
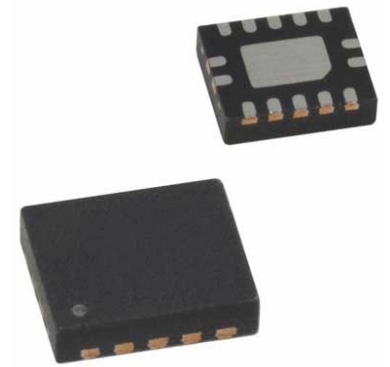


**RF Amp Single Limiting Amp 26.5GHz 3.47V 16-Pin CLLCC  
EP T/R**

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	16-LeadQFN(3mmx3mmwE
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

Inquiry

### General Description

The HMC865LC3 is a Limiting Amplifier packaged in a leadless 3x3 mm ceramic surface mount package which supports up to 43 Gbps operation. The amplifier provides 30 dB of differential gain. Output voltage swing is adjustable up to 800 mVp-p differential by using the VAC analog control input. Additive rms jitter is less than 300 fs for 32 Gbps operation. HMC865LC3 has an internal DC offset correction circuit which provides differential 10 mVpp input sensitivity.

All input/output RF signals of the HMC865LC3 are terminated with 50 Ohms to +3.3V on chip and may be either AC or DC coupled. The outputs of the device can be operated either differentially or singleended. Outputs can be connected directly to 50 Ohm terminated system referenced to 3.3V, while DC blocking capacitors may be used if the terminating system is 50 Ohms to a non 3.3V level.

### Key Features

- Supports Data Rates up to 43 Gbps
- Low Power Dissipation: 300 mW @>
- Differential Small Signal Gain: 30 dB
- High Input Sensitivity: 10 mVp-p Differential
- 3-dB Bandwidth: 26.5 GHz
- Adjustable Output Voltage Swing up to 800 mVp-p Differential
- 16 Lead 3x3mm SMT package: 9mm<sup>2</sup>

### Application

- 100 Gbps Ethernet
- 100 Gbps Long Haul
- 40 Gbps (D)QPSK Receivers
- Broadband Gain Block for Test & Measurement Equipment

### Recommended For You

**HMC351S8TR**

Analog Devices, Inc  
SMD

**LT6372HMSE-1#PBF**

Analog Devices, Inc  
MSOP16

**LTC2946HMS-1#PBF**

Analog Devices, Inc  
MSOP

**HMC675LC3C**

Analog Devices, Inc

SMT-16

**HMC975**

Analog Devices, Inc

SMD

**HMC5981LS7TR**

Analog Devices, Inc

QFN

**HMC400MS8TR**

Analog Devices, Inc

MSOP8

**LTC6260HMS#TRPBF**

Analog Devices, Inc

MSOP-16

**LTC6260HMS#PBF**

Analog Devices, Inc

MSOP16

**HMC387MS8TR**

Analog Devices, Inc

MSOP8

**AD8309ARUZ**

Analog Devices, Inc

TSSOP16

**AD524BDZ**

Analog Devices, Inc

CDIP-16

**AMP02FPZ**

Analog Devices, Inc

DIP8

**AD8221BR**

Analog Devices, Inc

SOP-8

**OP177GSZ**

Analog Devices, Inc

SOP8