élantec
HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

EL6262C - Product Brief

Quad 20MHz & Quad, 70MHz, Switched Gain Pre-Amp

Features

- Autozero of output offset to <10mV
- 3 selectable gains; 8KΩ, 15KΩ, 40KΩ
- Space saving QSOP-24 package
- Differential Sum & Sum-Bar outputs
- 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	Temp. Range	Package	Outline #
EL6262CU	0°C to +70°C	24-Lead QSOP	MDP0040

General Description

The EL6262C consists of 4 20MHz trans-impedance amplifiers and 4 70MHz trans-impedance amplifiers. The four 70MHz amplifier outputs also are averaged to provide differential 70MHz outputs.

The EL6262C is designed to amplify the photo diode currents for CD, DVD, or other photo diode pick-up applications.

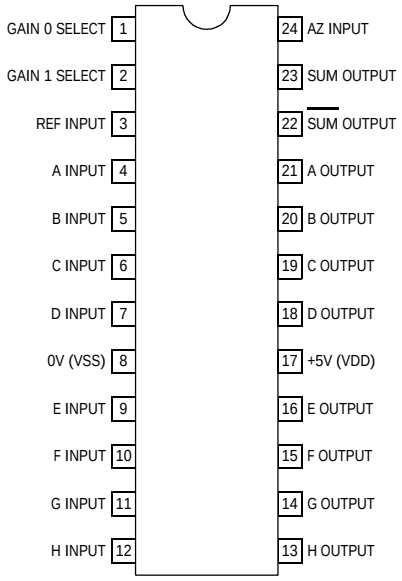
Two TTL/CMOS compatible inputs select the gain for all eight amplifiers. The gain settings are 8KΩ, 15KΩ, and 40KΩ for all channels. The sum and sumbar outputs are 11KΩ, 20KΩ, and 45KΩ single ended. Gain matching is typically 3%, channel to channel. An autozero input brought high after power up reduces the output offsets to less than 10mV.

The E, F, G, and H channel bandwidths are 20MHz for all gains and reasonable input and output loads. The A, B, C, D, S, and $\overline{S}$ channels have bandwidths of 70MHz, 46MHz, and 32MHz at low, middle, and high gains respectively after driving 25cm of flex circuit.

Each amplifier output can typically sink or source up to 5mA and their outputs can swing $1V_{P-P}$ at full bandwidth.

The EL6262C operates from a single +5V supply and is available in QSOP-24 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.

© 2001 Elantec Semiconductor, Inc.

EL6262C - Product Brief

Quad 20MHz & Quad, 70MHz, 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.