

V-Ref Precision 5V 30mA 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: SOP8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The ADR430/ADR431/ADR433/ADR434/ADR435 series is a family of XFET® voltage references featuring low noise, high accuracy, and low temperature drift performance. Using Analog Devices, Inc., temperature drift curvature correction and extra implanted junction FET (XFET) technology, voltage change vs. temperature nonlinearity in the ADR430/ADR431/ADR433/ADR434/ADR435 is minimized.

The XFET references operate at lower current (800 μ A) and lower supply voltage headroom (2 V) than buried Zener references. Buried Zener references require more than 5 V of headroom for operation. The ADR430/ADR431/ADR433/ADR434/ADR435 XFET references are low noise solutions for 5 V systems.

The ADR430/ADR431/ADR433/ADR434/ADR435 family has the capability to source up to 30 mA of output current and sink up to -20 mA. It also comes with a trim terminal to adjust the output voltage over a $\pm 0.5\%$ range without compromising performance.

The ADR430/ADR431/ADR433/ADR434/ADR435 are available in 8-lead MSOP and 8-lead narrow SOIC packages. All versions are specified over the extended industrial temperature range of -40°C to $+125^{\circ}\text{C}$.

Key Features

Low temperature coefficient

Low noise (3.5 μ Vp-p (0.1 to 10Hz))

No external capacitor required

15ppm/mA Load regulation

20ppm/V Line regulation

Wide operating range (7 to 18V)

High output source and sink current (+30 and -20mA)

Application

Precision data acquisition systems

High resolution data converters

Medical instruments

Industrial process control systems

Optical control circuits

Precision instruments

Recommended For You

ADP196ACPZN-R7

Analog Devices, Inc
LFCSP-6

ADP191ACBZ-R7

Analog Devices, Inc
WLCSP4

AD581LH

Analog Devices, Inc
CAN3

ADI583BRTZ-REEL7

Analog Devices, Inc
SOT-23

ADL5315ACPZ-R7

Analog Devices, Inc
LFCSP8

ADP5023ACPZ-R7

Analog Devices, Inc
LFCSP-24

ADR01TUJZ-EP-R7

Analog Devices, Inc
5-LeadTSOT

AD581KH

Analog Devices, Inc
CAN3

AD780BRZ

Analog Devices, Inc
SOP8

AD580SH

Analog Devices, Inc
CAN3

ADM660ARZ

Analog Devices, Inc
SOP8

ADM660ARZ-REEL7

Analog Devices, Inc
SOP8

ADP1612ARMZ-R7

Analog Devices, Inc
MSOP8

ADR444BRZ

Analog Devices, Inc
SOP8

AD589JH

Analog Devices, Inc
CAN