

## Resolver to Digital 12bit Parallel $\pm 30$ arcmin 28-Pin CDIP Tube



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	DIP
<b>Product Type:</b>	Data Conversion ICs
<b>Lifecycle:</b>	NRND

### General Description

The converter allows users to select their own resolution and dynamic performance with external components. This allows the users great flexibility in defining the converter that best suits their system requirements. The converter allows users to select the resolution to be 10, 12, 14, or 16 bits [AD2S81A allows 12 bit resolution only] and to track resolver signals rotating at up to 1040 revs per second (62,400 rpm) when set to 10-bit resolution. The AD2S80A/AD2S81A/AD2S82A series converts resolver format input signals into a parallel natural binary digital word using a ratiometric tracking conversion method. This ensures high noise immunity and tolerance of long leads allowing the converter to be located remote from the resolver. The AD2S80A/AD2S81A/AD2S82A series operates over reference frequencies in the range 50 Hz to 20,000 Hz.

### Key Features

AD2S80A/AD2S81A/AD2S82A

Tracking R/D Converter Ratiometric Conversion High Max Tracking Rate 1040 RPS(10 Bits) 10-, 12-, 14-, or 16-Bit Resolution Set by User Dynamic Performance Set by User Velocity Output

AD2S81A 12-Bit fixed resolution only 28-Lead DIP package

AD2S82A VCO output Data complement facility 44-Lead PLCC package

### Application

DC Brushless and AC Motor Control

Process Control

Numerical Control of Machine Tools

Robotics

Axis Control

Military Servo Control



## Recommended For You

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### **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