

ADCMP604BKSZ-REEL7

Data Sheet

Rail-to-Rail, Very Fast, 2.5 V to 5.5 V, Single-Supply LVDS Comparator in a 6-lead SC70 Package.; Package: SC70; No of Pins: 6; Temperature Range: Industrial

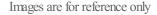
Manufacturers <u>Analog Devices, Inc</u>

Package/Case SC70-6

Product Type Comparator ICs

RoHS Rohs

Lifecycle



Please submit RFQ for ADCMP604BKSZ-REEL7 or Fmailto:scales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The ADCMP604/ADCMP605 are very fast comparators fabricated on the Analog Devices, Inc. proprietary XFCB2 process. These comparators are exceptionally versatile and easy to use. Features include an input range from VEE - 0.5 V to VCCI + 0.2 V, low noise, LVDS-compatible output drivers, and TTL/CMOS latch inputs with adjustable hysteresis and/or shut-down inputs.

The devices offer 1.5 ns propagation delays with 1 ps rms random jitter (RJ). Overdrive and slew rate dispersion are typically less than 50 ps.A flexible power supply scheme allows the devices to operate with a single 2.5 V positive supply and a -0.5 V to +2.7 V input signal range up to a 5.5 V positive supply with a -0.5 V to +5.7 V input signal range. Split input/output supplies, with no sequencing restrictions on the ADCMP605, support a wide input signal range with greatly reduced power consumption.

The LVDS-compatible output stage is designed to drive any standard LVDS input. 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 in a unique single-pin control option.

The ADCMP604 is available in a 6-lead SC70 package, and the ADCMP605 is available in a 12-lead LFCSP.

Features

Fully specified rail to rail at>

Input common-mode voltage from -0.2~V to VCCI+0.2~V

Low glitch LVDS-compatible output stage

1.6 ns propagation delay

37 mW at 2.5 V

Shutdown pin

Single-pin control for programmable hysteresis and latch

Power supply rejection > 60 dB

Application

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)

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

Analog Devices, Inc

CDIP-16



AD790JRZ

Analog Devices, Inc

SOIC-8



<u>AD790JN</u>

Analog Devices, Inc

PDIP-8



AD9696TQ

Analog Devices, Inc

CDIP-8