

Specification of MEMS Microphone

RoHS Compliance & Halogen Free

LinkMems P/N: LVA3526T262-OFS03-DM2

Designed by	Checked by	Approved by
Kevin	Thomas	Hary

Customer Approval

Approved by: _____



Contents

1. Introduction.....	3
2. Electrical Characteristics.....	3
3. Frequency Response Curve.....	4
4. Test Setup.....	4
5. Measurement Circuit.....	4
6. Mechanical Characteristics.....	5
6.1. MIC Unit.....	5
6.2. FPC.....	6

MEMS Microphone

1. Introduction

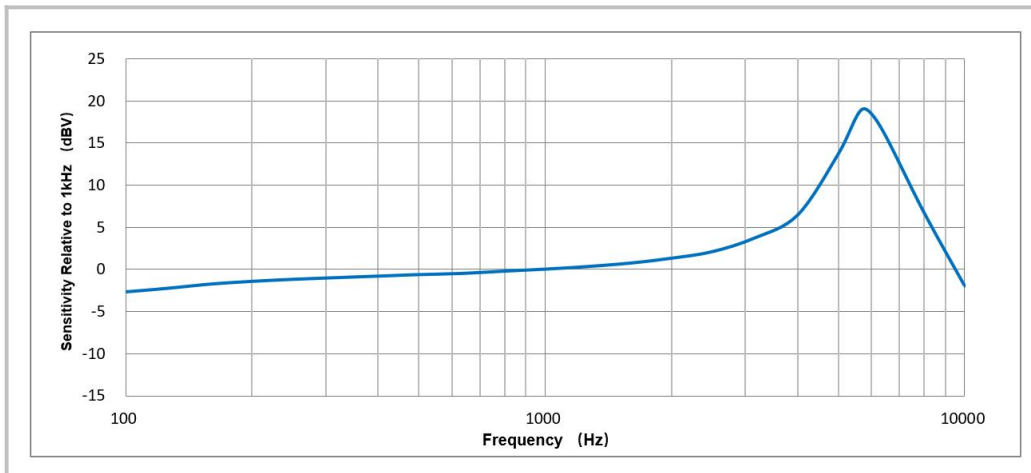
LVA3526T262-FS03 is a high-performance bone conduction sensor optimized for picking up the wearer's own voice. It enhances the ability of picking up your own voice via bone vibration in noisy environment. It's packaged for surface mounting and high temperature reflow assembly.

2. Electrical Characteristics

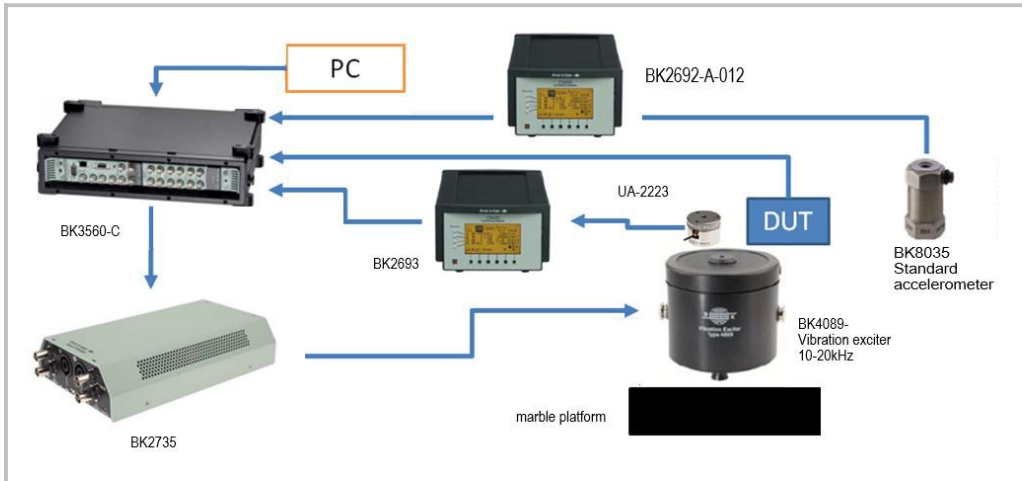
Test Condition: $V_{DD}=2.7V$, $23\pm 2^{\circ}C$, $55\pm 10\%R.H.$, unless otherwise specified.

