

1.36-W Mono Fully Differential Audio Power Amplifier

DESCRIPTION

The EUA6204 is a mono fully-differential audio amplifier, capable of delivering 1.36W of continuous average power to an 8Ω BTL load with less than 1% distortion (THD+N) from a 5V power supply, and 720mW to a 8Ω load from a 3.6V power supply.

The EUA6204 is ideal for PDA/smart phone application due to features such as -80-dB supply voltage rejection from 20Hz to 2kHz, improved RF rectification immunity, small 20mm² PCB area, and a fast startup with minimal pop.

The EUA6204 is available in a MSOP-8 and in the space-saving 3mm × 3mm DFN package.

FEATURES

- Supply Voltage 2.5V to 5.5V
- 1.36W into 8Ω from a 5-V Supply at THD=1% (typ)
- Low Supply Current: 4mA typ at 5V
- Shutdown Current: 0.01μA typ
- Fast Startup with Minimal Pop
- Only Three External Components
 - Improved PSRR (-80dB) for Direct Battery Operation
 - Full Differential Design Reduces RF Rectification
 - -63dB CMRR Eliminates Two Input Coupling Capacitors
- RoHS Compliant and 100% Lead (Pb)-Free

APPLICATIONS

- Wireless Handsets
- PDAs
- Portable Devices

Typical Application Circuit

