

### General Description

∅6.0mm x 2.7mm, Unidirectional Microphone

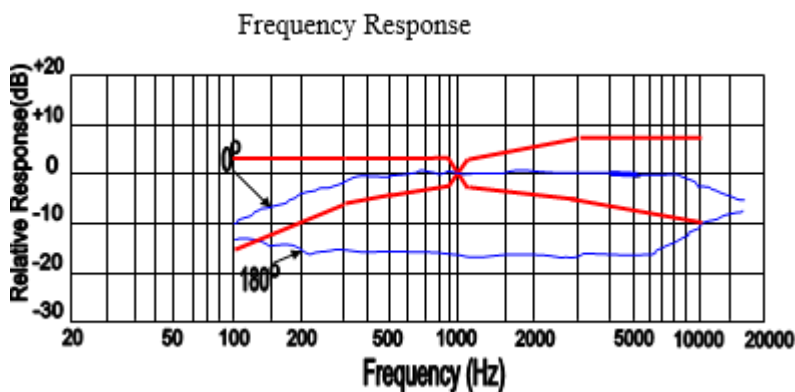


### ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-45	-42	-39	dB
Current Consumption	@ Vcc =2.0V,RL=2.2kΩ			500	μA
Output Impedance	@ f=1kHz			2.2	kΩ
Decreasing Voltage	@ Vcc=3.0V ~ 2.0V			-3	dB
Signal to Noise Ratio	@ 1kHz S.P.L=1Pa (A-Weighted Curve)	58			dB
Operating Voltage		1.0		5	V
Input S.P.L, max				110	dB
Directional Sensitivity	@1 kHz @ 180°	10			dB
Operating Temperature Range		-40		+85	°C
Storage Temperature Range		-40		+85	°C

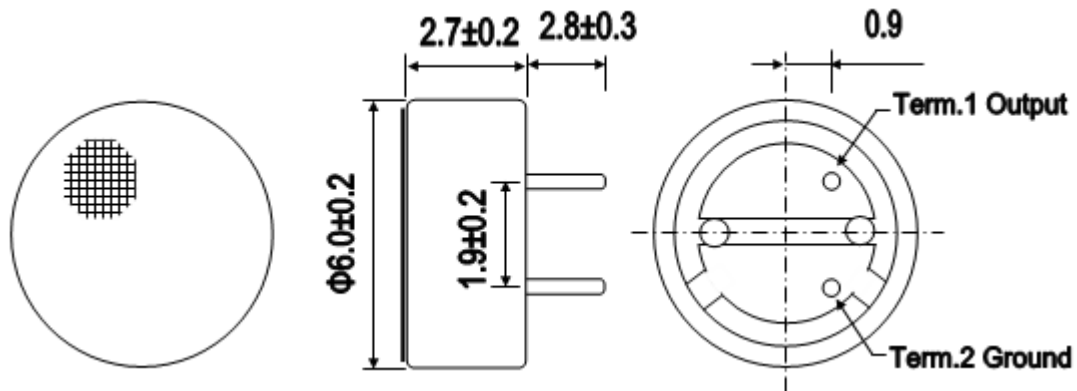
### FREQUENCY CHARACTERISTICS

Microphone Response Tolerance Window

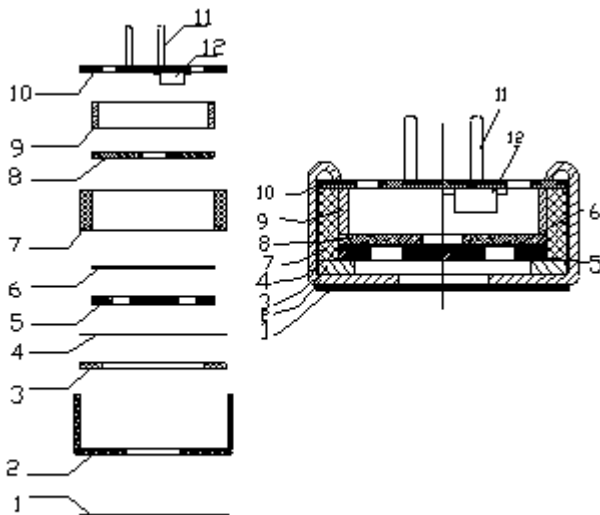


Frequency (Hz)	Lower Limit (dB)	Upper Limit (dB)
100	-15	+3
800	-4	+3
1000	0	0
1200	-4	+4
3000	-5	+8
5000	-6	+8
10000	-10	+8

### DIMENSIONS AND MATERIAL/STRUCTURE

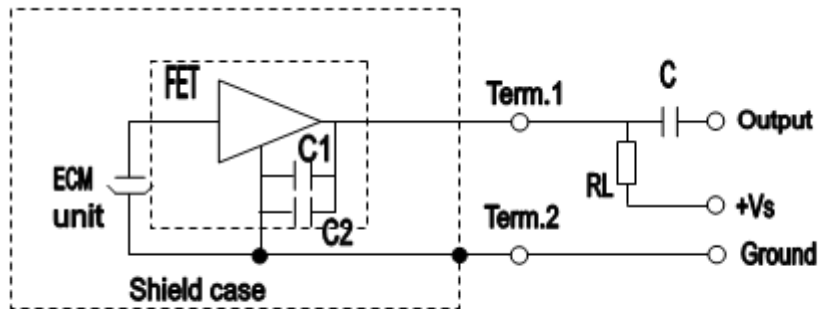


Unit: mm



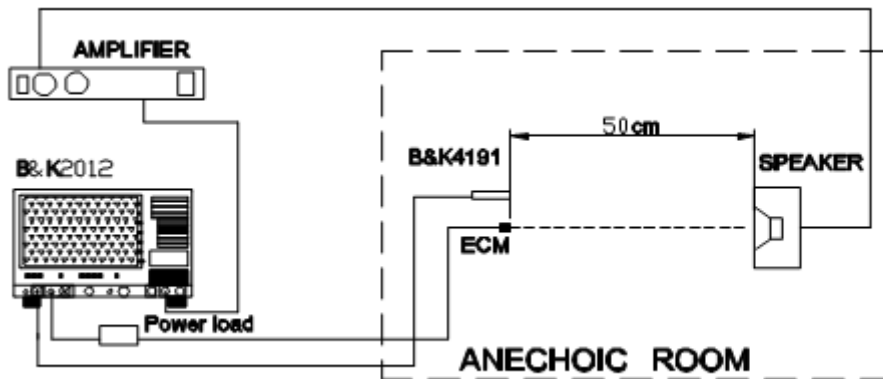
13	FET	Build in 10pF & 33pF capacitors	1
11	PIN	Copper	2
10	PCB	FR4	1
9	Copper ring		1
8	one bore pole blank	Copper blank	1
7	Chamber		1
6	Damping net		1
5	Electret Plate		1
4	Spacer		1
3	Diaphragm		1
2	Case	Al-Mg alloy	1
1	Dustproof gauze	Non-weave cloth	1
13	FET	Build in 10pF & 33pF capacitors	1
No.	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, December 12, 2023
APPROVED BY	CP, December 12, 2023
REVISION	A, Initial Release



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