

KAS-700-0177 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)**

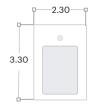
high-performance multi-mode digital voice vibration sensor mounted on flexible bias boards

## **ASSEMBLY OVERVIEW**

- Specialized sensor to improve voice call quality
- More than 70dB 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 (±3dB)	4 kHz
Current consumption (Low Pwr Mode/ Normal Mode)	290uA / 700 uA
Sensitivity and Tolerance	-25 ± 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

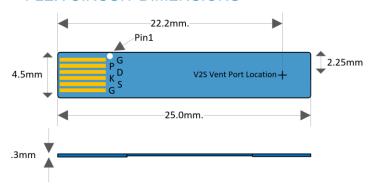
## MICROPHONE DIMENSIONS (MM)







#### 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	Р	Power
3	D	Data
4	K	Bit Clock
5	S	Select
6	G	Ground

#### ADDITIONAL INFORMATION

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

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