

VFC Sync 2MHz 16-Pin CDIP Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	DIP
Product Type:	Data Conversion ICs
Lifecycle:	NRND



Images are for reference only

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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 2MHz) set by external system clock

No critical external components required

Synchronous VFC requires only one external component for operation

Clock input is TTL and CMOS compatible

Accurate 5V reference voltage

50ppm/°C Maximum gain drift (100kHz)



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

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

AD9835BRUZ

Analog Devices, Inc
TSSOP16