
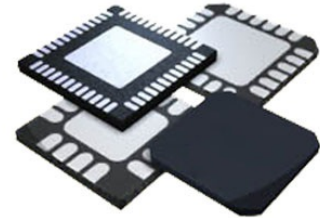


Up/Down Conv Mixer 14GHz 12-Pin CLLCC EP Cut Tape

Manufacturer:	Analog Devices, Inc
Package/Case:	QFN
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The HMC553ALC3B is a general-purpose, double-balanced, gallium arsenide (GaAs), monolithic microwave integrated circuit (MMIC) mixer housed in a leadless Pb-free, RoHS compliant LCC package. The HMC553ALC3B can be used as an upconverter or downconverter between 6 GHz and 14 GHz. This mixer requires no external components or matching circuitry.

The HMC553ALC3B provides local oscillator (LO) to radiofrequency (RF) and LO to intermediate frequency (IF) suppression due to optimized balun structures. The mixer operates with LO drive levels from 9 dBm to 15 dBm. The HMC553ALC3B eliminates the need for wire bonding, allowing use of surface mount manufacturing techniques.

Key Features

Passive: no dc bias required

Conversion loss: 7 dB typical at 6 GHz to 11 GHz

Input IP3: 18 dBm typical at 6 GHz to 11 GHz

LO to RF isolation: 36 dB typical

Wide IF bandwidth: dc to 5 GHz

RoHS compliant, 12-terminal, 2.90 mm × 2.90 mm LCC package

Application

Microwave and very small aperture terminal (VSAT) radios

Test equipment

Point to point radios

Military electronic warfare (EW); electronic countermeasure (ECM); and command, control, communications and intelligence (C3I)

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