# Dual Rail-to-Rail I/O, High-Slew-Rate OP Amp

#### **Features**

- +2.2V to +5.5V Single-Supply Operation
- Input / Output Rail-to-Rail
- Low Input Current
- High Output Driving Capacity
- Low Quiescent Current: 1mA @ 5V
- High Slew Rate 6V/µs
- High Gain-Bandwidth Product 2.5MHz
- High Open Loop Gain 95dB
- High PSRR 70dB

#### **Applications**

- **■** Headphone Driver
- Portable Equipment
- **■** Battery-Powered Equipment
- Multimedia Audio
- ASIC Input or Output Amplifier
- Sensor Amplifier
- Low Power/Low Voltage Applications

#### **General Description**

G1224 is a input/output rail-to-rail Operational Amplifier. It can be operated from +2.2V to +5.5V single supply or from  $\pm 1.1$ V to  $\pm 2.75$  dual supply. G1224 can drive 66mA into resistor loads to within 10% power rail each amplifier. AC performance is very excellent with 2.5MHz bandwidth, 6V/ $\mu$ s Slew Rate, 95dB open loop gain, 60 degree phase margin and low distortion.

Supply current of G1224 is only  $500\mu A$  per Amplifier. It is very suitable for low current consumption applications to control high current loads. Applications include audio amplification for computers, sound ports, sound cards and set-top boxes.

G1224 is available in 8pins SOP-8, MSOP-8, TSSOP-8 and SOT-23-8 package.

### **Ordering Information**

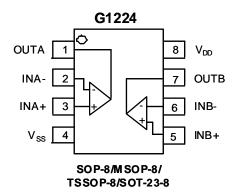
ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G1224P1U	G1224	-40°C to 85°C	SOP-8
G1224P8U	G1224	-40°C to 85°C	MSOP-8
G1224D1U	G1224	-40°C to 85°C	TSSOP-8
G1224TMU	1224x	-40°C to 85°C	SOT-23-8
G1224TMD	1224x	-40°C to 85°C	SOT-23-8

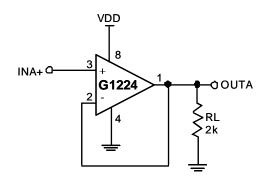
Note: P1: SOP-8 P8: MSOP-8 D1: TSSOP-8 TM: SOT-23-8

U & D: Tape & Reel

## **Pin Configuration**

# **Typical Application Circuit**





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