

Features

- Autozero of output offset to <10mV
- 13 channels with three selectable gains of 12kΩ, 23kΩ, and 63kΩ
- Low noise, low group delay variation
- Channel settling times of 26ns, 33ns, and 27ns
- Low offset voltage - DC coupled channels
- Space saving, low thermal resistance, LPP-38 package
- Single 5V supply

Applications

- DVD-RAM, -RW, and -ROM
- CD-RW, -R, and -ROM
- MO drives
- Optical pickup pre-amplifier
- Servo positioning systems
- High speed instrumentation

Ordering Information

Part No	Package	Tape & Reel	Outline #
EL6295CJ	38-Pin LPP		MDP0046

General Description

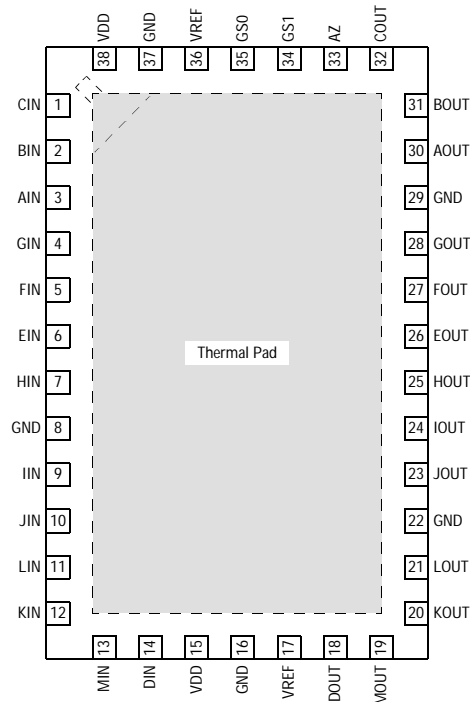
The EL6265C consists of 13 fast settling, switch gain, trans-impedance amplifiers with source terminated flex drive capability. The amplifier bandwidth and settling times varies with the selected gain. The fast channel bandwidths are 59MHz, 43MHz, and 34MHz. With a short flex, the bandwidths can be slightly increased.

The EL6265C is designed to amplify the photo diode currents for CD, DVD, or other photo diode pick-up applications.

Two TTL/CMOS compatible inputs select the gain for all eight amplifiers. The gain settings are 12kΩ, 23kΩ, and 63kΩ for all channels. Gain matching is typically 3%, channel to channel. An auto-zero input brought high after power up reduces the output offsets to less than 10mV.

Each amplifier output can typically sink or source up to 5mA and their outputs can swing 1V_{p-p} at full bandwidth at the end of a long flex circuit. The EL6265C operates from a single +5V supply and is available in an LPP-38 package. It is specified for operation from -0°C to 70°C.

Connection Diagram



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.

EL6265C - Product Brief

13 Channel, 60MHz, Switched Gain Pre-Amp

General Disclaimer

Specifications contained in this data sheet are in effect as of the publication date shown. Elantec, Inc. reserves the right to make changes in the circuitry or specifications contained herein at any time without notice. Elantec, Inc. assumes no responsibility for the use of any circuits described herein and makes no representations that they are free from patent infringement.

élantec

HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

Elantec Semiconductor, Inc.

675 Trade Zone Blvd.

Milpitas, CA 95035

Telephone: (408) 945-1323

(888) ELANTEC

Fax: (408) 945-9305

European Office: +44-118-977-6020

Japan Technical Center: +81-45-682-5820

WARNING - Life Support Policy

Elantec, Inc. products are not authorized for and should not be used within Life Support Systems without the specific written consent of Elantec, Inc. Life Support systems are equipment intended to support or sustain life and whose failure to perform when properly used in accordance with instructions provided can be reasonably expected to result in significant personal injury or death. Users contemplating application of Elantec, Inc. Products in Life Support Systems are requested to contact Elantec, Inc. factory headquarters to establish suitable terms & conditions for these applications. Elantec, Inc.'s warranty is limited to replacement of defective components and does not cover injury to persons or property or other consequential damages.