

KAS-700-0150 Mics on Flex, 2 Pack, SPV08A0LR5H-1, TOCHI, Bottom Port Analog



Knowles analog microphone SPV08A0LR5H-1 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
- ▶ 64.5dB Signal to Noise Ratio (SNR).
- 134dB Acoustic Overload Point (AOP) provides a large dynamic range.
- Differential mode configuration improves noise immunity to power supply variations, allowing extension of microphone PCB traces.

KEY MICROPHONE PARAMETERS	SPECIFICATIONS
Signal-to-noise ratio (SNR)	64.5 dB
Acoustic Overload Point (10% AOP)	134 dB SPL
Low Frequency Roll Off (LFRO)	35 Hz
Bandwidth (±3dB)	21 kHz
Current consumption (uA)	175 uA
Sensitivity and Tolerance	-42 +/- 1 dB
Supply voltage (V)	2.3 - 3.6V
Interface	Analog
Port location	Bottom Port
Package dimensions	2.75 x 1.85 x 0.90 mm

KAS-700-0050 MIC ON FLEX BOM

- SPV08A0LR5H-1, Bottom port analog microphone
- ▶ BYPASS CAPACITOR, 0.1uF, 0.1 F ±10% 16V, X5R, 0402
- KCB4208 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+	Output
4	TRM	NC
5	NC	NC
6	NC	NC

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.

DISCL AIMED

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples given herein, any typical values stated herein and/or any information regarding the application of the device, Knowles Electronics, LLC hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual perspects, eights of any kind and the control of the device.

INFORMATION

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

@ 2019, Knowles Electronics, LLC, Itasca, IL USA. All Rights Reserved. Knowles and the logo are trademarks of Knowles Electronics, LLC.