


## RF Amp Single MMIC Amp 28GHz 8.5V 8-Pin Bare Die Tray

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	N
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The HMC840LP6CE is a fully functional Fractional-N Phase-Locked-Loop (PLL) Frequency Synthesizer with an Integrated Voltage Controlled Oscillator (VCO). The synthesizer consists of an integrated low noise VCO with a triband output, an autocalibration subsystem for low voltage VCO tuning, a very low noise digital Phase Detector (PD), a precision controlled charge pump, a low noise reference path divider and a fractional divider.

The fractional synthesizer features an advanced delta-sigma modulator design that allows both ultra-fine step sizes and low spurious products. The phase detector (PD) features cycle slip prevention (CSP) technology to allow faster frequency hopping times. Ultra low in-close phase noise and low spurious also allows wider loop bandwidths for faster frequency hopping and low micro-phonics.

For theory of operation and register map refer to the "PLLs with Integrated VCO - RF VCOs" Operating Guide.

### Key Features

Ultra Low Phase Noise -112 dBc/Hz in Band Typ.

Figure of Merit (FOM) -230 dBc Integer

24-Bit Step Size, 3 Hz Resolution Typ.

Exact Frequency Mode

Built in Digital Self Test

40 Lead 6x6mm SMT Package: 36mm<sup>2</sup>

### Application

Cellular/4G Infrastructure

Repeaters & Femtocells

Communications Test Equipment

CATV Equipment

Phased Array Applications

DDS Replacement

Very High Data Rate Radios

### 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