

Transimpedance Logarithmic Amplifier





Overview

The device computes the logarithm or log-ratio of an input current or voltage relative to a reference current or voltage (logarithmic transimpedance amplifier). High precision is verified over a wide dynamic range of input signals on either bipolar ($\pm 5V$) or single (5V) supply. The amplifier was used both to measure pixel currents in an imager as well as currents from a floating gate array for accurate programming. The OPA380 far exceeds the offset, drift, and noise performance that conventional JFET op amps provide.



Transimpedance Logarithmic Amplifier

ADL5308 Datasheet and Product Info , Analog Devices

The ADL5308-EVALZ evaluation board allows evaluation of the ADL5308 logarithmic converter IC. The ADL5308 is a monolithic logarithmic transimpedance amplifier,

Logarithmic Amplifier Chips Selection Guide: Types, Features

Logarithmic amplifier chips produce an output voltage that is directly proportional to the logarithm of an input voltage or current. They are often used in applications involving signal compression, such as in



Precision, High-Speed Transimpedance Amplifier datasheet (Rev

Logarithmic amplifiers are used to compress extremely wide dynamic range input currents to a much narrower range. Wide input dynamic ranges of 8 decades, or 100pA to 10mA, can be accommodated

LOG114 Single-Supply, High-Speed, Precision Logarithmic Amplifier

The device computes the logarithm or log-ratio of an input current or voltage relative to a reference current or voltage (logarithmic transimpedance amplifier).

ADL5309 Datasheet and Product Info , Analog Devices



The ADL5309 is comprised of dual monolithic logarithmic transimpedance amplifiers that are optimized for the measurement of low

Transimpedance Amplifiers (TIA) , Analog Devices

Analog Devices' optical and logarithmic transimpedance amplifiers (TIAs) offer high performance, single-chip solutions for precise photodiode current-to-voltage

A Low-Power, Compact, Adaptive Logarithmic Transimpedance Amplifier

This paper presents a detailed insight into the design space of wide-range transimpedance amplifiers enabling the design of micro-power, adaptive circuits for integrated current sensing applications. The



LOG114 Precision Logarithmic Amplifier

Texas Instruments LOG114 Precision Logarithmic Amplifier is designed for measuring low-level and wide dynamic range currents in communications, lasers,

Dynamics of a Logarithmic Transimpedance Amplifier

Abstract-- We analyze the dynamics of a logarithmic transimpedance amplifier that are not explainable from its small-signal model. The amplifier was used both to measure pixel currents in an imager as

LOG114 data sheet, product information and support , TI

The device computes the logarithm or log-ratio of an input current or voltage relative to



a reference current or voltage (logarithmic transimpedance amplifier). High precision is verified over a wide

MT-077: Log Amp Basics

For the purposes of simplicity in our initial discussions, we shall assume that both the input and the output of a log amp are voltages, although there is no particular reason why logarithmic current,

LOG114 , Buy TI Parts , TI

The device computes the logarithm or log-ratio of an input current or voltage relative to a reference current or voltage (logarithmic transimpedance amplifier). High precision is verified over a wide



Ask The Applications Engineer--28: Logarithmic

Answers to some questions about logarithmic amplifiers. Q. I've just been reading datasheets of some recently released Analog Devices log amps and I'm still a

ADL5308 Amplifier

The ADL5308 is a monolithic logarithmic transimpedance amplifier optimized for low-frequency measurement and wide dynamic range signal power in fiber optic

A Low-Power, Compact, Adaptive Logarithmic Transimpedance

This paper presents a detailed insight into the design space of wide-range transimpedance amplifiers enabling the design of micro-power, adaptive circuits for integrated current sensing applications.



LOG114 Single-Supply, High-Speed, Precision Logarithmic Amplifier

The device computes the logarithm or log-ratio of an input current or voltage relative to a reference current or voltage (logarithmic transimpedance amplifier). High precision is designed for over a wide

LOG200: New Logarithmic Amplifier with wide

Figure 2: Typical Photodiode Current Sensing Application with LOG200 Non-Logarithmic Amplifier Solution In the case where a log amp is not

ADL5308 Logarithmic Transimpedance Amplifier



The ADL5308 is a monolithic logarithmic transimpedance amplifier optimized for low-frequency measurement and wide dynamic range signal power

SYSTEMS AND DEVICES FOR DIGITAL-DOMAIN TEMPERATURE

Technologies are provided to calculate a logarithm of an input current to a logarithmic transimpedance amplifier device at a particular temperature. The logarithm of the current is calculated in digital

Logarithmic Amplifier Chip Design and Application

Applications Some common application examples of logarithmic amplifier chips follow. A precision transimpedance logarithmic amplifier with five decades of



Dynamics of a Logarithmic Transimpedance Amplifier

I. LOGARITHMIC TRANSIMPEDANCE AMPLIFIER High dynamic range current processing generally requires some form of compression at the front-end to ease the design of the following stages or

Logarithmic amplifiers , TI

Our logarithmic amplifiers are designed for measuring low-level and wide dynamic range currents common in optical modules, lasers, and medical equipment. These devices offer low log conformity

LOG114 Precision Logarithmic Amplifier



TILOG114 Logarithmic Amplifier computes the logarithm or log-ratio of an input current or voltage relative to a reference current or voltage (logarithmic transimpedance amplifier). High precision is

Precision Transimpedance Logarithmic Amplifier with Over

General Description The MAX4206 logarithmic amplifier computes the log ratio of an input current relative to a reference current (externally or internally generated) and provides a corresponding

Logarithmic Amplifiers Scale Input Signals , DigiKey

How to use log amplifiers to compress wide dynamic range signals to make them compatible with linear processing elements like digitizers.



Integrated DC Logarithmic Amplifiers , Analog Devices

These DC log amps operate on unipolar inputs (current or voltage), and are frequently referred to as diode, transdiode, translinear, and transimpedance log

Contact Us

For datasheets, pricing, or custom optical networking solutions, please visit:
<https://www.entrenamientointeligente.es>