

Analog Multiplexer, 4:1, 4 Circuits, 9.7 mA, $\pm 4V$ to $\pm 6V$, SOIC-14

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-14
Product Type	Interface - Specialized
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8174ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8170(2:1) and AD8174(4:1) are very high speed buffered multiplexers. These multiplexers offer an internal current feedback output amplifier whose gain can be programmed via external resistors and is capable of delivering 50 mA of output current. They offer -3dB signal bandwidth of 250 MHz and slew rate of greater than 1000 V/ μ s. Additionally, the AD8170 and AD8174 have excellent video specifications with low differential gain and differential phase error of 0.02% and 0.05° and 0.1 dB flatness out to 85 MHz. With a low 70 dB of crosstalk and better than 82 dB isolation, these devices are useful in many high speed applications. These are low power devices consuming only 9.7 mA from a ± 5 V supply.

The AD8174 offers a high speed disable feature allowing the output to be put into a high impedance state for cascading stages so that the off channels do not load the output bus. Additionally, the AD8174 can be shut down (SD) when not in use to minimize power consumption.

An evaluation board is available for this product and may be ordered using the following product number: AD8170-EB and AD8174-EB. Schematic and layout for this evaluation board is contained in the product datasheet.

Features

Fully Buffered Inputs and Outputs

Fast Channel Switching: 10 ns

Internal Current Feedback Output Amplifier High Output Drive: 50 mA Flexible Gain Setting via External Resistor(s)

High Speed 250 MHz Bandwidth, >

Low Power: < 10 mA

Excellent Video Specifications = +2) Gain Flatness of 0.1 dB Beyond 80 MHz 0.02% Differential Gain Error 0.05° Differential Phase Error

Low Crosstalk of -78 dB @ 5 MHz

High Disable Isolation of -88 dB @ 5 MHz

High Shutdown Isolation of -92 dB @ 5 MHz

Low Cost

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](#)

Analog Devices, Inc
SOIC-16