

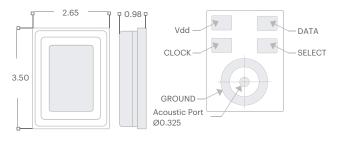
SPH9855 - High Performance Digital Automotive Microphone



- ▶ AEC-Q100/103 Qualified for Automotive Robustness
- High Dynamic Range (66dB SNR, 132.5dB AOP) for high-quality voice pick-up
- ▶ Ultrasonic frequency response for proximity detection
- ±1 dB sensitivity matching, with an option to upgrade to ±0.5 dB matching, for enhanced beamforming performance
- 2-D Barcode for traceability

Key Parameters	Normal Mode	Low Power Mode
Signal-to-noise ratio (SNR)	66 dB(A)	64.5 dB(A)
Acoustic Overload Point (1% / 10% THD)	130.5 / 132.5 dB SPL	113 / 116 dB SPL
Low Frequency Roll Off (LFRO)	25 Hz	
Current consumption	1000 uA	260 uA
Sensitivity and Tolerance	-37 ± 1 dB FS / Pa	-21 ± 1 dB FS / Pa
Supply voltage	1.65 to 3.6V	
Interface	PDM Digital	
Clock Rates Supported	1.1 to 4.8 MHz	500 to 900 kHz
Port location	Bottom Port	
Package dimensions	3.50 x 2.65 x 0.98 mm	
Operational Temperature Range	-40° to +100°C	

DIMENSIONS (MM)



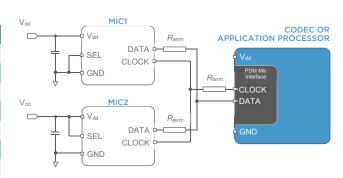
TYPICAL APPLICATIONS

- Active Noise Cancellation
- Proximity Detection

Voice Call / ECall

APPLICATION NOTES

TYPICAL STEREO MODE APPLICATION CIRCUIT



Note: The above block diagram is for illustrative purposes only. For additional information, refer to the microphone datasheet.

CONTACT

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

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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