
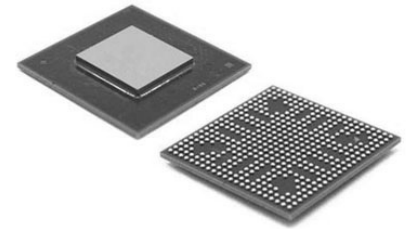


## RF Amp Single LNA 11GHz 6V 6-Pin LFCSP EP Cut Tape

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	LFCSP-6
<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 HMC8412 is a gallium arsenide (GaAs), monolithic microwave integrated circuit (MMIC), pseudomorphic high electron mobility transistor (pHEMT), low noise wideband amplifier that operates from 0.4 GHz to 11 GHz.

The HMC8412 provides a typical gain of 15.5 dB, a 1.4 dB typical noise figure, and a typical output third-order intercept (OIP3) of  $\leq 33$  dBm, requiring only 60 mA from a 5 V drain supply voltage. The saturated output power (PSAT) of  $\leq 20.5$  dBm typical enables the low noise amplifier (LNA) to function as a local oscillator (LO) driver for many Analog Devices, Inc., balanced, inphase and quadrature (I/Q) or image rejection mixers.

The HMC8412 also features inputs and outputs that are internally matched to 50  $\Omega$ , making the device ideal for surface-mount technology (SMT)-based, high capacity microwave radio applications.

The HMC8412 is housed in an RoHS-compliant, 2 mm  $\times$  2 mm, 6-lead LFCSP.

### APPLICATIONS

## Key Features

Low noise figure: 1.4 dB typical

Single positive supply (self biased)

High gain:  $\leq 15.5$  dB typical

High OIP3:  $\leq 33$  dBm typical

RoHS-compliant, 2 mm  $\times$  2 mm, 6-lead LFCSP

Download the HMC8412TCPZ-EP data sheet (pdf)

Military temperature range ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ )

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Product change notification

Qualification data available on request

V62/21602 DSCC Drawing Number

## Application

Test instrumentation

Telecommunications

Military radar and communication Electronic warfare

Aerospace

## Recommended For You

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### 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