

**Op Amp Dual Low Power Amplifier R-R I/O 5.5V 8-Pin SOT-23
T/R****Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** SOT23-8**Product Type:** Amplifier ICs**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The TAS2505-Q1 is a mono Class-D speaker amp that supports both Digital and Analog inputs. The device is ideal for automotive instrument cluster, emergency call (eCall), and telematics applications. Direct I²S input removes the need for an external DAC in the audio signal path. In addition to integration, the device features programmable audio processing. The onboard DSP supports bass boost, treble, and EQ (up to 6 biquads). An on-chip PLL provides the high-speed clock needed by the DSP. The volume level is register controlled.

Key Features

Low IQ: 45 μ A (Typical)

Rail-To-Rail Input and Output

Single Supply: 2.1 V to 5.5 V

Input Bias Current: 0.5 pA

Micro Size Packages:

5-Pin SC70

8-Pin SOT-23

14-Pin TSSOP

Excellent Bandwidth-to-Power Consumption Trade-off

Number of Channels:

OPA348: 1

OPA2348: 2

OPA4348: 4

Description

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

A low supply current of 45 μ A and an input bias current of 0.5 pA, makes the OPAx348 series an optimal candidate for low-power applications such as smoke detectors and other high-impedance sensors.

The OPA348 is available in the miniature 5-pin SC70 (SOT), 5-pin SOT-23 (SOT), and 8-pin SO (SOIC) packages. The OPA2348 is available in 8-pin SOT-23 (SOT) and 8-pin SO (SOIC) packages, and the OPA4348 is offered in space-saving 14-pin TSSOP and 14-pin SO (SOIC) packages. The extended temperature range of -40°C to $+125^{\circ}\text{C}$ over all supply voltages offers design flexibility.

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