



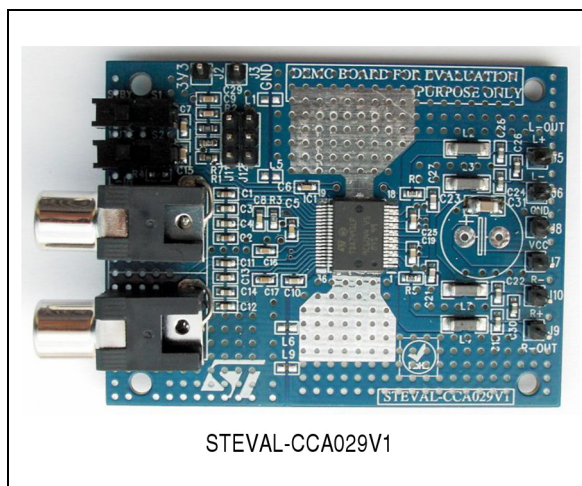
STEVAL-CCA029V1

5 W + 5 W class-D audio amplifier demonstration board based on the TDA7491LP

Data brief

Features

- 5 W + 5 W continuous output power at THD = 10%, $R_L = 8\ \Omega$, $V_{CC} = 9\text{ V}$
- 5 W + 5 W continuous output power at THD = 10%, $R_L = 4\ \Omega$, $V_{CC} = 6.5\text{ V}$
- Power supply voltage range: 5 V to 14 V
- Number of channels: 2 BTL (bridge tied load) stereo
- Load impedance: 4 Ω to 8 Ω
- Gain settings: 20 dB, 26 dB, 30 dB, 32 dB
- Undervoltage protection (UVP): 4 V
- External synchronization
- RoHS compliant



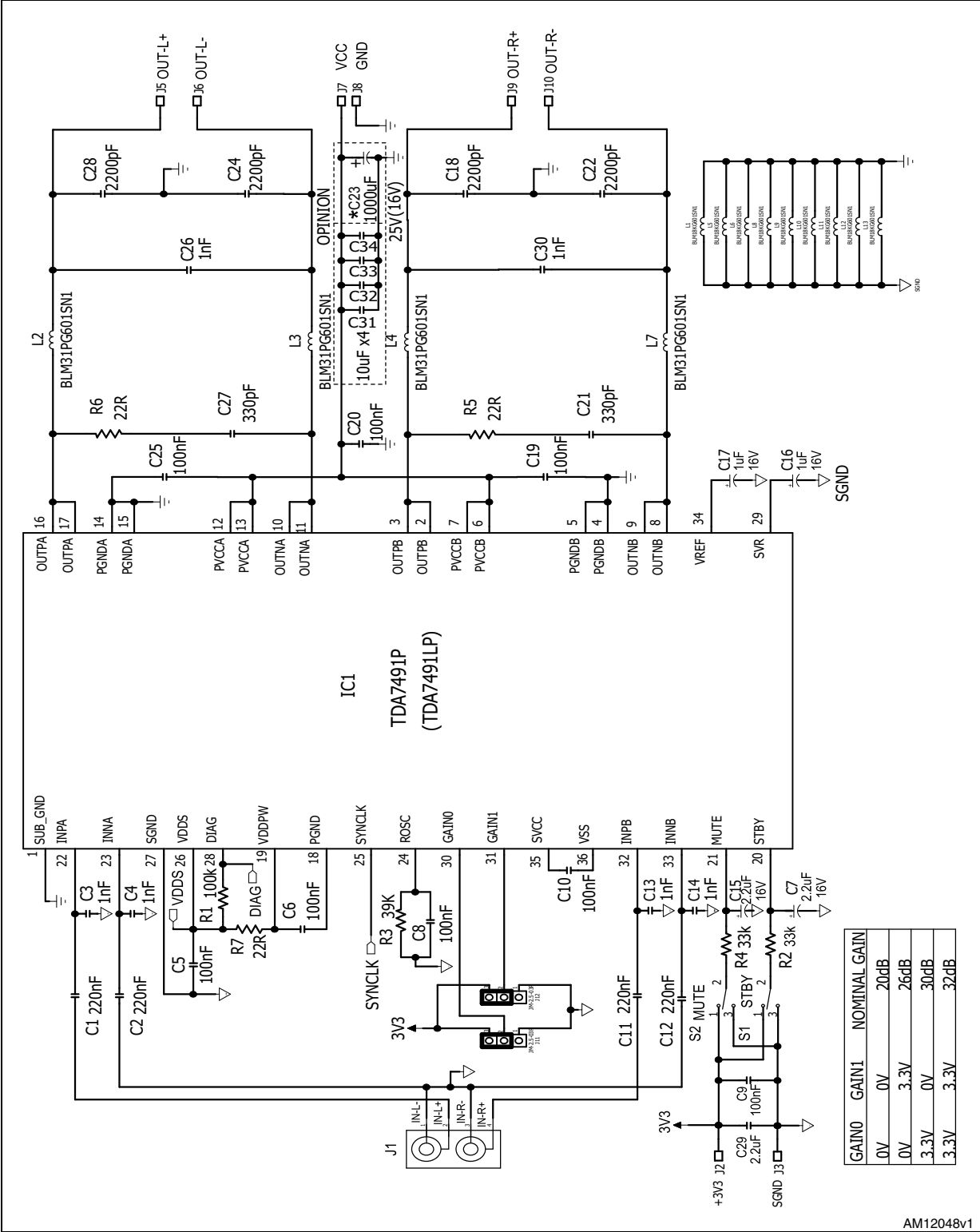
Description

The STEVAL-CCA029V1 demonstration board is designed for the evaluation of the TDA7491LP dual BTL class-D audio amplifier.

Due to its high efficiency, the device, assembled in the PSSO36 (slug-down) package, is capable of dissipating heat without any heatsink. Jumpers on the board allow the configuration of the amplifier in order to verify all the features as single-ended or differential inputs, fixed gain settings. Microswitches are also provided to enable the standby and mute functions.

1 Schematic

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
13-Jun-2012	1	Initial release.

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