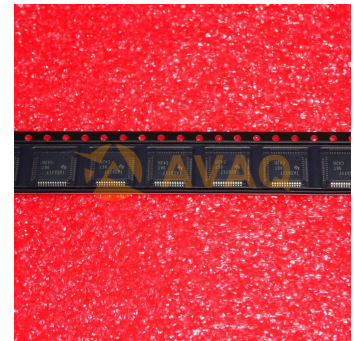


## Audio Amp Headphone/Speaker 2-CH Stereo 10W Class-AB 48-Pin HTQFP EP T/R



Images are for reference only

[Inquiry](#)

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

**Package/Case:** HTQFP48

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The TAS5717/TAS5719 is a 10-W/15-W, efficient, digital audio-power amplifier for driving stereo bridge-tied speakers. One serial data input allows processing of up to two discrete audio channels and seamless integration to most digital audio processors and MPEG decoders. The device accepts a wide range of input data and data rates. A fully programmable data path routes these channels to the internal speaker drivers.

The TAS5717/9 is a slave-only device receiving all clocks from external sources. The TAS5717/TAS5719 operates with a PWM carrier between a 384-kHz switching rate and a 352-KHz switching rate, depending on the input sample rate. Oversampling combined with a fourth-order noise shaper provides a flat noise floor and excellent dynamic range from 20 Hz to 20 kHz.

### Key Features

Audio Input/Output

TAS5717 Supports 2×10 W and TAS5719 Supports 2×15 W Output

Wide PVDD Range, From 4.5 V to 26 V

Efficient Class-D Operation Eliminates Need for Heatsinks

One Serial Audio Input (Two Audio Channels)

I

2

C Address Selection via PIN (Chip Select)

Supports 8-kHz to 48-kHz Sample Rate (LJ/RJ/I

2

S)

External Headphone-Amplifier Shutdown Signal

Integrated CAP-Free Headphone Amplifier

Stereo Headphone (Stereo 2-V RMS Line Driver) Outputs

~~Independent Channel Volume Controls With 24-dB to Mute~~

Programmable Two-Band Dynamic Range Control

14 Programmable Biquads for Speaker EQ

Programmable Coefficients for DRC Filters

DC Blocking Filters

0.125-dB Fine Volume Support

General Features

Serial Control Interface Operational Without MCLK

Factory-Trimmed Internal Oscillator for Automatic Rate Detection

Surface Mount, 48-Pin, 7-mm × 7-mm HTQFP Package

AD, BD, and Ternary PWM-Mode Support

Thermal and Short-Circuit Protection

Benefits

EQ: Speaker Equalization Improves Audio Performance

DRC: Dynamic Range Compression. Can Be Used As Power Limiter.

Enables Speaker Protection, Easy Listening, Night-Mode Listening

DirectPath Technology: Eliminates Bulky DC Blocking Capacitors

Stereo Headphone/Stereo Line Drivers: Adjust Gain via External Resistors,

Dedicated Active Headphone Mute Pin, High Signal-to-Noise Ratio

Two-Band DRC: Set Two Different Thresholds for Low- and

High-Frequency Content



## Recommended For You

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### **TAS5142DKD**

Texas Instruments, Inc  
HSSOP36

### **TAS5411QPWPRQ1**

Texas Instruments, Inc  
HTSSOP16

### **TAS5342ADDVR**

Texas Instruments, Inc  
HTSSOP44

### **TAS5707PHPR**

Texas Instruments, Inc  
HTQFP48

### **TAS5760MDAPR**

Texas Instruments, Inc  
HTSSOP32

### **TAS5760MDCAR**

Texas Instruments, Inc  
HTSSOP48

### **TAS5414CTPHDRQ1**

Texas Instruments, Inc  
HTQFP-64

### **TAS2505IRGET**

Texas Instruments, Inc  
VQFN24

### **TAS2505IRGER**

Texas Instruments, Inc  
VQFN-24

### **TAS5086DBTR**

Texas Instruments, Inc  
TSSOP38

### **TAS3004PFBR**

Texas Instruments, Inc  
QFP

### **TAS3004PFBR**

Texas Instruments, Inc  
TQFP-48

### **TAS5076PFC**

Texas Instruments, Inc  
QFP

### **TAS3108DCP**

Texas Instruments, Inc  
HTSSOP38

### **TAS2557YZR**

Texas Instruments, Inc  
DSBGA42