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HMC967 HMC967



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I/Q Downconverter SMT, 21 - 24 GHz

Recommended for New Designs

Overview

Evaluation Kits

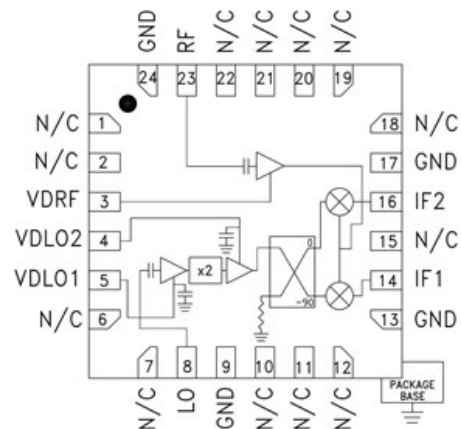
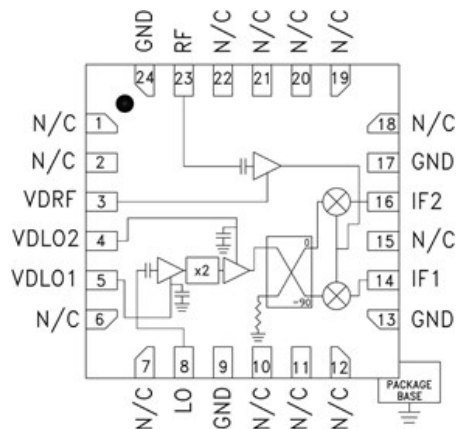
Documentation

Reference Materials

Design Resources

Discussions

Sample & Buy



Data Sheet

View All

Features and Benefits

- Conversion Gain: 15 dB
- Image Rejection: 25 dBc
- 2 LO to RF Isolation: 40 dB
- Noise Figure: 2.5 dB
- Input IP3: 1 dBm
- 24 Lead 4x4mm QFN Package: 16mm²

Product Categories

RF & Microwave

- [I/Q Downconverters/Receivers](#)

Product Details

The HMC967LP4E is a compact GaAs MMIC I/Q downconverter in a leadless RoHS compliant SMT package. This device provides a small signal conversion gain of 15 dB with a noise figure of 2.5 dB and 25 dBc of image rejection across the frequency band. The HMC967LP4E utilizes an LNA followed by an image reject mixer which is driven by an active x2 multiplier. The image reject mixer eliminates the need for a filter following the LNA, and removes thermal noise at the image frequency. I and Q mixer outputs are provided and an external 90° hybrid is needed to select the required sideband. The HMC967LP4E is a much smaller alternative to hybrid style image reject mixer downconverter assemblies, and is compatible with surface mount manufacturing... [Show More..](#)

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Product Lifecycle

Recommended for New Designs

This product has been released to the market. The data sheet contains all final specifications and operating conditions. For new designs, ADI recommends utilization of these products.

Evaluation Kits (1) ^

EVAL-HMC967LP4E | HMC967LP4E Evaluation Board

Documentation ^

1 See All

1 Data Sheets

HMC967 Data Sheet

PDF

1.39 M

Reference Materials ^

4 See All

3 Quality Documentation

1 Tape & Reel Specification

- Quality Documentation

Package/Assembly Qualification Test Report: Plastic Encapsulated QFN (QTR:...
- Quality Documentation

Package/Assembly Qualification Test Report: LP4, LP4B, LP4C, LP4K (QTR:...
- Quality

Semic Test R 2013-1 >

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[HMC967 Material Declaration](#)[PCN-PDN Information](#)[Quality And Reliability](#)[Symbols and Footprints](#)

Discussions



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Sample & Buy



Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC967LP4E Request PCN/PDN Notification Production	24 ld QFN (4x4mm w/2.8mm ep)	24	-55 to 85C	Reel, 50		-	Y Info	Sample Purchase
HMC967LP4ETR Request PCN/PDN Notification Production	24 ld QFN (4x4mm w/2.8mm ep)	24	-55 to 85C	Reel, 500		-	Y Info	Purchase

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[Price Table Help](#)

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS

Model	Description	RoHS	
131656-HMC967LP4E Production	Evaluation Board – HMC967LP4E Evaluation PCB		Yes

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Customers

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Years

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