

Low Power, Rail-to-Rail Output Precision JFET Dual Amplifier in 8-lead MSOP and 8-lead SOIC lead-free Packages; Package: SOIC; No of Pins: 8; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8642ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8641/AD8642/AD8643 are low power, precision JFET input amplifiers featuring extremely low input bias current and rail-to-rail output. The ability to swing nearly rail-to-rail at the input and rail-to-rail at the output enables designers to buffer CMOS DACs, ASICs, and other wide output swing devices in single-supply systems. The outputs remain stable with capacitive loads of more than 500 pF.

The AD8641/AD8642/AD8643 are suitable for applications utilizing multichannel boards that require low power to manage heat. Other applications include photodiodes, ATE reference level drivers, battery management, and industrial controls.

The AD8641/AD8642/AD8643 are fully specified over the extended industrial temperature range of -40°C to $+125^{\circ}\text{C}$. The AD8641 is available in 5-lead SC70 and 8-lead SOIC lead-free packages. The AD8642 is available in 8-lead MSOP and 8-lead SOIC lead-free packages. The AD8643 is available in 14-lead SOIC and 16-lead, $3\text{ mm} \times 3\text{ mm}$, LFCSP lead-free packages.

Applications

Line-/battery-powered instruments

Photodiode amplifiers

Precision current sensing

Medical instrumentation

Industrial controls

Precision filters

Portable audio

ATE

Features

Low Supply Current: 250 μ A max

Very Low Input Bias Current: 1 pA max

Low Offset Voltage: 750 μ V max

Single-supply Operation: 5 V to 26 V

Dual-supply Operation: \pm 2.5 V to \pm 13 V

Rail-to-rail Output

Unity Gain Stable

No Phase Reversal

Application

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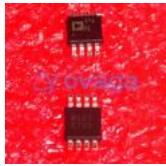
Industrial controls

Precision filters

Portable audio

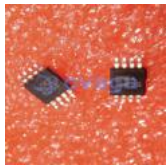
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Related Products



[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](#)

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MSOP-8



[AD8062ARMZ](#)

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[AD8628AUJZ](#)

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SOP23



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SOP-8