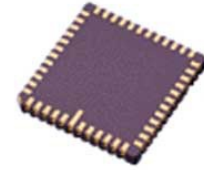


Up/Down Conv Mixer 32GHz 12-Pin CQFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	LCC-12
Product Type	RF Integrated Circuits
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC524ALC3B or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HMC524ALC3B is a compact gallium arsenide (GaAs), monolithic microwave integrated circuit (MMIC), in phase quadrature (I/Q) mixer in a leadless RoHS compliant surface-mount (SMT) ceramic package. This device can be used as either an image reject mixer or a single-sideband upconverter. The mixer uses two standard, double balanced mixer cells and a 90° hybrid coupler fabricated in a GaAs, metal-semiconductor field effect transistor (MESFET) process. A low frequency quadrature hybrid produces a 100 MHz IF output.

This device is a much smaller alternative to hybrid style image reject mixers and single-sideband upconverter assemblies. The HMC524ALC3B eliminates the need for wire bonding, allowing use of surface-mount manufacturing techniques.

Features

Passive: no dc bias required

Conversion loss: 9 dB (typical)

Image rejection: 20 dB (typical)

LO to RF isolation: 35 dB (typical)

LO to IF isolation: 25 dB (typical)

IP3: 18 dBm (typical)

P1dB: 17 dBm (typical)

IF pin frequency: dc – 4.5 GHz

12-lead, 3 mm × 3 mm SMT ceramic package

Application

Point to point radios

Point to multipoint radios and VSAT

Test equipment and sensors

Military end use

Related Products



[HMC3653LP3BE](#)

Analog Devices, Inc
QFN-12



[HMC253AQS24](#)

Analog Devices, Inc
24-SSOP (0.154, 3.90mm Width)



[HMC358MS8GE](#)

Analog Devices, Inc
MSOP-8



[HMC453ST89E](#)

Analog Devices, Inc
ST89E



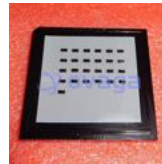
[HMC441LP3E](#)

Analog Devices, Inc
QFN-16



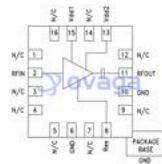
[HMC948LP3E](#)

Analog Devices, Inc
LP3



[HMC490](#)

Analog Devices, Inc
SMD



[HMC618ALP3E](#)

Analog Devices, Inc
QFN-16