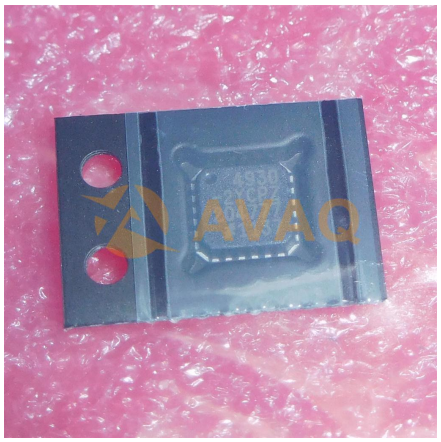
ADA4930-2YCPZ-R2

SP Amp DIFF AMP Dual 5.5V 24-Pin LFCSP EP T/R

Manufacturer:	Analog Devices, Inc
Package/Case:	LFCSP
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The ADA4930-1/ADA4930-2 are very low noise, low distortion, high speed differential amplifiers. They are an ideal choice for driving 1.8 V high performance ADCs with resolutions up to 14 bits from dc to 70 MHz. The adjustable output common mode allows the ADA4930-1/ADA4930-2 to match the input of the ADC. The internal common-mode feedback loop provides exceptional output balance, suppression of even-order harmonic distortion products, and dc level translation.

With the ADA4930-1/ADA4930-2, differential gain configurations are easily realized with a simple external feedback network of four resistors determining the closed-loop gain of the amplifier.

The ADA4930-1/ADA4930-2 are fabricated using Analog Devices,Inc., proprietary silicon-germanium (SiGe), complementarybipolar process, enabling them to achieve very low levels of distortion with an input voltage noise of only 1.2 nV/√Hz.

The low dc offset and excellent dynamic performance of theADA4930-1/ADA4930-2 make them well suited for a widevariety of data acquisition and signal processing applications.

The ADA4930-1 is available in a Pb-free, 3 mm × 3 mm 16-leadLFCSP, and the ADA4930-2 is available in a Pb-free, 4 mm × 4 mm 24-lead LFCSP. The pinout has been optimized to facilitate printedcircuit board (PCB) layout and minimize distortion. TheADA4930-1 is specified to operate over the −40°C to +105°Ctemperature range, and the ADA4930-2 is specified to operate over the −40°C to +105°C temperature range for 3.3 V or 5 V supplyvoltages.

Key Features

Low input voltage noise: 1.2 nV/√Hz

Low common-mode output: 0.9 V on single supply

Extremely low harmonic distortion

High speed

Slew rate: 3400 V/µs, 25% to 75%

0.1 dB gain flatness to 380 MHz

Fast overdrive recovery of 1.5 ns

0.5 mV typical offset voltage

Externally adjustable gain

Differential-to-differential or single-ended-to-differential operation

Adjustable output common-mode voltage

Single-supply operation: 3.3 V or 5 V

Application

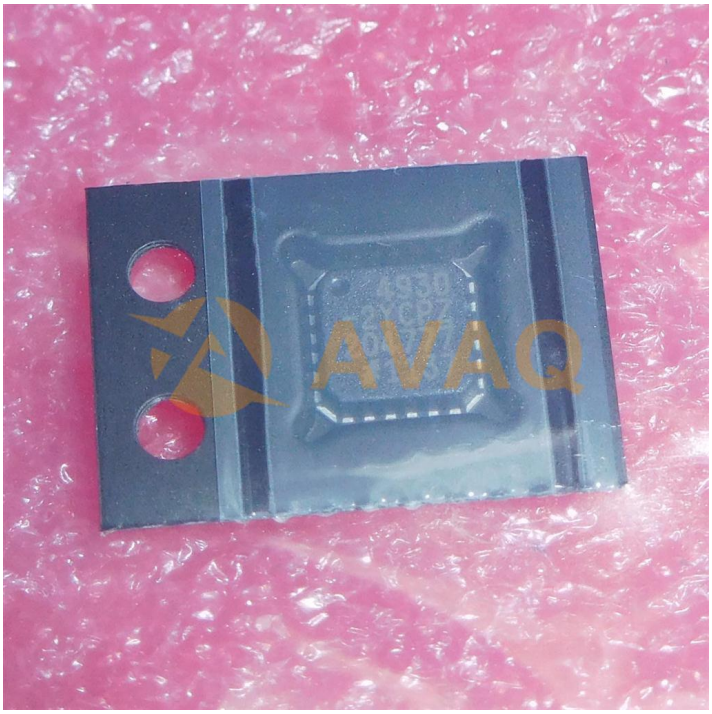
ADC drivers

Single-ended-to-differential converters

IF and baseband gain blocks

Differential buffers

Line drivers



Recommended For You

AD8309ARUZ

Analog Devices, Inc

TSSOP16

AD524BDZ

Analog Devices, Inc

CDIP-16

AD8221BR

Analog Devices, Inc

SOP-8

AD8221ARZ

Analog Devices, Inc

SOP8

AD627BRZ

Analog Devices, Inc

SOP8

AD622ANZ

Analog Devices, Inc

DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc

LFCSP24

AD8034ARZ

Analog Devices, Inc

SOP8

AD8561ARZ

Analog Devices, Inc

SOP8

AD633JRZ

Analog Devices, Inc

SOP8

AD632AH

Analog Devices, Inc

CAN10

AD8422BRZ

Analog Devices, Inc

SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc

SC70-5

AD620BN

Analog Devices, Inc

DIP8

AD620BR

Analog Devices, Inc

SOP