

## VFC Sync 2MHz 16-Pin CDIP



<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	CDIP16
<b>Product Type:</b>	Voltage to Frequency & Frequency to Voltage
<b>Lifecycle:</b>	Obsolete

Images are for reference only

[Inquiry](#)

## General Description

The AD652 uses a variation of the popular charge-balancing technique to perform the conversion function. The AD652 uses an external clock to define the full-scale output frequency, rather than relying on the stability of an external capacitor. The result is a more stable, more linear transfer function, with significant application benefits in both single and multichannel systems.

Gain drift is minimized using a precision low drift reference and low TC on-chip thin-film scaling resistors. Furthermore, the initial gain error is reduced to less than 0.5% by the use of laser-wafer-trimming.

The analog and digital sections of the AD652 have been designed to allow operation from a single-ended power source, simplifying its use with isolated power supplies.

The AD652 is available in five performance grades. The 20-pin PLCC packaged JP and KP grades are specified for operation over the 0°C to +70°C commercial temperature range. The 16-pin cerdip-packaged AQ and BQ grades are specified for operation over the -40°C to +85°C industrial temperature range, and the AD652SQ is available for operation over the full -55°C to +125°C extended temperature range.

## Key Features

- Full-Scale Frequency (up to 2 MHz) set by external system clock
- Extremely low linearity error (0.005% max at 1 MHz FS, 0.02% max at 2 MHz FS)
- No critical external components required
- Accurate 5V reference voltage
- Low drift (25 ppm/°C max)
- Dual- or single-supply operation
- Voltage or current input
- MIL-STD-883 compliant versions available

## 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