Microphone

RMIC-110-10-6022-NX-NS2

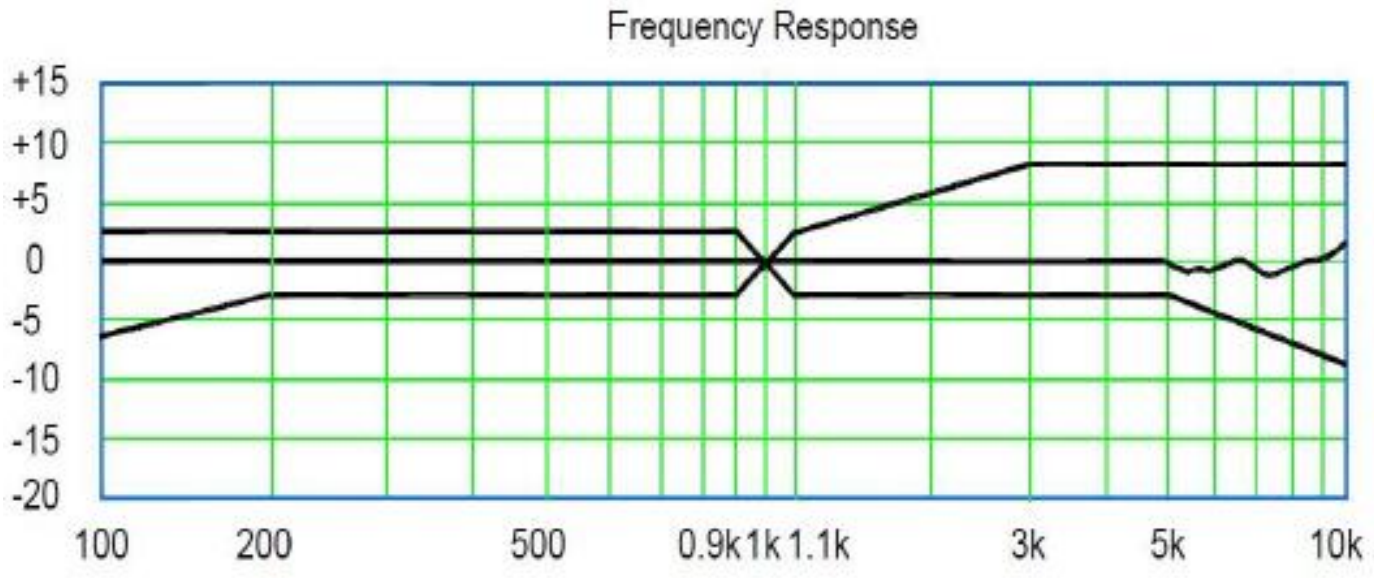
General Description

Ø6.0mm x 2.2mm, Omnidirectional Electret Condenser Microphone (Foil Electret Type)

ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Frequency		50		16000	Hz
Sensitivity Range	@ 0dB=1V/Pa, @ 1kHz, RL=2.2kΩ, Vs=2.0V	-39	-42	-45	dB
Current Consumption	@ V_{CC} =2.0V, RL=2.2kΩ			500	uA
Impedance	@ f=1kHz, RL=2.2kΩ			2.2	kΩ
Sensitivity Reduction	@ V_{CC}=3.0V ~ 2.0V			3	dB
Signal to Noise Ratio	@ 1kHz, 0dB=1V/Pa (A-Weighted Curve)	58			dB
Operating Voltage		1.0		10	V
Sound Pressure Level, max	@ 1kHz, THD<3%	110			dB
Operating Temperature Range		-20		+70	˚C
Storage Temperature Range		-20		+70	˚C

FREQUENCY CHARACTERISTICS



L=50m

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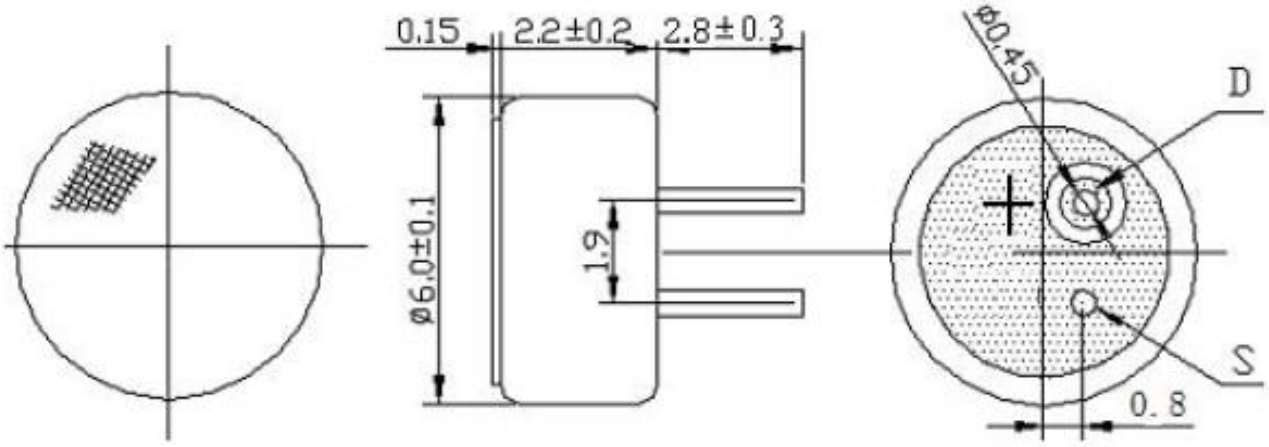
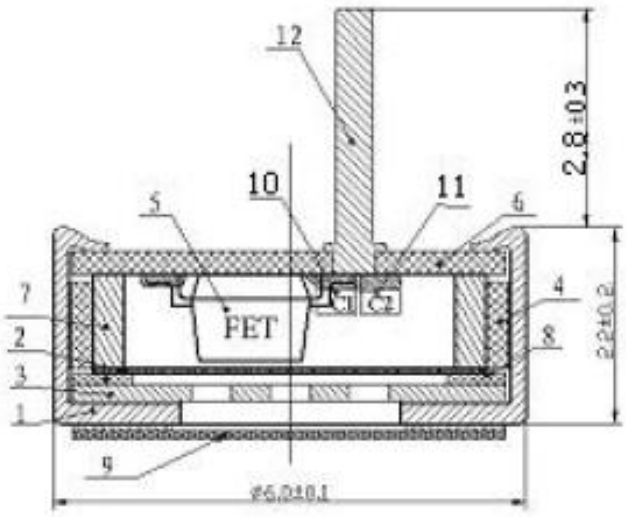
DIMENSIONS AND MATERIAL/STRUCTURE



