

General Description

Ø4.0mm x 1.3mm, Omnidirectional Electret Condenser Microphone (Back Electret Type)

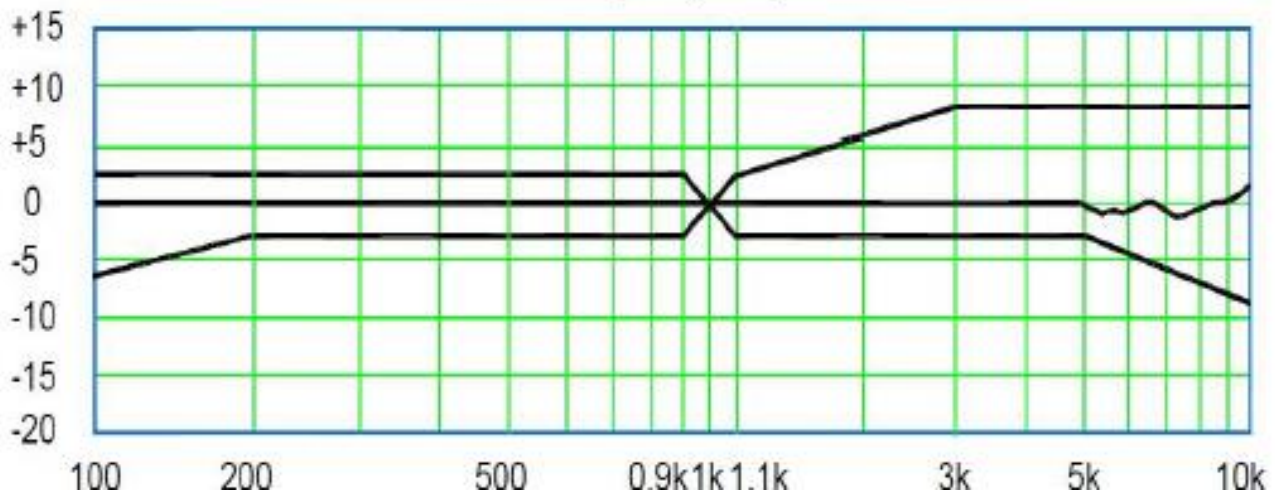


ELECTRICAL SPECIFICATIONS

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} =2.0V ~ 1.5V			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		-30		+70	°C
Storage Temperature Range		-30		+70	°C

