

ADVANCE INFORMATION

All information in this data sheet is preliminary and subject to change.

6/95

750MHz, Ultra-High-Speed, Low-Noise Op Amps



MAX4104/MAX4105

General Description

The MAX4104/MAX4105 op amps combine ultra-high-speed performance with moderate power operation. The MAX4104 is compensated for unity-gain stability, while the MAX4105 is compensated for stability in applications with a closed-loop gain (A_{VCL}) of 2V/V or greater.

The MAX4104/MAX4105 require only 15mA of supply current while delivering a 750MHz unity-gain bandwidth with a 250V/ μ s slew rate (MAX4104), or a 750MHz gain bandwidth with a 450V/ μ s slew rate (MAX4105). Voltage noise is a low 2nV/ $\sqrt{\text{Hz}}$, making these amplifiers ideal for low-noise video and telecommunications applications.

These high-speed op amps have a wide output voltage swing of $\pm 3.3\text{V}$ and a high current-drive capability of 70mA.

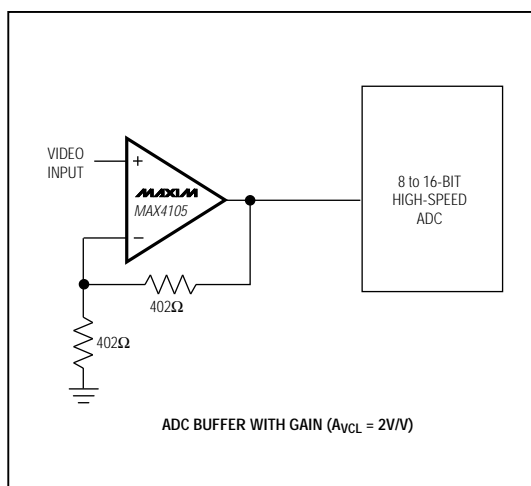
Features

- ♦ 750MHz Unity-Gain Bandwidth (MAX4104)
750MHz Gain Bandwidth ($A_{VCL} = 2\text{V/V}$, MAX4105)
- ♦ 250V/ μ s Slew Rate (MAX4104)
450V/ μ s Slew Rate (MAX4105)
- ♦ 2nV/ $\sqrt{\text{Hz}}$ Voltage Noise
- ♦ High Output Drive: 70mA

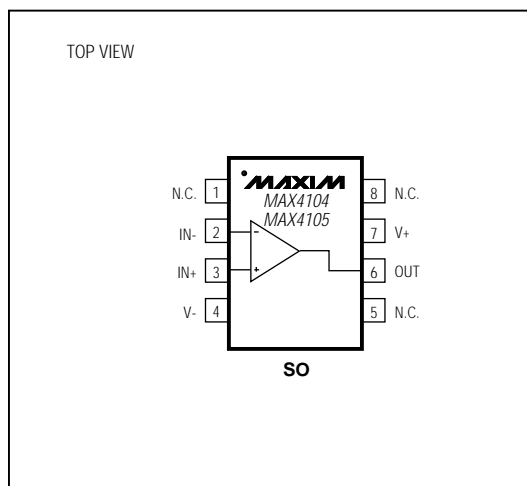
Applications

Video ADC Preamp
Pulse/Rf Telecom Applications
Video Buffers and Cable Drivers
Ultrasound
Active Filters
ADC Buffers

Typical Application Circuit



Pin Configuration



Maxim Integrated Products 1

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