


Op Amp Single High Speed Amplifier $\pm 6V/12V$ 8-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP-8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The OPA691 sets a new level of performance for broadband current feedback op amps. Operating on a very low 5.1mA supply current, the OPA691 offers a slew rate and output power normally associated with a much higher supply current. A new output stage architecture delivers a high output current with minimal voltage headroom and crossover distortion. This gives exceptional single-supply operation. Using a single +5V supply, the OPA691 can deliver a 1V to 4V output swing with over 150mA drive current and 190MHz bandwidth. This combination of features makes the OPA691 an ideal RGB line driver or single-supply Analog-to-Digital Converter (ADC) input driver.

The OPA691's low 5.1mA supply current is precisely trimmed at 25°C. This trim, along with low drift over-temperature, ensures lower maximum supply current than competing products. System power may be further reduced by using the optional disable control pin. Leaving this disable pin open, or holding it HIGH, gives normal operation. If pulled LOW, the OPA691 supply current drops to less than 150µA while the output goes into a high impedance state. This feature may be used for power savings.

Key Features

FLEXIBLE SUPPLY RANGE: +5V to +12V Single-Supply $\pm 2.5V$ to $\pm 6V$ Dual-Supply

UNITY-GAIN STABLE: 280MHz (G = 1)

HIGH OUTPUT CURRENT: 190mA

OUTPUT VOLTAGE SWING: $\pm 4.0V$

HIGH SLEW RATE: 2100V/ μs

LOW dG/d: 0.07%/0.02°

LOW SUPPLY CURRENT: 5.1mA

LOW DISABLED CURRENT: 150 μA

WIDEBAND +5V OPERATION: 190MHz (G = +2)

APPLICATIONS

xDSL LINE DRIVER

BROADBAND VIDEO BUFFERS

HIGH-SPEED IMAGING CHANNELS

PORTABLE INSTRUMENTS

ADC BUFFERS

ACTIVE FILTERS

WIDEBAND INVERTING SUMMING

HIGH SFDR IF AMPLIFIER

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Recommended For You

OPA445BM

Texas Instruments, Inc

CAN

OPA1611AIDR

Texas Instruments, Inc

SOP8

OPA388QDBVRQ1

Texas Instruments, Inc

SOT23-5

OPA2365AQDRQ1

Texas Instruments, Inc

SOP8

OPA334AIDBVR

Texas Instruments, Inc

SOT23-6

OPA2835IDCSR

Texas Instruments, Inc

MSOP10

OPA656U

Texas Instruments, Inc

SOP8

OPA360AIDCKR

Texas Instruments, Inc

SC70-6

LMI11H/NOPB

Texas Instruments, Inc

CAN8

OPA353UA

Texas Instruments, Inc

SOP8

LMI3700MX/NOPB

Texas Instruments, Inc

SOP16

OPA633KP

Texas Instruments, Inc

DIP8

OPA453FAKTWT

Texas Instruments, Inc

TO263-7

OPA4251UA

Texas Instruments, Inc

SOP14

LMV321M5X/NOPB

Texas Instruments, Inc

SOT23-5