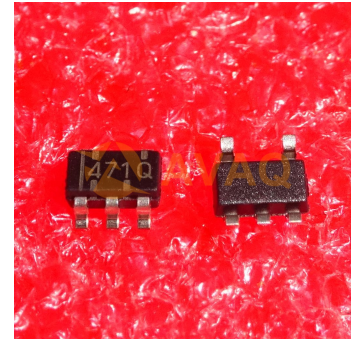


## Op Amp Single Low Noise Amplifier R-R I/O $\pm 3V/6V$ Automotive 5-Pin SOT-23 T/R



Images are for reference only

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

**Package/Case:** SOT23-5

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

The TLV247x is a family of CMOS rail-to-rail input/ output operational amplifiers that establishes a new performance point for supply current versus ac performance. These devices consume just 600 $\mu$ A/channel while offering 2.8MHz of gain-bandwidth product. Along with increased ac performance, the amplifier provides high output drive capability, solving a major shortcoming of older micropower operational amplifiers. The TLV247x can swing to within 180mV of each supply rail while driving a 10mA load. For non-RRO applications, the TLV247x can supply  $\pm 35$ mA at 500mV off the rail. Both the inputs and outputs swing rail-to-rail for increased dynamic range in low-voltage applications. This performance makes the TLV247x family ideal for sensor interface, portable medical equipment, and other data acquisition circuits.

## Key Features

Qualified for Automotive Applications

ESD Protection Exceeds 2000 V Per MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model (C = 200 pF, R = 0)

CMOS Rail-To-Rail Input/Output

Input Bias Current . . . 2.5 pA

Low Supply Current . . . 600  $\mu$ A/Channel

Gain-Bandwidth Product . . . 2.8 MHz

High Output Drive Capability

$\pm$ 10 mA at 180 mV

$\pm$ 35 mA at 500 mV

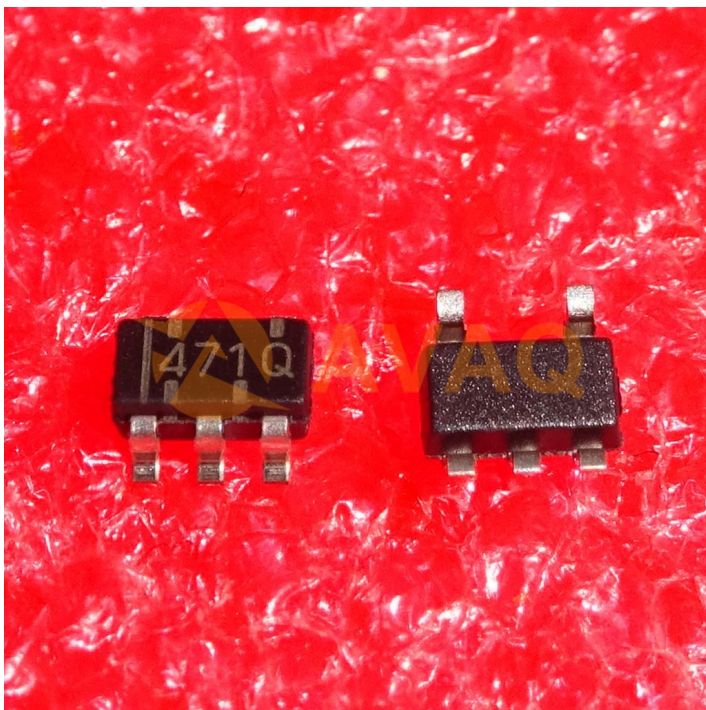
Input Offset Voltage . . . 250  $\mu$ V (typ)

Supply Voltage Range . . . 2.7 V to 6 V TLV2471

### Description

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The family is fully specified at 3 V and 5 V across the automotive temperature range ( $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ ).



## Recommended For You

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**TLC27M2CP**

Texas Instruments, Inc  
DIP8

**TLV3501AIDR**

Texas Instruments, Inc  
SOP8

**TL071ACP**

Texas Instruments, Inc  
DIP-8

**TL062CDR**

Texas Instruments, Inc  
SOP8

**TLE2142IP**

Texas Instruments, Inc  
DIP8

**TLC272AID**

Texas Instruments, Inc  
SOP-8

**TLV3502AQDCNRQ1**

Texas Instruments, Inc  
SOT23-8

**TL084CD**

Texas Instruments, Inc  
SOP14

**TLV2711DBVR**

Texas Instruments, Inc  
SOT23-5

**TLC074CD**

Texas Instruments, Inc  
SOP14

**TLC2272ACD**

Texas Instruments, Inc  
SOP-8

**TLC2272AIDR**

Texas Instruments, Inc  
SOP8

**TLV2462ID**

Texas Instruments, Inc  
SOP-8

**TLV23811DBVR**

Texas Instruments, Inc  
SOT23-5

**TLC27L2IP**

Texas Instruments, Inc  
DIP-8