



Aerospace Dual Low Noise, Rail-to-Rail Input/Output I/O, Low Power Operational Amplifiers

Data Sheet

ADA4084-2S

FEATURES

- Rail-to-rail input/output
- Low power: 0.675 mA typical per amplifier at ± 15 V
- Gain bandwidth product: 15.9 MHz at $A_v = 100$ typical
- Unity-gain crossover: 9.9 MHz typical
- 3 dB closed-loop bandwidth: 13.9 MHz typical at ± 15 V
- Low offset voltage: 100 μ V maximum
- Unity-gain stable
- High slew rate: 4.6 V/ μ s typical
- Low noise: 3.9 nV/ $\sqrt{\text{Hz}}$ typical at 1 kHz

APPLICATIONS

- Battery-powered instrumentation
- High-side and low-side sensing
- Power supply control and protection
- Telecommunications
- Digital-to-analog converter (DAC) output amplifiers
- Analog-to-digital converter (ADC) input buffers

GENERAL DESCRIPTION

The ADA4084-2S (dual) is a single-supply, 10 MHz bandwidth amplifiers featuring rail-to-rail inputs and outputs. It is guaranteed to operate from +3 V to +30 V (or ± 1.5 V to ± 15 V).

This amplifiers is well suited for single-supply applications requiring both ac and precision dc performance. The combination of wide bandwidth, low noise, and precision makes the ADA4084-2 useful in a wide variety of applications, including filters and instrumentation.

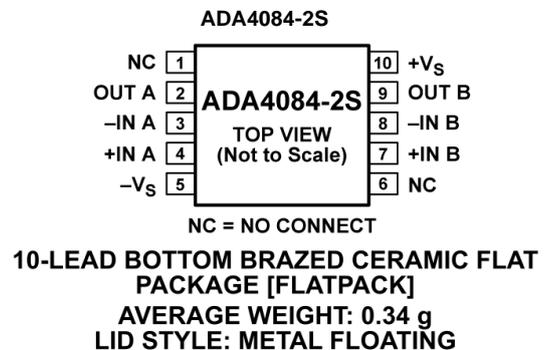
The ability to swing rail to rail at both the input and output enables designers to build multistage filters in single-supply systems and to maintain high signal-to-noise ratios.

The ADA4084 represents the latest generation of the OP484S generation amplifiers.

The ADA4084-2S is specified over the military temperature range of -55°C to $+125^\circ\text{C}$. The dual ADA4084-2S is available in the 10-lead flat pack surface-mount package.

The ADA4084-2S is a member of a growing series of high voltage, low noise op amps offered by Analog Devices, Inc.

PIN CONNECTION DIAGRAM



Rev. I

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