
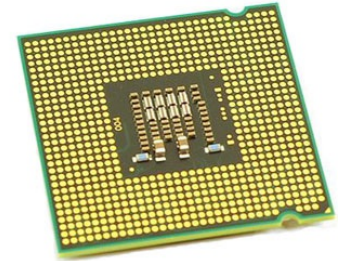


## 4Bit 2dBStep 30dB 40GHz 16-Pin LGA EP Cut Tape

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	LGA-16
<b>Product Type:</b>	RF Integrated Circuits
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The ADRF5731 is a silicon, 4-bit digital attenuator with a 30 dB attenuation control range in 2 dB steps.

This device operates from 100 MHz to 40 GHz with better than 3.5 dB of insertion loss. The ATTIN port of the ADRF5720 has a radio frequency (RF) input power handling capability of 26 dBm average and 30 dBm peak for all states.

The ADRF5731 requires a dual supply voltage of +3.3 V and -3.3 V. The device features serial peripheral interface (SPI), parallel mode control, and complementary metal-oxide semiconductor (CMOS)-low voltage transistor to transistor logic (LVTTL)-compatible controls.

The ADRF5731 is pin compatible with the ADRF5721 low frequency cutoff version, which operates from 9 kHz to 40 GHz.

The ADRF5731 RF ports are designed to match a characteristic impedance of 50 Ω.

The ADRF5731 comes in a 16-terminal, 2.5 mm × 2.5 mm, RoHS compliant, land grid array (LGA) package and operates from -40°C to +105°C.

## Key Features

Ultrawideband frequency range: 100 MHz to 40 GHz

Attenuation range: 2 dB steps to 30 dB

Low insertion loss

1.7 dB to 18 GHz

2.2 dB to 26 GHz

3.5 dB to 40 GHz

Attenuation accuracy

Typical step error

High input linearity

P0.1dB insertion loss state: 30 dBm

P0.1dB other attenuation states: 26 dBm

IP3: 50 dBm typical

High RF input power handling: 26 dBm average, 30 dBm peak

Tight distribution in relative phase

No low frequency switching spurs

SPI and parallel mode control, CMOS/LVTTL compatible

RF amplitude settling time (0.1 dB of final RF output): 230 ns

2.5 mm × 2.5 mm, 16-terminal LGA package

Pin compatible with , low frequency cutoff version

## Application

Industrial scanners

Test and instrumentation

Cellular infrastructure: 5G millimeter wave

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