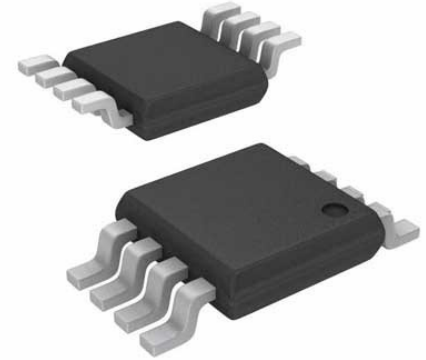


Analogue Comparator, Rail to Rail, High Speed, 1 Comparator, 30 ns, 2.5V to 5.5V, MSOP, 8 Pins



Images are for reference only

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | MSOP8 |
| Product Type | Comparator ICs |
| RoHS | Rohs |
| Lifecycle | |

Please submit RFQ for ADCMP609BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADCMP609 is a fast comparator fabricated on XFCB2, an Analog Devices, Inc., proprietary process. These comparators are exceptionally versatile and easy to use. Features include an input range from $V_{EE} - 0.2\text{ V}$ to $V_{CC} + 0.2\text{ V}$, low noise, TTL-/CMOS-compatible output drivers, and adjustable hysteresis and/or shutdown inputs.

The device offers 40 ns propagation delay driving a 15 pF load with 10 mV overdrive on 500 μA typical supply current.

A flexible power supply scheme allows the devices to operate with a single +2.5 V positive supply and a -0.2 V to +3.0 V input signal range up to a +5.5 V positive supply with a -0.2 V to +5.7 V input signal range.

The TTL-/CMOS-compatible output stage is designed to drive up to 15 pF with full rated timing specifications and to degrade in a graceful and linear fashion as additional capacitance is added. The input stage of the comparator offers robust protection against large input overdrive, and the outputs do not phase reverse when the valid input signal range is exceeded. A programmable hysteresis feature is also provided.

The ADCMP609, available in an 8-lead MSOP package, features a shutdown pin and hysteresis control.

Features

Fully specified rail-to-rail at>

Input common-mode voltage from -0.2 V to $VCC + 0.2\text{ V}$

Low glitch TTL-/CMOS-compatible output stage

40 ns propagation delay

Low power 1 mW at 2.5 V

Shutdown pin

Programmable hysteresis

Power supply rejection > 60 dB

Application

High speed instrumentation

Clock and data signal restoration

Logic level shifting or translation

High speed line receivers

Threshold detection

Peak and zero-crossing detectors

High speed trigger circuitry

Pulse-width modulators

Current-/voltage-controlled oscillators

Data Sheet, Rev. A, 8/07

Related Products



[ADCMP573BCPZ](#)

Analog Devices, Inc
QFN



[AD790SQ](#)

Analog Devices, Inc
CDIP-8



[AD9696KR](#)

Analog Devices, Inc
SOP-8



[AD9687BD](#)

Analog Devices, Inc
DIP16



[AD96687BQ](#)

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CDIP-16



[AD790JRZ](#)

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SOIC-8



[AD790JN](#)

Analog Devices, Inc
PDIP-8



[AD9696TQ](#)

Analog Devices, Inc
CDIP-8