**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..]
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

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HMC1069 Material Declaration

PCN-PDN Information

Quality And Reliability

Symbols and Footprints

Discussions

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