

## Features

- 300 MHz -3dB bandwidth
- 4mA supply current
- Single and dual supply operation, from 5V to 10V
- Fast enable, just 25ns (selected packages only)
- Available in SOT23-5 and SOT23-6 packages
- Dual (EL5293C) and triples (EL5393C) available
- Fixed gain variants available for  $A_v = +1, -1, +2$  (EL5197C & EL5397C)
- High speed, 1GHz product available (EL5191C)
- High speed, 6mA, 600MHz product available (EL5192C family, EL5196C family with fixed gain)

## Applications

- Battery Powered Equipment
- Hand Held, Portable Devices
- Video Amplifier
- Cable Drivers
- RGB Amplifier
- Test Equipment
- Instrumentation
- Current to Voltage Converters

## Ordering Information

Part No	Package	Tape & Reel	Outline #
EL5193CW5-T7	SOT23-5	7"	MDP0038
EL5193CW5-T13	SOT23-5	13"	MDP0038
EL5193CW6-T7	SOT23-6	7"	MDP0038
EL5193CW6-T13	SOT23-6	13"	MDP0038
EL5193CS	8-Pin SOIC	-	MDP0027
EL5193CS-T7	8-Pin SOIC	7"	MDP0027
EL5193CS-T13	8-Pin SOIC	13"	MDP0027

## General Description

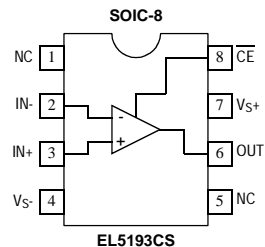
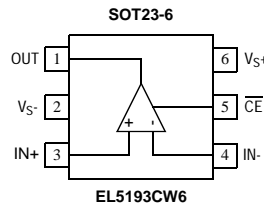
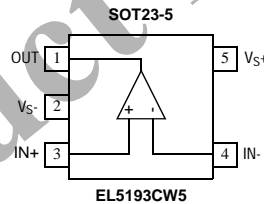
The EL5193C is a current feedback amplifier with a bandwidth of 300MHz. This makes these amplifiers ideal for today's high speed video and monitor applications.

With a supply current of just 4mA and the ability to run from a single supply voltage from 5V to 10V, these amplifiers are also ideal for hand held, portable or battery powered equipment.

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 EL5193C 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 EL5193C is offered in both the SOT23-5 and SOT23-6 packages, as well as an industry standard 8-pin SOIC. The EL5193C operates over the industrial temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## Pin Configurations



## 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.

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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June 12, 2000

## [Amplifiers](#)

Part #	EL5193C
# of Amps	1
Bandwidth @-3 dB (MHz)	300
Min. Gain	1
Supply Voltage Range (Min to Max) (V)	$\pm 2.25$ to $\pm 5.5$
Supply Current per Amp (mA)	4
Diff Gain/ Diff Phase (%/f)	0.01/0.05
Input Offset Voltage Max. (mV)	10
Input Voltage Noise nV/Hz	6.4
SlewRate (V/ $\mu$ s)	3000
Output Current (mA)	120
Current Mode	✓
Voltage Mode	
Disable	✓
Clamp	
Inputs to GND	
Outputs to GND	
Rail to- Rail in	
Rail to- Rail out	
Package P-DIP	
Package SOIC	8
Package Other	SOT23-5
Data Sheet	<a href="#">PDF FILE</a>