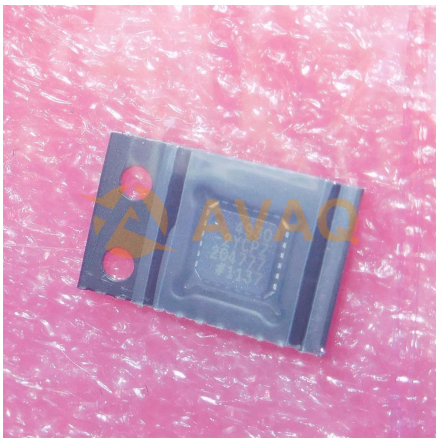
ADA4930-2YCPZ-R7

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

Manufacturer:	Analog Devices, Inc
Package/Case:	LFCSP24
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

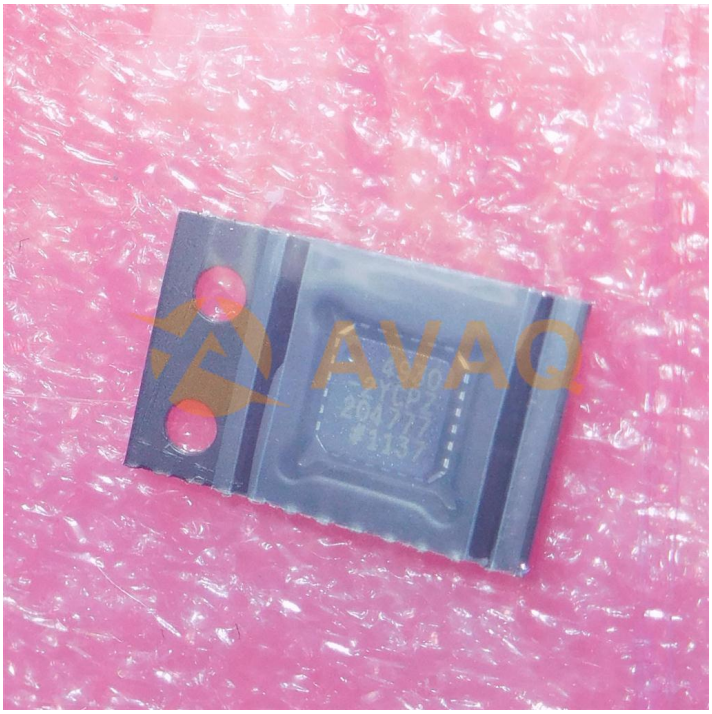
ADC drivers

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

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

AD204JY

Analog Devices, Inc

DIP