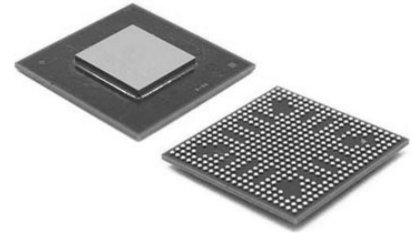


Wideband, Low Noise Amplifier, Single Positive Supply, 0.01 GHz to 26.5 GHz

Manufacturers	Analog Devices, Inc
Package/Case	24-Lead LFCSP (4mm x 4mm w/ EP)
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADL9005ACPZN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADL9005 is a gallium arsenide (GaAs), monolithic microwave integrated circuit (MMIC), pseudomorphic high electron mobility transistor (pHEMT), wideband, LNA that operates from 0.01 to 26.5 GHz. The ADL9005 provides a typical gain of 17.5 dB from 0.01 GHz to 14 GHz with a positive gain slope from 14 GHz to 20 GHz, a 13.5 dBm typical output power at 1 dB compression (OP1dB) from 0.01 GHz to 20 GHz, a 2.5 dB typical noise figure from 0.01 GHz to 14 GHz, and a typical output third-order intercept (OIP3) of 26 dBm from 0.01 GHz to 14 GHz, requiring only 80 mA from a 5 V supply voltage. The saturated output power (PSAT) of up to 16 dBm enables the LNA to function as a local oscillator (LO) driver for many of Analog Devices, Inc., balanced, inphase/quadrature (I/Q) or image rejection mixers. The ADL9005 also features inputs and outputs (I/Os) that are internally matched to 50 Ω , making it ideal for surface-mounted technology (SMT)-based, high capacity microwave radio applications.

The ADL9005 is housed in a RoHS-compliant, 4 mm \times 4 mm, LFCSP.

Multifunction pin names may be referenced by their relevant function only.

APPLICATIONS

Features

Single positive supply

Low noise figure: 2.5 dB typical from 0.01 GHz to 14 GHz

High gain: 17.5 dB typical from 0.01 GHz to 14 GHz

OP1dB: 13.5 dBm typical from 0.01 GHz to 20 GHz

High OIP3: 26 dBm typical from 0.01 GHz to 14 GHz

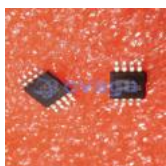
RoHS-compliant, 4 mm × 4 mm, 24-lead LFCSP

Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8628AUJZ](#)

Analog Devices, Inc
SOP-23



[AD8041AR](#)

Analog Devices, Inc
SOP-8