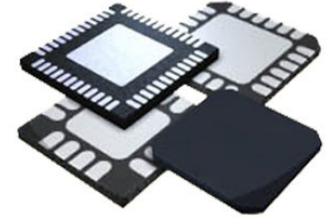


## Up/Down Conv Mixer 10GHz 12-Pin CLLCC EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** QFN

**Product Type:** RF Integrated Circuits

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The HMC787A is a general-purpose, double balanced mixer in a 12-terminal, RoHS compliant, ceramic leadless chip carrier (LCC) package that can be used as an upconverter or down-converter from 3 GHz to 10 GHz. This mixer is fabricated in a gallium arsenide (GaAs), metal semiconductor field effect transistor (MESFET) process and requires no external components or matching circuitry. The HMC787A provides excellent local oscillator (LO) to radio frequency (RF) and LO to intermediate frequency (IF) isolation due to optimized balun structures and operates with a LO drive level of 17 dBm. The ceramic LCC package eliminates the need for wire bonding and is compatible with high volume, surface-mount manufacturing techniques.

### Key Features

Conversion loss: 9 dB typical at 3 GHz to 9 GHz

Local oscillator (LO) to radio frequency (IF) isolation: 43 dB typical at 3 GHz to 9 GHz

RF to intermediate frequency (IF) isolation: 26 dB typical at 3 GHz to 9 GHz

Input third-order intercept (IP3): 24 dBm typical at 3 GHz to 9 GHz

Input 1 dB compression point (P1dB): 17 dBm typical at 3 GHz to 9 GHz

Input second-order intercept (IP2): 67 dBm typical at 3 GHz to 9 GHz

Passive double-balanced topology

Wide IF frequency range: dc to 4 GHz

12-terminal, ceramic, leadless chip carrier (LCC) package

### Application

Microwave Radio

Industrial, scientific, and medical (ISM) band and ultrawide band (UWB) radio

Test equipment & 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