Microphone

RMIC-110-10-6022-NS1

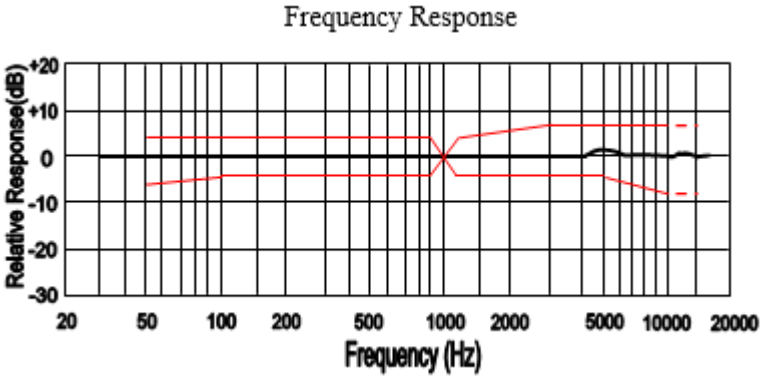
General Description

Ø6.0mm x 2.2mm , 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



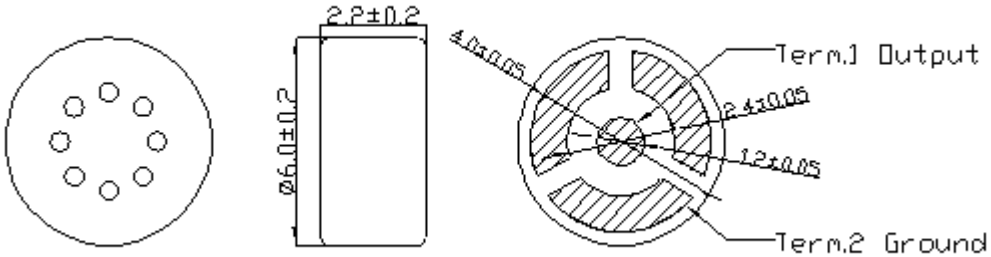
Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
50	-6	+3
100	-3	+3
800	-3	+3
1000	0	0
1200	-3	+3
3000	-3	+8
5000	-3	+8
10000	-8	+8

RALTRON ELECTRONICS ▪ 10400 N.W. 33rd Street ▪ Miami, Florida 33172 ▪ U.S.A.
Telephone: +1-305-593-6033 ▪ Fax: +1-305-594-3973 ▪ e-mail: sales@raltron.com ▪ web: http://www.raltron.com

Microphone

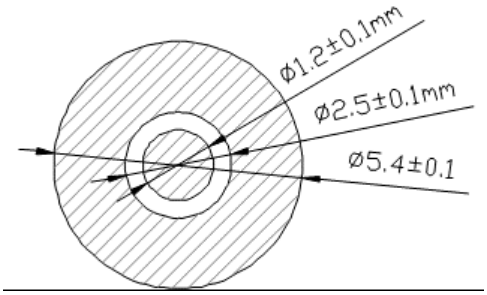
RMIC-110-10-6022-NS1

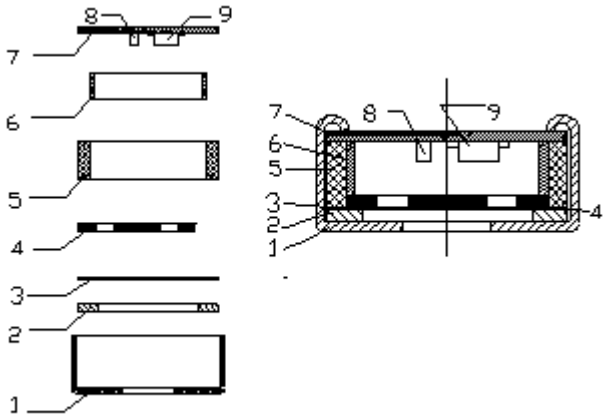
DIMENSIONS AND MATERIAL/STRUCTURE



Unit: mm **Tolerance:±0.1mm**

Recommend Assembly Weld Plate



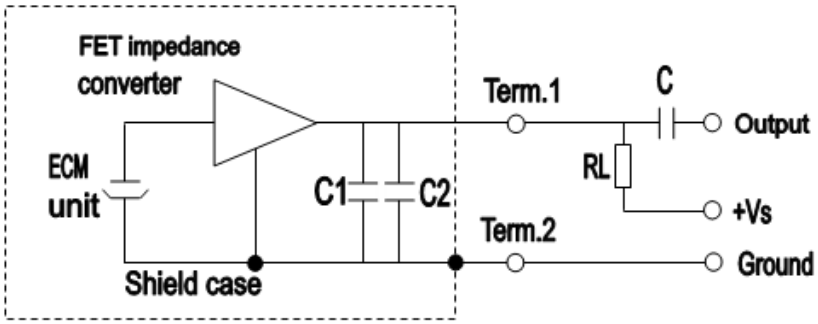


No.	Name	Material	QTY
9	Fet		1
8	Chip Capacitor	10+33pf	2
7	P.C.B		1
6	Copper Ring		1
5	Housing Chamber		1
4	Electret Back		1
3	Spacer		1
2	Polarized Diaphragm		1
1	Case	Copper	1

Microphone

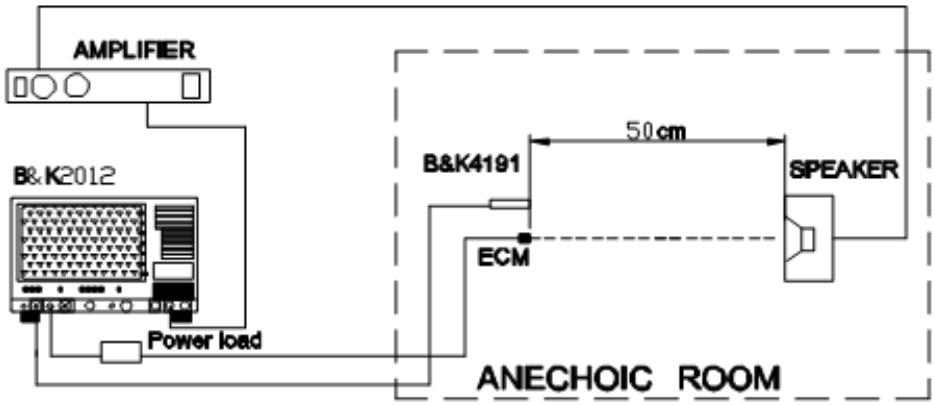
RMIC-110-10-6022-NS1

MEASUREMENT CIRCUIT



R_L=2.2KΩ
V_S =2.0V
C1=10PF
C2=33PF
C=1μF

MEASUREMENT SETUP DRAWING



APPROVAL

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