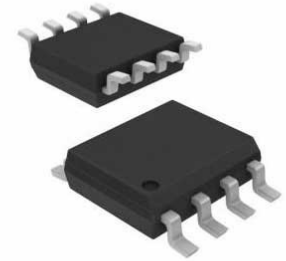


**Op Amp Dual Wideband Amplifier R-R O/P 5.5V 8-Pin SOIC
Tube**

Images are for reference only

[Inquiry](#)**Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** SOP8**Product Type:** Amplifier ICs**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active**General Description**

The OPA337 and OPA338 series rail-to-rail output CMOS operational amplifiers are designed for low cost and miniature applications. Packaged in the SOT23-8, the OPA2337EA and OPA2338EA are Texas Instruments' smallest dual op amps. At 1/4 the size of a conventional SO-8 surface-mount, they are ideal for space-sensitive applications.

Utilizing advanced CMOS technology, the OPA337 and OPA338 op amps provide low bias current, high-speed operation, high open-loop gain, and rail-to-rail output swing. They operate on a single supply with operation as low as 2.5V while drawing only 525 μ A quiescent current. In addition, the input common-mode voltage range includes ground—ideal for single-supply operation.

The OPA337 series is unity-gain stable. The OPA338 series is optimized for gains greater than or equal to 5. They are easy-to-use and free from phase inversion and overload problems found in some other op amps. Excellent performance is maintained as the amplifiers swing to their specified limits. The dual versions feature completely independent circuitry for lowest crosstalk and freedom from interaction, even when overdriven or overloaded.

Key Features

MicroSIZE PACKAGES:
SOT-23-5, SOT23-8

SINGLE-SUPPLY OPERATION

RAIL-TO-RAIL OUTPUT SWING

FET-INPUT: $I_B = 10\text{pA}$ max

HIGH SPEED:
OPA337: 3MHz, $1.2\text{V}/\mu\text{s}$ ($G = 1$)

OPA338: 12.5MHz, $4.6\text{V}/\mu\text{s}$ ($G = 5$)

OPERATION FROM 2.5V to 5.5V

HIGH OPEN-LOOP GAIN: 120dB

LOW QUIESCENT CURRENT: $525\mu\text{A}/\text{amp}$

SINGLE AND DUAL VERSIONS

APPLICATIONS
BATTERY-POWERED INSTRUMENTS

PHOTODIODE PRE-AMPS

MEDICAL INSTRUMENTS

TEST EQUIPMENT

AUDIO SYSTEMS

DRIVING ADCs

CONSUMER PRODUCTS

SPICE model available at www.ti.com. All trademarks are the property of their respective owners.

Description

The OPA337 and OPA338 series rail-to-rail output CMOS operational amplifiers are designed for low cost and miniature applications. Packaged in the SOT23-8, the OPA2337EA and OPA2338EA are Texas Instruments' smallest dual op amps. At 1/4 the size of a conventional SO-8 surface-mount, they are ideal for space-sensitive applications.

Utilizing advanced CMOS technology, the OPA337 and OPA338 op amps provide low bias current, high-speed operation, high open-loop gain, and rail-to-rail output swing. They operate on a single supply with operation as low as 2.5V while drawing only $525\mu\text{A}$ quiescent current. In addition, the input common-mode voltage range includes ground—ideal for single-supply operation.

The OPA337 series is unity-gain stable. The OPA338 series is optimized for gains greater than or equal to 5. They are easy-to-use and free from phase inversion and overload problems found in some other op amps. Excellent performance is maintained as the amplifiers swing to their specified limits. The dual versions feature completely independent circuitry for lowest crosstalk and freedom from interaction, even when overdriven or overloaded.

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

OPA2835IDGSR

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