
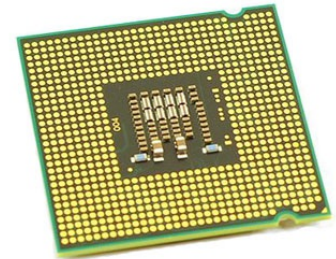


RF Switch SP4T 0.009MHz to 44GHz 36dB 24-Pin LGA EP

Manufacturer:	Analog Devices, Inc
Package/Case:	LGA
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADRF5043 is a nonreflective, SP4T switch manufactured in the silicon on insulator (SOI) process. The ADRF5043 operates from 9 kHz to 44 GHz with an insertion loss of lower than 2.5 dB and an isolation of higher than 36 dB. The device has a RF input power handling capability of 24 dBm for both through and terminated paths. The ADRF5043 requires a dual-supply voltage of +3.3 V and ?3.3 V. The device employs CMOS- and low voltage transistor to transistor logic (LVTTTL)-compatible controls. The ADRF5043 has enable and logic select controls to feature all off state and port mirroring, respectively. The ADRF5043 is pin compatible with the ADRF5042 fast switching version, which operates from 100 MHz to 44 GHz. The ADRF5043 comes in a 24-terminal, 3 mm × 3 mm, RoHS compliant, land grid array (LGA) package and can operate from ?40°C to +105°C.

Key Features

Ultrawideband frequency range: 9 kHz to 44 GHz

Nonreflective 50 Ω design

Low insertion loss:

1.5 dB at 18 GHz

2.4 dB at 40 GHz

2.5 dB at 44 GHz

High isolation:

44 dB at 18 GHz

39 dB at 40 GHz

36 dB at 44 GHz

High input linearity:

P0.1dB: 26 dBm typical

IP3: 48 dBm typical

High power handling

24 dBm through path

24 dBm terminated path

All off state control

Logic select control

No low frequency spurs

Settling time (0.1 dB final RF output): 6 μ s

24-terminal, 3 mm \times 3 mm LGA package

Pin compatible with ADRF5042, fast switching version

Application

Industrial Scanners

Test instrumentation

Cellular infrastructure—millimeterwave (mmWave) 5G

Military radios, radars, electronic counter measures (ECMs)

Microwave radios and very small aperture terminals (VSATs)

Recommended For You

ADF4153BCPZ

Analog Devices, Inc

QFN

ADF5355BCPZ

Analog Devices, Inc

LFCSP32

AD8318ACPZ

Analog Devices, Inc

LFCSP

AD6620ASZ

Analog Devices, Inc

QFP

ADF4107BCPZ

Analog Devices, Inc

QFN

ADL5513ACPZ-R7

Analog Devices, Inc

LFCSP-16

AD8319ACPZ

Analog Devices, Inc

LFCSP

ADRF6755ACPZ

Analog Devices, Inc

QFN

ADL5535ARKZ-R7

Analog Devices, Inc

SOT89

AD608AR

Analog Devices, Inc

SOP16

ADF4107BRUZ-REEL7

Analog Devices, Inc

TSSOP16

ADRF6780ACPZN

Analog Devices, Inc

QFN

AD8317ACPZ

Analog Devices, Inc

LFCSP

AD608ARZ

Analog Devices, Inc

SOP16

AD8318ACPZ-REEL7

Analog Devices, Inc

LFCSP