HMC7144

28 Gbps EML Driver w/ Peak-Detector

Recommended for New Designs

Overview
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Features and Benefits

Product Categories

Optical
- Modulator Drivers

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

Product Details

The HMC7144LC4 is a broadband driver amplifier for electro-absorption modulated lasers (EML) and supports data-rates up to 28.3 Gbps to meet the 100Gb Ethernet system requirements. The part provides the module designers scalable power dissipation for varying drive voltage characteristics of different modulators and the power consumption of the module can be set as low as 0.12W to 0.5W at 1.5Vpp and 2.2Vpp outputs amplitudes, respectively. The HMC7144LC4 supports wide range of supply voltages from 3.5V to 6V and delivering excellent time domain performance. The driver incorporates the unique feature, peak-detector with reference, which enables the continuous output amplitude monitoring without the need for an external high-frequency … Show More..

Comparable Parts

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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-HMC7144LC4	HMC7144LC4 Evaluation Board

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.

HMC7144 Material Declaration

PCN-PDN Information

Quality And Reliability

Symbols and Footprints

Discussions

HMC7144 Discussions

Re: channel temperature vs MTTF curve and Activation Energy [eV] / HMC3653LP3BE and HMC6981LS6

Re: channel temperature vs MTTF curve and Activation Energy [eV] / HMC3653LP3BE and HMC6981LS6

All HMC7144 Discussions

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Sample & Buy

Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC7144LC4 Request PCN/PDN Notification Production	24 ld LCC	24	-40 to 87C	Reel, 50		-	Y Info	Sample Purchase
HMC7144LC4TR Request PCN/PDN Notification Production	24 ld LCC	24	-40 to 87C	Reel, 100		-	Y Info	Purchase
HMC7144LC4TR-R5 Request PCN/PDN Notification Production	24 ld LCC	24	-40 to 87C	Reel, 500		-	Y Info	Purchase

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Price Table Help

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS	
EVAL01-HMC7144LC4 Production	HMC7144LC4 Evaluation Board		Yes

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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.

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Problem Solvers

4,700+
Patents Worldwide

125,000
Customers

50+
Years

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See the Innovations

Analog Devices. Dedicated to solving the toughest engineering challenges.