

# KAS-700-0156

## Mics on Flex, 2 Pack, SPV1142LR5H-1, QUARTZ, Bottom Port Analog



# Knowles robust, SPV1142LR5H-1 high-performance analog microphone mounted on flexible bias boards

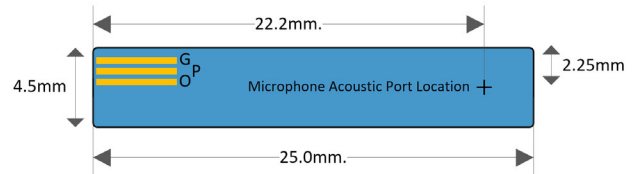
## ASSEMBLY OVERVIEW

- ▶ Bottom Port Analog microphone mounted to flexible bias board.
- ▶ For use with Knowles "Muskie" Microphone Evaluation Kit. Part# KAS-33100-0004
- ▶ 63dB Signal-to-Noise Ratio (SNR) in a small footprint, ideal for a wide range of use cases where excellent wideband audio performance and RF immunity are required.
- ▶ SPV1142LR5H-1 is a miniature, high-performance, low power,  $\pm 1$  dB matched sensitivity bottom port silicon microphone.
- ▶ LFRO = 25HZ

## KAS-700-0056 MIC ON FLEX BOM

- ▶ SPV1142LR5H-1, Bottom port analog microphone
- ▶ BYPASS CAPACITOR, 0.1 F  $\pm 10\%$  16V, X5R, 0402
- ▶ KC10493 FLEX CIRCUIT PCB

## FLEX CIRCUIT DIMENSIONS



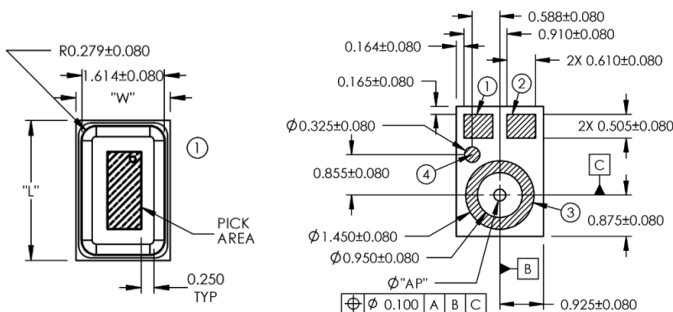
## FLEX CIRCUIT PINOUTS

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	O	OUT
4	N/A	
5	N/A	
6	G	Ground

KEY PARAMETERS	SPECIFICATIONS
Package dimensions	L x W x H = 2.75 mm x 1.85 mm x 0.90 mm (5.09mm <sup>3</sup> )
Acoustic Overload Point (10% AOP)	123 dB SPL
Low Frequency Roll Off (LFRO)	25 Hz
Signal-to-noise ratio (SNR)	63 dB (A)
Current consumption	132 $\mu$ A Typ @ Vdd=1.8V
Sensitivity and Tolerance	-38 $\pm$ 1 dBV / Pa
Supply voltage	1.5 to 3.6V Typ:1.8V
Startup T (< 1dB final)	50 ms Max
Interface	Analog Single Ended
Port location	Bottom Port

## 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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