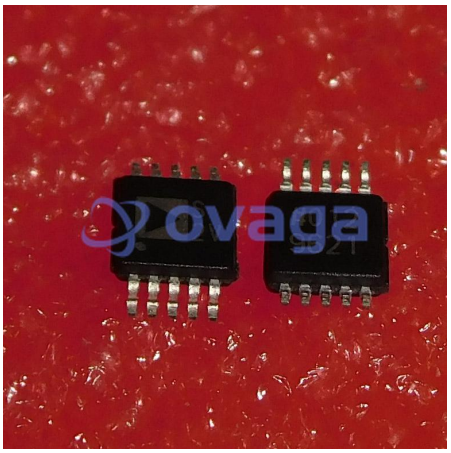
ADG1421BRMZ

Data Sheet

Analogue Switch, Dual Channel, 2 Channels, SPST, 2.4 ohm, ± 5V, 12V, ± 15V, MSOP, 10 Pins

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-10
Product Type	Analog Switch ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG1421BRMZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADG1421/ADG1422/ADG1423 contain two independent single-pole/single-throw (SPST) switches. The ADG1421 and ADG1422 differ only in that the digital control logic is inverted. The ADG1421 switches are turned on with Logic 1 on the appropriate control input, and Logic 0 is required for the ADG1422. The ADG1423 has one switch with digital control logic similar to that of the ADG1421; the logic is inverted on the other switch. The ADG1423 exhibits break-before-make switching action for use in multiplexer applications. Each switch conducts equally well in both directions when on and has an input signal range that extends to the supplies. In the off condition, signal levels up to the supplies are blocked. The iCMOS® (industrial CMOS) modular manufacturing process combines high voltage, complementary metal-oxide semiconductor (CMOS) and bipolar technologies. It enables the development of a wide range of high performance analog ICs capable of 33 V operation in a footprint that no other generation of high voltage parts has achieved. Unlike analog ICs using conventional CMOS processes, iCMOS components can tolerate high supply voltages while providing increased performance, dramatically lower power consumption, and reduced package size. The on resistance profile is very flat over the full analog input range ensuring excellent linearity and low distortion when switching audio signals. The iCMOS construction ensures ultralow power dissipation, making the part ideally suited for portable and battery-powered instruments. PRODUCT HIGHLIGHTS

2.4 Ω maximum on resistance at 25°C.

Minimum distortion.

3 V logic-compatible digital inputs: = 0.8 V.

No VL logic power supply required.

10-lead MSOP and 10-lead, 3 mm × 3 mm LFCSP packages.

APPLICATION
Automatic test equipment

Data acquisition systems

Relay replacements

Battery-powered systems

Sample-and-hold systems

Audio signal routing

Video signal routing

Communication systems

Features

2.1 Ω maximum on resistance

0.5 Ω maximum on resistance flatness

Up to 250 mA continuous current

Fully specified at +12 V, ±15 V,±5 V

No VL supply required

3 V logic-compatible inputs

Rail-to-rail operation

10-lead MSOP and 10-lead, 3 mm × 3 mm LFCSP packages

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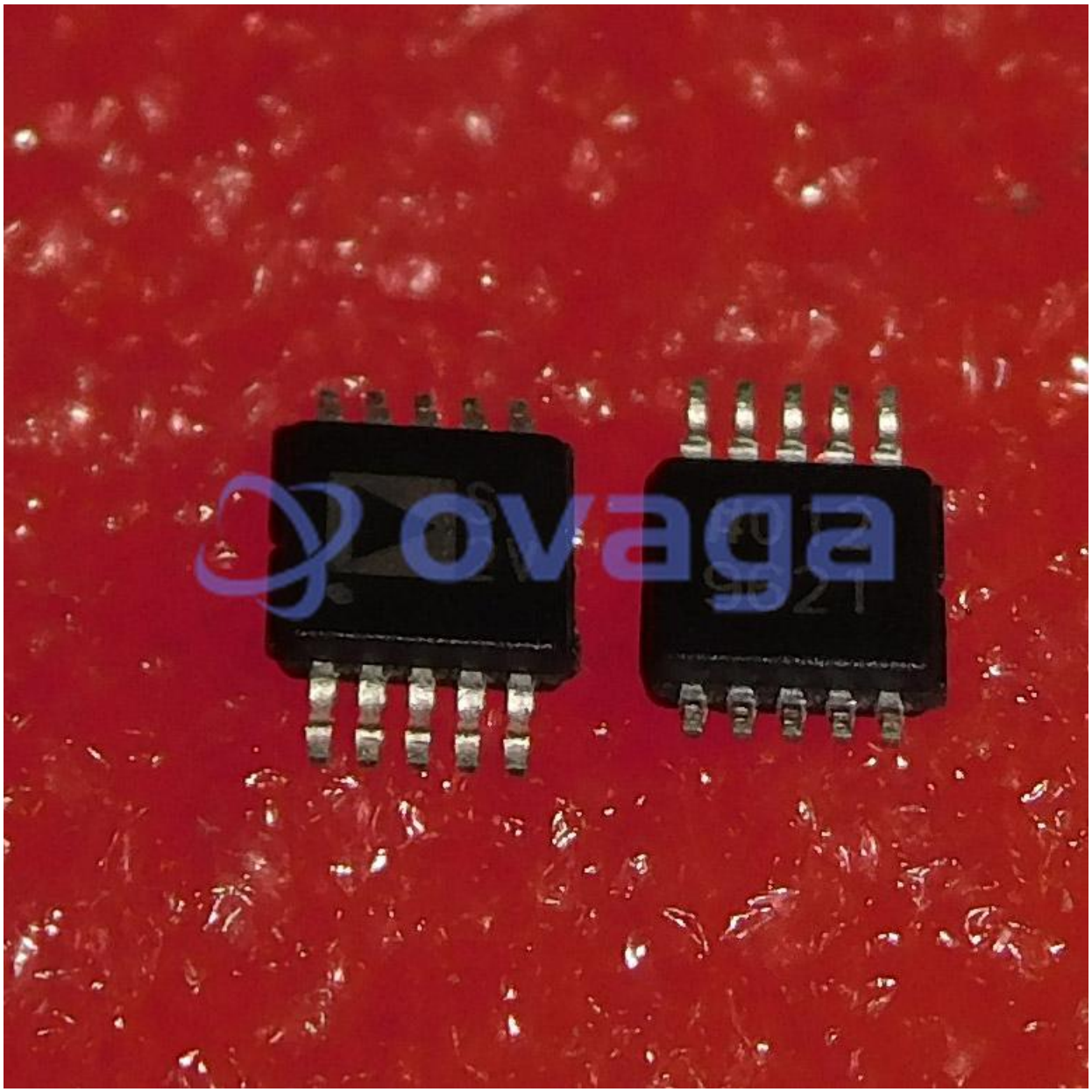


Related Products

[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](#)

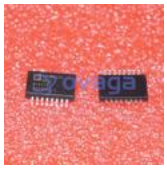
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

SOIC-16