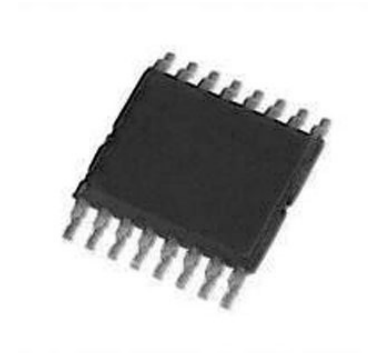


PLL Frequency Synthesis, 400 MHz, 2.7 V to 3.3 V supply, TSSOP-16

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Clock/Timing - Clock Generators, PLLs, Frequency Synthesizers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADF4002BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADF4002 frequency synthesizer is used to implement local oscillators in the up-conversion and down-conversion sections of wireless receivers and transmitters. It consists of a low-noise digital phase frequency detector (PFD), a precision charge pump, a programmable reference divider and programmable N divider. The 14-bit reference counter (R counter), allows selectable REFIN frequencies at the PFD input.

A complete phase-locked loop (PLL) can be implemented if the synthesizer is used with an external loop filter and voltage controlled oscillator (VCO). In addition, by programming R and N to 1, the device can be used as a standalone PFD and charge pump.

The ADF4002-EP supports defense and aerospace applications (AQEC standard).

Features

400 MHz bandwidth

2.7 to 3.3 V power supply

Separate charge pump supply (VP) allows extended tuning voltage in 3 V systems

Programmable charge pump currents

3-wire serial interface

Analog and digital lock detect

Hardware and software power-down mode

104 MHz phase detector

ADF4002-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range: -55°C to $+125^{\circ}\text{C}$

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/11607 DSCC Drawing Number

Related Products



[ADF4350BCPZ](#)

Analog Devices, Inc
LFCSP-32



[AD9516-4BCPZ](#)

Analog Devices, Inc
LFCSP64



[ADF4111BRUZ](#)

Analog Devices, Inc
TSSOP-16



[ADF4113BRUZ](#)

Analog Devices, Inc
TSSOP-16



[ADF4116BRUZ](#)

Analog Devices, Inc
TSSOP-16



[ADF4110BRUZ](#)

Analog Devices, Inc
TSSOP-16



[ADF4193BCPZ](#)

Analog Devices, Inc
LFCSP-32



[AD2S99BPZ](#)

Analog Devices, Inc
PLCC-20