

General Description

Ø6.0mm x 2.7mm, Omnidirectional Electret Condenser Microphone (Foil Electret Type)

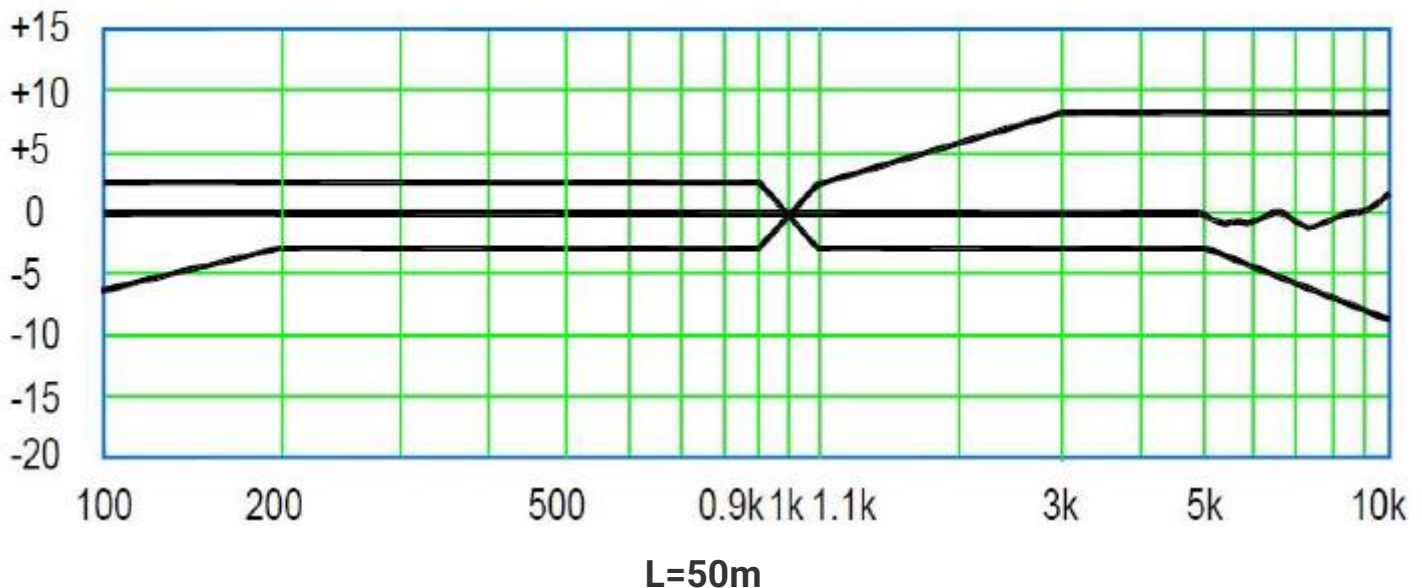


ELECTRICAL SPECIFICATIONS

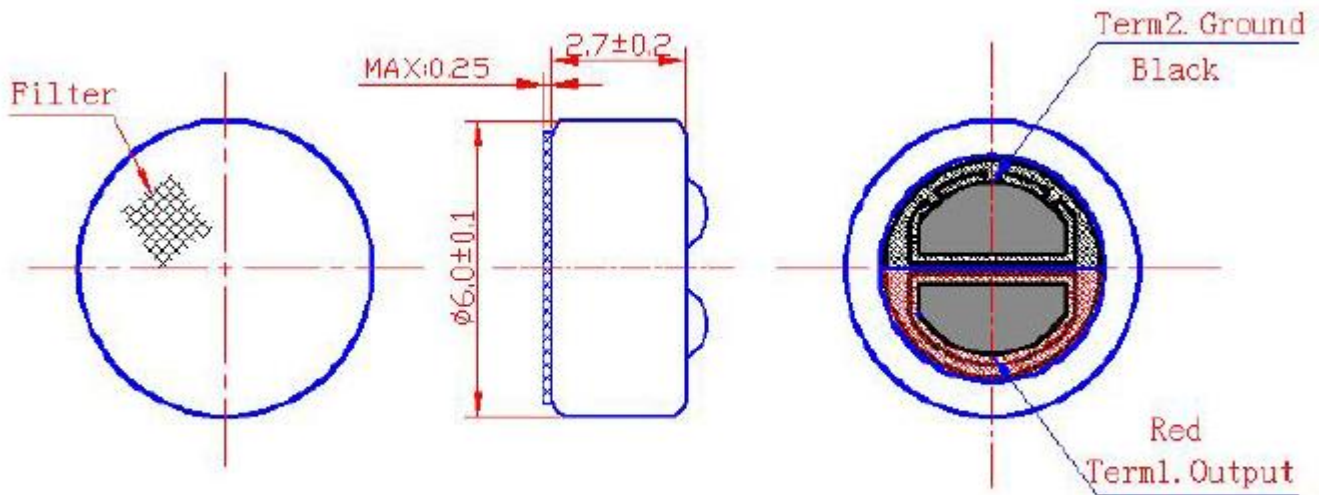
Parameters		Value			Unit
		min	center	max	
Frequency		50		16000	Hz
Sensitivity Range	@ 0dB=1V/Pa, @ 1kHz, RL=2.2kΩ, Vs=2.0V	-39	-42	-45	dB
Current Consumption	@ V _{CC} =2.0V, RL=2.2kΩ			500	uA
Impedance	@ f=1kHz, RL=2.2kΩ			2.2	kΩ
Sensitivity Reduction	@ V _{CC} =2.0V ~ 1.5V			3	dB
Signal to Noise Ratio	@ 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		-20		+70	°C
Storage Temperature Range		-20		+70	°C

