
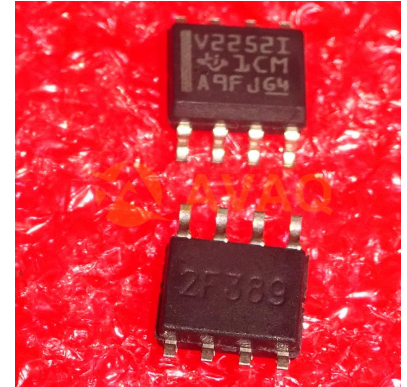


## Op Amp Dual Low Power Amplifier R-R O/P $\pm 4V/8V$ 8-Pin SOIC T/R

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SOP8
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

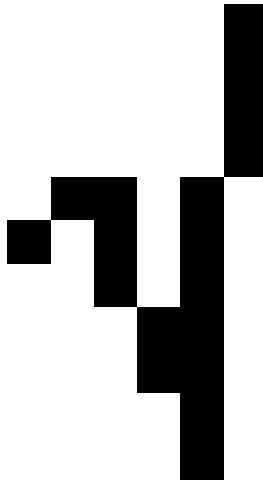
The TLV2252 and TLV2254 are dual and quadruple low-voltage operational amplifiers from Texas Instruments. Both devices exhibit rail-to-rail output performance for increased dynamic range in single- or split-supply applications. The TLV225x family consumes only 34  $\mu\text{A}$  of supply current per channel. This micropower operation makes them good choices for battery-powered applications. This family is fully characterized at 3 V and 5 V and is optimized for low-voltage applications. The noise performance has been dramatically improved over previous generations of CMOS amplifiers. The TLV225x has a noise level of 19  $\text{nV}/\sqrt{\text{Hz}}$  at 1kHz, four times lower than competitive micropower solutions.

The TLV225x, exhibiting high input impedance and low noise, are excellent for small-signal conditioning for high-impedance sources, such as piezoelectric transducers. Because of the micropower dissipation levels combined with 3-V operation, these devices work well in hand-held monitoring and remote-sensing applications. In addition, the rail-to-rail output feature with single or split supplies makes this family a great choice when interfacing with analog-to-digital converters (ADCs). For precision applications, the TLV225xA family is available and has a maximum input offset voltage of 850  $\mu\text{V}$ .

The TLV2252/4 also make great upgrades to the TLV2322/4 in standard designs. They offer increased output dynamic range, lower noise voltage, and lower input offset voltage. This enhanced feature set allows them to be used in a wider range of applications. For applications that require higher output drive and wider input voltage range, see the TLV2432 and TLV2442 devices. If your design requires single amplifiers, please see the TLV2211/21/31 family. These devices are single rail-to-rail operational amplifiers in the SOT-23 package. Their small size and low power consumption, make them ideal for high density, battery-powered equipment.

## Key Features

Output Swing Includes Both Supply Rails



Low Noise...19 nV/

$\overline{\text{Hz}}$  Typ at  $f = 1 \text{ kHz}$

Low Input Bias Current...1 pA Typ

Fully Specified for Both Single-Supply and Split-Supply Operation

Very Low Power...34  $\mu\text{A}$  Per Channel Typ

Common-Mode Input Voltage Range Includes Negative Rail

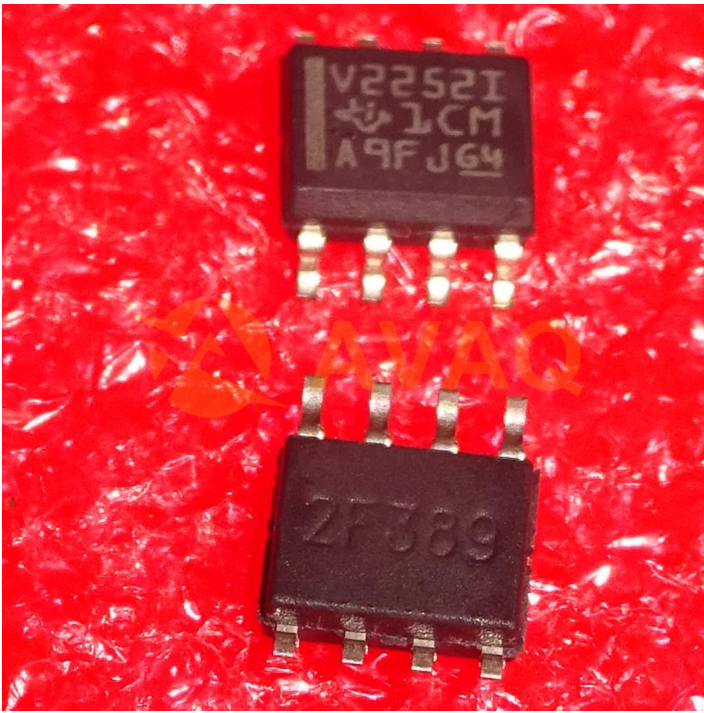
Low Input Offset Voltage  
850  $\mu\text{V}$  Max at  $T_A = 25^\circ\text{C}$

Wide Supply Voltage Range  
2.7 V to 8 V

Macromodel Included

Available in Q-Temp Automotive  
HighRel Automotive Applications  
Configuration Control / Print Support  
Qualification to Automotive Standards

Advanced LinCMOS is a trademark of Texas Instruments.



## 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

### **TLV271HDBVR**

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

### **TLV2471QDBVRQ1**

Texas Instruments, Inc

SOT23-5

### **TLV2381HDBVR**

Texas Instruments, Inc

SOT23-5