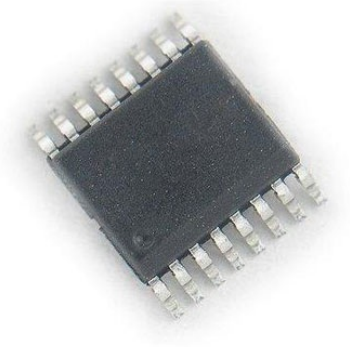
HMC440QS16G

Clock Generator 10MHz to 1.3GHz-IN 16-Pin QSOP T/R

Manufacturer:	Analog Devices, Inc
Package/Case:	SSOP16
Product Type:	Clock & Timer ICs
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The HMC440QS16G(E) is an integer-n synthesizer that incorporates a 10 to 1300 MHz digital Phase-Frequency Detector with 10 to 2800 MHz 5-Bit frequency counter (continuous division from 2 to 32) in miniature 16 lead QSOP plastic packages. It is intended for use in low phase noise offset-synthesizer app-lications.

The HMC440QS16G(E) combines high frequency operation along with ultra low phase noise floor making possible synthesizers with wide loop bandwidth and low N resulting in fast settling and very low phase noise. When used in conjunction with a differential loop amplifier, the HMC440QS16G(E) generates an output voltage that can be used to phase lock a VCO to a reference oscillator.

Key Features

Ultra Low SSB Phase Noise Floor:-153 dBc/Hz @ 10 kHz offset @ 100 MHz Reference Frequency.

Programmable Divider>

Open Collector Output Buffer Amplifiers for Interfacing w/ Op-Amp Based Loop Filter

QSOP16G SMT Package: 29.4 mm²

Counter is a key component in low phase nois

Application

Satellite Communication Systems

Point-to-Point Radios

Military Applications

Sonet Clock Generation

Test Equipment

Recommended For You

HMC624ALP4E	HMC952ALP5GE	HMC361S8GE
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
QFN24	QFN	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