

General Description

Ø6.0mm x 2.2mm, Noise Cancelling Microphone

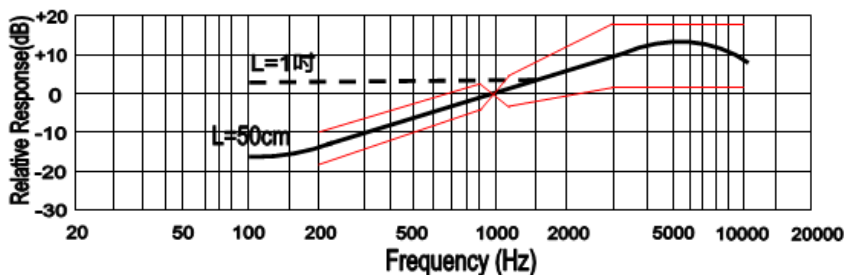


ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-47	-44	-41	dB
Current Consumption	@ V _{CC} =2.0V,RL=2.2kΩ			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)	55			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

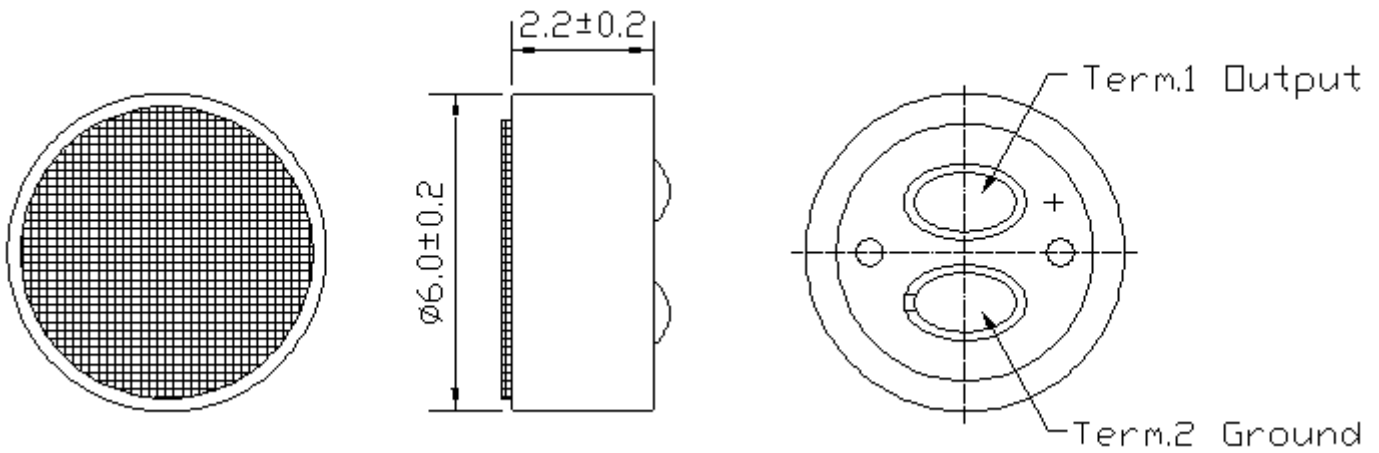
FREQUENCY CHARACTERISTICS

Microphone Response Tolerance Window

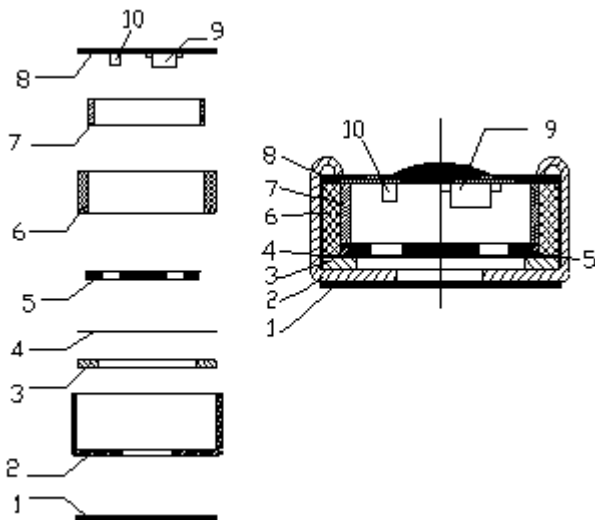


Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
200	-18	-10
800	-6	+2
1000	0	0
1200	-4	+4
3000	+2	+18
5000	+2	+18
10000	+2	+18

