



■ General Description

The OCA7210A is a 3W 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 mm² total PCB area make the OCA7210A ideal for cellular handsets. A fast start-up time of 1ms with minimal pop makes the OCA7210A ideal for PDA applications.

In cellular handsets, the earpiece, speaker phone, and melody ringer can each be driven by the OCA7210A. The OCA7210A allows independent gain while summing signals from separate sources, and has a low 36µV noise floor, A-weighted.

OCA7210A built-in over current protection, thermal protection and low voltage malfunction prevention function, effectively protect chip in the abnormal working conditions from being damaged.

OCA7210A provides 1.37mm * 1.37mm WLCSP9 package, rated operating temperature range is -40 °C to 85 °C.

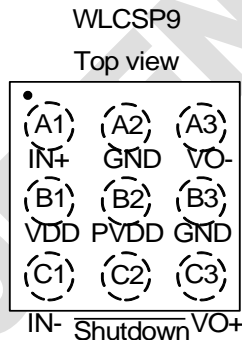
■ Features

- Maximum Battery Life and Minimum Heat
- Efficiency With an 8-Ω Speaker:
 - 88% at 400 mW
 - 80% at 100 mW
- 0.5-µA Shutdown Current
- Only Three External Components
- Optimized PWM Output Stage Eliminates LC Output Filter
- Internally Generated 500kHz 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: WLCSP9, 1.37mm*1.37mm

■ Applications

- Cellular Phone
- MP3/PMP
- GPS
- Digital Photo Frame

■ Pin Configuration



■ Ordering Information



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