

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 $17 \mu\text{A}$ 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.

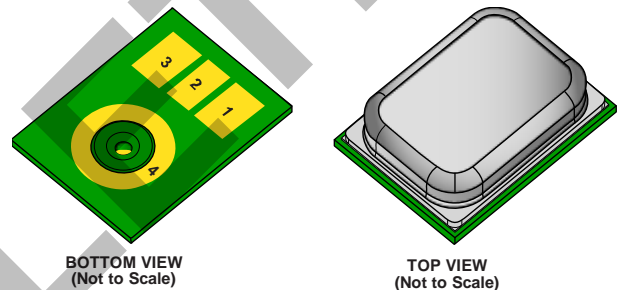


Figure 1. Isometric Views of the **ADMP803** Microphone Package

FUNCTIONAL BLOCK DIAGRAM

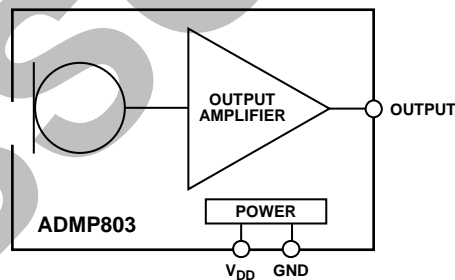


Figure 2.

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

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