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HMC7150

HMC7150



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HMC7150

28 Gbps EML Driver

Recommended for New Designs

Overview

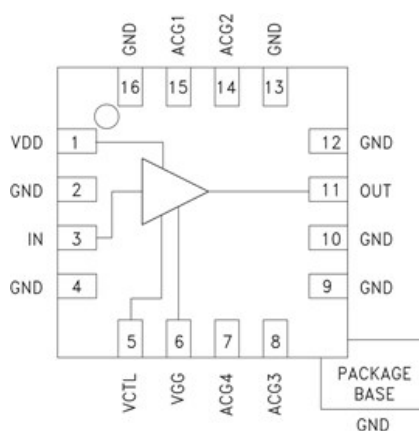
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Features and Benefits

- Operation up to 28.3 Gbps
- Low DC Power Dissipation,
0.12W for 1.5Vpp swing @
3.3V supply 0.50W for
2.3Vpp swing @ 6V supply
- Adjustable Output Amplitude from 1.2Vpp to 2.3Vp
- 16 Lead 3x3mm SMT Package:
9 mm²

Product Categories

Optical

- [Modulator Drivers](#)

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

Product Details

The HMC7150 is a broadband driver amplifier for electro-absorption modulated lasers (EML) and supports data-rates up to 28.3Gbps 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 2.3Vpp outputs amplitudes, respectively. The HMC7150 supports wide range of supply voltages from 3.3V to 6V and delivering excellent time domain performance. The output amplitude and cross-point can be adjusted via control pins. The input and output are 50 Ohms matched and used AC coupled. The HMC7150 is in compact leadless 3x3mm

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.

Evaluation Kits (1)

EVAL-HMC7150LP3D

HMC7150LP3D Evaluation Board

EVAL-HMC7150LP3D

Product Details

This page contains ordering information for evaluating the HMC7150LP3D.

[View Detailed Evaluation Kit Information](#)

Reference Materials

3 See All

2 Quality Documentation

1 Tape & Reel Specification

Quality Documentation

**Semiconductor
Qualification Test
Report: PHEMT-K (QTR:
2013-00500)**

Quality Documentation

**Package/Assembly
Qualification Test
Report: LP2, LP2C, LP3,
LP3B, LP3C,...**

Tape & Reel Specification

**LP3, LC3, LC3B Tape
and Reel Outline
Dimensions**



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.

[HMC7150 Material Declaration](#)[PCN-PDN Information](#)[Quality And Reliability](#)[Symbols and Footprints](#)

Discussions



HMC7150 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 HMC7150 Discussions](#)

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Sample & Buy



Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC7150LP3DE Request PCN/PDN Notification Production	LFCSP:LEADFRM CHIP SCALE	16		Reel, 50		-	Y Info	Sample Purchase
HMC7150LP3DETR Request PCN/PDN Notification Production	LFCSP:LEADFRM CHIP SCALE	16		Reel, 500		-	Y Info	Purchase

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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.

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125,000

Customers

50+

Years

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