



### ■ General Description

The OCA7210 is a 2.5-W high efficiency filter-free class-D audio power amplifier that requires only three external components.

Features like 88% efficiency, -75-dB PSRR, improved RF-rectification immunity, and 8 mm<sup>2</sup> total PCB area make the OCA7210 ideal for cellular handsets. A fast start-up time of 1 ms with minimal pop makes the OCA7210 ideal for PDA applications.

In cellular handsets, the earpiece, speaker phone, and melody ringer can each be driven by the OCA7210. The OCA7210 allows independent gain while summing signals from separate sources, and has a low 36 µV noise floor, A-weighted.

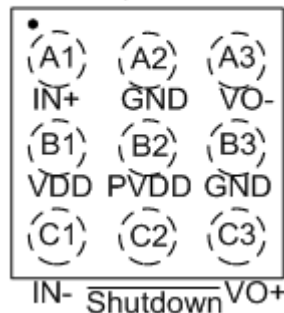
### ■ Features

- Maximum Battery Life and Minimum Heat
  - Efficiency With an 8-Ω Speaker:
    - 88% at 400 mW
    - 80% at 100 mW
  - 2.8-mA Quiescent Current
  - 0.5-µA Shutdown Current
- Only Three External Components
  - Optimized PWM Output Stage Eliminates LC Output Filter
  - Internally Generated 250-kHz Switching Frequency Eliminates Capacitor and Resistor
  - Improved PSRR (-75 dB) and Wide Supply Voltage (2.5 V to 5.5 V) Eliminates Need for a Voltage Regulator
  - Fully Differential Design Reduces RF Rectification and Eliminates Bypass Capacitor
  - Improved CMRR Eliminates Two Input Coupling Capacitors
- Packages: Micro SMD 9B

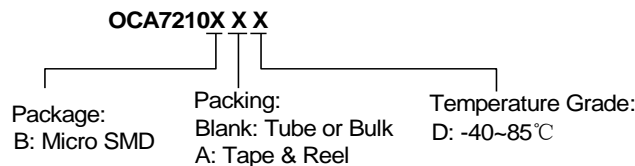
### ■ Pin Configuration

9 Bump micro SMD

Top view



### ■ Ordering Information



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