


Up/Down Conv Mixer 86GHz Automotive 4-Pin Die Tray

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



Images are for reference only

[Inquiry](#)

General Description

The HMC1057 is a sub-harmonically pumped MMIC Mixer which can be used as either an Image reject mixer (IRM) or a single sideband upconverter. This passive MMIC mixer is fabricated with GaAs Shottky diode technology. For downconversion applications, an external quadrature hybrid can be used to select the desired sideband while rejecting image signals. All bond pads and the die backside are Ti/Au metallized and the Shottky devices are fully passivated for reliable operation. All data shown herein is measured with the chip in a 50 Ohm environment and contacted with RF probes.

Key Features

- Passive: No DC Bias Required
- High Input IP3: 13 dBm
- High LO/RF Isolation: 30 dB
- High 2LO/RF Isolation: 50 dB
- Wide IF Bandwidth:DC - 12 GHz
- Upconversion & Downconversion Applications
- Die Size: 1.74 x 1.73 x 0.1 mm

Application

- Short Haul / High Capacity Radios
- Test Equipment & Sensors
- Military End-Use
- E-Band Communications Systems
- Automotive Radar

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