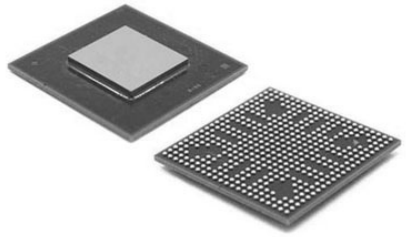
ADL8107ACPZN

Data Sheet

GaAs, pHEMT, MMIC, Low Noise Amplifier, 6 GHz to 18 GHz

Manufacturers	Analog Devices, Inc
Package/Case	8-lead LFCSP 2 mm × 2 mm × 0.85
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADL8107ACPZN or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADL8107 is a gallium arsenide (GaAs), monolithic microwave IC (MMIC), pseudomorphic high electron mobility transistor (pHEMT), low noise, wideband, high linearity amplifier that operates from 6 GHz to 18 GHz.

The ADL8107 provides a typical gain of 24 dB at 7 GHz to 16 GHz, a 1.3 dB typical noise figure at 7 GHz to 16 GHz, a 18.5 dBm typical output power for 1 dB compression (OP1dB) at 7 GHz to 16 GHz, and a typical output third-order intercept (OIP3) of 29 dBm at 7 GHz to 16 GHz, requiring only 90 mA from a 5 V drain supply voltage. This low noise amplifier has a high output second-order intercept (OIP2) of 30.5 dBm typical at 7 GHz to 16 GHz, making the ADL8107 suitable for military and test instrumentation applications.

The ADL8107 also features inputs and outputs that are internally matched to 50 Ω. The RFIN and RFOUT pins are internally ac-coupled, and the bias inductor is also integrated, making the ADL8107 ideal for surface-mounted technology (SMT)-based, high density applications.

The ADL8107 is housed in a RoHS-compliant, 2 mm × 2 mm, 8-lead LFCSP.

APPLICATIONS

Features

Single positive supply (self biased)

Gain: 24 dB typical at 7 GHz to 16 GHz

OIP3: 29 dBm typical at 7 GHz to 16 GHz

Noise figure: 1.3 dB typical at 7 GHz to 16 GHz

8-lead, 2 mm × 2 mm, LFCSP (see the Outline Dimensions section in the data sheet)

Related Products

[AD8418BRMZ-RL](#)

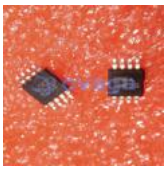
Analog Devices, Inc

MSOP-8

[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc

MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc

MSOP-8

[AD8062ARMZ](#)

Analog Devices, Inc

MSOP8

[AD8567ARUZ](#)

Analog Devices, Inc

TSSOP-14

[AD8628AUJZ](#)

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[AD8022ARMZ](#)

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[AD8041AR](#)

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