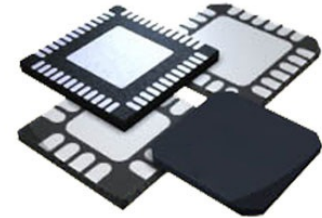


Up/Down Conv Mixer 18GHz 12-Pin CLLCC EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: QFN

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The HMC1048ALC3B is a general-purpose, monolithic microwave integrated circuit (MMIC), double balanced mixer that can be used as a downconverter with dc to 4 GHz at the intermediate frequency (IF) port and 2.25 GHz to 18 GHz at the radio frequency (RF) port. The mixer requires no external components or matching circuitry.

The HMC1048ALC3B provides excellent local oscillator (LO) to RF, LO to IF, and RF to IF isolation. The mixer operates with LO drive levels from 9 dBm to 17 dBm. The HMC1048ALC3B eliminates the need for wire bonding and allows the use of surface-mount manufacturing techniques.

Key Features

Passive: no dc bias required

High input IP3: 20 dBm typical

LO to RF isolation: 25 dB typical

LO to IF isolation: 20 dB typical

RF to IF isolation: 15 dB typical

IF frequency range: dc to 4 GHz

Downconverter applications

3 mm × 3 mm, 12-terminal ceramic leadless chip carrier package

Application

Ka band transponders

Point to multipoint radios and very small aperture terminal (VSAT)

Test equipment and sensors

Military end use

Recommended For You

HMC624ALP4E

Analog Devices, Inc

QFN24

HMC952ALP5GE

Analog Devices, Inc

QFN

HMC361S8GE

Analog Devices, Inc

SOP-8

HMC253AQS24E

Analog Devices, Inc

QFN

HMC346MS8G

Analog Devices, Inc

MSOP8

HMC1119LP4ME

Analog Devices, Inc

QFN

HMC659LC5

Analog Devices, Inc

QFN

HMC909LP4E

Analog Devices, Inc

QFN

HMC564LC4

Analog Devices, Inc

QFN

HMC1021LP4E

Analog Devices, Inc

QFN

HMC241AQS16E

Analog Devices, Inc

SSOP16

HMC424LP3E

Analog Devices, Inc

QFN

HMC662LP3E

Analog Devices, Inc

QFN

HMC8038LP4CE

Analog Devices, Inc

QFN16

HMC363S8G

Analog Devices, Inc

SOP8