EL5123C, EL5223C, EL5323C, EL5423C - Product Brief

12MHz 4-, 8-, 10- & 12-Channel Rail-to-Rail Input-Output Buffers

Features

- 12MHz -3dB bandwidth
- Supply voltage = 4.5V to 16.5V
- Low supply current (per buffer) = 600µA
- High slew rate = 15V/µs
- Rail-to-rail input/output swing
- Ultra-small packages

Applications

- TFT-LCD drive circuits
- Electronics notebooks
- Electronic games
- Touch-screen displays
- Personal communication devices
- Personal digital assistants (PDA)
- Portable instrumentation
- Sampling ADC amplifiers
- Wireless LANs
- Office automation
- Active filters
- ADC/DAC buffers

Ordering Information

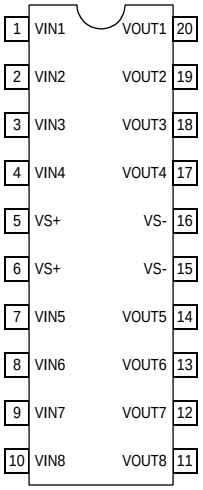
Part No	Package	Tape & Reel	Outline #
EL5123CY	10-Pin MSOP		MDP0043
EL5223CL	24-Pin LPP		MDP0046
EL5223CR	20-Pin TSSOP		MDP0044
EL5323CL	24-Pin LPP		MDP0046
EL5323CR	24-Pin TSSOP		MDP0044
EL5423CL	32-Pin LPP		MDP0046
EL5423CL	28-Pin TSSOP		MDP0044

General Description

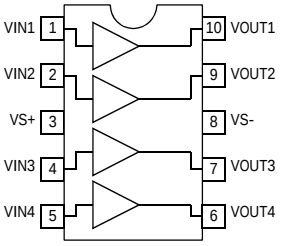
The EL5123C, EL5223C, EL5323C, and EL5423C are low power, high voltage rail-to-rail input/output buffers designed primarily for use in reference voltage buffering applications for TFT_LCDs. They are available in quad (EL5123C), octal (EL5223C), 10-channel (EL5323C), and 12-channel (EL5423C) topologies. All buffers feature a -3dB bandwidth of 12MHz and operate from just 600µA per buffer. This family also features fast slewing and settling times, as well as a continuous output drive capability of 30mA (sink and source).

The quad channel EL5123C is available in the 10-pin MSOP package. The 8-channel EL5223C is available in both the 20-pin TSSOP and 24-pin LPP packages, the 10-channel EL5323C in the 24-pin TSSOP and 24-pin LPP packages, and the 12-channel EL5423C in the 28-pin TSSOP and 32-pin LPP packages. All buffers are specified for operation over the full -40°C to +85°C temperature range.

Connection Diagrams



EL5223C
(20-Pin TSSOP Top View)



EL5123C
(10-Pin MSOP)

Connection Diagrams are continued on page 5

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General Disclaimer

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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