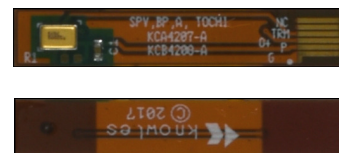


KAS-700-0150 Mics on Flex, 2 Pack, SPV08A0LR5H-1, TOCHI, Bottom Port Analog



Knowles analog microphone SPV08A0LR5H-1 mounted on flexible bias boards

ASSEMBLY OVERVIEW

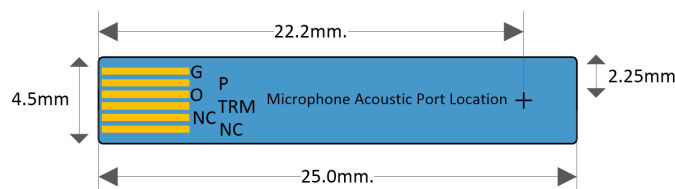
- ▶ Bottom Port analog microphone mounted to flexible bias board.
- ▶ For use with Knowles "Muskie" Microphone Evaluation Kit. Part# KAS-33100-0004
- ▶ 64.5dB Signal to Noise Ratio (SNR).
- ▶ 134dB Acoustic Overload Point (AOP) provides a large dynamic range.
- ▶ Differential mode configuration improves 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	P	Power
3	O+	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-sisomic-surface-mount-mems>
Or contact your nearest Knowles representative.

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