

Op Amp Dual Low Offset Voltage Amplifier R-R I/O 5.5V Automotive 8-Pin SOIC T/R



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 OPAx365 zer-crossover series, rail-to-rail, high-performance, CMOS operational amplifiers are optimized for very low voltage, single-supply applications. Rail-to-rail input or output, low-noise ($4.5 \text{ nV}/\sqrt{\text{Hz}}$) and high-speed operation (50-MHz Gain Bandwidth) make these devices ideal for driving sampling analog-to-digital converters (ADCs). Applications include audio, signal conditioning, and sensor amplification. The OPA365 family of op amps are also well-suited for cell phone power amplifier control loops.

Special features include an excellent common-mode rejection ratio (CMRR), no input stage crossover distortion, high input impedance, and rail-to-rail input and output swing. The input common-mode range includes both the negative and positive supplies. The output voltage swing is within 10 mV of the rails. The OPA365 (single version) is available in the micro-size SOT23-5 (SOT-5) and SOIC-8 packages. The OPA2365 (dual version) is offered in the SOIC-8 package. All versions are specified for operation from -40°C to $+125^{\circ}\text{C}$. Single and dual versions have identical specifications for maximum design flexibility.

Key Features

Gain Bandwidth: 50 MHz

Zer-Crossover Distortion Topology:

Excellent THD+N: 0.0004%

CMRR: 100 dB (Minimum)

Input 100 mV Beyond Supply Rail

Low Noise: $4.5 \text{ nV}/\sqrt{\text{Hz}}$ at 100 kHz

Slew Rate: $25 \text{ V}/\mu\text{s}$

Fast Settling: $0.3 \mu\text{s}$ to 0.01%

Precision:

Low Offset: $100 \mu\text{V}$

2.2-V to 5.5-V Operation



Recommended For You

OPA445BM

Texas Instruments, Inc
CAN

OPA1611AIDR

Texas Instruments, Inc
SOP8

OPA388QDBVRQ1

Texas Instruments, Inc
SOT23-5

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

OPA453FAKIWT

Texas Instruments, Inc
TO263-7

OPA4251UA

Texas Instruments, Inc
SOP14

LMV321M5X/NOPB

Texas Instruments, Inc
SOT23-5

OPA637AU

Texas Instruments, Inc
SOP-8