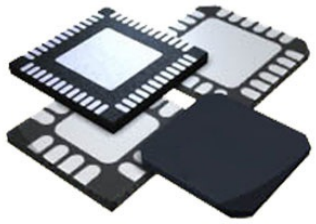
HMC558ALC3B

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 HMC558A is a general-purpose, double-balanced mixer in a leadless RoHS compliant SMT package that can be used as anupconverter or downconverter between 5.5 GHz and 14 GHz. This mixer is fabricated in a gallium arsenide (GaAs) metal semi-conductor field effect transistor (MESFET) process, and requires no external components or matching circuitry.

The HMC558A provides excellent LO to RF and LO to IF isolationdue to optimized balun structures, and operates with LO drivelevels as low as 9 dBm. The RoHS compliant HMC558A eliminates the need for wire bonding, and is compatible with high volume surface-mount manufacturing techniques.

Key Features

Conversion loss: 7.5 dB typical at 5.5 GHz to 10 GHz

Local oscillator (LO) to radio frequency (RF) isolation: 45 dB typical at 5.5 GHz to 10 GHz

LO to intermediate frequency (IF) isolation: 45 dB typical at 10 GHz to 14 GHz

Input third-order intercept (IIP3): 21 dBm typical at 10 GHz to 14 GHz

Input P1dB: 11.5 dBm typical at 10 GHz to 14 GHz

Input second-order intercept (IIP2): 55 dBm typical at 10 GHz to 14 GHz

Passive double-balanced topology

Wide IF bandwidth: dc to 6 GHz

12-lead ceramic leadless chip carrier package

Application

Point to point microwave radios

Point to multipoint radios

Military end use

Instrumentation, automatic test equipment (ATE) and sensors

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