

High Speed, Low Noise Quad Operational Amplifier; Package: CERDIP GLASS SEAL; No of Pins: 14; Temperature Range: Military

Manufacturers	Analog Devices, Inc
Package/Case	CDIP-14
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 5962-8856502CA or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The OP471 is a monolithic quad op amp featuring low-noise, $11\text{nV}/(\text{root})\text{Hz}$ Max at 1kHz, excellent speed, $8\text{V}/\mu\text{s}$ typical, a gain-bandwidth of 6.5MHz, and unity-gain stability.

The OP471 has an input offset voltage under 0.8mV and an input offset voltage drift below $4\mu\text{V}/^\circ\text{C}$. guaranteed over the full military temperature range. Open loop gain of the OP471 is over 500,000 into a 10k Ohm load insuring outstanding gain accuracy and linearity. The input bias current is under 25nA limiting errors due to signal source resistance. The OP471's CMR of over 105dB and PSRR of under $5.6\mu\text{V}/\text{V}$ significantly reduce errors caused by ground noise and power supply fluctuations.

The OP471 offers excellent amplifier matching which is important for applications such as multiple gain blocks, low-noise instrumentation amplifiers, quad buffers and low-noise active filters.

The OP471 conforms to the industry standard 14-pin DIP pinout. It is pin compatible with the OP-11, LM 148/149, HA4741, RM4156, MC33074, TL084 and TL074 quad op amps and can be used to upgrade systems using these devices.

For applications requiring even lowervoltage noise the OP470, with a voltage density of $5\text{nV}/(\text{root})\text{Hz}$ Max at 1kHz, is recommended.

Features

Excellent Speed: 8 V/ μ s Typ

Low Noise: 11 nV/ $\sqrt{\text{Hz}}$ @ 1 kHz Max

Unity-Gain Stable

High Gain Bandwidth: 6.5 MHz Typ

Low Input Offset Voltage: 0.8 mV Max

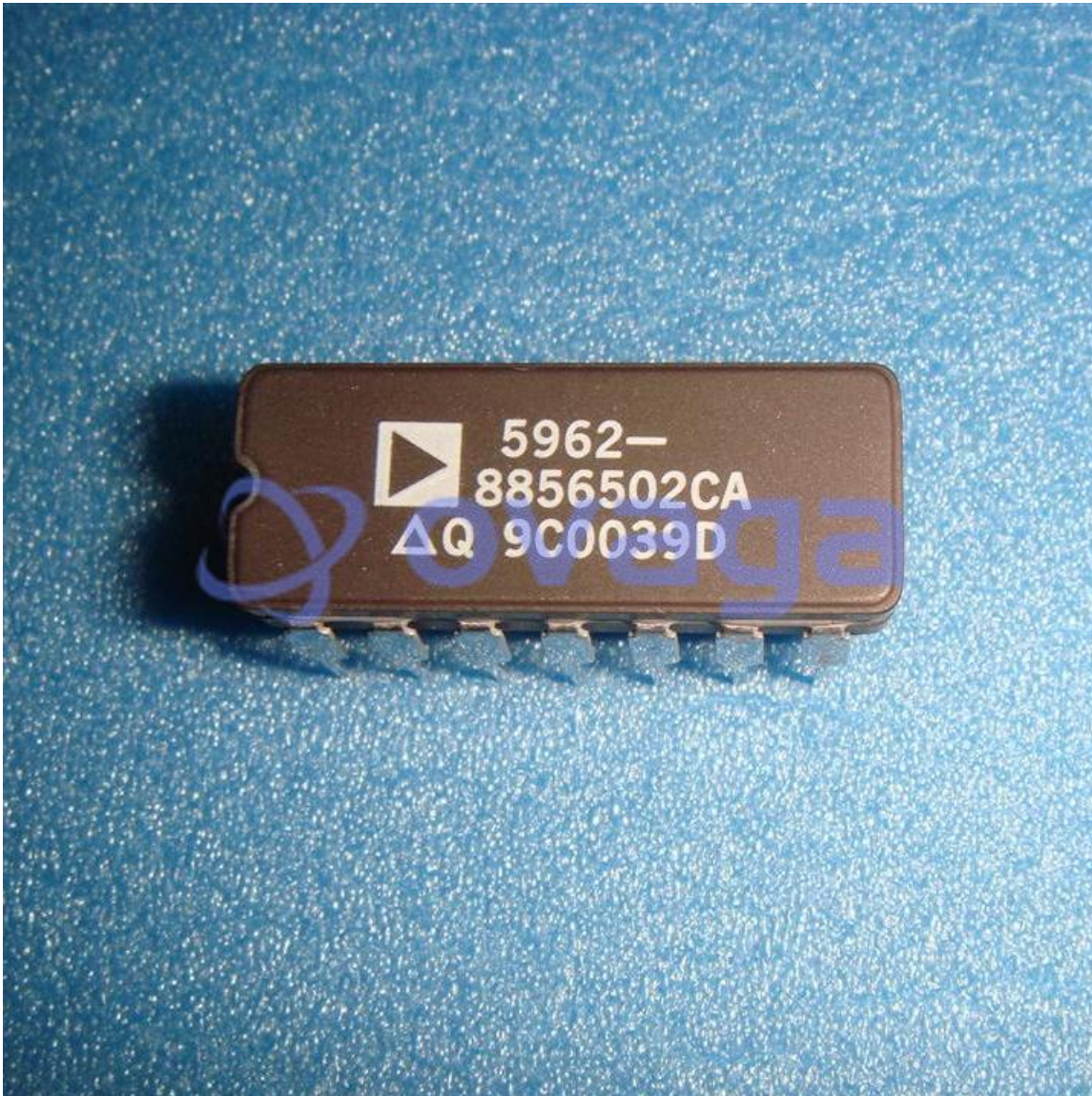
Low Offset Voltage Drift: 4 μ V/ $^{\circ}$ C Max

High Gain: 500 V/mV Min

Outstanding CMR: 105 dB Min

Industry Standard Quad Pinouts





Related Products



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MSOP-1