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HMC7144

28 Gbps EML Driver w/ Peak-Detector



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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..](#)

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](#)

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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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Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC7144LC4 Request PCN/PDN Notification Production	24 Id LCC	24	-40 to 87C	Reel, 50		-	Y Info	Sample Purchase
HMC7144LC4TR Request PCN/PDN Notification Production	24 Id LCC	24	-40 to 87C	Reel, 100		-	Y Info	Purchase
HMC7144LC4TR-R5 Request PCN/PDN Notification Production	24 Id 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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125,000

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50+

Years

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