

### Features

- **Single-Supply Operation from +2.1V ~ +5.5V**
- **Rail-to-Rail Input / Output**
- **Gain-Bandwidth Product: 11MHz (Typ)**
- **Low Input Bias Current: 1pA (Typ)**
- **Low Offset Voltage: 3.5mV (Max)**
- **High Slew Rate: 9V/μs**
- **Settling Time to 0.1% with 2V Step: 0.3μs**
- **Low Noise : 8nV/√Hz @10kHz**
- **Quiescent Current: 1.1mA per Amplifier (Typ)**
- **Operating Temperature: -40°C ~ +125°C**
- **Small Package:**  
**TCS9721 Available in SOT23-5, SOP-8 and SC70-5 Packages**  
**TCS9722 Available in SOP-8, MSOP-8, TSSOP-8 and DFN2\*2-8 Packages**  
**TCS9724 Available in SOP-14 and TSSOP-14 Packages**  
**TCS9721 Available in SOT23-6, SC70-6 and SOP-8 Packages**

### General Description

The TCS972X have a high gain-bandwidth product of 11MHz, a slewrate of 9V/μs, and a quiescent current of 1.1mA per amplifier at 5V. The TCS972X are designed to provide optimal performance in low voltage and low noise systems. They provide rail-to-rail output swing into heavy loads. The input common mode voltage range includes ground, and the maximum input offset voltage is 3.5mV for TCS972X. They are specified over the extended industrial temperature range (-40°C to +125°C). The operating range is from 2.1V to 5.5V. The RCS9721 single is available in Green SC70-5, SOT23-5 and SOP-8 packages. The TCS9722 dual is available in GreenSOP-8 ,MSOP-8,TSSOP-8 and DFN2\*2-8 packages. The TCS9724 Quad is available in Green SOP-14 and TSSOP-14 packages.

### Applications

- Sensors
- Active Filters
- Cellular and Cordless Phones
- Laptops and PDAs
- Audio
- Handheld Test Equipment
- Battery-Powered Instrumentation
- A/D Converters

### Pin Configuration

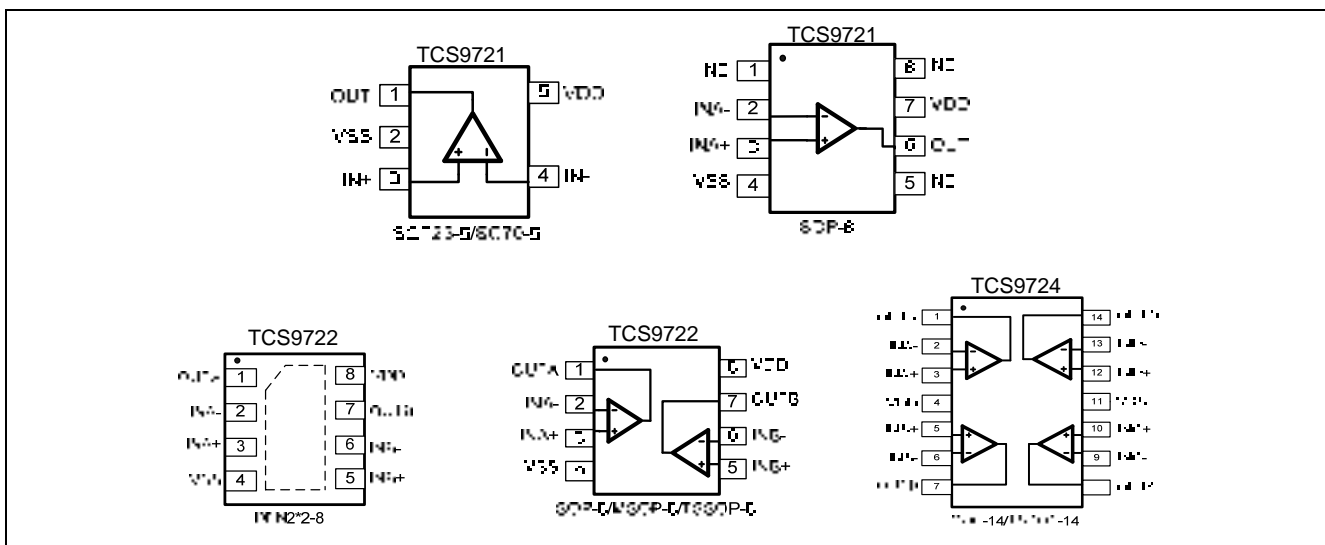


Figure 1. Pin Assignment Diagram