

General Description

The AS9604 is a 3-Vrms cap-less stereo line driver. The device is ideal for single supply electronics. Cap-less design can eliminate output dc-blocking capacitors for better low frequency response and save cost. The AS9604 is capable of delivering 3-Vrms output into a 2.5k Ω load with 5V supply. The gain settings can be set by users from 1V/V to 10V/V externally. The AS9604 has under voltage protection to prevent POP noise. Build-in shutdown control and de-pop control sequence also help AS9604 to be a pop-less device.

Applications

- ◆ LCD / PDP TVs
- ◆ DVD players
- ◆ Set-Top Boxes
- ◆ Home Theater in Box

Features

- ◆ Operation Voltage: 3.0V to 5.5V
- ◆ Cap-less Output
 - Eliminates Output Capacitors
 - Improves Low Frequency Response
 - Reduces POP/Clicks
- ◆ Low Noise and THD
 - SNR > 102dB
 - Typical Vn < 12uVrms
 - THD+N < 0.02% at 20Hz~20kHz
- ◆ Maximum Output Voltage Swing into 2.5k Ω Load
 - 2Vrms at 3.3V Supply Voltage
 - 3Vrms at 5V Supply Voltage
- ◆ Differential Input
- ◆ External Gain Setting from 1V/V to 10V/V
- ◆ Fast Start-up Time : 0.5ms
- ◆ Integrated De-Pop Control
- ◆ External Under Voltage Protection
- ◆ Thermal Protection
- ◆ Less External Components Required
- ◆ +/-8kV IEC ESD Protection at line outputs
- ◆ MSOP10

Typical Application

