

FEATURES

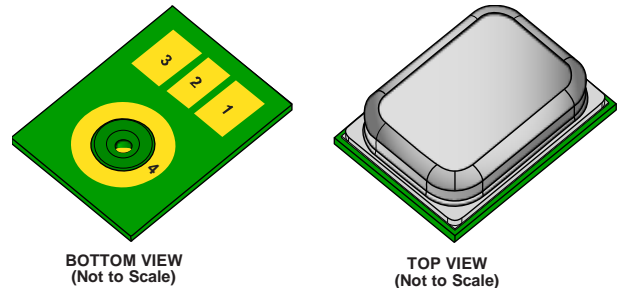
Small surface-mount package: 3.35 mm × 2.5 mm × 0.98 mm
Equivalent input noise: 27 dBA SPL
Sensitivity: -35 dBV
Hearing aid-compatible voltage range: 0.9 V to 1.3 V
Low current consumption: 17 μA
0.8 sec startup to within ±0.2 dB of 1 kHz sensitivity
Flat frequency response
Good sensitivity and frequency response matching
Single-ended analog output
Compatible with Sn/Pb and Pb-free solder processes
RoHS/WEEE compliant

APPLICATIONS

Hearing aids
Hearing aid accessories
Assistive listening/alerting and signaling systems
Audiometers
Bone conduction devices
Hearing protection

GENERAL DESCRIPTION

The **ADMP803** is a high performance MEMS microphone with a unique combination of very low self noise, tiny package volume (7.3 mm³), and low power consumption. Running from a 1 V supply, the **ADMP803** consumes only 17 μA of current while providing an equivalent input noise of 27 dBA SPL with an analog 4.5 kΩ impedance output. Combined with the benefits of MEMS technology, reflow solder compatibility, and a highly stable response over time and temperature, these features make the **ADMP803** an ideal microphone choice for assistive listening devices (ALDs) such as hearing aids.


 BOTTOM VIEW
(Not to Scale)

 TOP VIEW
(Not to Scale)

 Figure 1. Isometric Views of the **ADMP803** Microphone Package

11538-001

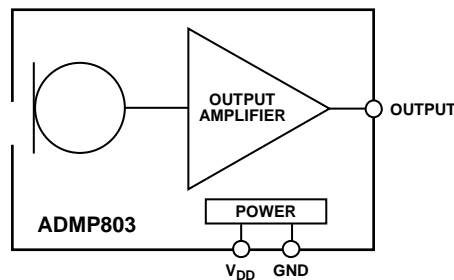
FUNCTIONAL BLOCK DIAGRAM


Figure 2.

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For more information about the **ADMP803**, contact HA_Mics@analog.com.

Rev. Sp0

Document Feedback

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