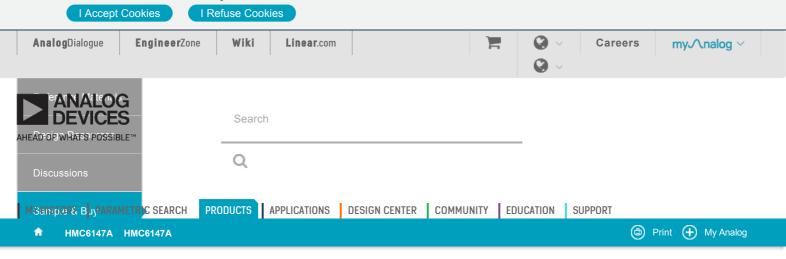
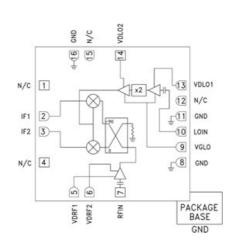
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HMC6147A

GaAs MMIC I/Q Downconverter, 37 - 44 GHz

Recommended for New Designs





Features and Benefits

- Conversion Gain: 13 dB
- Excellent Image Rejection: 25 dBc
- Output IP3: +12 dBm
- High Output IP3: +27 dBm
- 16 Lead 5x5 mm Ceramic Package: 25 mm²

Product Categories

RF & Microwave

• I/Q Downconverters/Receivers

Product Details

The HMC6147ALC5A is a compact GaAs MMIC I/Q downconverter in a leadless RoHS compliant SMT package. This device provides a small signal conversion gain of 13 dB with 25 dBc of sideband rejection. The HMC6147ALC5A utilizes a low noise amplifier to drive the I/Q mixer where the LO is driven by a X2

F2 mixer inputs are provided and an external 90° hybrid is

needed to select the required sideband.

The I/Q mixer topology reduces the need for filtering of the unwanted sideband. The HMC 6147ALC5A is a much smaller alternative to hybrid style single sideband converter assemblies and it eliminates the need for wire bonding by allowing the use of surface mount manufacturing techniques.

Applications

• Point-to-Point & ... Show More ..

Comparable Parts Click to see all in Parametric Search

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.



EVAL-HMC6147ALC5A

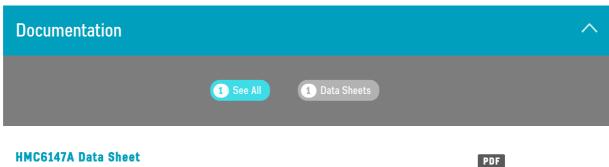
Product Details

This page contains ordering information for evaluating the HMC6147ALC5A.

View Detailed Evaluation Kit Information

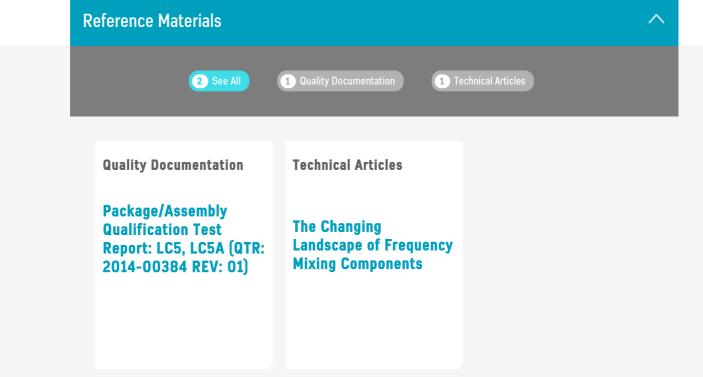
Resources

- Land Pattern and Solder Stencil ZIP
- HMC6147A Gerber Files ZIP



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Design Resources

ADI has always placed the highest emphasis on delivering products that meet the maximum levels of quality and reliability. We achieve this by incorporating quality and reliability checks in every scope of product and process design, and in the manufacturing process as well. "Zero defects" for shipped products is always our goal.

HMC6147A 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
HMC6147ALC5A Request PCN/PDN Notification	LCC:CER LEADLESS CHIP CARR	16	-40 to 85C	Reel, 50		-	Y 🖌 Info	Sample Purchase

Model	Package	Pins	Temp Range	Packing Qty	Price (100- 499)	Price (1000+)	RoHS	Order from Analog Devices
HMC6147ALC5ATR Request PCN/PDN Notification Production	LCC:CER LEADLESS CHIP CARR	16	-40 to 85C	Reel, 100		-	Y 🖌 Info	Sample Purchase
HMC6147ALC5ATR-R5 Request PCN/PDN Notification Production	LCC:CER LEADLESS CHIP CARR	16	-40 to 85C	Reel, 500		-	Y ✔ Info	Purchase
Back				Ν	IETHERLA	ANDS Y		Check Inventory

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Price Table Help

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS	
EV1HMC6147ALC5A	Evaluation Board - EVAL01-HMC6147ALC5A Evaluation PCB		Yes
Production			
Back	Add to cart NETHERLANDS	3 ×	Check Inventory

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.



Ahead of What's Possible

ADI enables our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. We collaborate with our customers to accelerate the pace of innovation and create breakthrough solutions that are ahead of what's possible.

Analog Devices. Dedicated to solving the toughest engineering challenges.

See the Innovations

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