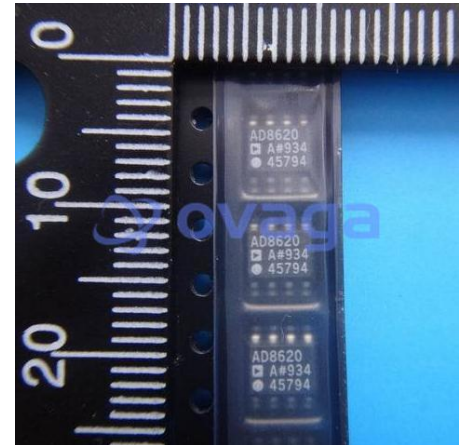


Operational Amplifier, Dual, 2 Amplifier, 25 MHz, 50 V/ μ s, $\pm 5V$ to $\pm 13V$, SOIC, 8 Pins

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | SOP-8 |
| Product Type | Amplifier ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for AD8620ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8610 (single) and AD8620 (dual) are very high precision JFET input amplifiers featuring ultralow offset voltage and drift, very low input voltage and current noise, very low input bias current, and wide bandwidth. Unlike many JFET amplifiers, the AD8610 input bias current is low over the entire operating temperature range. The AD8610 is stable with capacitive loads of over 1000 pF in noninverting unity gain; much larger capacitive loads can be driven easily at higher noise gains. The AD8610 swings to within 1.2 V of the supplies even with a 1 k Ω load, maximizing dynamic range even with limited supply voltages. Outputs slew at 50 V/ μ s in either inverting or noninverting gain configurations, and settle to 0.01% accuracy in less than 600 ns. Combined with the high input impedance, great precision, and very high output drive, the AD8610 is an ideal amplifier for driving high performance A/D inputs and buffering D/A converter outputs.

Applications for the AD8610 and AD8620 include electronic instruments; ATE amplification, buffering, and integrator circuits; CAT/MRI/Ultrasound medical instrumentation; instrumentation quality photodiode amplification; fast precision filters (including PLL filters); and high quality audio.

The AD8610 is fully specified over the extended industrial (-40°C to $+125^{\circ}\text{C}$) temperature range. The AD8610 is available in the narrow 8-lead SOIC and the tiny MSOP8 surface-mount packages. The AD8620 is available in the narrow 8-lead SOIC package. MSOP8 packaged devices are available only in tape and reel.

Features

Low Noise 6 nV/ $\sqrt{\text{Hz}}$

Low Offset Voltage: 100 μV Max

Low Input Bias Current 10 pA Max

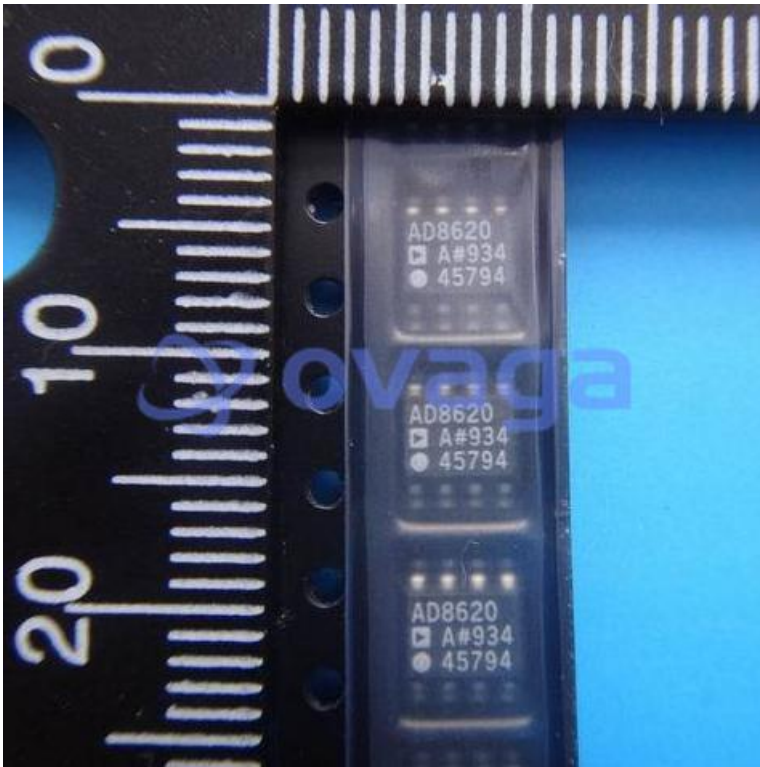
Fast Settling: 600 ns to 0.01%

Low Distortion

Unity Gain Stable

No Phase Reversal

Dual-Supply Operation: $\pm 5\text{ V}$ to $\pm 13\text{ V}$



Related Products



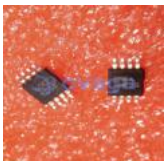
[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



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MSOP8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



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[AD8628AUJZ](#)

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SOP23



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SOP-8