

Features

- Low output noise = 4.0nA/rt-Hz
- High-performance laser diode driver
- Pin compatible with EL6257
- Voltage-controlled output current source to 150 mA per channel, requiring one external set resistor per channel
- Current-controlled output current source to 150 mA per channel
- Rise time = 1.0 ns
- Fall time = 1.1 ns
- On chip oscillator with frequency and amplitude control by use of external resistors to ground
- Oscillator to 500 MHz
- Oscillator to 100 mA pk/pk
- Single +5V supply ($\pm 10\%$)
- Disable feature for power-up protection and power savings
- TTL/CMOS control signals

Applications

- DVD-RAM high speed drives
- CD-RW applications
- Writable optical drives
- Laser diode current switching

Ordering Information

| Part No | Temp. Range | Package | Outline # |
|----------|--------------|---------|-----------|
| EL6259CU | 0°C to +70°C | QSOP-24 | MDP0040 |

Complete Product Specifications Elantec Technical Support:

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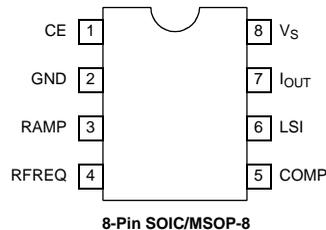
General Description

The EL6270C is a high-performance single channel laser diode power regulator and oscillator for a grounded cathode laser diode and photodiode system. The EL6270C's APC (Automatic Power Controller) will set the average laser diode input current for a desired average photodiode output current. The APC can provide up to 100 mA of DC current.

An on-chip programable oscillator is provided to allow current modulation of the output laser current. Two external resistors control of amplitude and frequency. The Oscillator can provide up to 100mA pk/pk.

A disable function is included which reduces supply current to less than 5 μ A.

Connection Diagram



EL6270C - Product Brief

Laser Driver with Oscillator and APC

General Disclaimer

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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