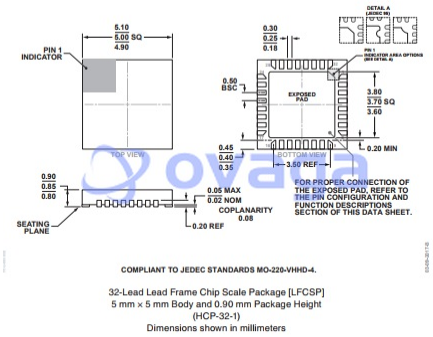
HMC463LP5E

Data Sheet

GaAs pHEMT MMIC LOW NOISE AGC AMPLIFIER, 2

Manufacturers	Analog Devices, Inc
Package/Case	QFN-32
Product Type	RF Amplifiers
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC463LP5E or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HMC463LP5(E) is a GaAs MMIC pHEMT Low Noise AGC Distributed Amplifier packaged in a leadless 5x5 mm surface mount package which operates between 2 and 20 GHz. The amplifier provides 13 dB of gain, 2.8 dB noise figure and 18 dBm of output power at 1 dB gain compression while requiring only 60mA from a +5V supply. An optional gate bias (Vgg2) is provided to allow Adjustable Gain Control (AGC) of 8 dB typical. Gain flatness is excellent at 0.5 dB from 6 - 18 GHz making the HMC463LP5(E) ideal for EW, ECM RADAR and test equipment applications. The HMC463LP5(E) LNA I/Os are internally matched to 50 Ohms and are internally DC blocked.

Features

Gain: 13 dB

Noise Figure: 2.8 dB @ 10 GHz

P1dB Output Power: +18 dBm @ 10 GHz

Supply Voltage: +5V @ 60mA

50 Ohm Matched Input/Output

32 Lead 5x5mm SMT Package: 25mm²

Application

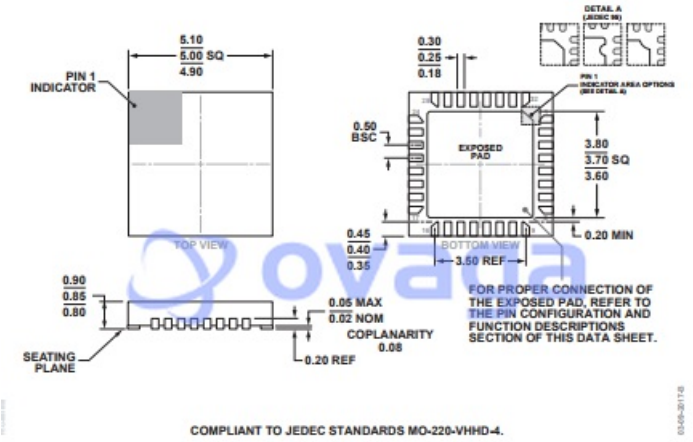
Telecom Infrastructure

Microwave Radio & VSAT

Military EW, ECM & C³I

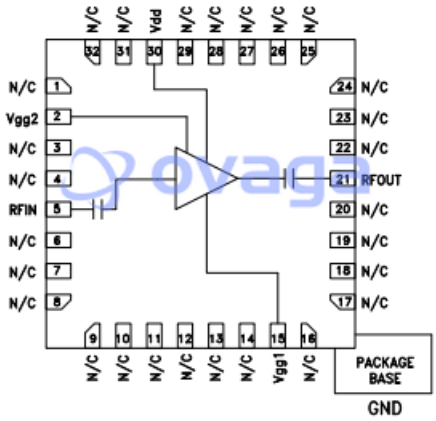
Test Instrumentation

Fiber Optics



32-Lead Lead Frame Chip Scale Package [LFCSP]
5 mm x 5 mm Body and 0.90 mm Package Height
(HCP-32-1)
Dimensions shown in millimeters

Functional Diagram



Related Products

[HMC3653LP3BE]

Analog Devices, Inc

QFN-12

[HMC441LP3E]

Analog Devices, Inc

QFN-16

[HMC253AQS24]

Analog Devices, Inc

24-SSOP (0.154, 3.90mm Width)

[HMC948LP3E]

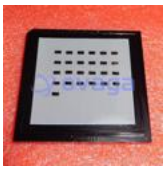
Analog Devices, Inc

LP3

[HMC358MS8GE]

Analog Devices, Inc

MSOP-8



[HMC490]

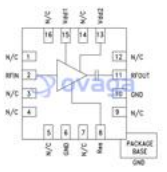
Analog Devices, Inc

SMD

[HMC453ST89E]

Analog Devices, Inc

ST89E



[HMC618ALP3E]

Analog Devices, Inc

QFN-16