FREQUENCY CHARACTERISTICS

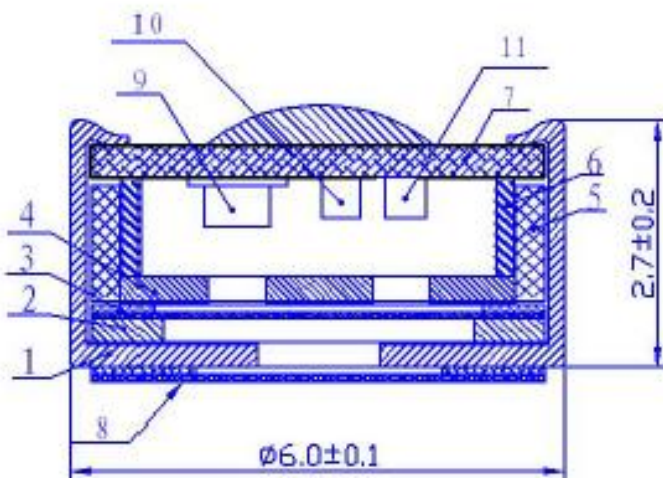
Frequency Response



DIMENSIONS AND MATERIAL/STRUCTURE

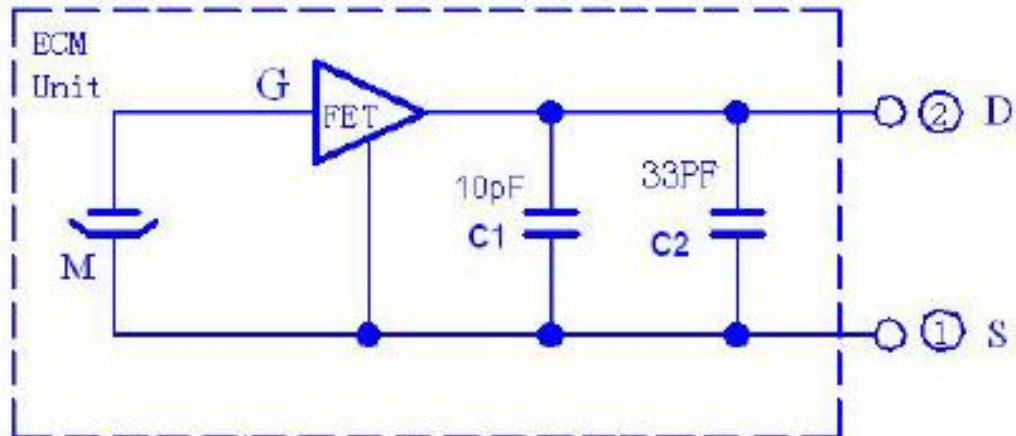


Unit: mm

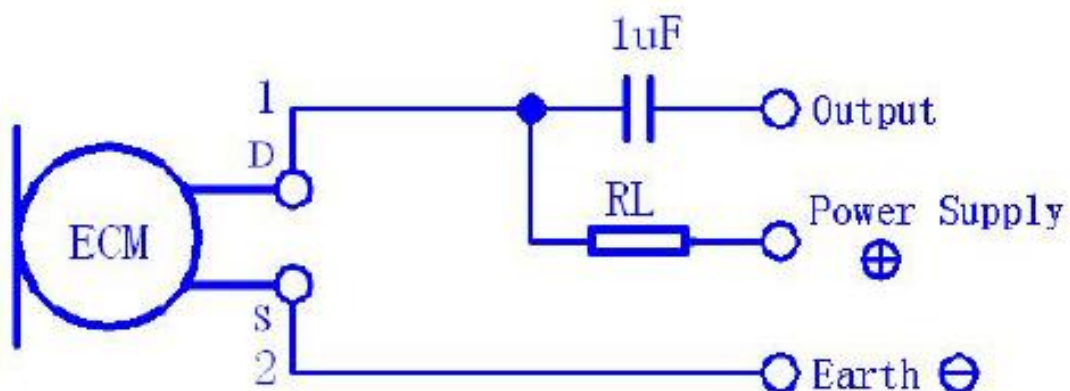


NO.	Name	Material	Remark
11	Capacitor	0402 33pF	
10	Capacitor	0402 10pF	
9	FET		
8	Filter	non-woven fabrics	Black
7	PCB	Glass Fiber	Epoxy FR4
6	Electret Ring	Brass H65	
5	Plastic Ring	PCM	
4	Electret Back		Brass
3	Spacer	PET	
2	Diaphragm		Coating Ni
1	Case	Al	

CIRCUIT DIAGRAM



SCHEMATIC MEASURING DIAGRAM



RL:2.2K Ω (external resistance)

APPROVAL

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



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