

Product Brief

CP2297 V1.0

Audio Power Amplifier Series

3.1W,Mono,Fully Differential Audio Power Amplifier with Internal Feedback Resistors

www.datasheet4comeral Description

The CP2297 is a fully differential audio power amplifier designed for demanding audio applications. It is capable of delivering 3.1 watt of continuous average power to a 3Ω BTL load with less than 10% distortion (THD+N) from a 5V battery voltage. It operates from 2.2V to 5.5V.

Features like -86dB PSRR at 217Hz, improved RF-rectification immunity, the space-saving CSP9, DFN8, MSOP8 and SOP8-PP(EXP PAD)packages, the advanced pop & click circuitry, a minimal count of external components and low-power shutdown mode make the CP2297 ideal for wireless handsets.

The CP2297 is unity-gain stable, and the gain can be configured by external input resistors and internal feedback resistors.







Features

- Fully differential amplifier
- Improved PSRR at 217Hz -86dB (typ)
- Power output at 5.0V, 10% THD, 3 Ω (DFN8, SOP8-PP only)
 3.1W (typ)
- Power output at 5.0V, 1% THD, 8 Ω 1.36W (typ)
- Ultra low shutdown current
 0.01μA (typ)
- Improved pop & click circuitry eliminates noises during turn-on and turn-off transitions
- Thermal overload protection circuitry
- Unity-gain stable
- External gain configuration capability
- Available in space-saving packages: CSP9, DFN8, MSOP8 and SOP8-PP(EXP PAD)
- RoHS compliant and 100% lead(Pb)-free

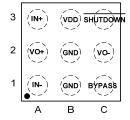
Applications

- Wireless handsets
- Portable audio devices
- PDAs
- Notebook computers

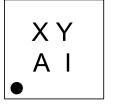
3.1W,Mono,Fully Differential Audio Power Amplifier with Internal Feedback Resistors

www.datasheet@Configurations

CSP9 Package (Top View)

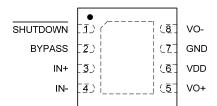


CSP9 Marking



XY -Manufacture Date Code AI - CP2297ITLX

DFN8 Package (Top View)

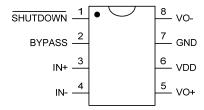


DFN8 Marking

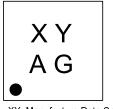


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MSOP8 Package (Top View)

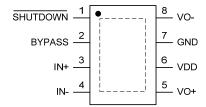


MSOP8 Marking

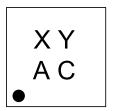


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SOP8-PP Package (Top View)



SOP8-PP Marking



XY -Manufacture Date Code AC - CP2297SP



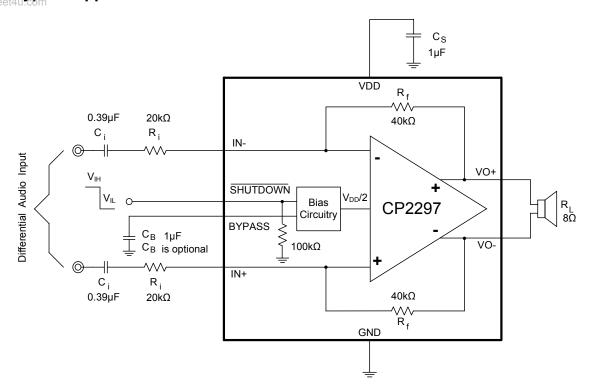
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Typical Application www.datasheet4u.com



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