

KAS-700-0149 Mics on Flex, 2 Pack, SPM0687LR5H-1, WINFREY, Bottom Port Differential Analog





Knowles analog microphone exclusively for far field IoT/ANC applications mounted on flexable bias boards

ASSEMBLY OVERVIEW

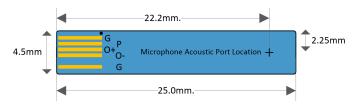
- Bottom Port differential analog microphone mounted to flexible bias board.
- ► For use with Knowles "Muskie" Microphone Evaluation Kit. Part# KAS-33100-0004
- 70dB Signal to Noise Ratio (SNR) enables far-field voice pick up for IoT applications.
- 130dB Acoustic Overload Point (AOP) provides a large dynamic range for barge-in applications.
- 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)	70 dB (A)
Acoustic Overload Point (10% AOP)	130 dB SPL
Low Frequency Roll Off (LFRO)	< 13 Hz
Bandwidth (±3dB)	13 kHz
Current consumption (uA)*	300 uA
Sensitivity and Tolerance	-40 +/- 1 dB (Single Ended) -34.75 +/- 1 dB (Differential)
Supply voltage (V)	2.75 V
Interface	Analog
Port location	Bottom Port
Package dimensions	4.72 x 3.76 x 1.24 mm

KAS-700-0049 MIC ON FLEX BOM

- SPM0687LR5H-1, Bottom port differential analog microphone
- ▶ BYPASS CAPACITOR, 0.1uF, 0.1 F ±10% 16V, X5R, 0402
- KCB3924 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+	Data
4	0-	Bit Clock
5	-	NC
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

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 property eights of any third party.

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 Reserve Knowles and the logo are trademarks of Knowles Electronics, LLC.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Microphones category:

Click to view products by Knowles manufacturer:

Other Similar products are found below:

BCM4013OLFC-42-JST-ZHR-2 TO38-30702-B20 SPM04C-38/1186-T/R BCM4013OSBC-42 LF TOW-1242P-R BCM9745-44 BCM9765 BCM9767P LD-MC-6035 PMOF-9745S-42UQ ROM-2235L-HD-R DUM-4546L-C3310-R CMC-4015-130T CMC-6050-40T CMC-6035-130T CMC-6015-47P BCM9745P-44 BCM9767-42 254-ECM644-RO LD-MC-4011 LD-MC-6027 LD-MC-6035W LD-MC-9765P LD-MC-9765W FG-23629-D65 254-FP270-RO BCM9765P-44 CMC-5042PF-AC CMC-6010-42L100 CMC-9745-L100 CMC-3015-44T CMC-4015-25T CMC-6013-38T CMC-6022-37L100 CMC-6027-24T CMC-6027-32T GMI4522P-2C-30db GMI4522P-2C-50db GMI4522P-2C-52db GMI6027P-2C66DB GMA3526H10-B26 GMA4030H11-F26 GMI4015-32DB GMI4015-40DB GMI4015P-36DB GMI4015P-46DB GMI4015P-54DB GMI4015P-58DB GMI4022U-2C32DB GMI4022U-2C34DB