

# élantec

HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

## EL5191C - Product Brief

### 1GHz Current Feedback Amplifier

#### Features

- 1GHz -3dB bandwidth
- 9mA supply current (per amplifier)
- Single and dual supply operation, from 5V to 10V
- Fast enable, just 25nS (selected packages only)
- Singles in SOT23
- High speed, 700MHz product available (EL5x92 family, EL5x96C family with fixed gain)
- Lower speed 400MHz product available (EL5x93 family, EL5x97C family with fixed gain)

#### Applications

- Video Amplifier
- Cable Drivers
- RGB Amplifier
- Test Equipment
- Instrumentation
- Current to Voltage Converters

#### Ordering Information

Part No	Temp. Range	Package	Outline #
EL5191CW	-40°C to +85°C	SOT23-5	MDP0038
EL5191CS	-40°C to +85°C	8-Pin SOIC	MDP0027

#### General Description

The EL5191C amplifier is of the current feedback variety and exhibits a very high bandwidth of 1GHz. This makes this amplifier ideal for today's high speed video and monitor applications, as well as a number of R.F and I.F frequency designs..

With a supply current of just 9mA and the ability to run from a single supply voltage from 5V to 10V, these amplifiers offer very high performance for little power consumption.

The amplifier is also available with a fast acting disable. This disable will turn off in 10nS, and enable again in just 25nS, making the EL5191 amplifier ideal for multiplexing applications. Allowing the  $\overline{CE}$  pin to float, or applying a low logic level will enable the amplifier.

For applications where board space is critical, the EL5191C is offered in a SOT23-5 package, as well as an industry standard SO8. The EL5191C operates over the industrial temperature range of -40°C to +85°C.

#### Pin Configurations

