

Microphone

RMIC-110-10-4015-VE-NS2

General Description

Ø4.0mm x 1.5mm, Omni-Directional Microphone







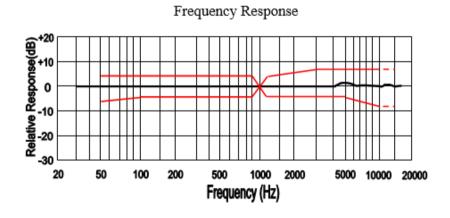


ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	Ullit
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-45	-42	-39	dB
Current Consumption	@ Vcc =2.0V,RL=2.2KΩ			500	μΑ
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

Microphone Response Tolerance Window



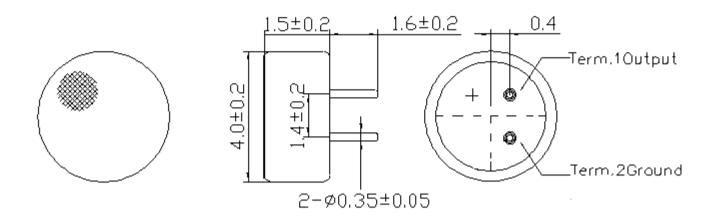
Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
50	-6	+3
100	-3	+3
800	-3	+3
1000	0	0
1200	-3	+3
3000	-3	+8
5000	-3	+8
10000	-8	+8



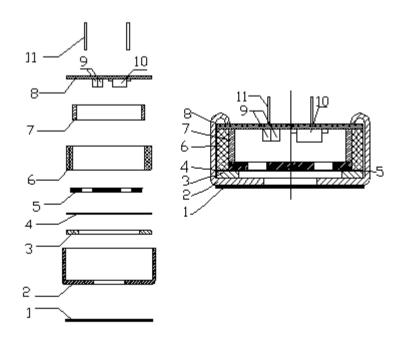
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DIMENSIONS AND MATERIAL/STRUCTURE



Unit: mm



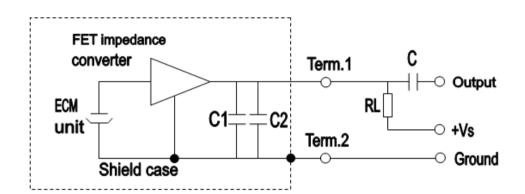
11	PIN	Copper	2
10	FET		1
9	Chip Capacitor		2
8	P.C.B	FR-4	1
7	Copper Ring		1
6	Chamber		1
5	Electret Plate		1
4	Spacer		1
3	Diaphragm		1
2	Case		1
1	Dustproof gauze	Non-weave cloth	1
No.	Name	Material	QTY



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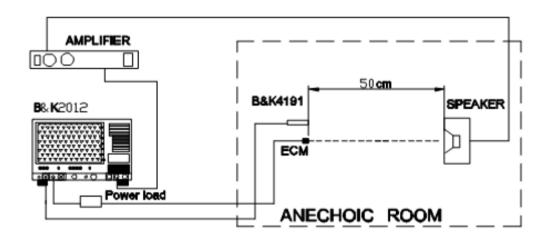
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MEASUREMENT CIRCUIT



R _L =2.2K Ω
V _S =2.0V
C1=10PF
C2=33PF
C=1µF

MEASUREMENT SETUP DRAWING



APPROVAL

DRAWN BY	AR, July 31, 2024	
APPROVED BY	CP, July 31, 2024	
REVISION	A, Initial Release	





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