

Features

- 600 MHz -3dB bandwidth
- 6mA supply current (per amplifier)
- Single and dual supply operation, from 5V to 10V
- Fast enable, just 25ns (selected packages only)
- Available in 10-Pin MSOP package
- Single (EL5192C) and triples (EL5392C) available
- Fixed gain version also available for gains of +1, -1, +2 (EL5196C)
- High speed, 1GHz product available (EL5191C)
- Low power, 4mA, 300MHz product available (EL5193C family, EL5197C family with fixed gain)

Applications

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

Ordering Information

Part No	Package	Tape & Reel	Outline #
EL5292CS	8-Pin SOIC	-	MDP0027
EL5292CS-T7	8-Pin SOIC	7"	MDP0027
EL5292CS-T13	8-Pin SOIC	13"	MDP0027
EL5292CY	10-Pin MSOP	-	MDP0043
EL5292CY-T13	10-Pin MSOP	13"	MDP0043

General Description

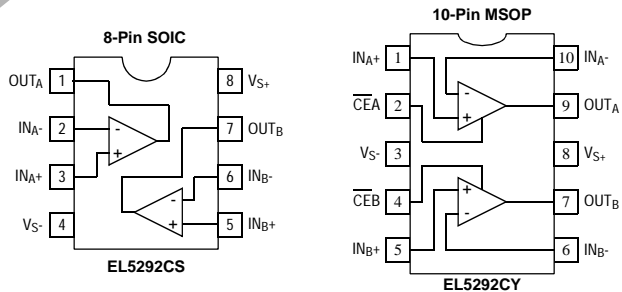
The EL5292C is a dual current feedback amplifier with a very high bandwidth of 600MHz. This makes this amplifier ideal for today's high speed video and monitor applications.

With a supply current of just 6mA per amplifier and the ability to run from a single supply voltage from 5V to 10V, the EL5292C is 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 EL5292C 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 EL5292C is offered in the 10-Pin MSOP package, as well as an industry standard 8-pin SOIC. The EL5292C operates over the industrial temperature range of -40°C to +85°C.

Pin Configurations



EL5292C Preliminary

Dual 600MHz Current Feedback Amplifier

Product Brief

General Disclaimer

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

Elantec Semiconductor, Inc.

675 Trade Zone Blvd.

Milpitas, CA 95035

Telephone: (408) 945-1323

Fax: (408) 945-9305

Toll Free: 1 - (888) ELANTEC

Web Site: <http://www.elantec.com>

European Office: 44-118-977-6020

Japan Tech Center: 81-45-682-5820

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[Amplifiers](#)

Part #	EL5292C
# of Amps	2
Bandwidth @-3 dB (MHz)	600
Min. Gain	1
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	MSOP10
Data Sheet	PDF FILE

[Amplifiers](#)

Part #	EL5392C
# of Amps	3
Bandwidth @-3 dB (MHz)	600
Min. Gain	1
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	16
Package Other	QSOP16
Data Sheet	PDF FILE