

HMC960LP4E

Data Sheet

RF Amplifier IC, 40 dB Gain / 6 dB Noise, DC to 100 MHz, 4.5 V to 5.5 V, HQFN-24

Manufacturers Package/Case	<u>Analog Devices, Inc</u> QFN-24	E
Product Type RoHS	RF Amplifiers Pb-free Halide free	and and a state of the state of
Lifecycle		Images are for reference only

Please submit RFQ for HMC960LP4E or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The HMC960LP4E is a digitally programmable dual channel variable gain amplifier. It supports discrete gain steps from 0 to 40 dB in precise 0.5 dB steps. It features a glitch free architecture to provide exceptionally smooth gain transitions. The device has matched gain paths which provide excellent quadrature balance over a wide signal bandwidth.

The HMC960LP4E provides an SPI programmable input impedance of 100Ω differential or 400Ω differential (default).

Externally controlled common mode output feature enables the HMC960LP4E to provide a flexible output interface to other parts in the signal path. Gain can be controlled via either a parallel interface (GC[6:0]) or via the read/write serial port (SPI).

Housed in a compact 4x4mm (LP4) SMT QFN package, the HMC960LP4E requires minimal external components and provides a low cost alternative to more complicated switched amplifier architectures.

Features

Low Noise: 6 dB NF

High Linearity: Output IP3 +30 dBm

Variable Gain: 0 to 40 dB

High Bandwidth: DC to 100 MHz

- Precise Gain Accuracy:0.5 dB Gain Step
- Excellent Magnitude & Phase Response

Externally Controlled Common Mode Output Level

Parallel or Serial Gain Control

Read/Write Serial Port Interface (SPI)

24 Lead 4x4 mm SMT Package 16 mm²

Programmable Input Impedance (400Ω Differential or 100Ω Differential)

Related Products



HMC3653LP3BE Analog Devices, Inc



HMC253AQS24

QFN-12

Analog Devices, Inc 24-SSOP (0.154, 3.90mm Width)



HMC358MS8GE Analog Devices, Inc

MSOP-8



HMC453ST89E Analog Devices, Inc ST89E

Application

Baseband I/Q Transceivers

Direct Conversion & Low IF Transceivers

Diversity Receivers

ADC Drivers

Adaptive Gain Control



HMC441LP3E

Analog Devices, Inc QFN-16

Analog Devices, Inc LP3

HMC948LP3E

HMC490

Analog Devices, Inc SMD

HMC618ALP3E

Analog Devices, Inc QFN-16