DIMENSIONS AND MATERIAL/STRUCTURE

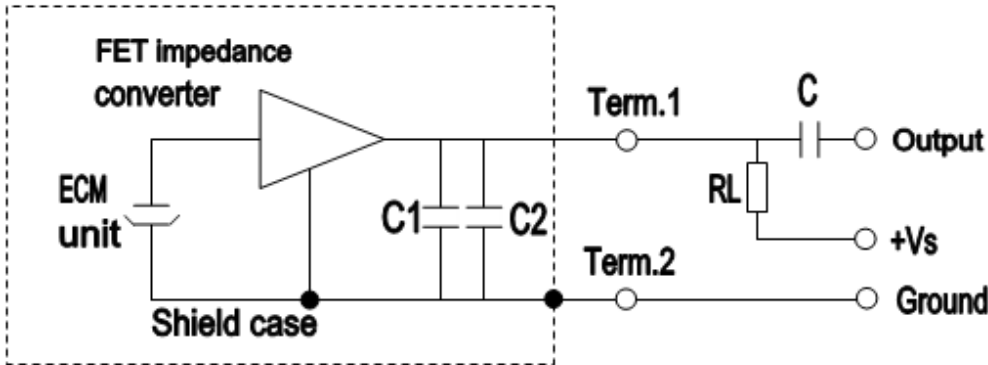


Unit: mm



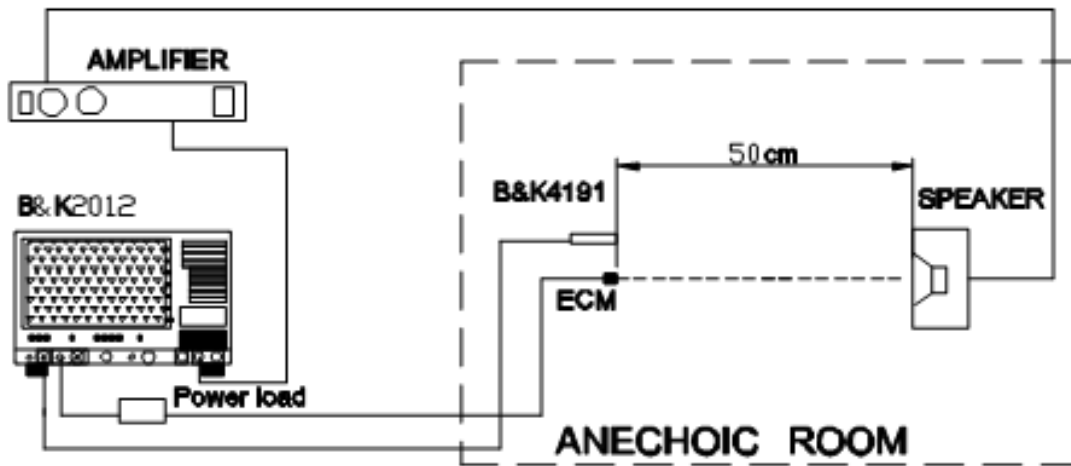
10	Capacitor		2
9	FET		1
8	PCB		1
7	Copper ring		1
6	Chamber		1
5	Electret Plate		1
4	Spacer		1
3	Diaphragm		1
2	Case	AL-Mg alloy	1
1	Dustproof gauze		1
No.	Name	Material	QTY

MEASUREMENT CIRCUIT



$R_L = 2.2K\Omega$
$V_s = 2.0V$
$C_1 = 10PF$
$C_2 = 33PF$
$C = 1\mu F$

MEASUREMENT SETUP DRAWING



APPROVAL

DRAWN BY	AR, Septembr 06, 2024
APPROVED BY	CP, Septembr 06, 2024
REVISION	A, Initial Release



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