



KAS-700-0176
V2S200D on Flex, 2 Pack, (Engineering Samples)
Multimode Voice Vibration Sensor, PDM

Note: Illustrative image only. Actual sensor mounted to flexible circuit may differ in appearance.

Knowles V2S200D (Engineering Samples)

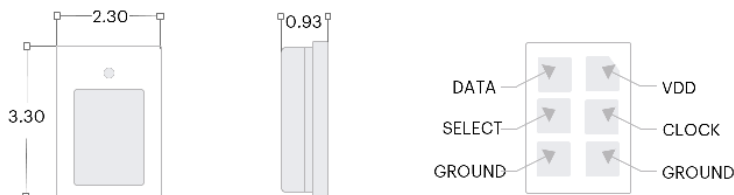
high-performance multi-mode digital voice vibration sensor mounted on flexible bias boards

ASSEMBLY OVERVIEW

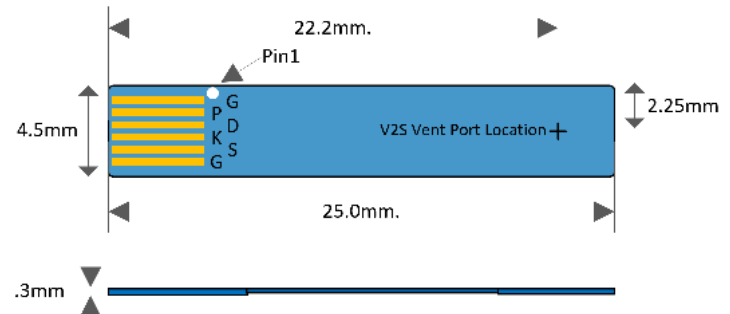
- ▶ Specialized sensor to improve voice call quality
- ▶ Up to 50dB environmental noise suppression outdoors and indoors
- ▶ Higher SNR and bandwidth vs typical sensors for excellent fidelity
- ▶ Size and power optimized for TWS application
- ▶ Ease of integration with PDM interface
- ▶ No specialized handling needed during integration into final product

KEY PARAMETERS	SPECIFICATIONS
Signal-to-noise ratio (SNR)	64.5 dB (A)
Bandwidth (± 3 dB)	4 kHz
Current consumption (Low Pwr Mode/ Normal Mode)	290uA / 700 uA
Sensitivity and Tolerance	-25 \pm 1.5 dB FS
Supply voltage	1.65 to 3.3V
Interface	PDM Digital
Clock Rates Supported (Low Pwr Mode/ Normal Mode)	600KHz – 950KHz / 1.2MHz - 3.3 MHz
Package dimensions	3.30 x 2.30 x 0.93 mm

MICROPHONE DIMENSIONS (MM)



FLEX CIRCUIT DIMENSIONS



FLEX CIRCUIT PINOUTS

The table below shows the pinout for the flex connector. The same connector can be used for all microphone flexes, regardless of port orientation or electrical interface.

Flex Pin#	Flex Marking	Signal
1	G	Ground
2	P	Power
3	D	Data
4	K	Bit Clock
5	S	Select
6	G	Ground

ADDITIONAL INFORMATION

For more information, visit <https://www.knowles.com/V2S>, email us at sales@knowles.com, or contact your nearest Knowles representative.

DISCLAIMER

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INFORMATION

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