

Operational Amplifier, Single, 1 Amplifier, 550 MHz, 1350 V/ μ s, 5V to 12V, SOIC, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8099ARDZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8099 is an ultralow noise (0.95nV/ $\sqrt{\text{Hz}}$) and distortion (-92dBc @ 10MHz) voltage feedback op amp, the combination of which make it ideal for 16- and 18-bit systems. The AD8099 features a new, highly linear, low noise input stage that increases the full power bandwidth (FPBW) at low gains with high slew rates. ADI's proprietary next generation XFCB process enables such high performance amplifiers with relatively low power.

The AD8099 features external compensation, which allows the user to set the gain bandwidth product. External compensation allows gains from +2 to +10 with minimal trade-off in bandwidth. The AD8099 also features an extremely high slew rate of 1350V/ μ s, giving the designer flexibility to use the entire dynamic range without trading off bandwidth or distortion. The AD8099 settles to 0.1% in 18 ns and recovers from overdrive in 50 ns.

The AD8099 drives 100 W loads at breakthrough performance levels with only 15 mA of supply current. With the wide supply voltage range (5V to 12V), low offset voltage (0.1 mV typ), wide bandwidth (700MHz for >

The AD8099 is available in 3mm x 3mm lead frame chip scale package (LFCSP) with a new pinout that is specifically optimized for high performance, high speed amplifiers. The new package and pinout enable the breakthrough performance that previously was not achievable with amplifiers. The AD8099 is rated to work over the extended industrial temperature range, -40°C to +125°C.

Features

Ultralow Noise: 0.95nV/vHz, 2.6pA/vHz

Ultralow Distortion 2nd Harmonic>

New pinout

Custom external compensation, gain range -1, +2 to +10

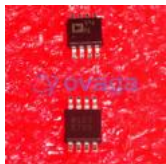
High Speed GBWP: 3.8GHz-3dB bandwidth:700MHz>

Supply current: 15mA

Offset voltage: 0.5mV max

Wide supply voltage range: 5V to 12V

Related Products



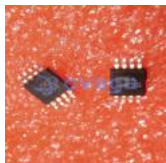
[AD8418BRMZ-RL](#)

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