

## Resolver to Digital 16bit Parallel $\pm 2$ arcmin 44-Pin PLCC Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** PLCC

**Product Type:** Data Conversion ICs

**Lifecycle:** Obsolete

### General Description

AD2S82ALP is a monolithic resolver-to-digital converter manufactured by Analog Devices, Inc. It is a high-performance device that converts sine and cosine resolver signals into a binary representation of the angle and velocity of a rotating shaft.

### Key Features

It can accept resolver input signals with amplitudes ranging from 2.0 to 3.3 VRMS and frequencies up to 20 kHz.

It can operate with resolver signals having phase errors of up to  $\pm 8$  degrees.

It provides a 12-bit absolute position output and a 10-bit velocity output.

It has a built-in self-test function for diagnostics.

### Application

It is used in industrial automation systems to provide accurate position and velocity feedback for rotating machinery such as motors, actuators, and robotics.

It is used in aerospace and defense systems for precise positioning and control of antenna positioning systems, missile guidance systems, and other equipment.

It is used in automotive systems for controlling engine and transmission systems, and for providing feedback for electric power steering systems.



### Recommended For You

#### AD7305BRZ

Analog Devices, Inc

SOP20

#### AD9910BSVZ

Analog Devices, Inc

TQFP100

#### AD9831ASTZ

Analog Devices, Inc

QFP

**AD5447YRUZ**

Analog Devices, Inc  
TSSOP

**AD5302BRMZ**

Analog Devices, Inc  
MSOP10

**AD5531BRUZ**

Analog Devices, Inc  
TSSOP16

**AD537JH**

Analog Devices, Inc  
CAN10

**AD652AQ**

Analog Devices, Inc  
DIP

**AD654JN**

Analog Devices, Inc  
DIP8

**AD7740YRMZ**

Analog Devices, Inc  
MSOP8

**AD9914BCPZ**

Analog Devices, Inc  
LFCSP

**AD73311ARSZ**

Analog Devices, Inc  
SSOP20

**AD7291BCPZ**

Analog Devices, Inc  
LFCSP20

**AD9954YSVZ**

Analog Devices, Inc  
QFP

**AD2S1205YSTZ**

Analog Devices, Inc  
LQFP44