

## General Description

The ETK4993 is a fully differential audio power amplifier designed for portable communication device applications. It is capable of delivering 1.7 watt of continuous average power to an 8Ω BTL load , 2.5 watt of continuous average power to an 4Ω BTL load with less than 1% distortion (THD+N) from a 5V battery voltage. It operates from 2.2 to 5.5V.

Features like 90dB PSRR at 217Hz, improved RF-rectification immunity, the space-saving DFN8, MSOP8 package, the advanced pop & click circuitry, a minimal count of external components and low-power shutdown mode make ETK4993 ideal for wireless handsets.

The ETK4993 is unity-gain stable, and the gain can be configured by external resistors.

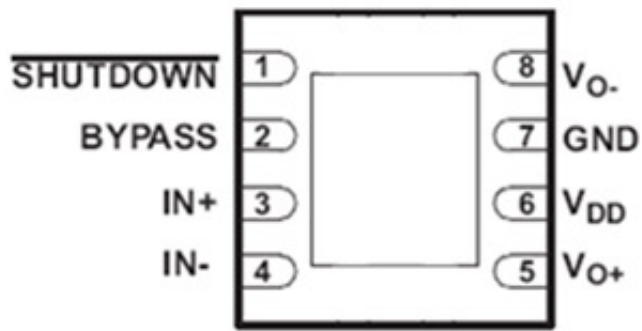
## Features

- Fully differential amplifier
- Improved PSRR at 217Hz (VDD>3.0V) 90dB (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
- No output coupling capacitors, bootstrap capacitors required
- Unity-gain stable
- External gain configuration capability
- Available in space-saving package: DFN8(ETK4993Y),MSOP8(ETK4993M)

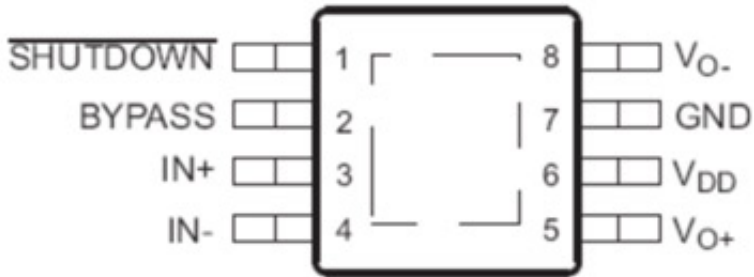
## Applications

- Wireless handsets
- Portable electronic devices
- PDAs, Handheld computers

## Pin Configuration



DFN8



MSOP8