Specification	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Sensitivity Range	S	f=1kHz,gin=1g 0dB=1V/g, Z-direction	-28	-26	-24	dBV/g
Output Impedance	Z_{out}	F=1kHz			300	Ω
Current Consumption	I				130	μA
S/N Ratio	SNR	A-Weighted 100-4kHz		73		dB(A)
DC output	Vdc			1.15		V
Operating Voltage	V_{DD}		1.6	2.7	3.6	V
Acoustic Sensitivity Loss	ASL	94dB SPL@100Hz	45	50		dB
		94dB SPL@1kHz	40	45		dB
Acceleration level	AL	THD <10% @1kHz		4		g
Peak Frequency	F_{peak}		4.5	5.5	6.5	kHz

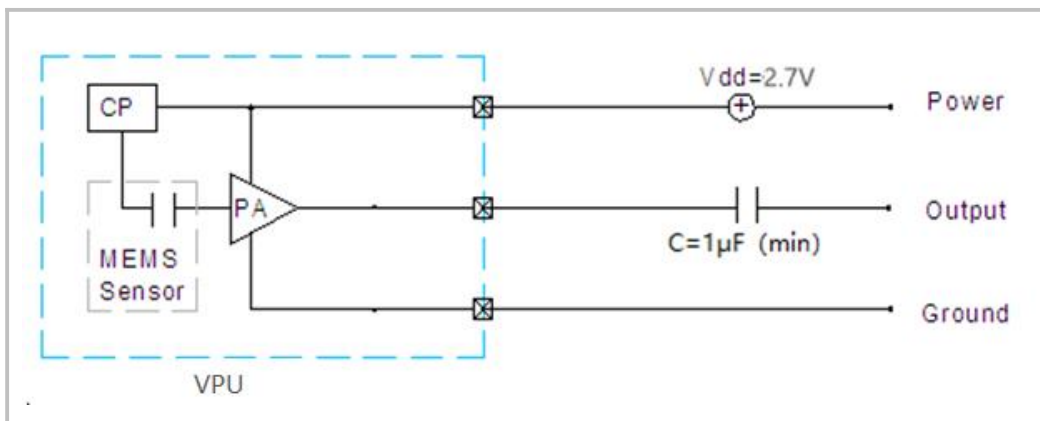
3. Frequency Response Curve



4. Test Setup (Sensitivity Test in Anechoic Room)

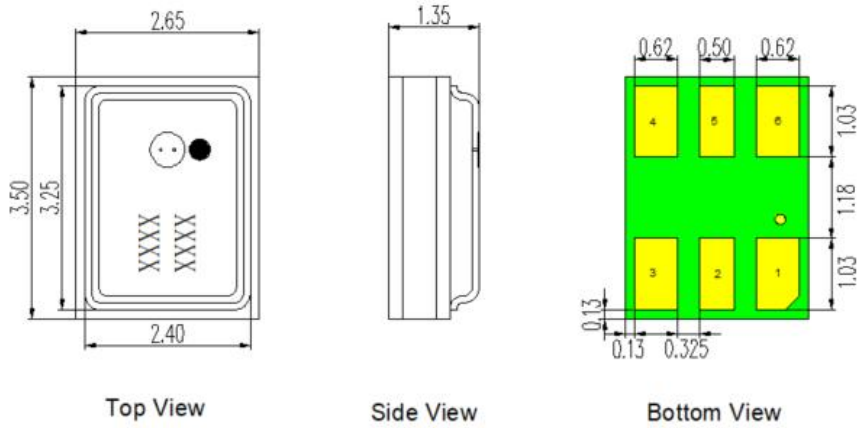


5. Measurement Circuit



6. Mechanical Characteristics

6.1 Mic Unit



Laser Mark	Description
XXXX	Date Code
XXXX	

Item	Dimension	Tolerance(+/-)	Units
Length(L)	3.50	0.10	mm
Width(W)	2.65	0.10	mm
Height(H)	1.35	0.10	mm

Pin #	Pin Name	Type	Description
1	GND	Ground	Ground
2	GND	Ground	Ground
3	GND	Ground	Ground
4	OUT	Signal	Output Signal
5	GND	Ground	Ground
6	VDD	Power	Power Supply

Notes:

All dimensions are in millimeter (mm).

Tolerance \pm 0.1mm unless otherwise specified.

6.2 FPC

