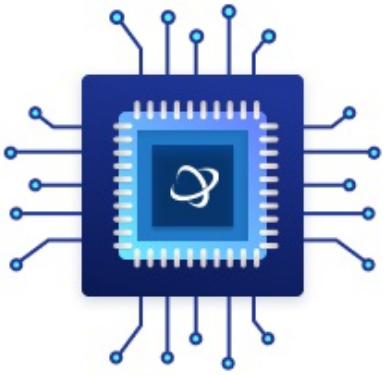
HMC1093

Data Sheet

Up/Down Conv Mixer 46.5GHz 6Pin Die Tray

Manufacturers	Analog Devices, Inc
Package/Case	Chip
Product Type	RF Integrated Circuits
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for HMC1093 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HMC1093 chip is a sub-harmonically pumped (x4) MMIC mixer with an integrated LO amplifier. The HMC1093 chip is ideal for use as a downconverter with 37 to 46.5 GHz at the RF port and DC to 7.5 GHz at the IF port. The HMC1093 utilizes a GaAs PHEMT technology and delivers excellent 4LO to RF isolation of 20 dB, which eliminates the need for additional filtering. The LO amplifier is a single bias (+3V) twostage design requiring only -1 dBm of LO power. The RF and LO ports are DC blocked and matched to 50 Ohms for ease of use. All data shown herein is measured with the chip in a 50 Ohm test fixture connected via 0.025mm (1 mil) wire bonds of minimal length <0.31 mm (<12 mils).

Features

Sub-Harmonically Pumped (x4) LO

Low LO Power: -1 dBm

High 4LO/RF Isolation: 20 dB

Wide IF Bandwidth: DC to 7.5 GHz

Downconversion Applications

Die Size: 1.45 X 3.85 X 0.1 mm

Application

38 GHz Microwave Radio

42 GHz Microwave Radio

Military End-Use

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]

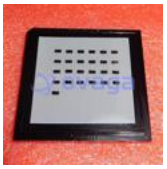
Analog Devices, Inc

LP3

[HMC358MS8GE]

Analog Devices, Inc

MSOP-8



[HMC490]

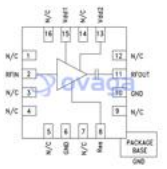
Analog Devices, Inc

SMD

[HMC453ST89E]

Analog Devices, Inc

ST89E



[HMC618ALP3E]

Analog Devices, Inc

QFN-16