

**Op Amp Dual Low Input Bias Current Amplifier R-R I/O  $\pm 6V/12V$   
Automotive 8-Pin SOIC Tube**



Images are for reference only

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** SOP-8

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

## General Description

The OPA705 series low-cost op amps are optimized for applications requiring rail-to-rail input and output swing. Single, dual, and quad versions are offered in a variety of packages. While the quiescent current is less than 200 $\mu$ A per amplifier, the OPA705 still offers excellent dynamic performance (1MHz GBW and 0.6V/ $\mu$ s SR) and unity-gain stability.

The OPA705 series is fully specified and guaranteed over the supply range of  $\pm 2V$  to  $\pm 6V$ . Input swing extends 300mV beyond the rail and the output swings to within 40mV of the rail.

The single version (OPA705) is available in the *MicroSIZE* SOT23-5 and in the standard SO-8 surface-mount packages. The dual version (OPA2705) is available in the MSOP-8, SO-8, and DIP-8 packages. The quad OPA4705 is available in the TSSOP-14 and SO-14 packages. All are specified for operation from  $-40^{\circ}C$  to  $+85^{\circ}C$ .

## Key Features

RAIL-TO-RAIL INPUT AND OUTPUT

WIDE SUPPLY RANGE:

Single Supply: 4V to 12V

Dual Supplies:  $\pm 2$  to  $\pm 6$

LOW QUIESCENT CURRENT: 160  $\mu$ A

LIMITED RANGE CMRR: 96dB

LOW OFFSET: 0.5m V

HIGH SPEED: 1MHz, 0.6V/ $\mu$ s

MicroSIZE PACKAGES: SOT23-5, MSOP-8, TSSOP-14

LOW INPUT BIAS CURRENT: 1pA

APPLICATIONS

AUTOMOTIVE APPLICATIONS: Audio, Sensor Applications, Security Systems

PORTABLE EQUIPMENT

ACTIVE FILTERS

TRANSDUCER AMPLIFIER

TEST EQUIPMENT

DATA ACQUISITION

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## Recommended For You

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### 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

### OPA2835IDGSR

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