
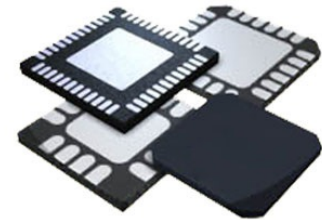


Up/Down Conv Mixer 16GHz 32-Pin QFN EP T/R

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 HMC1113LP5E is a compact GaAs MMIC I/Q downconverter in a leadless 5 x 5 mm low stress injection molded plastic surface mount package. This device provides a small signal conversion gain of 12 dB with a noise figure of 1.8 dB and 25 dBc of image rejection. The HMC1113LP5E utilizes an LNA followed by an image reject mixer which is driven by an LO buffer amplifier. The image reject mixer eliminates the need for a filter following the LNA, and removes thermal noise at the image frequency. I/Q mixer outputs are provided and an external 90° hybrid is needed to select the required sideband. The HMC1113LP5E is a much smaller alternative to hybrid style image reject mixer downconverter assemblies, and it eliminates the need for wire bonding by allowing the use of surface mount manufacturing techniques.

Key Features

Conversion gain: 12 dB
 Image rejection: 25 dBc
 LO to RF isolation: 45 dB
 Noise figure: 1.8 dB
 IP3: 1 dBm
 32 lead 5 x 5 mm SMT package

Application

Point-to-Point & Point-to-Multi-Point Radio
 Military Radar, EW & ELINT
 Satellite Communications
 Maritime & Mobile Radios

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