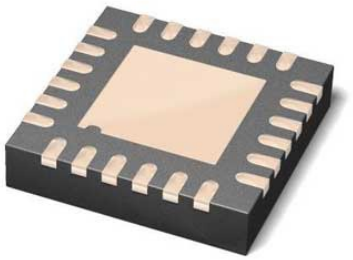
HMC914LP4E

Data Sheet

RF Amplifier, 32 dB Gain, 12.5 Gigabit Ethernet, 9.5 GHz Bandwidth, 3 V to 3.6 V Supply, QFN-24

Manufacturers	Analog Devices, Inc
Package/Case	QFN-24
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC914LP4E or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

HMC914LP4E is a limiting amplifier designed to support data transmission rates up to 12.5 Gbps. The amplifier can operate over a wide range of input voltage levels and provides constant-level differential output swing. HMC914LP4E features a loss of signal (LOS) indicator output where the input signal amplitude threshold level can be adjusted using the LOSTH pin. HMC914LP4E also features an output level control pin, VAC, which allows for loss compensation or for output signal level optimization. Differential output signal swing can be adjusted up to 750 mVp-p. An integrated DC offset compensation is also provided on chip. The HMC914LP4E provides an analog RSSI output voltage which is proportional to input signal amplitude.

All single-ended input signals are terminated with 50 ohms to +3.3V on-chip, and may be either AC or DC coupled. The outputs of the HMC914LP4E may be operated either differentially or single-ended. The HMC914LP4E operates from a single +3.3V DC supply and is available in a plastic RoHS compliant 4x4 mm SMT package.

Features

Supports Data Rates up to 12.5 Gbps

Differential Small Signal Gain: 32 dB

Programmable Loss-of-Signal Detection (LOS)

Automatic Output Disable Mode

Adjustable Differential Saturated O/P VoltageSwing up to 750 mV

Integrated DC Offset Correction

Received Signal Strength Indicator (RSSI) Output

24 Lead 4x4mm SMT Package: 16mm²

Application

SONET/SDH-Based Transmission Systems

OC-192 Fiber Optic Modules

10 Gigabit Ethernet

8x and 10x Fiber Channel

Wideband RF Gain Block

Related Products

HMC591LP5E

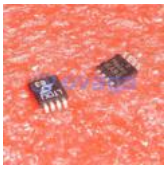
Analog Devices, Inc

QFN32

HMC589AST89E

Analog Devices, Inc

SOT-89



LTC6102HMS8#PBF

Analog Devices, Inc

8MSOP

HMC464LP5

Analog Devices, Inc

QFN32

HMC902LP3E

Analog Devices, Inc

QFN-16

LTC6102HMS8

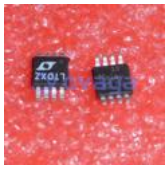
Analog Devices, Inc

MSOP8

LT6375HMS#PBF

Analog Devices, Inc

16MSOP



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Analog Devices, Inc

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