

### General Description

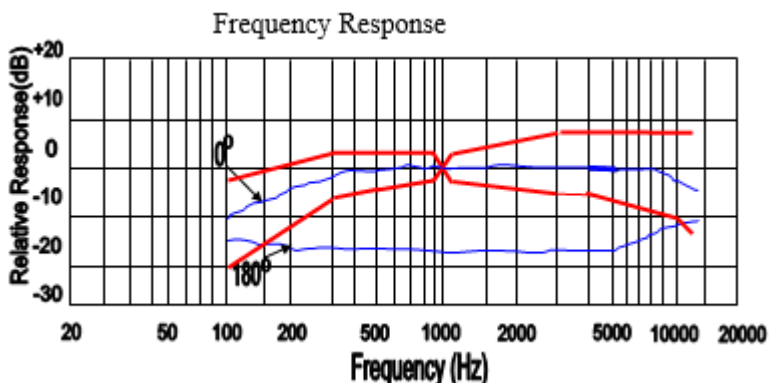
∅4.0mm x 1.5mm, Unidirectional Microphone



### 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		1.4		5	V
Input S.P.L, max				110	dB
Total Harmonic Distortion	@ 94dB SPL at 1KHz			1	%
	@ 115dB SPL at 1kHz			3	%
Directional Sensitivity	@1 kHz @ 180°	10			dB
Operating Temperature Range		-40		+85	°C
Storage Temperature Range		-40		+85	°C

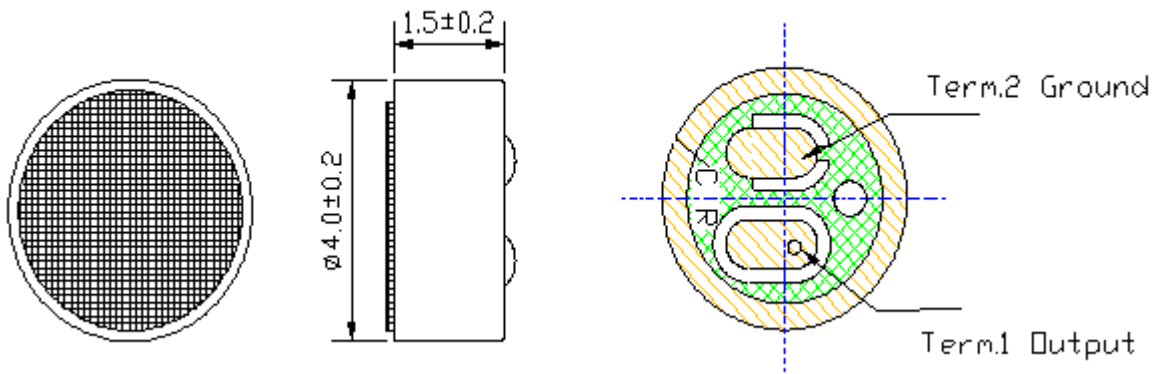
### FREQUENCY CHARACTERISTICS



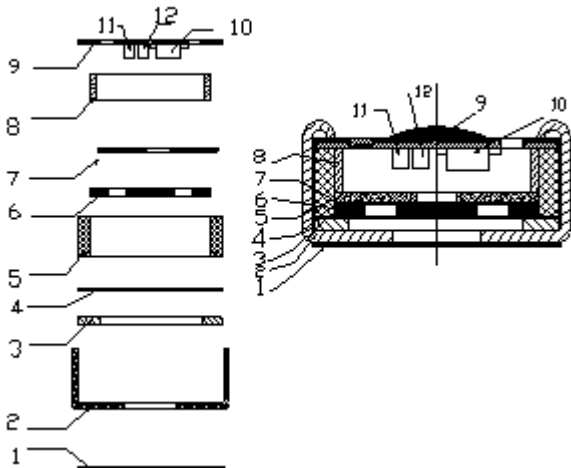
Microphone Response Tolerance Window

Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
100	-20	-3
800	-4	+3
1000	0	0
1200	-3	+3
3000	-5	+8
5000	-6	+8
10000	-10	+8

