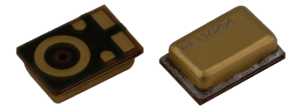




SPV08A0LR5H-1
TOCHI

Knowles compact analog microphone for high-performance mobile and ear devices

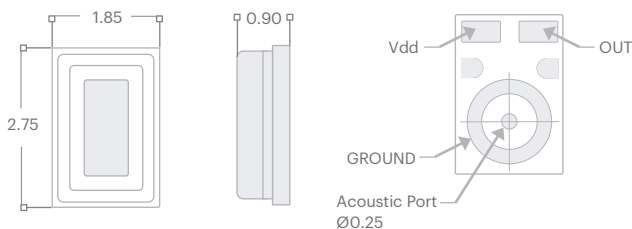


PRODUCT OVERVIEW

- ▶ 64dB Signal-to-Noise Ratio (SNR) in a very small footprint, ideal for smartphones and hearables/in-ear headsets
- ▶ 1% THD at 132 dB SPL enables improved barge-in performance and resilience to wind noise turbulence
- ▶ Excellent low-frequency response lends to superior Active Noise Cancelling (ANC) algorithm performance
- ▶ Strong environmental robustness and improved ingress protection
- ▶ ± 1 dB sensitivity matching enhances multi-mic architecture performance and eases system integration

| KEY PARAMETERS | SPECIFICATIONS |
|--|-------------------------|
| Signal-to-noise ratio (SNR) | 64 dB (A) |
| Acoustic Overload Point (1% / 10% THD) | 132 dB SPL / 134 dB SPL |
| Low Frequency Roll Off (LFRO) | 35 Hz |
| Bandwidth (± 3 dB) | 16 kHz |
| Current consumption | 180 μ A |
| Sensitivity and Tolerance | -42 ± 1 dBV/Pa |
| Supply voltage | 2.3 to 3.6V |
| Interface | Single-Ended Analog |
| Port location | Bottom Port |
| Package dimensions | 2.75 x 1.85 x 0.90 mm |

DIMENSIONS (MM)



DISCLAIMER

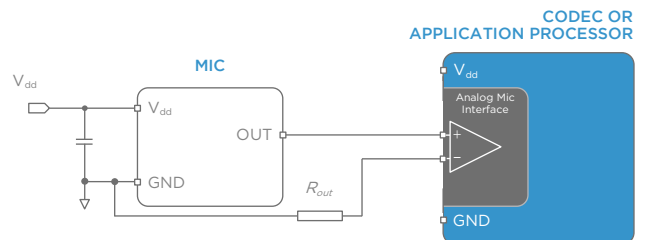
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples given herein, any typical values stated herein and/or any information regarding the application of the device, Knowles Electronics, LLC hereby disclaims any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

TYPICAL APPLICATIONS

- ▶ Smartphones and Mobile Devices
- ▶ Action Cameras
- ▶ Voice-Enabled Remote Controls and Other Space-Constrained Applications
- ▶ Active Noise Cancelling (ANC) Headsets
- ▶ Hearables and Bluetooth Headsets

APPLICATION NOTES

TYPICAL SINGLE-ENDED MODE APPLICATION CIRCUIT



Note: The above block diagram is for illustrative purposes only. Specific connectivity recommendations from the CODEC manufacturer should be followed.

CONTACT

For inquiries, please contact your nearest Knowles representative, or Knowles at: memsmicinfo@knowles.com

INFORMATION

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

© 2017, Knowles Electronics, LLC, Itasca, IL USA. All Rights Reserved. Knowles and the logo are trademarks of Knowles Electronics, LLC.

