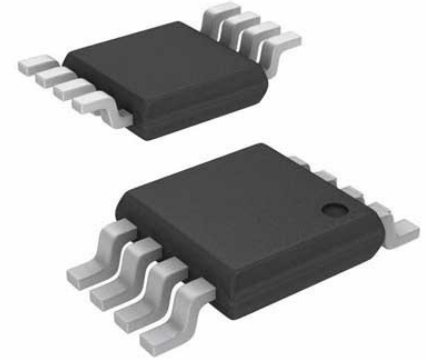


Voltage Reference, Ultraprecision, Low Noise, Series - Fixed, ADR421 Series, 2.5V, MSOP-8

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADR421ARMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADR42x are a series of ultraprecision, second generation eXtra implanted junction FET (XFET) voltage references featuring low noise, high accuracy, and excellent long-term stability in SOIC and MSOP footprints.

Patented temperature drift curvature correction technique and XFET technology minimize nonlinearity of the voltage change with temperature. The XFET architecture offers superior accuracy and thermal hysteresis to the band gap references. It also operates at lower power and lower supply headroom than the buried Zener references.

The superb noise and the stable and accurate characteristics of the ADR42x make them ideal for precision conversion applications such as optical networks and medical equipment. The ADR42x trim terminal can also be used to adjust the out-put voltage over a  $\pm 0.5\%$  range without compromising any other performance. The ADR42x series voltage references offer two electrical grades and are specified over the extended industrial temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . Devices have 8-lead SOIC or 30% smaller, 8-lead MSOP packages.

## Features

Low noise (0.1 Hz to 10 Hz)

ADR420: 1.75  $\mu\text{V}$  p-p

ADR421: 1.75  $\mu\text{V}$  p-p

ADR423: 2.0  $\mu\text{V}$  p-p

ADR425: 3.4  $\mu\text{V}$  p-p

Low temperature coefficient: 3 ppm/ $^{\circ}\text{C}$

Long-term stability: 50 ppm/1000 hours

Load regulation: 70 ppm/mA

Line regulation: 35 ppm/V

Low hysteresis: 40 ppm typical

Wide operating range

ADR420: 4 V to 18 V

ADR421: 4.5 V to 18 V

ADR423: 5 V to 18 V

ADR425: 7 V to 18 V

Quiescent current: 0.5 mA maximum

High output current: 10 mA

Wide temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

## Application

Precision data acquisition systems

High resolution converters

Battery-powered instrumentation

Portable medical instruments

Industrial process control systems

Precision instruments

Optical network control circuits

## Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc  
MSOP-8



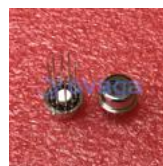
[AD737JRZ](#)

Analog Devices, Inc  
SOP-8



[ADP3367ARZ](#)

Analog Devices, Inc  
SOIC-8



[AD636JH](#)

Analog Devices, Inc  
TO-100-10



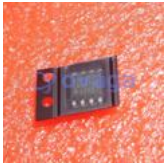
[ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc  
SOT-23-6



[ADR434BRZ](#)

Analog Devices, Inc  
SOIC-8



[ADR421ARZ](#)

Analog Devices, Inc  
SOP-8



[ADR3412ARJZ-R7](#)

Analog Devices, Inc  
SOT-23-6