

KAS-700-0166

Mics on Flex, 2 Pack, SPH21C3LR5H-1, FalconFB, Bottom Port Differential Analog



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

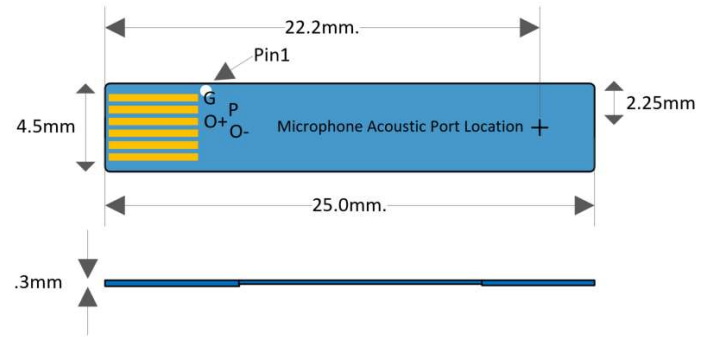
Knowles robust, SPH21C3LR5H-1 high-performance differential analog microphone mounted on flexible bias boards.

ASSEMBLY OVERVIEW

- ▶ Bottom Port Differential Analog microphone mounted to flexible bias board.
- ▶ For use with Knowles "Muskie" Microphone Evaluation Kit. Part# KAS-33100-0004
- ▶ 68.5dB Signal-to-Noise Ratio (SNR) in a small footprint. Low power support.
- ▶ High SNR w/67uA for Always On. Ideal for TWS, Mobile, IOT Devices
- ▶ LFRO = 18HZ

KEY PARAMETERS	Specifications	
Package dimensions	L x W x H = 3.50 mm x 2.65 mm x 1.00 mm (9.275mm ²)	
Port Location	Bottom Port	
Interface	Analog Differential	
Supply voltage	2.4 to 3.2V	1.51 to 1.89V
Current consumption	199 uA@2.75V	67 uA@1.80V
Sensitivity and Tolerance	-38 (Differential) ± 1 dBV / Pa	-38 (Differential) ± 1 dBV / Pa
Signal-to-noise ratio (SNR)	68.5 dB(A)	67 dB(A)
1%/10% THD (AOP)	125 / 134 dB SPL	124 / 130dB SPL
Low Frequency Roll Off (LFRO)	18 Hz	
Operating Temperature	-40 to 85°C	
Storage Temperature	-40 to 100°C	

FLEX CIRCUIT DIMENSIONS

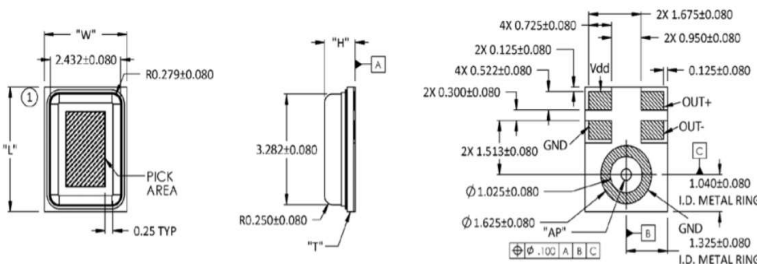


FLEX CIRCUIT PINOUTS

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	GND	Ground
2	VDD	Power
3	OUT(+)	Output
4	OUT(-)	Output
5	N/C	
6	N/C	

MICROPHONE DIMENSIONS (MM)



ADDITIONAL INFORMATION

For inquiries, please visit the Knowles website at <https://www.knowles.com/subdepartment/evaluation-kits/dpt-microphones/subdpt-sisonic-surface-mount-mems> Or contact your nearest Knowles representative.

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INFORMATION

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