

General Description

Ø6.0mm x 2.7mm, Omni-Directional Microphone



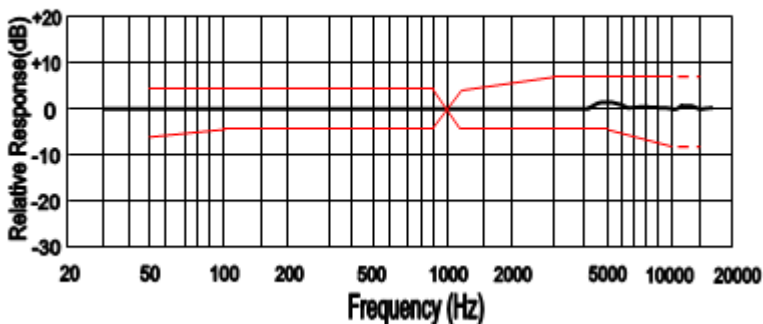
ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-45	-42	-39	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)	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

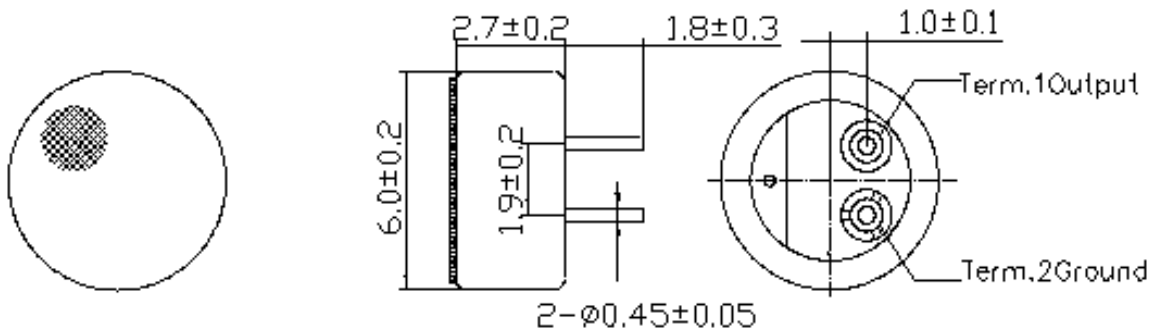
Microphone Response Tolerance Window

Frequency Response

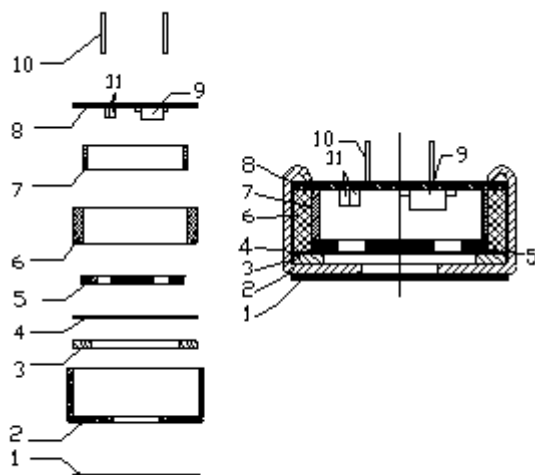


Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
50	-6	+3
100	-3	+3
800	-3	+3
1000	0	0
1200	-3	+3
3000	-3	+8
5000	-3	+8
10000	-8	+8

DIMENSIONS AND MATERIAL/STRUCTURE

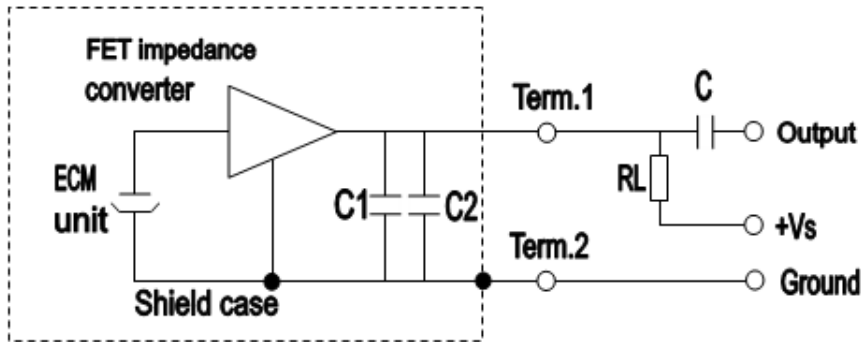


Unit: mm



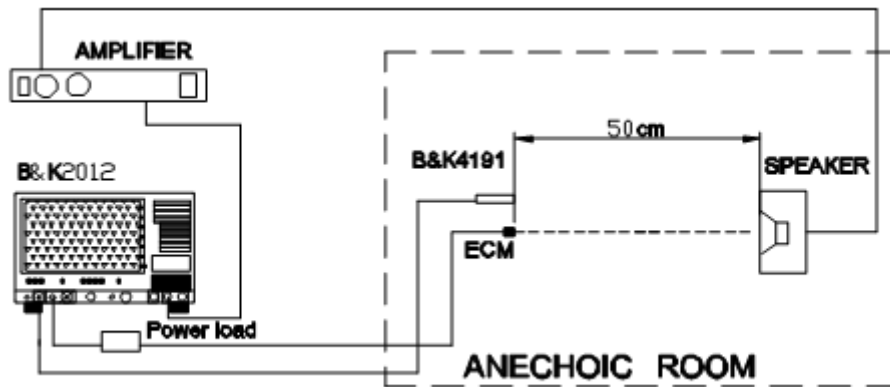
11	Capacitance		2
10	PIN		1
9	FET		1
8	PCB	FR4	1
7	Copper ring		1
6	Chamber		1
5	Electret Plate		1
4	Spacer		1
3	Diaphragm		1
2	Case	Al-Mg alloy	1
1	Dustproof gauze	Non-weave cloth	1
11	Capacitance		2
No.	Name	Material	QTY

MEASUREMENT CIRCUIT



$R_L = 2.2K\Omega$
$V_s = 2.0V$
$C1 = 10PF$
$C2 = 33PF$
$C = 1\mu F$

MEASUREMENT SETUP DRAWING



APPROVAL

DRAWN BY	AR, December 12, 2023
APPROVED BY	CP, December 12, 2023
REVISION	A, Initial Release



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