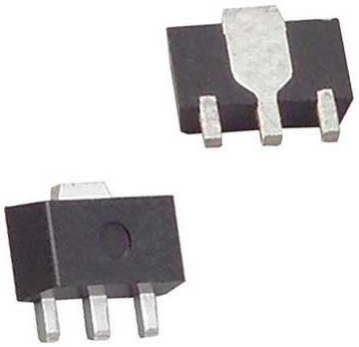
ADL5536ARKZ-R7

RF Amp Single Linear Amp 1GHz 5.5V 4-Pin(3+Tab) SOT-89 T/R



Manufacturer:	Analog Devices, Inc
Package/Case:	SOT89
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The ADL5536 is a 20 dB linear amplifier that operates atfrequencies up to 1 GHz. The device can be used in a widevariety of cellular, CATV, military, and instrumentationequipment.

The ADL5536 provides the highest dynamic range availablefrom an internally matched IF gain block. This is accomplishedby providing extremely low noise figures and very high OIP3specifications simultaneously across the entire 1 GHz frequencyrange. The ADL5536 also provides extremely flat gain and P1dBover frequency, which are stable over temperature, power supply,and from device to device.

The device is internally matched to 50 Ω at the input and output,making the ADL5536 very easy to implement in a wide varietyof applications. Only input/output ac coupling capacitors, powersupply decoupling capacitors, and an external inductor arerequired for operation.

The ADL5536 is fabricated on a GaAs HBT process and has anESD rating of ±2 kV (Class 2). The device is assembled in anMSL-1 rated SOT-89 package that uses an exposed paddle forexcellent thermal impedance.

The ADL5536 consumes only 105 mA on a single 5 V supplyand is fully specified for operation from −40°C to +85°C.The ADL5536 is also pin-compatible with the 16 dB gainADL5535. Fully populated evaluation boards are availablefor each amplifier.

Key Features

Fixed gain of 20 dB

Operation from 20 MHz to 1.0 GHz

Input and output internally matched to 50 Ω

Integrated bias control circuit

OIP3

45.0 dBm at 190 MHz

49.0 dBm at 380 MHz

Noise figure

2.6 dB at 190 MHz

2.7 dB at 380 MHz

P1dB of 19.6 dBm at 190 MHz

Single 5 V power supply

Low quiescent current of 105 mA

MSL-1 rated SOT-89 package

ESD rating of ±2 kV (Class 2)

Pin-compatible with the 16 dB gain ADL5535

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

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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