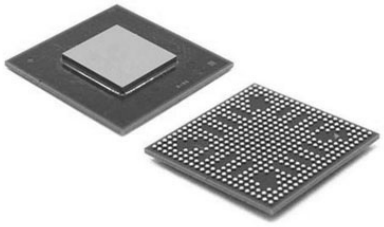
ADL5542ACPZ-R7

RF Amp Single Linear Amp 6GHz 5.5V 8-Pin LFCSP EP T/R

Manufacturer:	Analog Devices, Inc
Package/Case:	LFCSP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The ADL5542 is a broadband 20 dB linear amplifier that operates at frequencies up to 6 GHz. The device can be used in a wide variety of CATV, cellular, and instrumentation equipment.

The ADL5542 provides a gain of 20 dB that is stable over frequency, temperature, power supply, and from device to device. The device is internally matched to 50 Ω with an input return loss of 10 dB or better, up to 6 GHz. Only input/output ac coupling capacitors, power supply decoupling capacitors, and an external inductor are required for operation.

The ADL5542 is fabricated on an InGaP HBT process and has an ESD rating of 1 kV (Class 1C). The device is packaged in a 3 mm × 3 mm LFCSP that uses an exposed paddle for excellent thermal impedance.

The ADL5542 consumes 93 mA on a single 5 V supply and is fully specified for operation from −40°C to +85°C.

A fully populated RoHS-compliant evaluation board is available.

The ADL5541 is a companion part that offers a gain of 15 dB in a pin-compatible package.

Key Features

Input/output internally matched to 50R

Integrated bias control circuit

40dBm at 900MHz Output IP3

20.6dB at 900MHz Output 1dB compression

Noise figure of 3dB at 900MHz

Single 5V power supply

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

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LFCSP