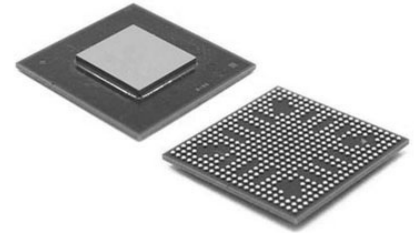


0 Hz to 4.5 GHz, 40 dB Off Isolation at 1 GHz, 17 dBm P1dB at 1 GHz SPST Switches

Manufacturers	Analog Devices, Inc
Package/Case	8-Lead LFCSP (3mm x 3mm w/ EP)
Product Type	Switches
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADG901SCPZ-EP or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG901/ADG902 are wideband switches that use a complementary metal-oxide semiconductor (CMOS) process to provide high isolation and low insertion loss to 1 GHz. The ADG901 is an absorptive (matched) switch with 50 Ω terminated shunt legs, while the ADG902 is a reflective switch. These devices are designed such that the isolation is high over the dc to 1 GHz frequency range. These switches enable the user to pass dc signals up to 0.5 V without the use of a dc blocking capacitor. They have on-board CMOS control logic, thus eliminating the need for external controlling circuitry. The control inputs are both CMOS and LVTTTL compatible. The low power consumption of these CMOS devices makes them ideally suited to wireless applications and general-purpose high frequency switching.

Product Highlights

40 dB Off Isolation at 1 GHz

0.8 dB Insertion Loss at 1 GHz

17 dBm P1dB at 1 GHz

Features

Absorptive switch

Enables user to pass dc signals up to 0.5 V without dc blocking capacitor

Operational from 0 Hz up to 4.5 GHz at -3 dB frequency 40 dB off isolation at 1 GHz typical 0.8 dB insertion loss at 1 GHz typical 17 dBm P1dB at 1 GHz typical

Available in 3 mm \times 3 mm, 8-lead MSOP and 8-lead LFCSP

CMOS/LVTTL control logic

Specified at 1.65 V to 2.75 V

ADG901-EP supports defense and aerospace applications (AQEC standard)

Download (pdf)

Military temperature range: -55°C to $+125^{\circ}\text{C}$

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Enhanced product change notification

Qualification data available on request

V62/16613 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 list

Related Products



[ADG467BRSZ](#)

Analog Devices, Inc
SSOP-20



[ADG201ABQ](#)

Analog Devices, Inc
DIP-16



[ADP3050AR-3.3](#)

Analog Devices, Inc
SOP-8



[ADG512BR](#)

Analog Devices, Inc
SOP-16



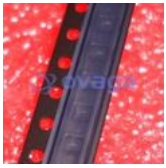
[ADG467BRSZ-REEL](#)

Analog Devices, Inc
SSOP-20



[ADG888BCBZ-REEL7](#)

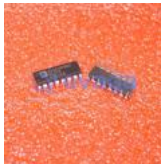
Analog Devices, Inc
16 ball WLCSP



[ADG852BCPZ-REEL7](#)

Analog Devices, Inc

LFCSP10



[ADG438FBNZ](#)

Analog Devices, Inc

DIP16