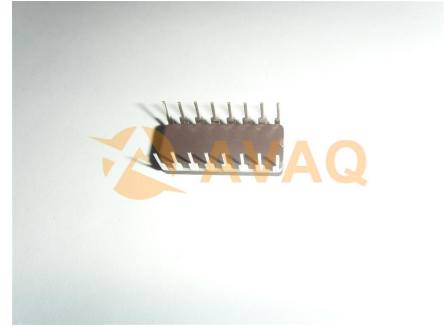


## VFC Sync 2MHz 16-Pin CDIP Tube

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



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

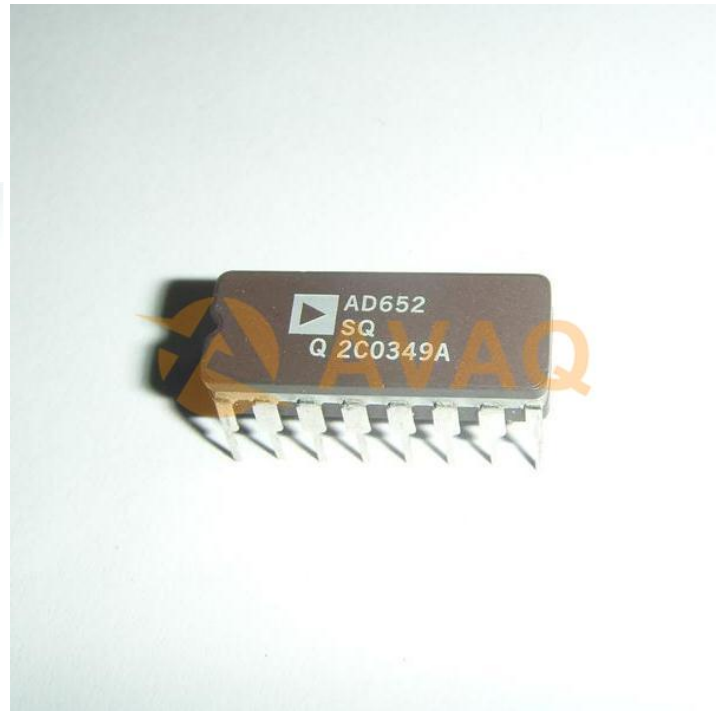
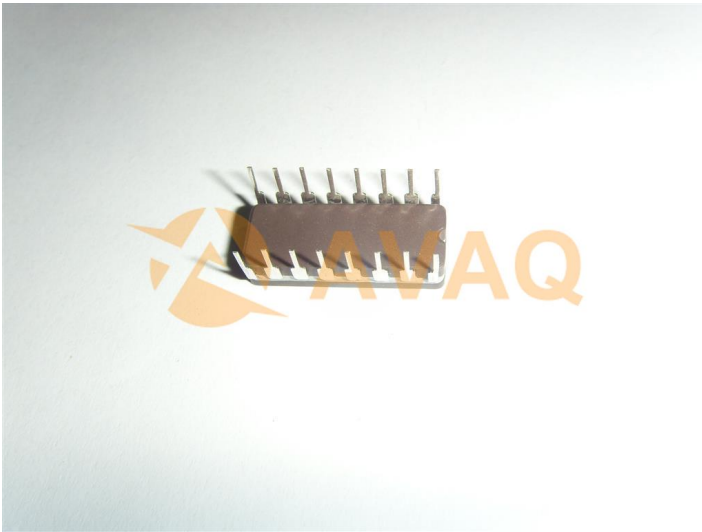
Accurate 5V reference voltage

Low drift (25 ppm/°C max)

Dual- or single-supply operation

Voltage or current input

MIL-STD-883 compliant versions available



## Recommended For You

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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