

CN2652

12MHz, Dual Rail-to-Rail Output Operational Amplifier

Features

- Rail-to-Rail Output
- Low Noise: 11 nV/rHz
- Low Distortion
- High Output Voltage Swing: 4.75V (with 350mA Output Current)
- Low Output Voltage Swing: 0.25V (with 350mA Output Current)
- Supply Voltage Range: 2.5V to 5.5V
- Thermal Shutdown Protection Circuitry
- Low Input Offset Voltage
0.6mV typical
- Gain Bandwidth Product: 12MHz
- Slew Rate: 7.0V/μs
- Low Power
5.0mA/Amplifier Typical Supply Current
- Small Packaging:
Available in Green SOP8 Package

Applications

- Data Acquisition
- Process Control
- Active Filters
- Test Equipment
- Mobile Phone
- Audio Processing
- Video Processing
- Headphone Amplifier
- Portable Equipment
- Broadband Communications
- A-to-D Driver
- D-to-A Driver

Description

The CN2652 is a dual, rail-to-rail output operational amplifier that is optimized and fully specified for 5V operation. High output current allows low load impedance to be driven.

The CN2652 has a wide input common-mode voltage range and output voltage swing, running at single supply voltage from 2.5V to 5.5V.

The CN2652 provides excellent overall performance. It exhibits low noise and distortion, low offset and high output current capability, making this device an excellent choice for high quality, low voltage or battery operated audio systems.

The CN2652 is offered in Green SOP8 package. It is specified over the extended -40°C to $+125^{\circ}\text{C}$ temperature range.

