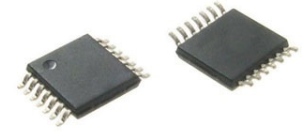


## Op Amp Quad GP R-R I/O 5.5V Automotive Medical 14-Pin TSSOP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** TSSOP14

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The OPAx348-Q1 series of devices are single-supply, low-power CMOS operational amplifiers. Featuring an extended bandwidth of 1 MHz and a supply current of 45  $\mu$ A, the OPAx348-Q1 family of devices is useful for low-power applications on single supplies of 2.1 V to 5.5 V.

Low supply current of 45  $\mu$ A and an input bias current of 0.5 pA make the OPAx348-Q1 family of devices an optimal candidate for low-power, high-impedance applications such as smoke detectors and other sensors.

The OPA348-Q1 device is available in both the SOT23-5 (DBV) and the SOIC (D) packages. The OPA2348-Q1 device is available in the SOIC-8 (D) package.

The OPA4348-Q1 device is available in the TSSOP-14 (PW) package. The automotive temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  over all supply voltages offers additional design flexibility.

## Key Features

Qualified for Automotive Applications

AEC-Q100 Qualified With the Following Results:

Device Temperature Grade 1: -40°C to  
+125°C Ambient Operating Temperature  
Range

Device HBM ESD Classification Level 2

Device CDM ESD Classification Level C4B

Low Quiescent Current (I<sub>Q</sub>): 45 µA (Typ)

Low Cost

Rail-to-Rail Input and Output

Single Supply: 2.1 V to 5.5 V

Input Bias Current: 0.5 pA (Typ)

High Speed: Power With Bandwidth: 1 MHz

### APPLICATIONS

Portable Equipment

Battery-Powered Equipment

Smoke Alarms

CO Detectors

HEV/EV and Power Train

Infotainment and Cluster

Medical Instrumentation

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## Recommended For You

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### 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