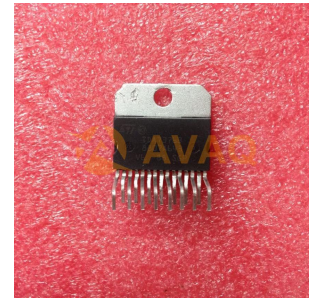


## Audio Amp Speaker 2-CH Stereo 37W Class-AB Automotive 15-Pin(15+Tab) MULTIWATT V Tube



Images are for reference only

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** ZIP-15

**Product Type:** Amplifier ICs

**Lifecycle:** Active

[Inquiry](#)

### General Description

The TDA7376B is a new technology dual bridge audio amplifier in Multiwatt 15 package designed for car radio applications. Thanks to the fully complementary PNP/NPN output stage configuration the TDA7376B delivers a rail-to-rail voltage swing with no need of bootstrap capacitors. Differential input pairs, that will accept either single ended or differential input signals, guarantee high noise immunity making the device suitable for both car radio and car boosters applications. The audio mute control, that attenuates the output signal of the audio amplifiers, suppresses pop On - Off transients and cuts any noises coming from previous stages. The standby control, that de-biases the amplifiers, reduces the cost of the power switch. The on-board programmable distortion detector allows compression facility whenever the amplifier is over driven, so limiting the distortion at any levels inside the presettable range.

## Key Features

High output power capability:

2 x 40 W max./ 4  $\Omega$

2 x 35 W/4  $\Omega$  EIAJ

2 x 25 W/4  $\Omega$  (14.4 V, 1 kHz, 10 %)

2 x 25 W/ 2 $\Omega$  (14.4 V, 1 kHz, 10 %)

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2 x 25 W/ 2 $\Omega$  (14.4 V, 1 kHz, 10 %)

2  $\Omega$  driving

Differential inputs

Minimum external components count

Internally fixed gain (26 db)

Mute function (cmos compatible)

Automute at minimum supply voltage detection

Standby function

No audible pop during mute and standby operations

Clipping detector with programmable distortion threshold

Protections:

short circuit (out to ground, out to supply voltage, across the load)

overrating chip temperature with soft thermal limiter

load dump voltage

fortuitous open ground

loudspeaker dc current

ESD

short circuit (out to ground, out to supply voltage, across the load)

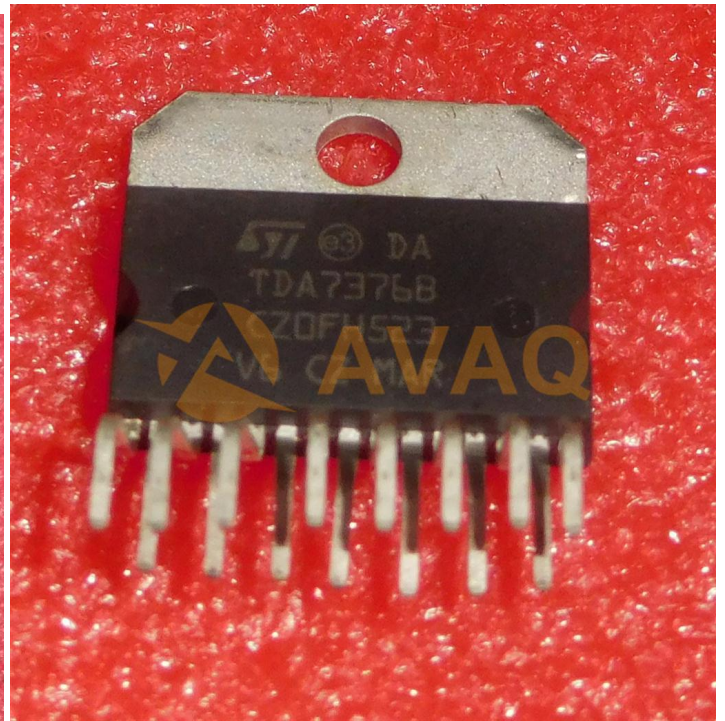
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fortuitous open ground

loudspeaker dc current

ESD



## Recommended For You

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### **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

### **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

### **TDA75610LV**

STMicroelectronics, Inc  
ZIP27

### **TDA7562B**

STMicroelectronics, Inc  
ZIP27