ADF4252BCPZ

Dual Synth, 0.1-3GHZ, frac N,ADF4252BCPZ

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-24
Product Type	Clock/Timing - Application Specific
RoHS	Rohs
Lifecycle	
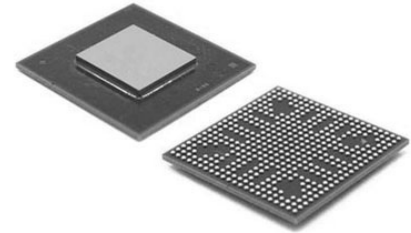
Images are for reference only

Please submit RFQ for ADF4252BCPZ or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The ADF4252 is a dual fractional-N/integer-N frequencysynthesizer that can be used to implement local oscillators (LO)in the upconversion and downconversion sections of wirelessreceivers and transmitters. Both the RF and IF synthesizersconsist of a low noise digital phase frequency detector (PFD), aprecision charge pump, and a programmable reference divider.The RF synthesizer has a Σ-Δ-based fractional interpolator thatallows programmable fractional-N division. The IF synthesizerhas programmable integer-N counters. A complete phase-lockedloop (PLL) can be implemented if the synthesizer is used withan external loop filter and voltage controlled oscillator (VCO).

Control of all the on-chip registers is via a simple 3-wire interface.The device operates with a power supply ranging from 2.7 V to3.3 V and can be powered down when not in use.

Applications
Base stations for mobile radio (GSM, PCS, DCS, CDMA, WCDMA)

Wireless handsets (GSM, PCS, DCS, CDMA, WCDMA)

Wireless LANs

Communications test equipment

CATV equipment

Features

3.0 GHz fractional-N/1.2 GHz integer-N

2.7 V to 3.3 V power supply

Separate VP allows extended tuning voltage to 5 V

Programmable dual modulus prescaler

RF: 4/5, 8/9

IF: 8/9, 16/17, 32/33, 64/65

Programmable charge pump currents

3-wire serial interface

Digital lock detect

Power-down mode

Programmable modulus on fractional-N synthesizer

Trade off noise vs. spurious performance

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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