

General Description

Ø9.7mm x 5.0 Noise Canceling Microphone

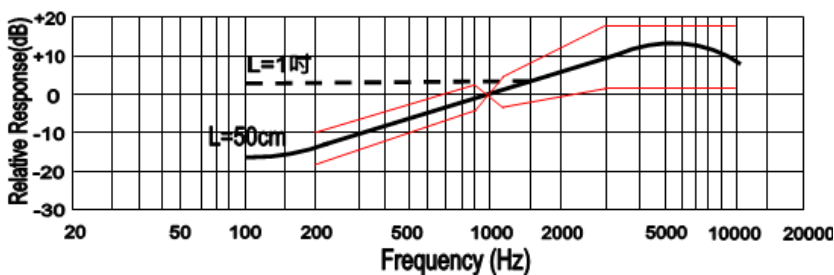


ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-41	-38	-35	dB
Current Consumption				500	µA
Output Impedance	@ f=1kHz			2.2	kΩ
Decreasing Voltage	@ V _{CC} =3.0V ~ 2.0V			-3	dB
Signal to Noise Ratio	@ 1kHz S.P.L=1Pa (A-Weighted Curve)	58			dB
Operating Voltage		1.0		10	V
Input S.P.L, max				110	dB
Operating Temperature Range		-40		+85	°C
Storage Temperature Range		-40		+85	°C

