ADR4540ARZ

Data Sheet

Voltage Reference, Ultralow Noise, High Accuracy, Series - Fixed, ADR4540 Series, 4.096V, NSOIC-8

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

Images are for reference only

Please submit RFQ for ADR4540ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADR4520/ADR4525/ADR4530/ADR4533/ADR4540/ADR4550 devices are high precision, low power, low noise voltage references featuring ±0.02% B, C, and D grade maximum initial error, excellent temperature stability, and low output noise.

This family of voltage references uses an innovative core topology to achieve high accuracy while offering industry-leading temperature stability and noise performance. The low, thermally induced output voltage hysteresis and low long-term output voltage drift of the devices also improve system accuracy overtime and temperature variations.

A maximum operating current of 950 µA and a maximum low dropout voltage of 300 mV allow the devices to function very well in portable equipment.

The ADR4520/ADR4525/ADR4530/ADR4533/ADR4540/ADR4550 series of references are each provided in an 8-lead SOIC and are available in a wide range of output voltages, all of which are specified over the extended industrial temperature range of −40°C to +125°C.

APPLICATIONS

Features

Maximum temperature coefficient (TCV

OUT

0.8 ppm/°C (D grade 0°C to 70°C)

1 ppm/°C (C grade 0°C to 70°C)

2 ppm/°C (B grade −40°C to +125°C)

4 ppm/°C (A grade −40°C to +125°C)

Application

Precision data acquisition systems

High resolution data converters

High precision measurement devices

Industrial instrumentation

Medical devices

Automotive battery monitoring

Output noise (0.1 Hz to 10 Hz):

1 µV p-p at V

OUT

Initial output voltage error:

B, C, D grade: ±0.02% (maximum)

Input voltage range: 3 V to 15 V

0.8 ppm/°C (D grade 0°C to 70°C)

1 ppm/°C (C grade 0°C to 70°C)

2 ppm/°C (B grade −40°C to +125°C)

4 ppm/°C (A grade −40°C to +125°C)

B, C, D grade: ±0.02% (maximum)

Operating temperature:

A grade and B grade: −40°C to +125°C

C grade: 0°C to +70°C

Output current: +10 mA source/−10 mA sink

Low quiescent current: 950 µA (maximum)

Low dropout voltage: 300 mV at 2 mA (V

OUT

8-lead SOIC package and LCC package

AEC-Q100 qualified for automotive applications

Long-term drift: 8 ppm typical at 4500 hours

A grade and B grade: −40°C to +125°C

C grade: 0°C to +70°C

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