

Wideband 2.5 GHz, 37 dB Isolation at 1 GHz, CMOS 1.65 V to 2.75 V, 4:1 Mux/SP4T

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-20
Product Type	RF Switch ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG904BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG904 and ADG904-R are wideband analog 4:1 multiplexers that use a CMOS process to provide high isolation and low insertion loss to 1 GHz. The ADG904 is an absorptive/matched mux with 50 Ω terminated shunt legs; the ADG904-R is a reflective mux. These devices are designed such that the isolation is high over the dc to 1 GHz frequency range.

The ADG904 and ADG904-R switch one of four inputs to a common output, RFC, as determined by the 3-bit binary address lines A0, A1, and EN. A Logic 1 on the EN pin disables the device.

The parts have on-board CMOS control logic, which eliminates the need for external control circuitry. The control inputs are both CMOS and LVTTTL compatible. The low power consumption of these devices makes them ideally suited for wireless applications and general-purpose high frequency switching.

Product Highlights

-37 dB off isolation at 1 GHz

1.1 dB insertion loss at 1 GHz

20-lead TSSOP/LFCSP packages

Features

Wideband switch: -3 dB at 2.5 GHz

ADG904: absorptive 4:1 mux/SP4T

ADG904-R: reflective 4:1 mux/SP4T

High off isolation (37 dB at 1 GHz)

Low insertion loss (1.1 dB dc to 1 GHz)

Single 1.65 V to 2.75 V power supply

CMOS/LVTTL control logic

20-lead TSSOP and 4 mm × 4 mm LFCSP packages

Low power consumption (1 μA maximum)

Qualified for automotive applications

ADG904-EP supports defense and aerospace applications (AQEC standard)

Download the

Military temperature range: -55°C to +125°C

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Enhanced product change notification

Qualification data available on request

V62/16614 DSCC Drawing Number

Application

Wireless communications

General-purpose RF switching

Dual-band applications

High speed filter selection

Digital transceiver front end switch

IF switching

Tuner modules

Antenna diversity switching



Related Products



[ADV7181CBSTZ](#)
Analog Devices, Inc
LQFP-64



[AD724JR](#)
Analog Devices, Inc
SOIC-16



[ADV7391WBCPZ](#)
Analog Devices, Inc
LFSCP-3



[AD8170AR](#)
Analog Devices, Inc
SOP8



[ADV7393BCPZ](#)
Analog Devices, Inc
LFCSP-VQ-40



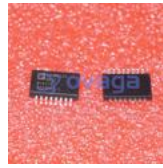
[ADV7390BCPZ](#)
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[ADUM4160BRIZ](#)

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SOIC-16