



Search



Sample & Buy

MY HISTORY

PARAMETRIC SEARCH

PRODUCTS

APPLICATIONS

DESIGN CENTER

COMMUNITY

EDUCATION

SUPPORT



HMC1069 HMC1069



Print



My Analog

HMC1069

32Gbps Optical Modulator Driver

Recommended for New Designs

Features and Benefits

- Low DC Power Dissipation, 0.70W for 6Vpp output swing at 5V and 1W for 7.5Vpp swing at 6V supply.
- Integrated peak-detect function
- High gain, 15dB at 16GHz
- Low Additive RMS Jitter, <300 fsec
- High Bandwidth, 12 psec Rise and Fall Times
- Small Die Size:
1.71 x 1.35 x 0.10 mm

Product Categories

Optical

- [Modulator Drivers](#)

To request data sheet and for additional information, please contact RFMG-fo@analog.com

Product Details

The HMC1069 is a broadband distributed amplifier optimized for time-domain performance with high bandwidth supporting data-rates up to 32Gbps. The output signal amplitude and cross point are adjustable through the control pins and the integrated peak detector feature is used for monitoring the output voltage signal levels during device's normal operation.

The HMC1069 is designed in GaAs MMIC PHEMT process and the device can support supply (Vdd) voltage range from 5V to 7V with excellent performance.

HMC1069 can be used as a post-stage driver in cascaded configuration when HMC1068 is utilized as pre-stage amplifier. HMC1069 can also be used as a single-stage driver to address applications with low output swing requirements.

The HMC1069 comes... [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.

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.

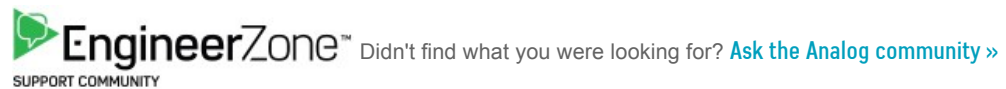
[HMC1069 Material Declaration](#)

[PCN-PDN Information](#)



[Quality And Reliability](#)

[Symbols and Footprints](#)

Discussions



Sample & Buy

Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC1069 Request PCN/PDN Notification Production	CHIPS OR DIE	0		Tray, 25		-	Y  Info	Purchase
HMC1069-SX Request PCN/PDN Notification Production	CHIPS OR DIE	0		Tray, 2	-	-	Y  Info	Sample Purchase

[Back](#)

UNITED STATES 

[Check Inventory](#)

The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

[Price Table Help](#)

15,000

Problem Solvers

4,700+

Patents Worldwide

125,000

Customers

50+

Years

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.

[See the Innovations](#)

Analog Devices. Dedicated to solving the toughest engineering challenges.

SOCIAL



QUICK LINKS

[About ADI](#)
[Analog Dialogue](#)
[Contact us](#)
[News Room](#)
[Sales & Distribution](#)

[Alliances](#)
[Careers](#)
[Investor Relations](#)
[Quality & Reliability](#)

LANGUAGES

[English](#)
[简体中文](#)
[日本語](#)
[Русский](#)

NEWSLETTERS

Interested in the latest news and articles about ADI products, design tools, training and events? Choose from one of our 12 newsletters that match your product area of interest, delivered monthly or quarterly to your inbox.

[Sign Up](#)