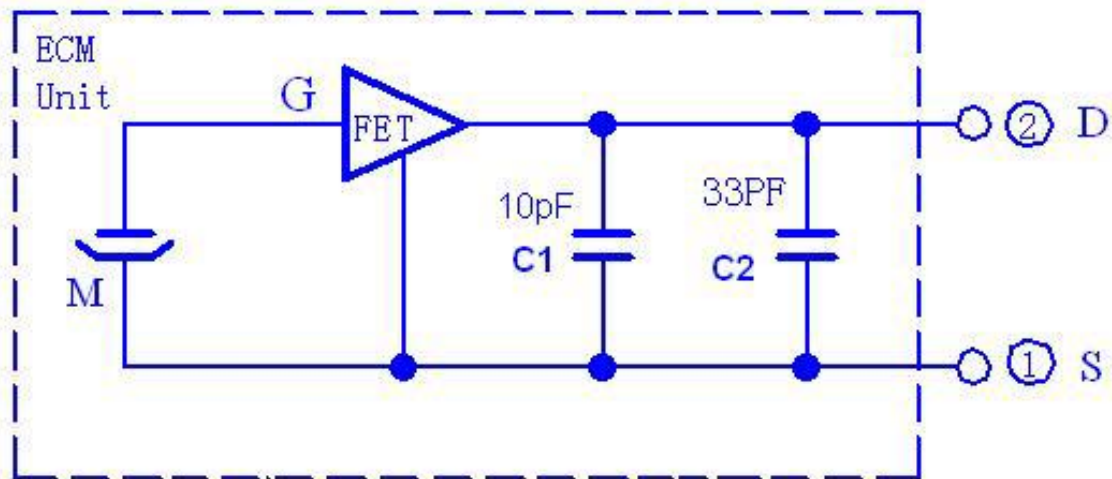


Unit: mm

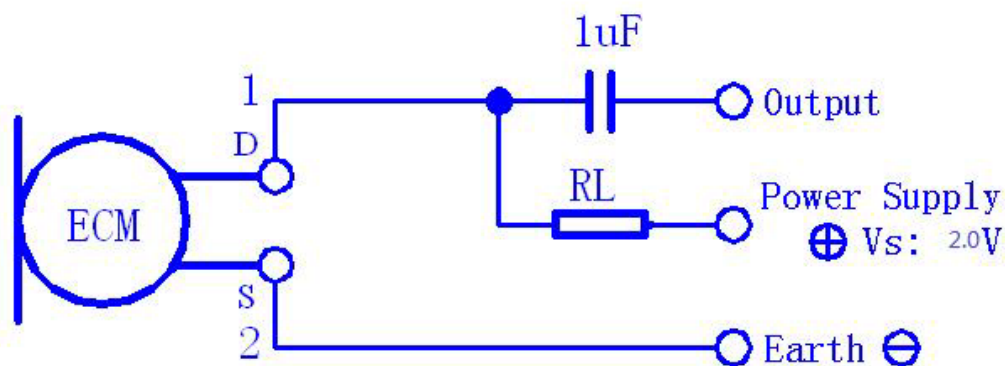


| NO. | NAME | Material | QTY | REMARK |
|-----|---------------------|------------------------|-----|-----------|
| 12 | PIN | | 2 | |
| 11 | CHIP-CAPACITOR | | 1 | 0402 33PF |
| 10 | CHIP-CAPACITOR | | 1 | 0402 10PF |
| 9 | FELT | Cotton dextron textile | 1 | |
| 8 | SPACER | Polyster film | 1 | |
| 7 | ELECTRET RING | H65 | 1 | |
| 6 | P.C.B | Glass fiber | 1 | |
| 5 | F.E.T | | 1 | |
| 4 | HOUSING CHAMBER | | 1 | |
| 3 | ELECTRET BACK | H62 | 1 | |
| 2 | POLARIZED DIAPHRAGM | Teflon | 1 | DUPONT |
| 1 | CASE | AL | 1 | |

CIRCUIT DIAGRAM



SCHEMATIC MEASURING DIAGRAM



RL:2.2K Ω (external resistance)

APPROVAL

| | |
|-------------|----------------------|
| DRAWN BY | AR, January13, 2025 |
| APPROVED BY | CP, January 13, 2025 |
| REVISION | A, Initial Release |



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