
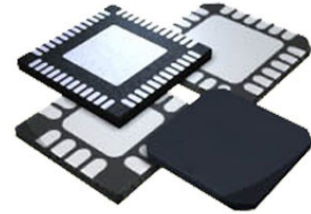


RF Amp Single LNA 18GHz 7V 32-Pin CLLCC EP Cut Tape

Manufacturer:	Analog Devices, Inc
Package/Case:	QFN
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The HMC606LC5 is a gallium arsenide (GaAs), indium galliumphosphide (InGaP), heterojunction bipolar transistor (HBT), monolithic microwave integrated circuit (MMIC) distributed amplifier housed in a 32-terminal, ceramic, leadless chip carrier (LCC) package that operates from 2 GHz to 18 GHz. With an input signal of 12 GHz, the amplifier provides ultralow phase noise performance of -160 dBc/Hz at a 10 kHz offset, representing a significant improvement over field effect transistor (FET)-based distributed amplifiers.

The HMC606LC5 provides 13.5 dB of small signal gain, 27 dBm output IP3, and 15 dBm of output power for 1 dB compression while requiring 64 mA from a 5.0 V supply. The input and output of the HMC606LC5 amplifier are internally matched to 50 Ω and are internally dc blocked.

Key Features

- Ultralow phase noise: -160 dBc/Hz typical at 10 kHz
- Output power for 1 dB compression (P1dB): 15 dBm typical at 2 GHz to 12 GHz frequency range
- Gain: 13.5 dB typical at 2 GHz to 12 GHz frequency range
- Output third-order intercept (IP3): 27 dBm typical at 2 GHz to 12 GHz frequency range
- Supply voltage: 5.0 V at 64 mA typical
- 50 Ω matched input/output
- 32-terminal, ceramic, leadless chip carrier (LCC)

Application

- Radars, electronic warfare (EW), and electronic countermeasures (ECMs)
- Microwave radios
- Test instrumentation
- Military and space
- Fiber optic systems

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