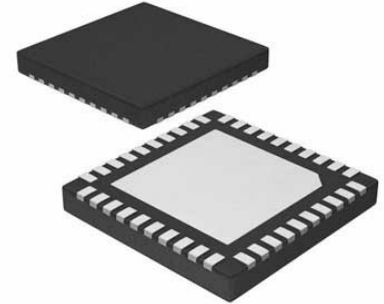


IC PLL W/VCO FRACT-N 40-QFN Clock Generator 0.1MHz to 225MHz-IN 40Pin QFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	QFN40
Product Type	Clock Generators
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for HMC765LP6CE or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HMC765LP6CE is a fully functional Fractional-N Phase-Locked-Loop (PLL) with an Integrated Voltage Controlled Oscillator (VCO). The input reference frequency range is 100 kHz to 220 MHz while the advanced delta-sigma modulator design in the fractional PLL 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. The HMC765LP6CE is packaged in a leadless QFN 6 x 6 mm surface mount package. The output power is 13 dBm typical, making the HMC765LP6CE ideal for driving the LO port of many of Hittite's Hi Linearity and I/Q mixer products.

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

Applications

VSAT Radio

Point-to-Point / Multi-Point Radio

Test Equipment & Industrial Control

Military End-Use

Phased Array Applications

Features

RF Bandwidth: 7.8 GHz to 8.8 GHz

Fractional or Integer Modes

Ultra Low Phase Noise 8.3 GHz; 50 MHz Ref. -97/-101 dBc/Hz @ 10 kHz (Frac/Int) -140 dBc/Hz @ 1 MHz (Open Loop)

24-Bit Step Size, 3 Hz Resolution Typ.

Reference Path Input: 225 MHz

FSK Modulation & Cycle Slip Prevention Modes

40 Lead 6x6mm SMT Package: 36mm²

Application

VSAT Radio

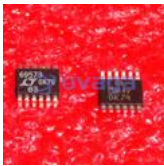
Point-to-Point / Multi-Point Radio

Test Equipment & Industrial Control

Military End-Use

Phased Array Applications

Related Products



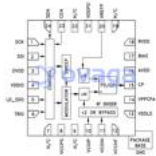
[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[HMC987LP5E](#)

Analog Devices, Inc
32-VFQFN



[HMC703LP4E](#)

Analog Devices, Inc
QFN-24



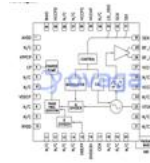
[HMC1031MS8E](#)

Analog Devices, Inc
8-MS8E



[HMC769LP6CE](#)

Analog Devices, Inc
40-QFN



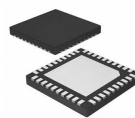
[HMC838LP6CE](#)

Analog Devices, Inc
QFN-40



[HMC807LP6CETR](#)

Analog Devices, Inc
QFN40



[HMC835LP6GE](#)

Analog Devices, Inc
QFN40