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high performance analog

10/24/2013

Exar Announces Improved Replacements for Analog Devices High-Speed Operational Amplifier Family

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CLC2000

High Output Current Dual Amplifier

Features

- 510MHz -3dB bandwidth at G = 1
- 250MHz -3dB bandwidth at G = 2
- 200mA output current
- Using both amplifiers, 18.8Vpp differential output drive into RL=50Ω
- 9.4Vpp output drive into RL=25Ω
- 210V/μs slew rate
- 4.5nV/√Hz input voltage noise

Applications

- Video line driver
- Cable drivers
- ADSL external modems
- ADSL PCI modem cards
- Twisted pair driver/receiver

Description

The COMLINEAR™ CLC2000 is a dual voltage feedback amplifier that offers ±200mA of output current at 9.4Vpp. The CLC2000 is capable of driving signals to within 1V of the power rails. When connected as a differential line driver, the dual amplifier drives signals up to 18.8Vpp into a 25Ω load, which supports the peak upstream power levels for upstream full-rate ADSL CPE applications.

Part Number	Min Temp. (°C)	Max Temp. (°C)	Status	Buy Now	Order Samples
CLC2000ISO6X	-40	85	Active		
CLC2000ISO8MTR	-40	85	Active		
CLC2000ISO8EVB			Active		

Part Status Legend

Active - the part is released for sale, standard product.

EOL (End of Life) - the part is no longer being manufactured, there may or may not be inventory still in stock.

CF (Contact Factory) - the part is still active but customers should check with the factory for availability. Longer lead-times may apply.

PRE (Pre-introduction) - the part has not been introduced or the part number is an early version available for sample only.

OBS (Obsolete) - the part is no longer being manufactured and may not be ordered.

NRND (Not Recommended for New Designs) - the part is not recommended for new designs.

Specifications

# of Channels	2
Gmin (V/V)	1
BNW @ Gmin (MHz)	510
SR (V/μs)	210
Is per ch (mA)	7
Iout(mA)	200
en (nV/√Hz)	4.5
Vio Max (±) (mV)	6
Min Vs (V)	5
Max Vs (V)	13

[View Full Specs](#)

Technical Assets


[Block Diagram](#)

Datasheets

Comlinear® CLC2000, CLC4000 High Output Current Dual and Quad Amplifiers

Application Notes

AAN-23 CVBS CAT5e (Single Line) Video Driver/Receiver for 0 to 900m, 1200m & 1500m

AAN-4 Driving CAT-3 UTP Cable

AAN-5 Demo Kit Drives VGA Over 300m of CAT5

Product Change Notification

July 2014