

Clock Generator MHz to 350MHz-IN 10150MHz-OUT 40Pin QFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	40-QFN
Product Type	Clock Generators
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for HMC769LP6CE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HMC769LP6CE is a fully functioned Fractional-N Phase-Locked-Loop (PLL) Frequency Synthesizer with an integrated Voltage Controlled Oscillator (VCO). The input reference frequency range is DC to 350 MHz while the advanced delta-sigma modulator design in the fractional synthesizer allows both ultra-fine step sizes and very low spurious products. The highly integrated structure provides excellent phase noise performance over temperature, shock and process. In addition, the HMC769LP6CE offers frequency sweep and modulation features, external triggering, double-buffering, exact frequency control, phase modulation and more. The HMC769LP6CE is packaged in a leadless QFN 6 x 6 mm surface mount package.

For theory of operation and register map refer to the "PLLs w/ Integrated VCO - Microwave VCOs" Operating Guide.

Features

RF Bandwidth: 9.05 GHz to 10.15 GHz

Fractional or Integer Modes

Ultra Low Phase Noise 9.6 GHz; 50 MHz Ref. -106 / -102 dBc/Hz @ 10 kHz (Int / frac) -140 dBc/Hz @ 1 MHz (Open Loop)

Figure of Merit (FOM) -230 / -227 dBc/Hz (int / Frac).

24-bit Step Size, Resolution 3 Hz typ

350 MHz, 14-bit reference path input

Frequency And Phase Modulation

Integrated Frequency Sweeper

Triggered Frequency Hopping

External Triggering

40 Lead 6 x 6 mm SMT Package: 36 mm²

Application

VSAT Radio

Microwave Point-To-Point Radios

Test Equipment & Industrial Control

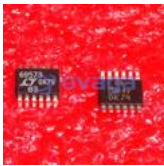
Military End-Use

Phased Array Applications

FMCW Radar Systems



Related Products



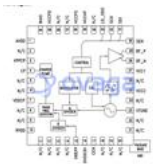
[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[HMC987LP5E](#)

Analog Devices, Inc
32-VFQFN



[HMC838LP6CE](#)

Analog Devices, Inc
QFN-40



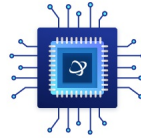
[HMC703LP4E](#)

Analog Devices, Inc
QFN-24



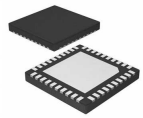
[HMC807LP6CETR](#)

Analog Devices, Inc
QFN40



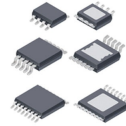
[HMC1031MS8E](#)

Analog Devices, Inc
8-MS8E



[HMC835LP6GE](#)

Analog Devices, Inc
QFN40



[LTC6957HMS-1#PBF](#)

Analog Devices, Inc
MSOP-12