

Features

- Voltage noise of only $1.9\text{nV}/\sqrt{\text{Hz}}$
- Current noise of only $1.2\text{pA}/\sqrt{\text{Hz}}$
- Bandwidth (-3dB) of 115MHz @ $A_V = +2$
- Gain-of-2 stable
- Just 4.8mA per amplifier
- 8-pin MSOP package
- $\pm 2.5\text{V}$ to $\pm 12\text{V}$ operation

Applications

- ADSL receivers
- HDSLII receivers
- Ultrasound input amplifiers
- Wideband instrumentation
- Communications equipment
- AGC & PLL active filters
- Wideband sensors

Ordering Information

Part No.	Package	Tape & Reel	Outline #
EL2227CY	8-Pin MSOP	-	MDP0043
EL2227CY-T13	8-Pin MSOP	13"	MDP0043
EL2227CY-T7	8-Pin MSOP	7"	MDP0043
EL2227CS	8-Pin SO	-	MDP0027
EL2227CS-T13	8-Pin SO	13"	MDP0027
EL2227CS-T7	8-Pin SO	7"	MDP0027

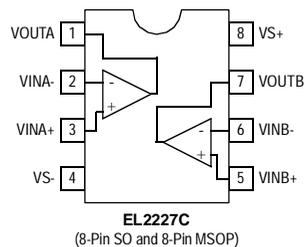
General Description

The EL2227C is a dual, low-noise amplifier, ideally suited to line receiving applications in ADSL and HDSLII designs. With low noise specification of just $1.9\text{nV}/\sqrt{\text{Hz}}$ and $1.2\text{pA}/\sqrt{\text{Hz}}$, the EL2227C is perfect for the detection of very low amplitude signals.

The EL2227C features a -3dB bandwidth of 115MHz and is gain-of-2 stable. The EL2227C also affords minimal power dissipation with a supply current of just 4.8mA per amplifier. The amplifier can be powered from supplies ranging from $\pm 2.5\text{V}$ to $\pm 12\text{V}$.

The EL2227C is available in a space-saving 8-pin MSOP package as well as the industry-standard 8-pin SO. It can operate over the -40°C to $+85^\circ\text{C}$ temperature range.

Connection Diagram



Full Data Sheet

Note: All information contained in this data sheet has been carefully checked and is believed to be accurate as of the date of publication; however, this data sheet cannot be a "controlled document". Current revisions, if any, to these specifications are maintained at the factory and are available upon your request. We recommend checking the revision level before finalization of your design documentation.

EL2227C - Product Brief

Dual Very Low Noise Amplifier

General Disclaimer

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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