

Features

- Autozero of output offset to <10mV
- 3 selectable gains; 8K Ω , 15K Ω , 40K Ω
- 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.

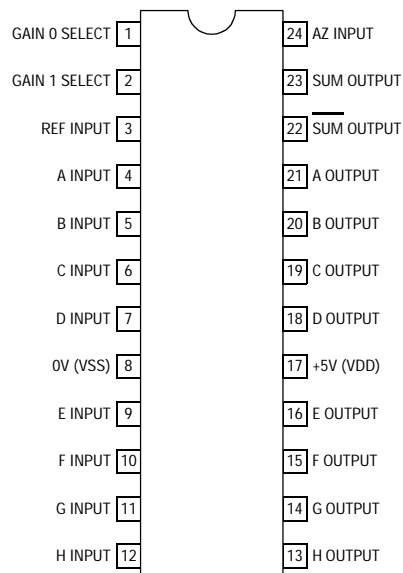
Two TTL/CMOS compatible inputs select the gain for all eight amplifiers. The gain settings are 8K Ω , 15K Ω , and 40K Ω for all channels. The sum and sumbar outputs are 11K Ω , 20K Ω , and 45K Ω single ended. Gain matching is typically 3%, channel to channel. An auto-zero input brought high after power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

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 \bar{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.

EL6262C - Product Brief

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

General Disclaimer

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