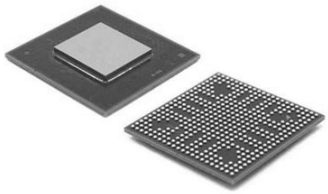
AD9513BCPZ

Clock Generator 0MHz to 1.6GHz-IN 800MHz-OUT 32-Pin LFCSP EP Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	LFCSP32
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The AD9513 features a three-output clock distribution IC in adesign that emphasizes low jitter and phase noise to maximizedata converter performance. Other applications withdemanding phase noise and jitter requirements also benefitfrom this part.

There are three independent clock outputs that can be set toeither LVDS or CMOS levels. These outputs operate to 800MHz in LVDS mode and to 250 MHz in CMOS mode.

Each output has a programmable divider that can be set todivide by a selected set of integers ranging from 1 to 32. Thephase of one clock output relative to the other clock output canbe set by means of a divider phase select function that serves asa coarse timing adjustment.

One of the outputs features a delay element with three selectablefull-scale delay values (1.5 ns, 5 ns, and 10 ns), each with 16steps of fine adjustment.

The AD9513 does not require an external controller foroperation or setup. The device is programmed by means of11 pins (S0 to S10) using 4-level logic. The programming pinsare internally biased to ⅓ VS. The VREF pin provides a level of⅔ VS. VS (3.3 V) and GND (0 V) provide the other two logic levels.

The AD9513 is ideally suited for data converter clockingapplications where maximum converter performance isachieved by encode signals with subpicosecond jitter.

The AD9513 is available in a 32-lead LFCSP and operates froma single 3.3 V supply. The temperature range is −40°C to +85°C.

Key Features

Phase select for coarse delay adjust

Device configured with 4-level logic pins

Time delays up to 11.6ns

Divide-by in range from 1 to 32

1.6GHz Differential clock input

3 Programmable dividers

Application

Low jitter, low phase noise clock distribution

Clocking high speed ADCs, DACs, DDSs, DDCs, DUCs, MxFEs

High performance wireless transceivers

High performance instrumentation

Broadband infrastructure

ATE

Recommended For You

AD9517-3ABCPZ

Analog Devices, Inc

QFN

AD9954YSV

Analog Devices, Inc

QFP

ADCLK914BCPZ-WP

Analog Devices, Inc

LFCSP-16

AD7008JP50

Analog Devices, Inc

PLCC44

AD9952YSV

Analog Devices, Inc

QFP

AD9516-3BCPZ

Analog Devices, Inc

QFN

ADCLK944BCPZ-R2

Analog Devices, Inc

LFCSP16

AD9577BCPZ

Analog Devices, Inc

LFCSP-40

AD9543BCPZ

Analog Devices, Inc

LFCSP-48

AD9853AS

Analog Devices, Inc

QFP

ADN2805ACPZ

Analog Devices, Inc

LFCSP

AD9515BCPZ-REEL7

Analog Devices, Inc

LFCSP-32

ADN2807ACPZ

Analog Devices, Inc

48-LFCSP

AD9520-4BCPZ

Analog Devices, Inc

LFCSP

AD9831AST

Analog Devices, Inc

QFP