

Analog Switch Quad SPDT 20-Pin SOIC W Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-20
Product Type	Interface - Switches, Multiplexers, Demultiplexers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADG333ABRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG333A is a monolithic complementary metal-oxide semiconductor (CMOS) device comprising four independently selectable single-pole, double-throw (SPDT) switches. It is designed on a linear compatible CMOS (LC2MOS) process, which provides low power dissipation yet achieves a high switching speed and a low on resistance.

The on-resistance profile is very flat over the full analog input range, ensuring good linearity and low distortion when switching audio signals. High switching speed also makes the device suitable for video signal switching. CMOS construction ensures ultra-low power dissipation, making the device ideally suited for portable, battery-powered instruments.

When they are on, each switch conducts equally well in both directions and has an input signal range that extends to the power supplies. In the off condition, signal levels up to the supplies are blocked. All switches exhibit break-before-make switching action for use in multiplexer applications. Low charge inject is inherent in the design.

Product Highlights

Extended signal range. The ADG333A is fabricated on an enhanced LC2MOS process, giving an increased signal range which extends to the supply rails.

Low power dissipation.

Low RON.

Single-supply operation. For applications in which the analog signal is unipolar, the ADG333A can be operated from a single rail power supply. The device is fully specified with a single 12 V supply.

Features

44 V supply maximum ratings

VSS to VDD analog signal range

Low on resistance (45 Ω max)

Low Δ RON (5 Ω max)

Low RON match (4 Ω max)

Low power dissipation

Fast switching times

tON < 175 ns

tOFF < 145 ns

Low leakage currents (5 nA max)

Low charge injection (10 pC max)

Break-before-make switching action

Application

Audio and video switching

Battery-powered systems

Test equipment

Communication systems

Related Products



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LQFP-64



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