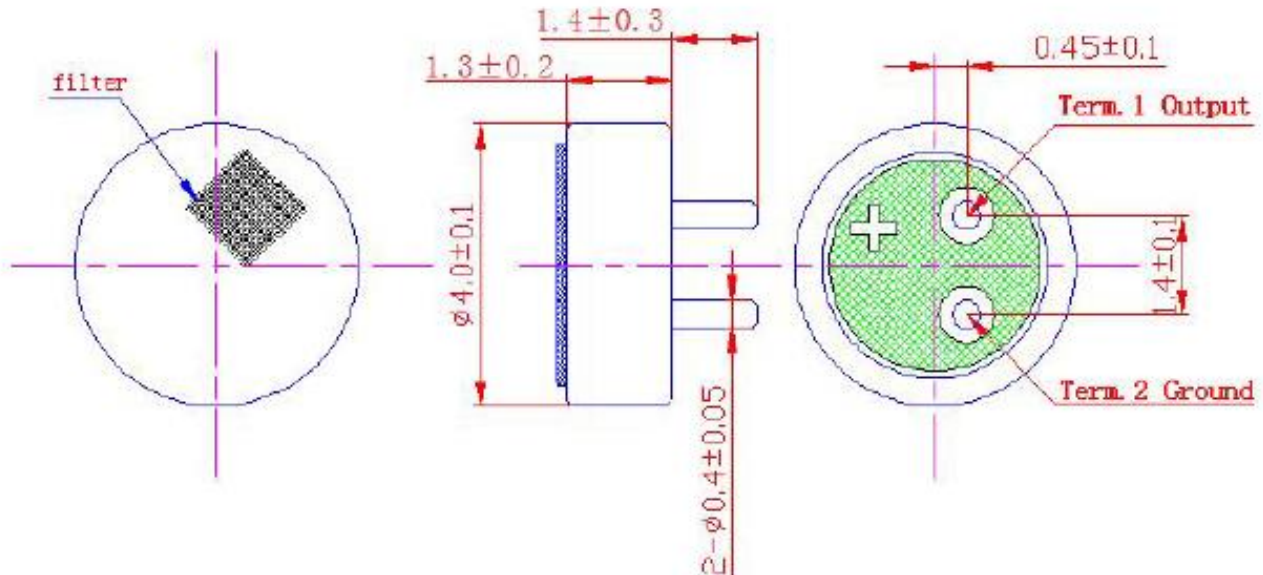
FREQUENCY CHARACTERISTICS

Frequency Response

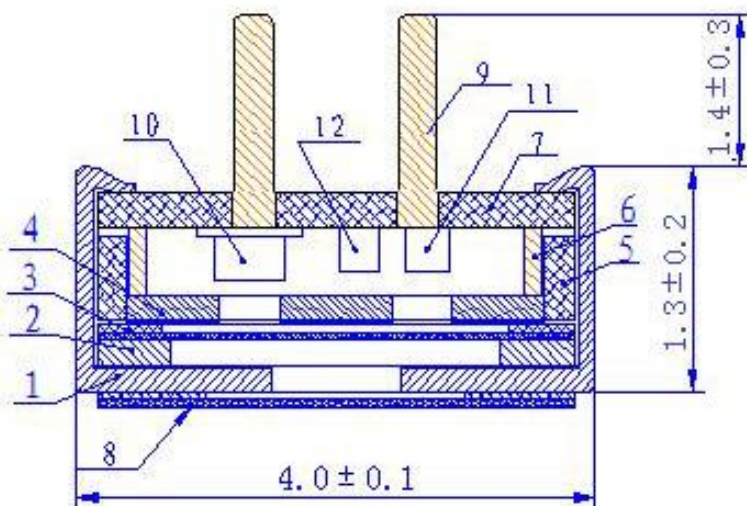


L=50m

DIMENSIONS AND MATERIAL/STRUCTURE

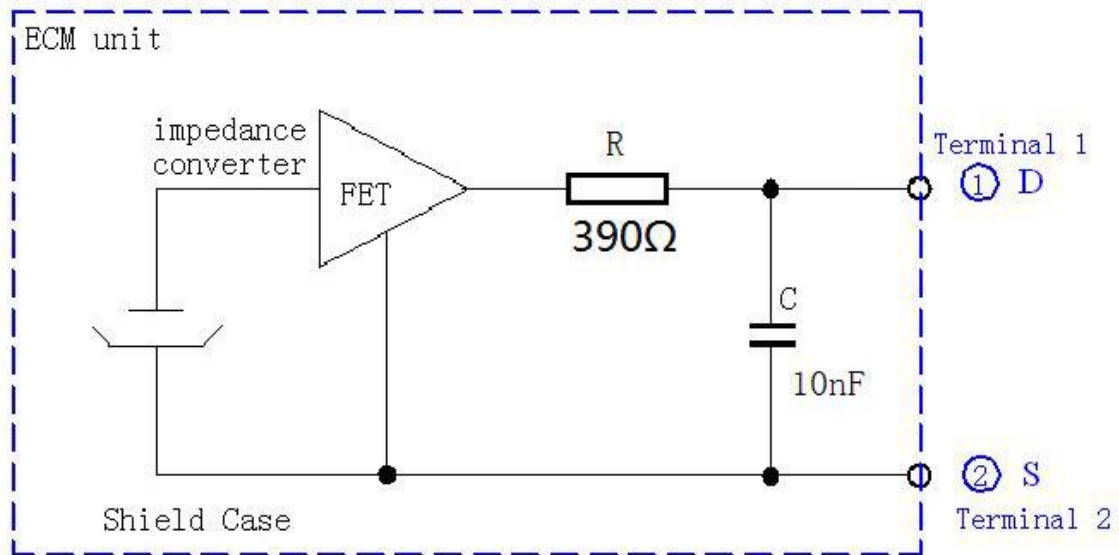


Unit: mm

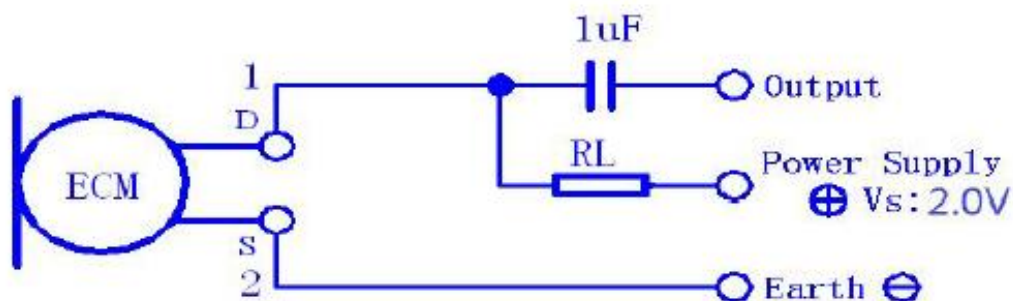


NO.	Name	Material	Remark
12	Capacitor	0201 10nF	
11	Resistor	0201 390Ω	
10	FET		
9	Pin	Brass	Coating Au
8	Filter	non-woven fabrics	
7	PCB	Glass Fiber	
6	Electret Ring	Brass	
5	Plastic Ring	POM	
4	Electret Back	Brass	Coating Ni
3	Spacer	PET	
2	Diaphragm		
1	Case	AL	

CIRCUIT DIAGRAM



SCHEMATIC MEASURING DIAGRAM



$R_L: 2.2K\Omega$ (external resistance)

APPROVAL

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



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