Unit: mm



NO.	NAME	Material	QTY	REMARK
12	PIN		2	
11	CHIP-CAPACITOR		1	0402 33PF
10	CHIP-CAPACITOR		1	0402 10PF
9	FELT	Cotton decron textile	1	
8	SPACER	Polyster film	1	
7	ELECTRET RING	H65	1	
6	P.C.B	Glass fiber	1	
5	F.E.T		1	
4	HOUSPING CHAMBER		1	
3	ELECTRET BACK	H62	1	
2	POLARIZED DIAPHRAGM	Teflon	1	DUPONT
1	CASE	AL	1	

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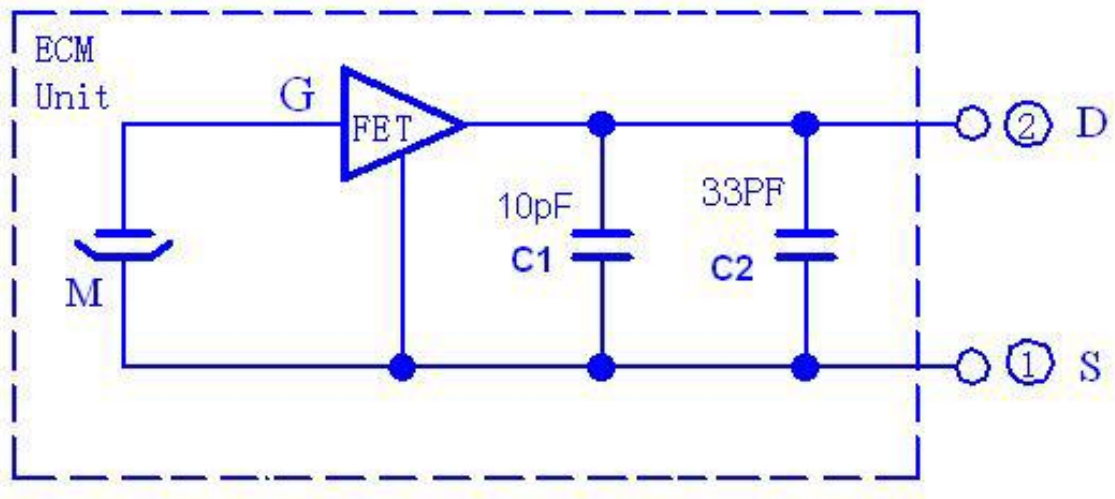
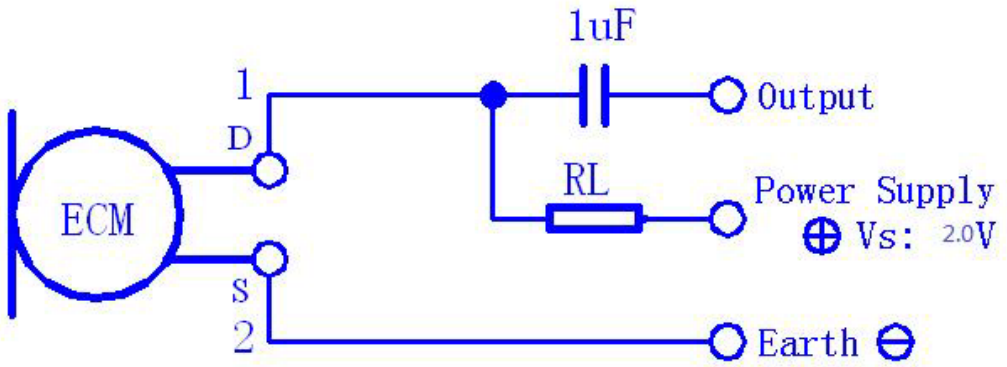
CIRCUIT DIAGRAM



SCHEMATIC MEASURING DIAGRAM



RL:2.2KΩ (external resistance)

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APPROVAL

DRAWN BY	AR, January13, 2025
APPROVED BY	CP, January 13, 2025
REVISION	A, Initial Release