

Features

- Gain selectable (+1, -1, +2)
- 600 MHz -3dB BW @ $A_v = +1$
- 6mA 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
- Triple (EL5396C) available
- 300MHz, 3mA product available (EL5197C, EL5397C)

Applications

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

Ordering Information

Part No	Package	Tape & Reel	Outline #
EL5196CW5-T7	SOT23-5	7"	MDP0038
EL5196CW5-T13	SOT23-5	13"	MDP0038
EL5196CW6-T7	SOT23-6	7"	MDP0038
EL5196CW6-T13	SOT23-6	13"	MDP0038
EL5196CS	8-Pin SOIC	-	MDP0027
EL5196CS-T7	8-Pin SOIC	7"	MDP0027
EL5196CS-T13	8-Pin SOIC	13"	MDP0027

General Description

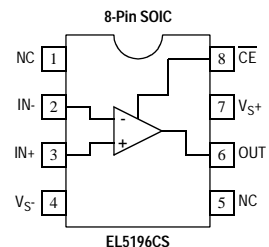
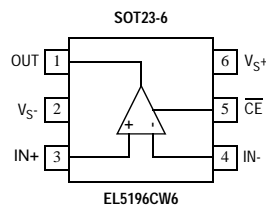
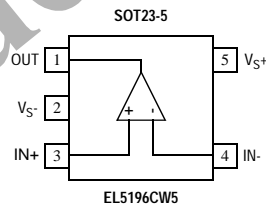
The EL5196C is a fixed gain amplifier with a bandwidth of 600MHz, making these amplifiers ideal for todays high speed video and monitor applications. The EL5196C features intenal gain setting resistors and can be configured to give a gain of +1, -1 or +2.

With a supply current of just 6mA 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 EL5196C 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 EL5196C is offered in both the SOT23-5 and SOT23-6 packages, as well as an industry standard 8-pin SOIC. The EL5196C operates over the industrial temperature range of -40°C to $+85^{\circ}\text{C}$.

Pin Configurations



EL5196C Preliminary

600MHz Fixed Gain Amplifier

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

Elantec, Inc.

1996 Tarob Court

Milpitas, CA 95035

Telephone: (408) 945-1323

(800) 333-6314

Fax: (408) 945-9305

European Office: 44-71-482-4596

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[Amplifiers](#)

Part #	EL5196C
# of Amps	1
Bandwidth @-3 dB (MHz)	600
Min. Gain	Fixed +1, -1,+2
Supply Voltage Range (Min to Max) (V)	±2.25 to ±5.5
Supply Current per Amp (mA)	6
Diff Gain/ Diff Phase (%/f)	0.01/0.01
Input Offset Voltage Max. (mV)	10
Input Voltage Noise nV/Hz	6.5
SlewRate (V/μs)	3400
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	PDF FILE