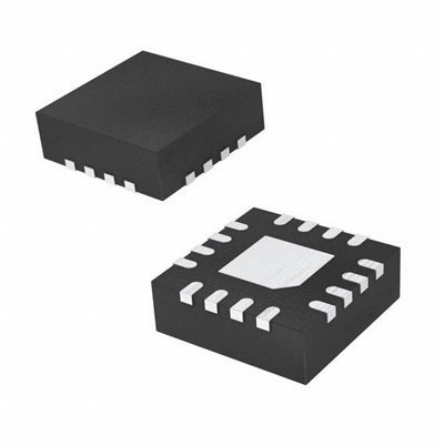
HMC903LP3ETR

Data Sheet

RF Amp Chip Single GP 17GHz 4.5V 16-Pin QFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	16-VFQFN Exposed Pad
Product Type	RF Amplifiers
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC903LP3ETR or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HMC903LP3E is a self biased, gallium arsenide (GaAs), monolithic microwave integrated circuit (MMIC), pseudomorphic (pHEMT), low noise amplifier (LNA) with an option bias control for IDQ reduction. It is housed in a 16-lead, 3 mm × 3 mm, LFCSP package. The HMC903LP3E amplifier operates from 6 GHz to 17 GHz, providing 18.5 dB of small signal gain and 1.7 dB noise figure in the 6 GHz to 16 GHz band, and an output IP3 of 25 dBm full band 6 GHz to 17 GHz, while requiring only 80 mA from a 3.5 V supply.

The P1dB output power of 14.5 dBm enables the LNA to function as a local oscillator (LO) driver for balanced, I/Q or image reject mixers. The HMC903LP3E also features an input and an output that are dc blocked and internally matched to 50 Ω, making it ideal for high capacity microwave radios and video satellite (VSAT) applications.

Features

Low noise figure: 1.7 dB typical at 6 GHz to 16 GHz

High gain: 18.5 dB typical at 6 GHz to 16 GHz

Output power for 1 dB compression (P1dB): 14.5 dBm typical at 6 GHz to 16 GHz

Single-supply voltage: 3.5 V at 80 mA typical

Output third-order intercept (IP3): 25 dBm typical

50 Ω matched input/output

Self biased with optional bias control for IDQ reduction

16-lead, 3 mm × 3 mm, LFCSP package

Application

Point to point radios

Point to multipoint radios

Military and space

Test instrumentation

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](#)

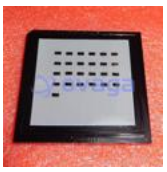
Analog Devices, Inc

LP3

[HMC358MS8GE](#)

Analog Devices, Inc

MSOP-8



[HMC490](#)

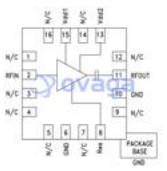
Analog Devices, Inc

SMD

[HMC453ST89E](#)

Analog Devices, Inc

ST89E



[HMC618ALP3E](#)

Analog Devices, Inc

QFN-16