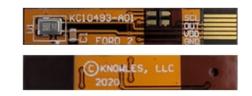


KAS-700-0155 Mics on Flex, 2 Pack, SPV0142LR5H-1, FORD 2, Bottom Port Analog



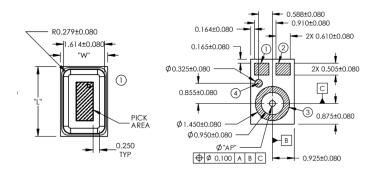
Knowles robust, SPV0142LR5H-1 high-performance analog microphone mounted on flexable bias boards

ASSEMBLY OVERVIEW

- ▶ Bottom Port Analog microphone mounted to flexible bias board.
- For use with Knowles "Muskie" Microphone Evaluation Kit. Part# KAS-33100-0004
- 62.5dB 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.
- SPV0142LR5H-1 is a miniature, high-performance, low power, ±1 dB matched sensitivity bottom port silicon microphone.

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KEY PARAMETERS	SPECIFICATIONS
Signal-to-noise ratio (SNR)	62.5 dB (A)
Acoustic Overload Point (10% AOP)	124 dB SPL
Low Frequency Roll Off (LFRO)	85 Hz
Sensitivity and Tolerance	-38 ± 1 dBV / Pa
Current consumption	132 uA @Vdd=1.8V
Sensitivity and Tolerance	-37 ± 1 dBv / Pa
Supply voltage	1.5 to 3.6V TYP:1.8/2.75V
Startup T (<0.5dB final)	50 ms Max
Interface	Analog Single Ended
Port location	Bottom Port
Package dimensions	L x W x H = 2.75 mm x 1.85 mm x 0.90 mm (5.09mm ²)

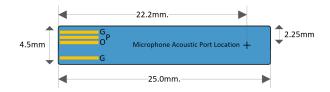
MICROPHONE DIMENSIONS (MM)



KAS-700-0055 MIC ON FLEX BOM

- ▶ SPV0142LR5H-1, Bottom port analog microphone
- ▶ BYPASS CAPACITOR, 0.1 F ±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	Р	Power
3	0	OUT
4	N/A	
5	N/A	
6	G	Ground

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.

DISCLAIMER

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INFORMATION

For further information on technology, delivery terms and conditions and prices, please contact a Knowles representative.

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