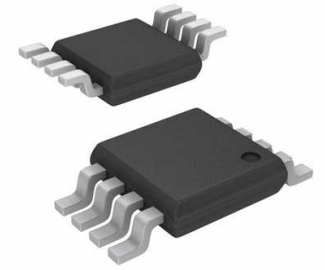


Op Amp Dual High Speed Amplifier R-R I/O $\pm 2.75\text{V}/5.5\text{V}$ Automotive 8-Pin VSSOP T/R



Images are for reference only

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: MSOP8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The design of the OPAX354-Q1 family of high-speed, voltage-feedback CMOS operational amplifiers is for video and other applications requiring wide bandwidth. These devices are unity-gain stable and can drive large output currents. Differential gain is 0.02% and differential phase is 0.09°. Quiescent current is only 4.9 mA per channel.

The OPAX354-Q1 family of operational amplifiers (op-amps) are optimized for operation on single or dual supplies as low as 2.5 V (± 1.25 V) and up to 5.5 V (± 2.75 V). Common-mode input range extends beyond the supplies. The output swing is within 100 mV of the rails, supporting wide dynamic range.

The single-supply version (OPA354A-Q1) is available in the tiny SOT-23-5 (DBV) package. The dual-supply version (OPA2354A-Q1) is available in the miniature VSSOP-8 (DGK) package and features completely independent circuitry for lowest crosstalk and freedom from interaction. The quad-supply version (OPA4354-Q1) is available in the TSSOP-14 (PW) package. The device specifications are for operation over the automotive temperature range of -40°C to $+125^{\circ}\text{C}$.

Key Features

Qualified for Automotive Applications

AEC-Q100 Qualified With the Following Results:

C3 for OPA4354-Q1

Unity-Gain Bandwidth: 250 MHz

Wide Bandwidth: 100-MHz GBW Product

High Slew Rate: 150 V/ μ s

Low Noise: 6.5 nV/ $\sqrt{\text{Hz}}$

Hz

Rail-to-Rail I/O

High Output Current: >100 mA

Excellent Video Performance

Differential Gain Error: 0.02%

Differential Phase Error: 0.09°

0.1-dB Gain Flatness: 40 MHz

Low Input Bias Current: 3 pA

Quiescent Current: 4.9 mA

Thermal Shutdown

Supply Range: 2.5 V to 5.5 V

Recommended For You

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

OPA2835IDCSR

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