# MAX4112/MAX4113

# **ADVANCE INFORMATION**

All information in this data sheet is preliminary and subject to change.
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# 500MHz, High-Speed, Current-Mode Feedback Op Amps

### **General Description**

The MAX4112/MAX4113 current-mode feedback op amps combine high-speed performance with low-power operation. The MAX4112 is optimized for closed-loop gains (AvcL) of 2V/V or greater, while the MAX4113 is optimized for gains of 10V/V or greater.

The MAX4112/MAX4113 require only 5mA of supply current to deliver bandwidths of 500MHz (Av  $\geq$  2V/V) and 375MHz (Av  $\geq$  10V/V) respectively, producing an effective gain-bandwidth product of 1GHz for the MAX4112 and 3.8GHz for the MAX4113. The high slew rates (1500V/µs and 1800V/µs) provide exceptional full-power bandwidths (225MHz and 275MHz), making these amplifiers ideal for high-performance pulse and RGB video applications.

These high-speed op amps have a wide output voltage swing of ±3.5V and a high current-drive capability of 70mA.

### \_Applications

Broadcast and High-Definition TV Systems

RGB Video

Pulse/RF Amplifier

Ultrasound

Active Filters

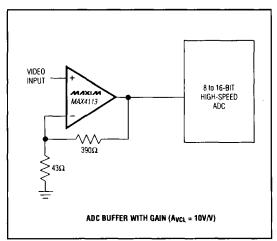
**ADC Buffers** 

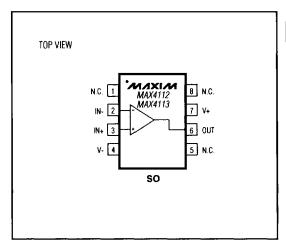
# \_\_\_\_\_Features

- 500MHz Gain Bandwidth (AvcL = 2V/V, MAX4112)
   375MHz Gain Bandwidth (AvcL = 10V/V, MAX4113)
- 1500V/μs Slew Rate (MAX4112)
   1800V/μs Slew Rate (MAX4113)
- 225MHz Full-Power Bandwidth (V<sub>O</sub> = 2Vp-p, MAX4112)
   275MHz Full-Power Bandwidth (V<sub>O</sub> = 2Vp-p, MAX4113)
- ♦ High Output Drive: 70mA
- ◆ Low Power: 5mA Supply Current

Pin Configuration

## Typical Application Circuit





MIXIM

Maxim Integrated Products

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Call toll free 1-800-998-8800 for free samples or literature.

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