
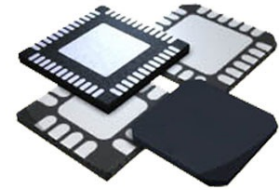


Clock Generator 0.1MHz to 220MHz-IN Automotive 40-Pin QFN EP T/R

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



Images are for reference only

[Inquiry](#)

General Description

The HMC701LP6CE is a SiGe BiCMOS fractional-N frequency synthesizer. The synthesizer includes a 8GHz 16-bit RF N-Divider, a 24-bit delta-sigma modulator, a very low noise digital phase frequency detector (PFD), and a precision controlled charge pump. In addition the synthesizer supports an external step tuned VCO.

The fractional synthesizer features an advanced delta-sigma modulator design that allows ultra-fine frequency step sizes. The synthesizer features the ability to alter both the phase-frequency detector (PFD) gain and the cycle slipping characteristics of the PFD. This feature can reduce the time to arrive at the new frequency by 50% vs. conventional PFDs. Ultra low in-close phase noise also allows wider loop bandwidths for faster frequency hopping.

The synthesizer contains a built-in linear sweeper function, which allows it to perform frequency chirps with a wide variety of sweep times, polarities and dwells, all with an external or automatic sweep trigger.

A General Purpose Output (GPO) bus supports the use of multiple VCOs. In addition the synthesizer has a number of auxiliary clock generation modes that can be accessed via the GPO.

Key Features

- 24-Bit Step Size Resolution, 3 Hz typ
- Ultra Low Phase Noise
- Auto & Triggered Sweeper Functions
- Cycle Slip Prevention (CSP) for Fast Settling
- Autotune Support for External Step Tuned VCOs
- Multi-VCO Support
- 40 Lead 6x6mm SMT Package: 36mm²

Application

- Base Stations for Mobile Radio(GSM, PCS, DCS, CDMA, WCDMA)
- Wireless LANs, WiMax
- Communications Test Equipment
- CATV Equipment
- FMCW Sensors
- Automotive Radar
- Phased-Array Systems

Recommended For You

HMC624ALP4E

Analog Devices, Inc
QFN24

HMC952ALP5GE

Analog Devices, Inc
QFN

HMC361S8GE

Analog Devices, Inc
SOP-8

HMC253AQS24E

Analog Devices, Inc
QFN

HMC346MS8G

Analog Devices, Inc
MSOP8

HMC1119LP4ME

Analog Devices, Inc
QFN

HMC659LC5

Analog Devices, Inc
QFN

HMC909LP4E

Analog Devices, Inc
QFN

HMC564LC4

Analog Devices, Inc
QFN

HMC1021LP4E

Analog Devices, Inc
QFN

HMC241AQS16E

Analog Devices, Inc
SSOP16

HMC424LP3E

Analog Devices, Inc
QFN

HMC662LP3E

Analog Devices, Inc
QFN

HMC8038LP4CE

Analog Devices, Inc
QFN16

HMC363S8G

Analog Devices, Inc
SOP8