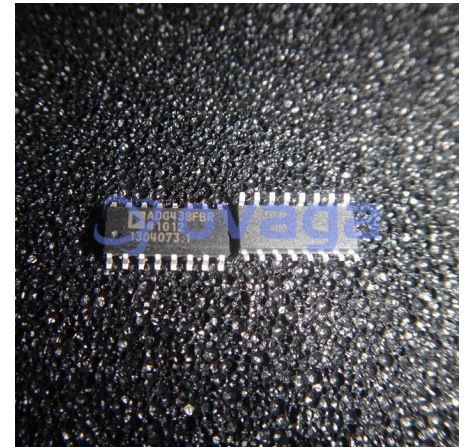


±15 V, Fault Protected, 8-Channel High Performance Analog Multiplexer; Package: SOIC; No of Pins: 16; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-16
Product Type	Interface - Switches, Multiplexers, Demultiplexers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG438FBRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADG438F switches one of eight inputs to a common output as determined by the 3-bit binary address lines, A0, A1, and A2. The ADG439F switches one of four differential inputs to a common differential output as determined by the 2-bit binary address lines, A0 and A1. An EN input on each device is used to enable or disable the device. When disabled, all channels are switched off.

### Product Highlights

**Fault Protection.** The ADG438F and ADG439F can with-stand continuous voltage inputs up to -40 V or +55 V. When a fault occurs due to the power supplies being turned off, all the channels are turned off and only a leakage current of a few nanoamperes flows.

On channel saturates while fault exists.

Low RON.

Fast Switching Times.

**Break-Before-Make Switching.** Switches are guaranteed break-before-make so that input signals are protected against momentary shorting.

**Trench Isolation Eliminates Latch-Up.** A dielectric trench separates the p-channel and n-channel MOSFETs thereby preventing latch-up.

**Improved Off Isolation.** Trench isolation enhances the channel-to-channel isolation of the ADG438F/ADG439F.

## Features

All switches off with power supply off

Analog Output of ON Channel Clamped within Power Supplies If an Overvoltage Occurs

Latch-up proof construction

Fault and Overvoltage Protection (-40 V, + 55 V)

Fast switching times

tON 250 ns max

tOFF 150 ns max

Break-Before-Make Switching Action

TTL and CMOS Compatible inputs

## Application

Data acquisition systems

Industrial and process control systems

Avionics test equipment

Signal routing between systems

High reliability control systems





### Related Products



#### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



#### [AD8170AR](#)

Analog Devices, Inc  
SOP8



#### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



#### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



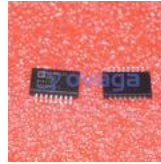
[ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



[ADUM4160BRIZ](#)

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SOIC-16