



# High Speed, Rail-to-Rail Output Amplifiers, with Ultra-low Power-Down

## Features

- Ultra-low power-down current 150nA/amp max
- Quiescent current 5mA/amp
- High speed
  - 100V/ $\mu$ s slew rate
  - 95MHz -3dB bandwidth
  - 85nS settling time to 0.1%
- Excellent video specification
  - 0.1dB flatness: 12MHz
  - Differential gain : 0.5%
  - Differential phase: 0.25°
- 3V to 5.5V single supply
- Low offset voltage: 1mV, typically
- Surface-Mount package TQFN3x3-16

## Applications

- Portable multimedia players
- Video cameras
- Digital still cameras
- Consumer video

## General Description

The G1812 is the high speed, rail-to-rail output operation amplifiers with ultra-low power-down current. The 95MHz -3dB bandwidth and 100V/ $\mu$ s slew-rate make these operation amplifiers well-suited for many general-purpose, high speed application.

The G1812 is designed to operate at supply voltage ranged from 3V to 6V at 5mA of operated current per amplifier. In the power-down mode, the current is less than 150nA per amplifier, ideal for battery-powered applications.

The differential gain is 0.5%, the differential phase is 0.25°, and 0.1dB flatness out to 12MHz. So it is suitable for the video applications.

## Ordering Information

| ORDER NUMBER | MARKING | TEMP. RANGE    | PACKAGE (Pb free) |
|--------------|---------|----------------|-------------------|
| G1812R41U    | 1812    | -40°C to +85°C | TQFN3x3-16        |
| G1812P81U    | G1812   | -40°C to +85°C | MSOP-8            |

Note: R4 :TQFN3X3-16

P8 : MSOP-8

1: Bonding Code

U: Tape & Reel

## Pin Configuration

