# TDA75610LV

**Audio Amp Speaker 4-CH Stereo 44W Class-SB Automotive 27-Pin(27+Tab) FLEXIWATT(Vertical) Tube**

Images are for reference only

Inquiry

| | |
|---|---|
| **Manufacturer:** | STMicroelectronics, Inc |
| **Package/Case:** | ZIP27 |
| **Product Type:** | Amplifier ICs |
| **Lifecycle:** | NRND |

## General Description

The TDA75610LV is a new quad bridge car radio amplifier, designed in BCD technology, in order to include a wide range of innovative features in a very compact and flexible device. The TDA75610LV is equipped with the most complete diagnostics array that communicates the status of each speaker through the I2C bus. The dissipated output power under average listening condition is significantly reduced when compared to the conventional class AB solutions, thanks to the patented 'class SB' efficiency concept. TDA75610LV has been designed to be very robust against several kinds of misconnections. It is moreover compliant to the most recent OEM specifications for low voltage operation (so called 'start-stop' battery profile during engine stop), helping car manufacturers to reduce the overall emissions and thus contributing to environment protection. The ST BCD in combination with 'class SB' efficiency and 'intelligent power' has been sold in million of units to most known car manufacturers, the TDA75610LV is the last and most compact member of this power amplifiers family.

## Key Features

Multipower BCD technology

MOSFET output power stage

DMOS power output

High efficiency (class SB)

High output power capability 4x25 W/4 Ω @ 14.4 V, 1 kHz, 10% THD, 4 x 45 W max power

2 Ω driving capability (64 W max power)

Full I2C bus driving:

Standby

Independent front/rear soft play/mute

Selectable gain 26 dB / 16 dB (for low noise line output function)

High efficiency enable/disable

I2C bus digital diagnostics (including DC and AC load detection)

Standby

Independent front/rear soft play/mute

Selectable gain 26 dB / 16 dB (for low noise line output function)

High efficiency enable/disable

I2C bus digital diagnostics (including DC and AC load detection)

Flexible fault detection through integrated diagnostic

DC offset detection

Four independent short circuit protection

Clipping detector pin with selectable threshold (2 %/10 %)

Standby/mute pin

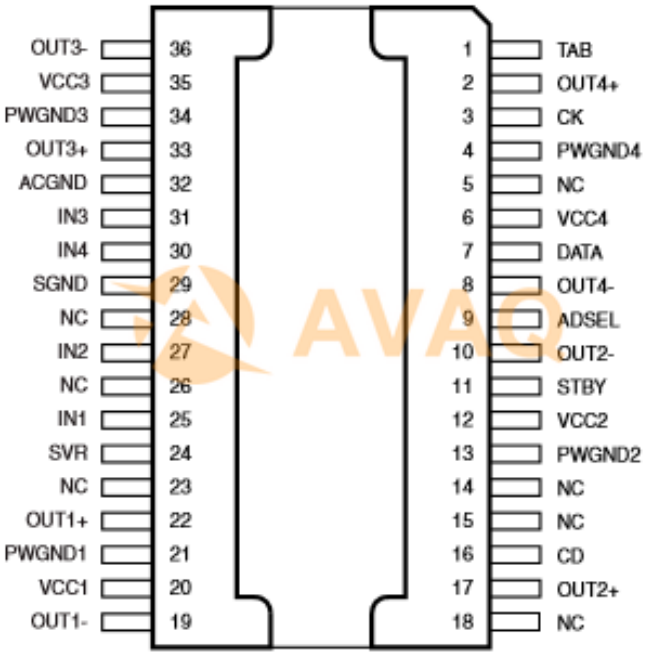
Linear thermal shutdown with multiple thermal warning

ESD protection

Very robust against misconnections

Improved SVR suppression during battery transients

Capable to operate down to 6 V (e.g. “Start-stop”)




## Recommended For You

**TDA7387EP**

STMicroelectronics, Inc

ZIP25

**TDA7562**

STMicroelectronics, Inc

ZIP27

**TDA7296**

STMicroelectronics, Inc

ZIP-15

**TDA7419**

STMicroelectronics, Inc

SOP28

**TDA7561**

STMicroelectronics, Inc

ZIP

**TDA7575B**

STMicroelectronics, Inc

ZIP27

**TDA7376B**

STMicroelectronics, Inc

ZIP-15

**TDA7851L**

STMicroelectronics, Inc

ZIP-25

**TDA7417**

STMicroelectronics, Inc

QFP

**TDA2005R**

STMicroelectronics, Inc

ZIP

**TDA7801**

STMicroelectronics, Inc

ZIP27

**TDA7388A**

STMicroelectronics, Inc

ZIP-27

**TDA7850A**

STMicroelectronics, Inc

ZIP27

**TDA7563ASM**

STMicroelectronics, Inc

ZIP-27

**TDA7562B**

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ZIP27