



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/ μ 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/ μ 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

