

32:1 Analog Multiplexer IC, Dual, 4 ohm, 1.8V to 5.5V, TQFP-48

Manufacturers	Analog Devices, Inc
Package/Case	TQFP-48
Product Type	Interface - Switches, Multiplexers, Demultiplexers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG726BSUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG726/ADG732 are monolithic, complementary metal oxide semiconductor (CMOS) 32-channel and dual 16-channel analog multiplexers. The ADG732 switches one of 32 inputs (S1 to S32) to a common output, D, as determined by the 5-bit binary address lines A0, A1, A2, A3, and A4. The ADG726 switches one of 16 inputs as determined by the 4-bit binary address lines A0, A1, A2, and A3.

On-chip latches facilitate microprocessor interfacing. The ADG726 may also be configured for differential operation by tying CSA and CSB together. An EN input is used to enable or disable the devices. When disabled, all channels are switched off.

These multiplexers are designed on an enhanced submicron process that provides low power dissipation yet gives high switching speed, very low on resistance, and leakage currents. They operate from a single supply of +1.8 V to +5.5 V and a ± 2.5 V dual supply, making them ideally suited to a variety of applications. On resistance is in the region of a few ohms and is closely matched between switches and very flat over the full signal range. These devices can operate equally well as either multiplexers or demultiplexers and have an input signal range that extends to the supplies. In the off condition, signal levels up to the supplies are blocked. All channels exhibit break-before-make switching action, preventing momentary shorting when switching channels.

The ADG726/ADG732 are available in a 48-lead LFCSP or a 48-lead TQFP. For functionally equivalent devices with serial interface, see the ADG725/ADG731.

Product Highlights

+1.8 V to +5.5 V single- or ± 2.5 V dual-supply operation. These devices are specified and guaranteed with +5 V $\pm 10\%$, +3 V $\pm 10\%$ single-supply, and ± 2.5 V $\pm 10\%$ dual-supply rails.

An on resistance of 4 Ω .

Guaranteed break-before-make switching action.

48-lead LFCSP package or 48-lead TQFP package.

Features

1.8 V to 5.5 V single-supply operation

On resistance: 4 Ω at 25°C (+5 V single supply/ \pm 2.5 V dual supply)

0.5 Ω on-resistance flatness at 25°C (+5 V single supply/ \pm 2.5 V dual supply)

Rail-to-rail operation

Transition times: 23 ns typical at 25°C

Single 32-to-1 channel multiplexer

Dual/differential 16-to-1 channel multiplexer

TTL-/CMOS-compatible inputs

48-lead TQFP or 48-lead, 7 mm \times 7 mm LFCSP

Application

Optical applications

Data acquisition systems

Communication systems

Relay replacement

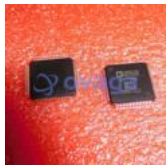
Audio and video switching

Battery-powered systems

Medical instrumentation

Automatic test equipment (ATE)

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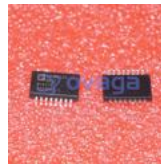
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