élantec
HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

EL6201C - Product Brief
Low Power 430 MHz HFM Oscillator w/Disable

Features

- Small SOT-23 and MSOP-8 packages
- Frequency to 430MHz min.
- Amplitude to 25mA$_{P-P}$ min.
- Output tristate function (MSOP-8)
- Power-down function (MSOP-8)
- Single +3.5V to +5.0V supply
- Simple to use - only two external resistors required
- Independent resistor setting for frequency and amplitude.

Applications

- DVD players
- DVD-ROM drives
- DVD-RAM drives
- CD-RW drives
- MO drives
- Optical pickup head assembly
- Laser diode modulation
- Local oscillator
- Communications lasers

Ordering Information

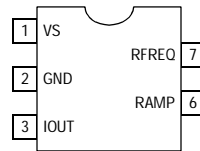| Part No	Temp. Range	Package	Outline #
EL6201CY	0°C to +75°C	8-Pin MSOP	MDP0043
EL6201CW	0°C to +75°C	5-Pin SOT23	MDP0038

General Description

The EL6201C is a solid state high performance laser modulation oscillator with external resistor adjustable frequency and amplitude. The EL6201C is available in both the 8-pin MSOP and the 5-pin SOT23, to enable device placement close to the laser for reduced EMI.
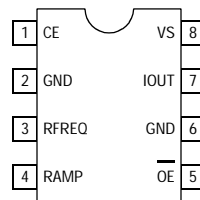
The oscillator frequency is set by connecting a single external resistor from the RFREQ pin to ground. The oscillator current output amplitude is set by connecting a single external resistor from the RAMP pin to ground. The oscillator in the MSOP package also contains a high speed output disable function using the $\overline{OE}$ pin. The $\overline{OE}$ pin can be driven by a high speed timing signal to control precise laser modulation during read/write operations. The output current is disabled when a logical zero 'L' is driven to the CE pin. Supply current is reduced to microamps when CE = LOW.

The EL6201C has internal supply bypass capacitors to reduce oscillation noise spread through supply connections.

Connection Diagram

5-Pin SOT23

8-Pin MSOP

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General Disclaimer

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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

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