


Up/Down Conv Mixer 33GHz 4-Pin Die Tray

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



Images are for reference only

[Inquiry](#)

General Description

The HMC-MDB172 is a monolithic I/Q Mixer which can be used as either an image reject mixer (IRM) or a single sideband upconverter. This passive MMIC is fabricated with GaAs Heterojunction Bipolar Transistor (HBT) 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. The HMC-MDB172 I/Q MMIC Mixer is compatible with conventional die attach methods, as well as thermocompression and thermosonic wire bonding, making it ideal for MCM and hybrid microcircuit applications. All data shown herein is measured with the chip in a 50 Ohm environment and contacted with RF probes.

Key Features

Wide IF Bandwidth: DC - 5 GHz

High Image Rejection: 35 dB

High LO to RF Isolation: 28 dB

Passive: No DC Bias Required

Die Size: 2.2 x 2.0 x 0.1 mm

Application

Point-to-Point Radios

VSAT

Military Radar, ECM & EW

Test & Measurement Equipment

SATCOM

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