

Low Cost, High Speed, Rail-to-Rail Amplifier; Package: SOIC; No of Pins: 14; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-14
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8054ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8051 (single), AD8052 (dual) and AD8054 (quad) are low cost, high speed, voltage feedback amplifiers. The amplifiers operate on +3 V, +5 V or ± 5 V supplies at low supply current. They have true single-supply capability with an input voltage range extending 200 mV below the negative rail and within 1 V of the positive rail.

Despite their low cost, the AD8051/AD8052/AD8054 provide excellent overall performance and versatility. The output voltage swings to within 25 mV of each rail, providing the maximum output dynamic range with excellent overdrive recovery.

The AD8051/AD8052/AD8054 are well suited for video electronics, cameras, video switchers, or any high speed portable equipment. Low distortion and fast settling make them ideal for active filter applications.

The AD8051/AD8052 in the 8-lead SOIC, the AD8052 in the MSOP, the AD8054 in the 14-lead SOIC, and the 14-lead TSSOP packages are available in the extended temperature range of -40°C to $+125^{\circ}\text{C}$.

Features

High speed and fast settling on 5 V 110 MHz, -3 dB bandwidth = +1) (AD8054) 145 V/ μ s slew rate 50 ns settling time to 0.1%

Single-supply operation Output swings to within 25 mV of either rail Input voltage range: -0.2 V to +4 V; $>$

Video specifications = 150 Ω Differential gain/phase: 0.03%/0.03 $^\circ$

Low distortion -80 dBc total harmonic @ 1 MHz, $>$

Outstanding load drive capability Drives 45 mA, 0.5 V from supply rails(AD8051/AD8052) Drives 50 pF capacitive load $>$

Low power: 2.75 mA/amplifier (AD8054)

Low power: 4.4 mA/amplifier (AD8051/AD8052)

Application

Active filters

Analog-to-digital drivers

Clock buffer

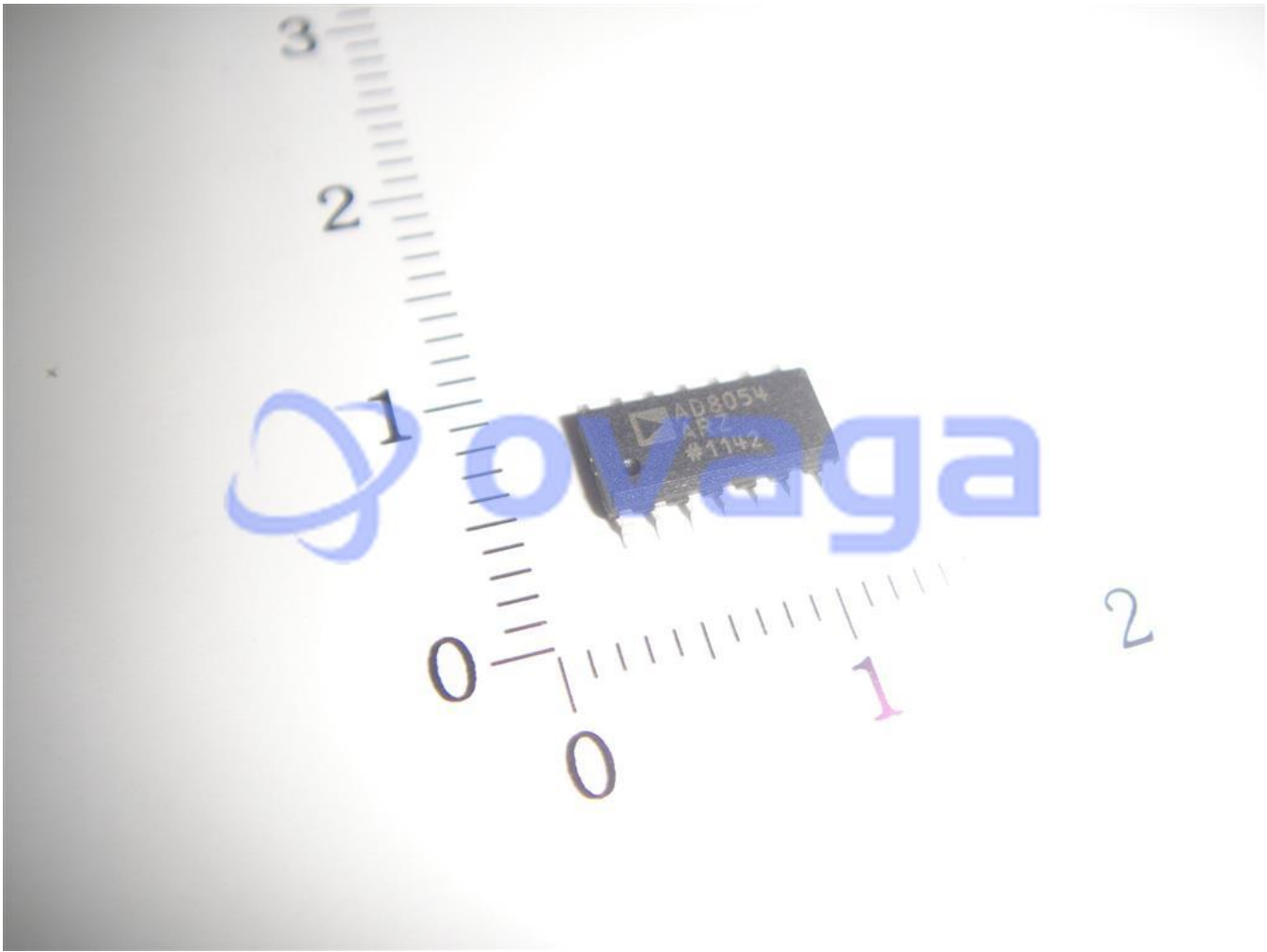
Consumer video

Professional cameras

CCD imaging systems

CD/DVD ROMs



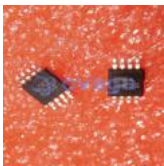


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8628AUJZ](#)

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SOP23



[AD8041AR](#)

Analog Devices, Inc
SOP-8