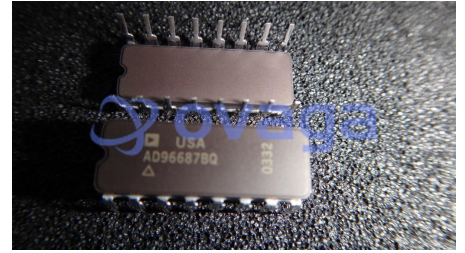


VOLTAGE COMPARATOR IC, Comparator Type:High Speed, No. of Comparators:2, Response Time:2.5ns, Supply Voltage Range:-, IC Output Type:Digital, Operating Temperature Min:-25 C, MSL:-



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	CDIP-16
Product Type	Comparator ICs
RoHS	
Lifecycle	

Please submit RFQ for AD96687BQ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD96685 and AD96687 are ultrafast voltage comparators. The AD96685 is a single comparator with 2.5 ns propagation delay; the AD96687 is an equally fast dual comparator. Both devices feature 50 ps propagation delay dispersion which is a particularly important characteristic of high speed comparators. It is a measure of the difference in propagation delay under differing overdrive conditions.

A fast, high precision differential input stage permits consistent propagation delay with a wide variety of signals in the common-mode range from -2.5 V to +5 V. Outputs are complementary digital signals fully compatible with ECL 10 K and 10 KH logic families. The outputs provide sufficient drive current to directly drive transmission lines terminated in 50 Ohm to -2 V. A level sensitive latch input is included which permits tracking, track-hold, or sample-hold modes of operation.

The AD96685 and AD96687 are available in both industrial, -25°C to +85°C, and military temperature ranges. Industrial range devices are available in 16-pin DIP, SOIC, and 20-lead PLCC; additionally, the AD96685 is available in a 10-pin, TO-100 metal can.

Features

Fast: 2.5 ns Propagation Delay

Low Power: 118 mW per Comparator

Packages: DIP, SOIC, PLCC

Power Supplies: +5 V, -5.2 V

Logic Compatibility: ECL

50 ps Delay Dispersion

Application

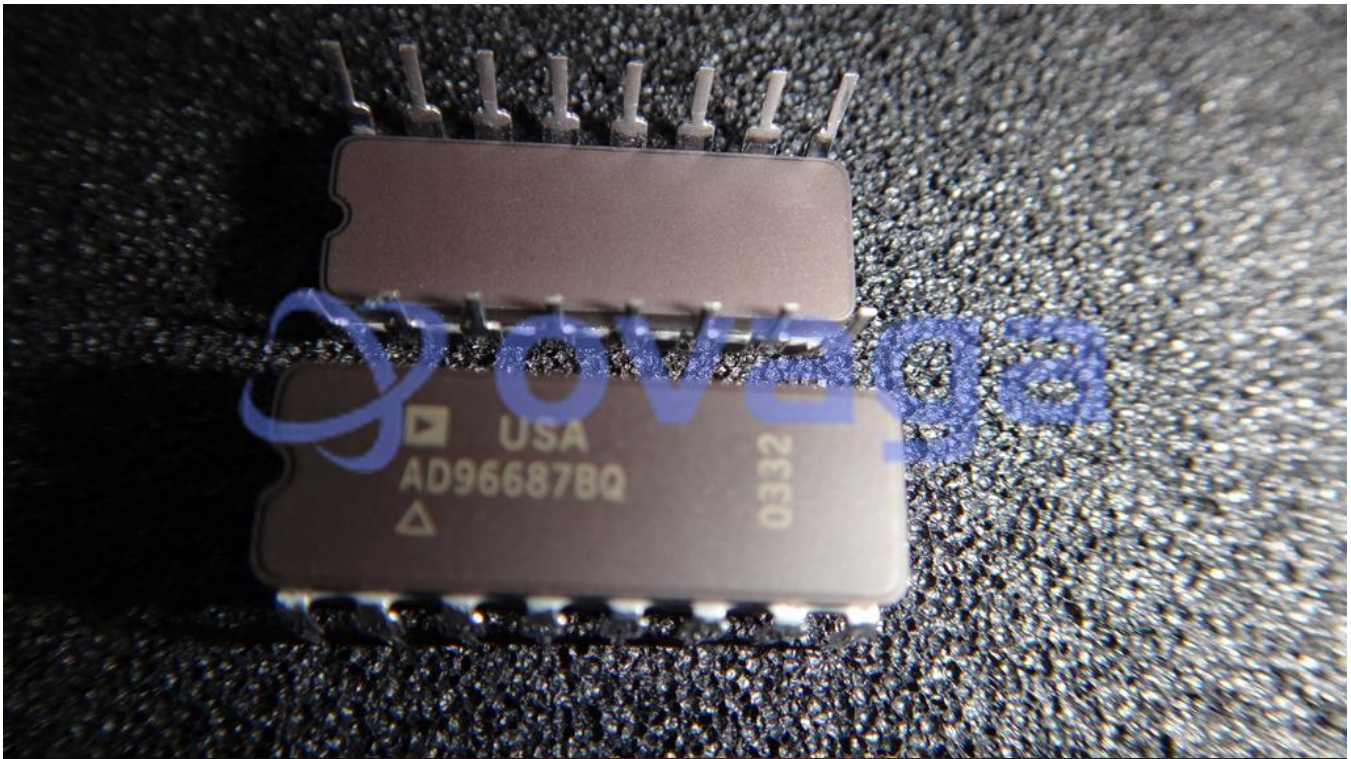
High Speed Triggers

High Speed Line Receivers

Threshold Detectors

Window Comparators

Peak Detectors



Related Products



[ADCMP573BCPZ](#)

Analog Devices, Inc
QFN



[AD790SQ](#)

Analog Devices, Inc
CDIP-8



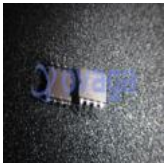
[AD790JRZ](#)

Analog Devices, Inc
SOIC-8



[AD790JN](#)

Analog Devices, Inc
PDIP-8



[AD9696TQ](#)

Analog Devices, Inc
CDIP-8



[AD9696KR](#)

Analog Devices, Inc
SOP-8



[AD9687BD](#)

Analog Devices, Inc
DIP16



[AD8561AR](#)

Analog Devices, Inc
SOP-8