## DIMENSIONS AND MATERIAL/STRUCTURE

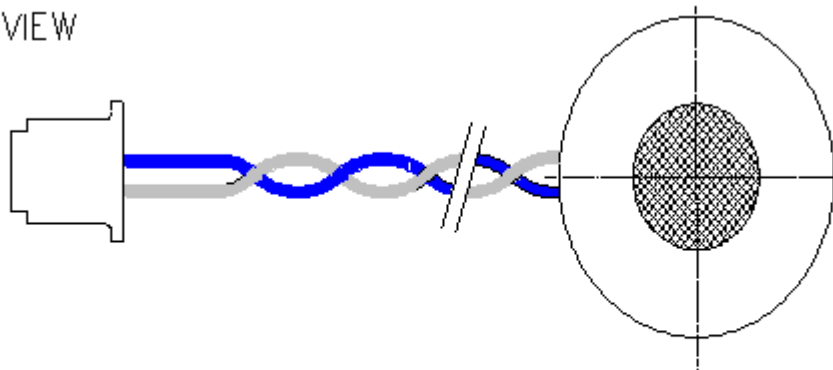


Unit: mm

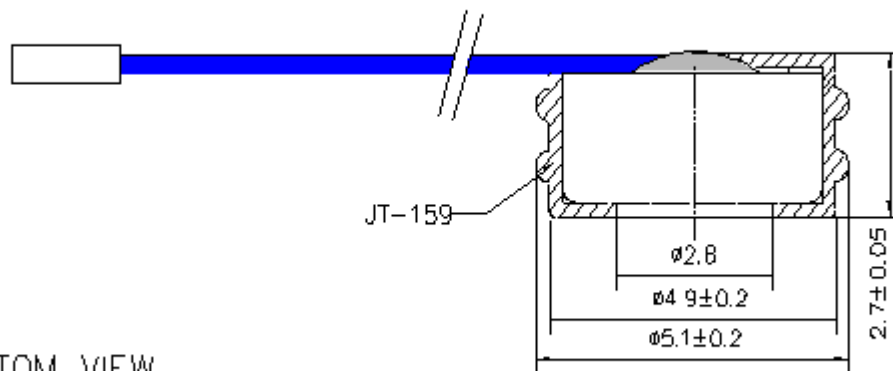


12	Resistance		1
11	Chip capacitance		1
10	IC		1
9	P.C.B		1
8	Copper Ring		1
7	Damping Net		1
6	One Bore Pole Blank		1
5	Housing Chamber		1
4	Spacer		1
3	Polarized Diaphragm		1
2	Case		1
1.	Felt		1
No.	Name	Material	QTY

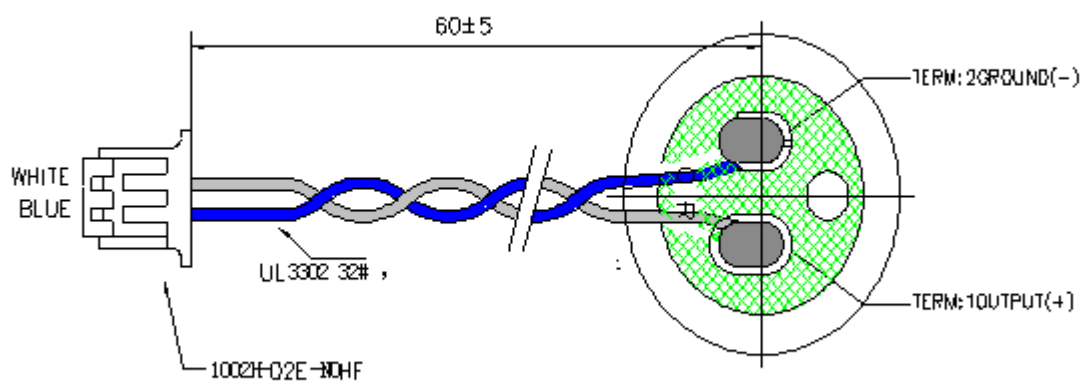
TOP VIEW



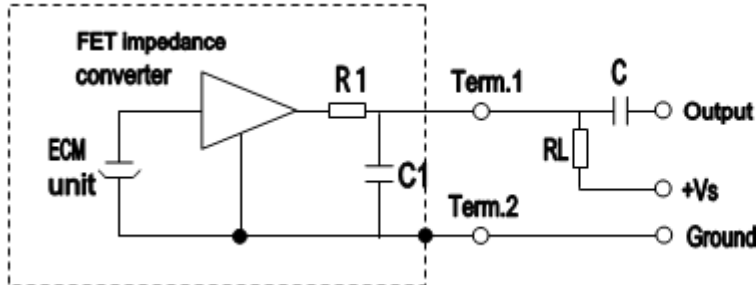
SIDE VIEW



BOTTOM VIEW

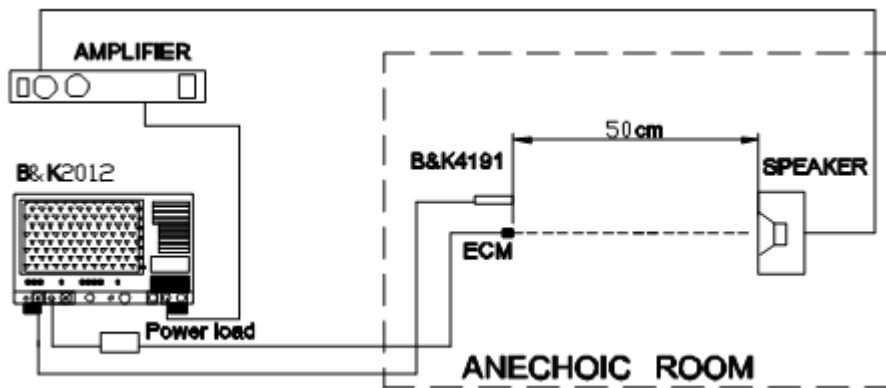


### MEASUREMENT CIRCUIT



$R_L = 2.2K\Omega$
$V_s = 2.0V$
$C_1 = 10nF$
$R_1 = 330\Omega$

### MEASUREMENT SETUP DRAWING



### APPROVAL

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



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