
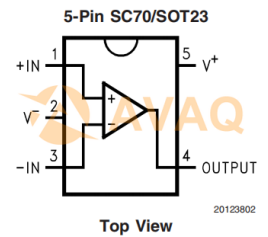


Op Amp Single Low Power Amplifier R-R O/P 5.5V Automotive 5-Pin SC-70 T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SC70-5
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

TI's LMV65x devices are high-performance, low-power operational amplifier ICs implemented with TI's advanced VIP50 process. This family of parts features 12 MHz of bandwidth while consuming only 116 μ A of current, which is an exceptional bandwidth to power ratio in this operational amplifier class. The LMV65x devices are unity-gain stable and provide an excellent solution for general-purpose amplification in low-voltage, low-power applications. This family of low-voltage, low-power amplifiers provides superior performance and economy in terms of power and space usage. These operational amplifiers have a maximum input offset voltage of 1.5 mV, a rail-to-rail output stage, and an input common-mode voltage range that includes ground. The LMV65x provide a PSRR of 95 dB, a CMRR of 100 dB, and a total harmonic distortion (THD) of 0.003% at 1-kHz frequency and 2-k Ω load. The operating supply voltage range for this family of parts is from 2.7 V and 5.5 V. These operational amplifiers can operate over a wide temperature range (-40°C to 125°C), making them ideal for automotive applications, sensor applications, and portable equipment applications. The LMV651 is offered in the ultra-tiny 5-pin SC70 and 5-pin SOT-23 package. The LMV652 is offered in an 8-pin VSSOP package. The LMV654 is offered in a 14-pin TSSOP package.

Key Features

Typical 5-V Supply, Unless Otherwise Noted

Specified 3-V and 5-V Performance

Low Power Supply Current
LMV651: 116 μA

LMV652: 118 μA per Amplifier

LMV654: 122 μA per Amplifier

High Unity-Gain Bandwidth: 12 MHz

Maximum Input Offset Voltage: 1.5 mV

CMRR: 100 dB

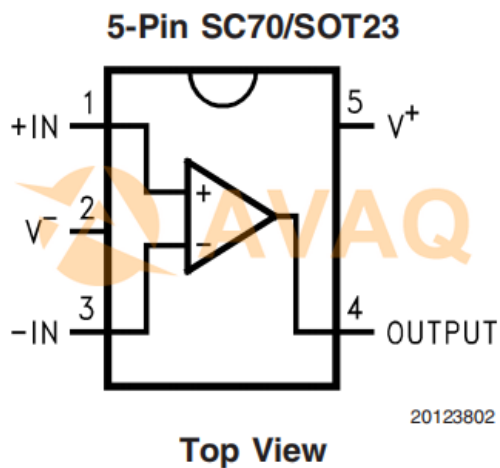
PSRR: 95 dB

Input Referred Voltage Noise: 17 $\text{nV}/\sqrt{\text{Hz}}$

Output Swing With 2-k Ω Load, 120 mV from Rail

Total Harmonic Distortion: 0.003% at 1 kHz, 2 k Ω

Temperature Range: -40°C to 125°C



Recommended For You

LMB11MX

Texas Instruments, Inc

SOP8

LMV7219M5

Texas Instruments, Inc

SOT23-5

LMB48D

Texas Instruments, Inc

SOP-14

LM224N

Texas Instruments, Inc
DIP14

LM239J

Texas Instruments, Inc
CDIP14

LMV331M5

Texas Instruments, Inc
SOT23-5

LM393ADR

Texas Instruments, Inc
SOP8

LM293DR

Texas Instruments, Inc
SOP8

LM293D

Texas Instruments, Inc
SOP8

LMV824MIX

Texas Instruments, Inc
TSSOP

LMV358M

Texas Instruments, Inc
SOP8

LMV321M5

Texas Instruments, Inc
SOT23-5

LM741H

Texas Instruments, Inc
CAN8

LMI93AH

Texas Instruments, Inc
CAN8

LMI11H/NOPB

Texas Instruments, Inc
CAN8