
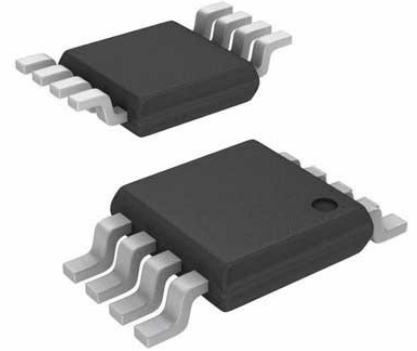


Comparator Single R-R I/O 5.5V 8-Pin MSOP Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	MSOP8
Product Type:	Linear Displacement Sensors
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADCMP600, ADCMP601, and ADCMP602 are very fast comparators fabricated on Analog Devices' proprietary XF2CB process. These comparators are exceptionally versatile and easy to use. Features include an input range from -0.5 V to $V_{CC} + 0.2\text{ V}$, low noise TTL-/CMOS-compatible output drivers, and latch inputs with adjustable hysteresis and/or shutdown inputs.

The devices offer 5 ns propagation delay with 10 mV overdrive on 3 mA typical supply current.

A flexible power supply scheme allows the devices to operate with a single +2.5 V positive supply and a -0.5 V to +2.8 V input signal range up to a +5.5 V positive supply with a -0.5 V to +5.8 V input signal range. Split input/output supplies with no sequencing restrictions on the ADCMP602 support a wide input signal range while still allowing independent output swing control and power savings.

The TTL-/CMOS-compatible output stage is designed to drive up to 5 pF with full timing specs and to degrade in a graceful and linear fashion as additional capacitance is added. The comparator input stage offers robust protection against large input overdrive, and the outputs do not phase reverse when the valid input signal range is exceeded. High speed latch and programmable hysteresis features are also provided with a unique single-pin control option.

The ADCMP600 is available in both 5-lead SC70 and SOT-23 packages, the ADCMP601 is available in a 6-lead SC70 package, and the ADCMP602 is available in 8-lead MSOP and LSCFP packages.

Applications

- High Speed Instrumentation
- Clock and Data Signal Restoration
- Logic Level Shifting or Translation
- Pulse Spectroscopy
- High Speed Line Receivers
- Threshold Detection
- Peak and Zero-crossing Detectors
- High Speed Trigger Circuitry
- Pulse-width Modulators
- Current-/voltage-controlled Oscillators
- Automatic Test Equipment (ATE)

Key Features

Low glitch

Shutdown pin

Single-pin control for programmable hysteresis and latch

>50dB Power supply rejection

Improved replacement for MAX999

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Threshold Detection

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High Speed Trigger Circuitry

Pulse-width Modulators

Current-/voltage-controlled Oscillators

Automatic Test Equipment (ATE)

Recommended For You

AD8309ARUZ

Analog Devices, Inc

TSSOP16

AD524BDZ

Analog Devices, Inc

CDIP-16

AD8221BR

Analog Devices, Inc

SOP-8

AD8221ARZ

Analog Devices, Inc

SOP8

AD627BRZ

Analog Devices, Inc

SOP8

AD622ANZ

Analog Devices, Inc

DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc

LFCSP24

AD8034ARZ

Analog Devices, Inc

SOP8

AD8561ARZ

Analog Devices, Inc

SOP8

AD633JRZ

Analog Devices, Inc

SOP8

AD632AH

Analog Devices, Inc

CAN10

AD8422BRZ

Analog Devices, Inc

SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc

SC70-5

AD620BN

Analog Devices, Inc

DIP8

AD620BR

Analog Devices, Inc

SOP