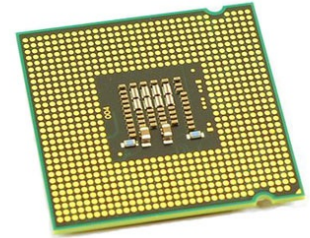


## RF Switch SP4T 100MHz to 44GHz 31dB 20-Pin LGA EP Cut Tape



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** LGA20

**Product Type:** Switches

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The ADRF5046 is a reflective, single-pole four-throw (SP4T) switch manufactured in the silicon process. The ADRF5046 operates from 100 MHz to 44 GHz with insertion loss of lower than 3.0 dB and isolation of higher than 31 dB. The device has a radio frequency (RF) input power handling capability of 27 dBm for both the through path and hot switching. The ADRF5046 draws a low current of 3  $\mu$ A on the positive supply of +3.3 V, and 110  $\mu$ A on the negative supply of -3.3 V. The device provides complementary metal-oxide semiconductor (CMOS)/low voltage transistor-transistor logic (LVTTL)-compatible controls. The ADRF5046 comes in a 20-terminal, 3 mm  $\times$  3 mm, RoHScompliant, land grid array (LGA) package and can operate from -40°C to +105°C.

## Key Features

Ultrawideband frequency range: 100 MHz to 44 GHz

Reflective design

Low insertion loss:

1.5 dB at 18 GHz

2.5 dB at 40 GHz

3.0 dB at 44 GHz

High isolation:

46 dB at 18 GHz

33 dB at 40 GHz

31 dB at 44 GHz

High input linearity:

P0.1dB: 27.5 dBm typical

IP3: 50 dBm typical

High RF input power handling

Through path: 27 dBm

Hot switching: 27 dBm

No low frequency spurious

0.1 dB RF settling time: 50 ns

20-terminal, 3 mm × 3 mm, RoHS-compliant, LGA package

## Application

Industrial Scanner

Test and instrumentation

Cellular Infrastructure – mmWave 5G

Military radios, radars, electronic counter measures (ECMs)

Microwave radios and very small aperture terminals (VSATs)

## Recommended For You

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### 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