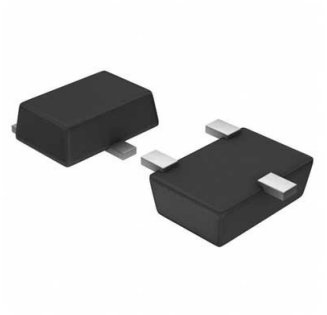
OPA607QDBVRQ1

Op Amp Single Low Power Amplifier R-R O/P ±2.75V/5.5V Automotive 5-Pin SOT-23 T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOT23-5
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The OPA607-Q1 and OPA2607-Q1 devices are decompensated, minimum gain of 6 V/V stable, general-purpose CMOS operational amplifiers with low noise of 3.8 nV/√ Hz and a GBW of 50 MHz. The low voltage offset drift (dVOS/dT) and wide bandwidth of the OPAx607-Q1 devices make them attractive for low cost general-purpose applications like low side current sensing and TIA (transipedance amplifier). The high-impedance CMOS inputs make the OPAx607-Q1 devices ideal amplifiers to interface with sensors with high output impedance (for example, piezoelectric transducers).

The rail-to-rail output (RRO) of the OPAx607-Q1 devices can swing up to 8 mV from the supply rails, maximizing dynamic range.

The OPAx607-Q1 is optimized for low supply voltage operation as low as 2.2 V (±1.1 V) and up to 5.5 V (±2.75 V), and is specified over the temperature range of –40°C to +125°C.

Key Features

Qualified for automotive applications

AEC-Q100 qualified with the following results:
Temperature grade 1: –40°C to +125°C, TA

Gain bandwidth product (GBW): 50 MHz

Quiescent current: 900 µA (typical)

Input offset drift: 1.5 µV/°C (maximum)

Offset voltage: 120 µV (typical)

Input bias current: 10 pA (maximum)

Rail-to-rail output (RRO)

Supply range : 2.2 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

OPA2835IDGSR

Texas Instruments, Inc

MSOP10

OPA656U

Texas Instruments, Inc

SOP8

OPA360AIDCKR

Texas Instruments, Inc

SC70-6

LM111H/NOPB

Texas Instruments, Inc

CAN8

OPA353UA

Texas Instruments, Inc

SOP8

LM13700MX/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