FREQUENCY CHARACTERISTICS

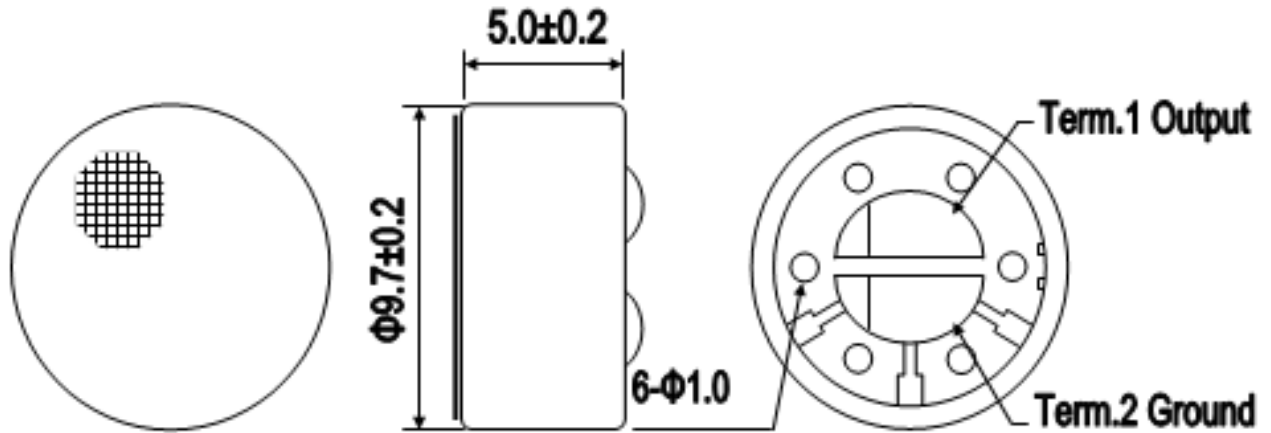
Frequency Response



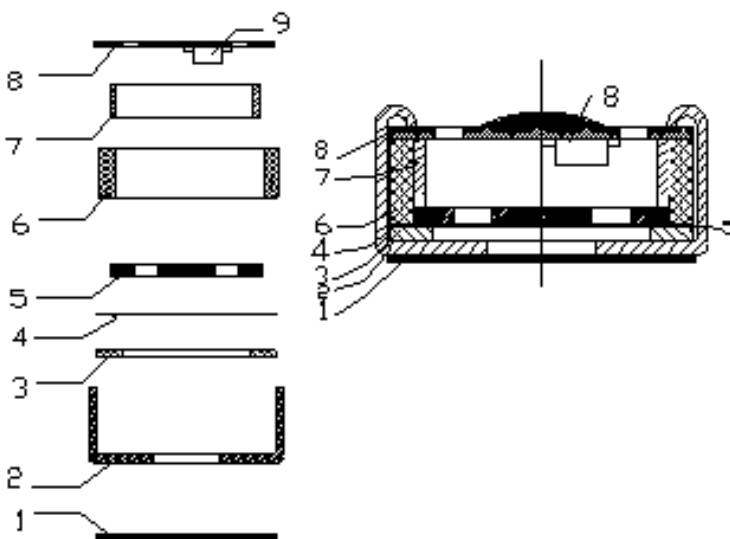
Microphone Response Tolerance Window

Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
200	-18	+10
800	-6	+2
1000	0	0
1200	-4	+4
3000	+2	+18
5000	+2	+18
10000	+2	+18

DIMENSIONS AND MATERIAL/STRUCTURE

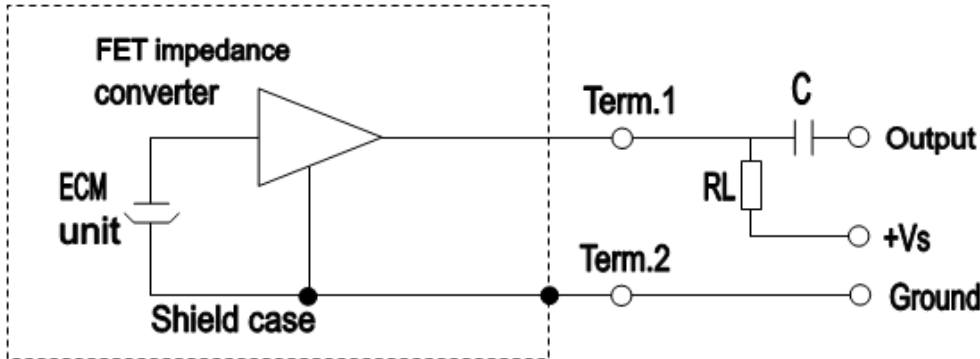


Unit: mm



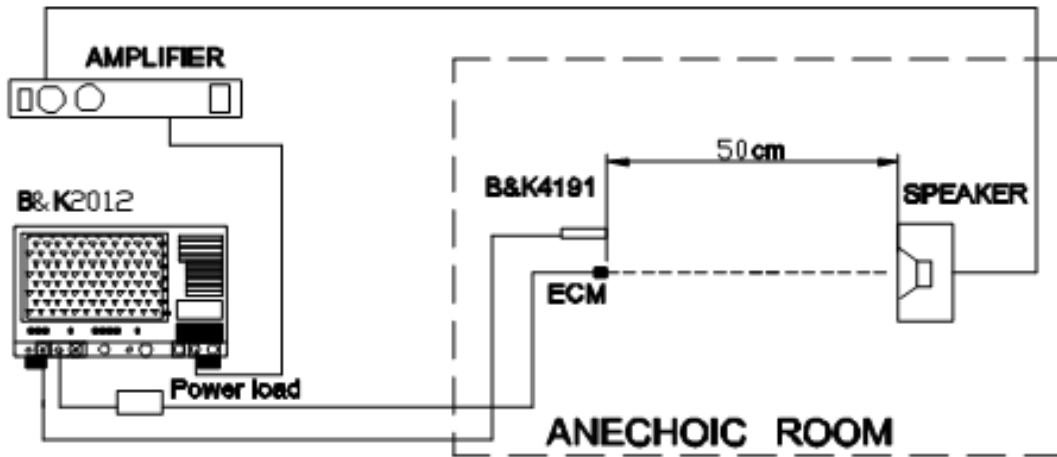
9	FET		1
8	PCB		1
7	Copper Ring	Copper Tube	1
6	Housing Chamber	Gather formaldehyde	1
5	Back Electret	Copper blank	1
4	Spacer	Mylar	1
3	Polarized Diaphragm	DUPONT	1
2	Case	AL-Mg-Alloy	1
1	FELT		1
No.	Name	Material	QTY

MEASUREMENT CIRCUIT



$R_L = 2.2K\Omega$
$V_s = 2.0V$
$C = 1\mu F$

MEASUREMENT SETUP DRAWING



APPROVAL

DRAWN BY	AR, August 1, 2024
APPROVED BY	CP, August 1, 2024
REVISION	A, Initial Release

