

Microphone

RMIC-115-10-4013-NS1

General Description

Ø4.0mm x 1.3mm, Omni-Directional Microphone

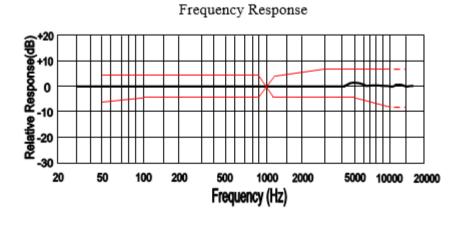




ELECTRICAL SPECIFICATIONS

Parameters		Value			Unit
		min	center	max	Ullit
Sensitivity	@ 0dB=1V/Pa, @ 1kHz	-45	-42	-39	dB
Current Consumption	@ V _{CC} =2.0V,RL=2.2kΩ			500	μΑ
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		1.0		10	V
Input S.P.L, max				115	mm
Operating Temperature Range		-40		+85	°C
Storage Temperature Range		-40		+85	°C

FREQUENCY CHARACTERISTICS

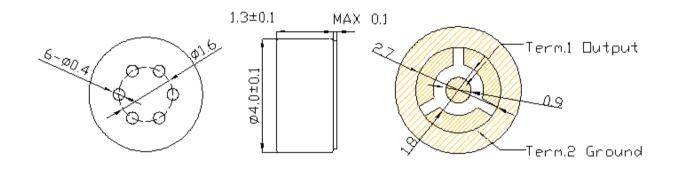


Frequency (Hz)	Lower Limit(dB)	Upper Limit(dB)
50	-6	+3
100	-3	+3
800	-3	+3
1000	0	0
1200	-3	+3
3000	-3	+8
5000	-4	+8
10000	-8	+8



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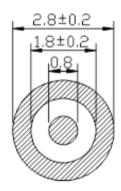
DIMENSIONS AND MATERIAL/STRUCTURE

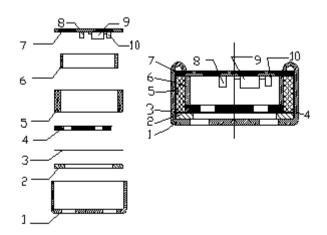


Unit: mm

Recommend Assembly Weld Plate

Tolerance:±0.1mm





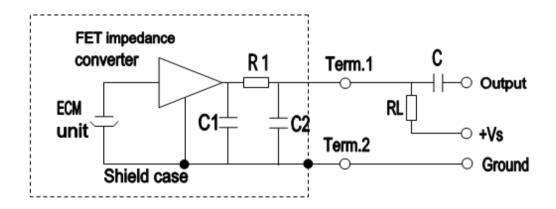
10	RES		1
9	FET		1
8	Chip Capacitor		1
7	PCB	FR4	1
6	Copper ring		1
5	Chamber		1
4	Electret Plate		1
3	Spacer		1
2	Diaphragm		1
1	Case		
No.	Name	Material	QTY



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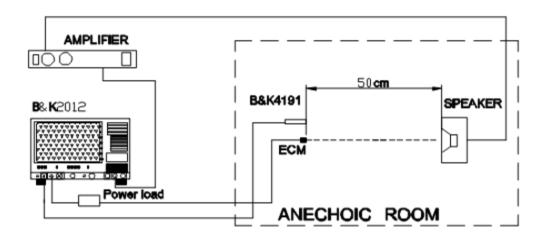
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MEASUREMENT CIRCUIT



R _L =2.2KΩ
V _S =2.0V
C1=10pF
C2=33pF
R1=330Ω
C=1μF

MEASUREMENT SETUP DRAWING



APPROVAL

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





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