

Up/Down Conv Mixer 40GHz 6-Pin LGA EP T/R

Manufacturer: [Analog Devices, Inc](#)

Package/Case: SMD

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The HMC560ALM3 chip is a general-purpose, double balanced mixer that can be used as an upconverter or downconverter from 22 GHz to 38 GHz in a small chip area. This mixer requires no external component or matching circuitry.

The HMC560ALM3 provides excellent local oscillator (LO) to radio frequency (RF) and LO to intermediate frequency (IF) suppression due to optimized balun structures. The mixer operates with LO drive levels above 9 dBm.

Key Features

Conversion loss

10 dB typical for 22 GHz to 29 GHz

11 dB typical for 29 GHz to 38 GHz

LO to RF isolation

34 dB typical for 22 GHz to 29 GHz

38 dB typical for 29 GHz to 38 GHz

LO to IF isolation

29 dB typical for 22 GHz to 29 GHz

31 dB typical for 29 GHz to 38 GHz

RF to IF isolation

24 dB typical for 22 GHz to 29 GHz

39 dB typical for 29 GHz to 38 GHz

Input IP3

20 dBm typical for 22 GHz to 29 GHz

19.5 dBm typical for 29 GHz to 38 GHz

IF bandwidth: dc to 18 GHz

Passive, no dc bias required

Application

Point to point radios

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

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