

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 μ A

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

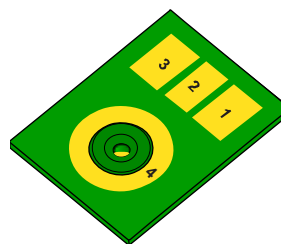
Audiometers

Bone conduction devices

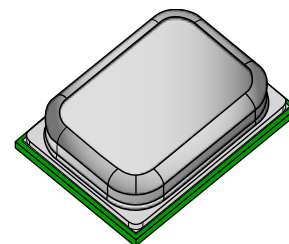
Hearing protection

GENERAL DESCRIPTION

The **ADMP803** is a high performance MEMS microphone with a unique combination of very low self noise, tiny package volume (7.3 mm^3), and low power consumption. Running from a 1 V supply, the **ADMP803** consumes only 17 μ A of current while providing an equivalent input noise of 27 dBA SPL with an analog $4.5 \text{ k}\Omega$ 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

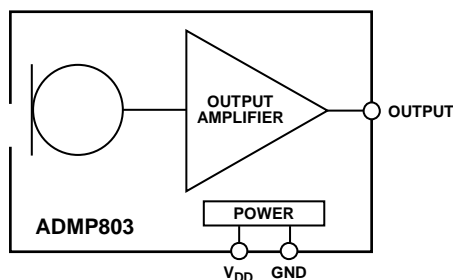


Figure 2.

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

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