


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

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

- Ultralow noise (1.8µVp-p (0.1 to 10Hz))
- Superb temperature coefficient
- Low dropout operation (500mV)
- Input range (VOUT + 500mV) to 18V
- High output source and sink current (+10 and -5mA)

### 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

### **AD1583BRTZ-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

### **AD589JH**

Analog Devices, Inc  
CAN

### **AD1582ARTZ-REEL7**

Analog Devices, Inc  
SOT-23