

General Description

Ø9.7mm x 5.0 Unidirectional Microphone

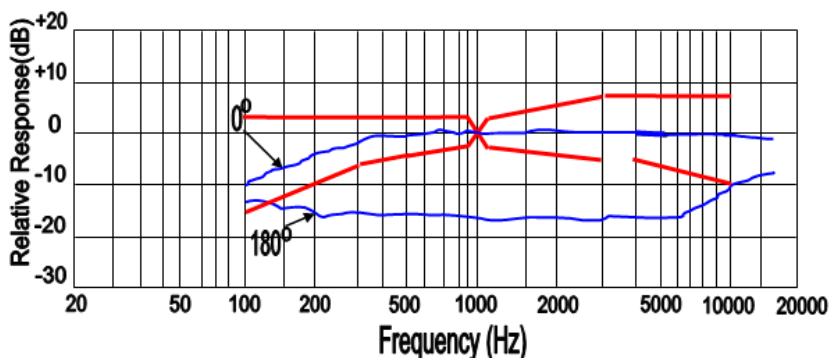


ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-49	-47	-45	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
Directional Sensitivity	@1 kHz @ 180°	10			dB

FREQUENCY CHARACTERISTICS

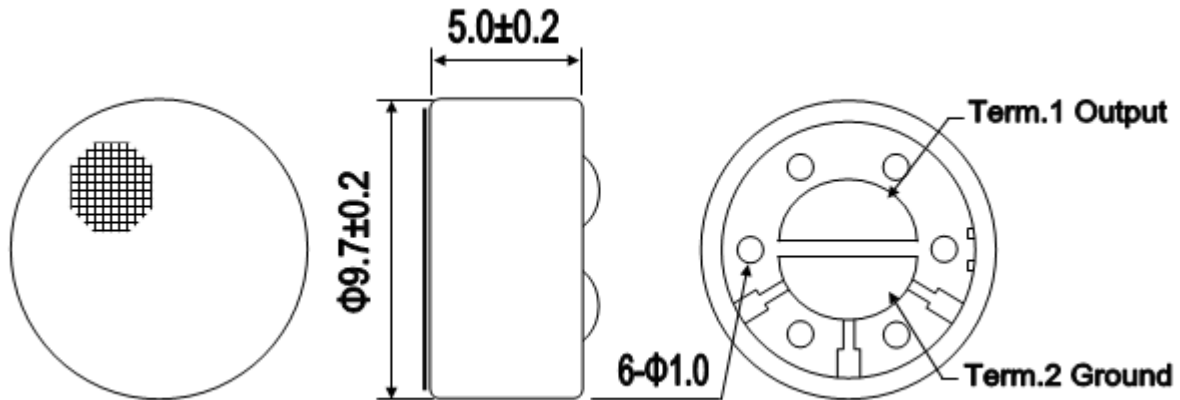
Frequency Response



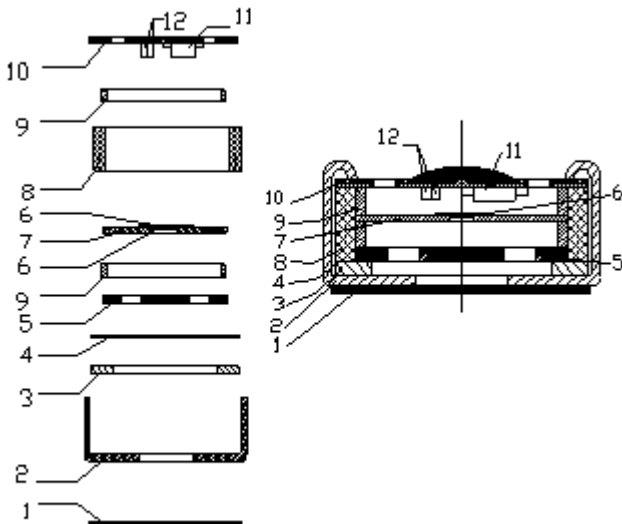
Microphone Response Tolerance Window

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

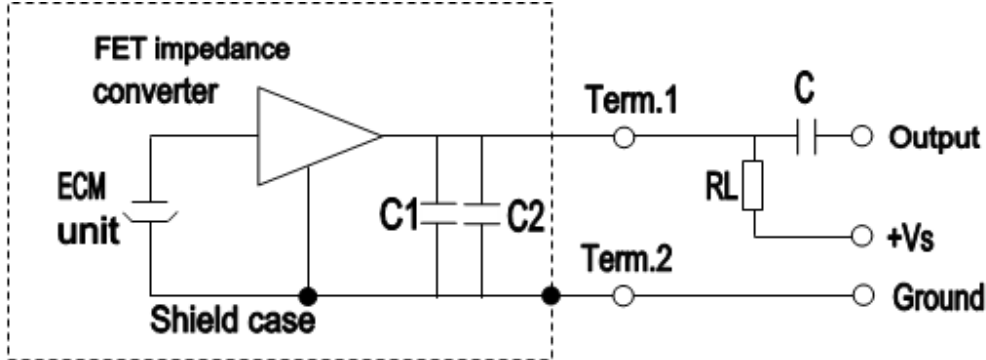


Unit: mm



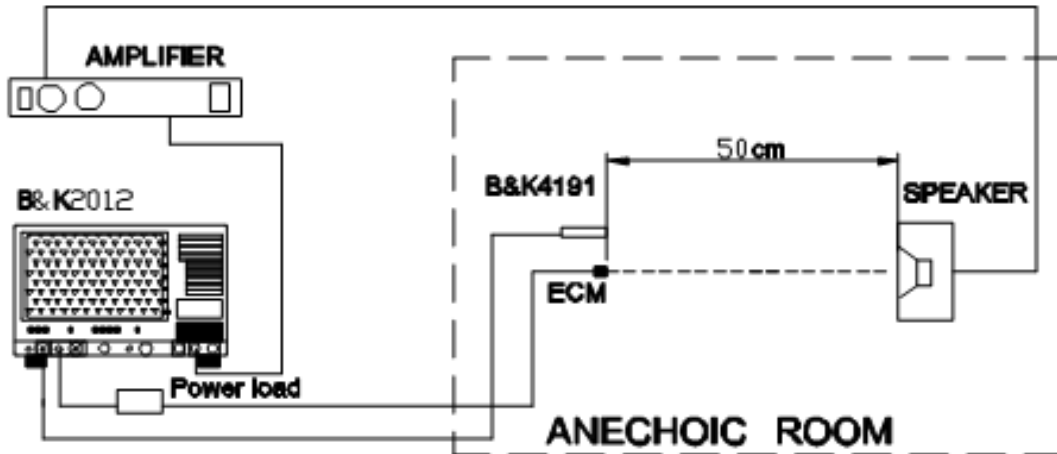
12	CAP/Resistance	10pF + 33pF	2
11	FET		1
10	P.C.B	FR-4	1
9	Copper Ring		1
8	Chamber		1
7	Link Dump Iron		1
6	Damping		1
5	Electret Plate		1
4	Spacer		1
3	Diaphragm		1
2	Case	AL-Mg-Alloy	1
1	Dustproof Gauze		1
No.	Name	Material	QTY

MEASUREMENT CIRCUIT



$R_L = 0.68K\Omega$
$V_s = 1.5V$
$C_1 = 10PF$
$C_2 = 33PF$
$C = 1\mu F$

MEASUREMENT SETUP DRAWING



APPROVAL

DRAWN BY	AR, August 1, 2024
APPROVED BY	CP, August 1, 2024
REVISION	A, Initial Release



Raltron Electronics / RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided only for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages. Copyright © 2016, Raltron Electronics / RAMI Technology USA, LLC. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Raltron Electronics / RAMI Technology USA, LLC.