


V-Ref Precision 4.096V 10mA 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP8
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADR440/ADR441/ADR443/ADR444/ADR445 series is a family of XFET® voltage references featuring ultralow noise, high accuracy, and low temperature drift performance. Using Analog Devices, Inc., patented temperature drift curvature correction and XFET (eXtra implanted junction FET) technology, voltage change vs. temperature nonlinearity in the ADR440/ADR441/ADR443/ADR444/ADR445 is greatly minimized.

The XFET references offer better noise performance than buried Zener references, and XFET references operate off low supply voltage headroom (500 mV). This combination of features makes the ADR440/ADR441/ADR443/ADR444/ADR445 family ideally suited for precision signal conversion applications in high-end data acquisition systems, optical networks, and medical applications.

The ADR440/ADR441/ADR443/ADR444/ADR445 family has the capability to source up to 10 mA of output current and sink up to -5 mA. It also comes with a trim terminal to adjust the output voltage over a 0.5% range without compromising performance.

The ADR440/ADR441/ADR443/ADR444/ADR445 family is available in 8-lead MSOP and narrow SOIC packages and offered in two electrical grades. All versions are specified over the extended industrial temperature range of -40°C to +125°C.

Key Features

Input range of (VOUT + 500mV) to 18V

500mV Low dropout operation

1.8µVp-p Ultralow noise (0.1 to 10Hz)

Application

Precision data acquisition systems

High resolution data converters

Battery-powered instrumentation

Portable medical instruments

Industrial process control systems

Precision instruments

Optical control circuits

Recommended For You

ADP196ACPZ-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