



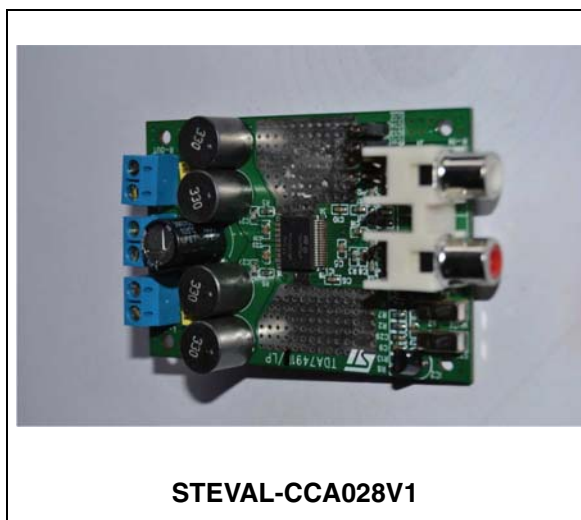
STEVAL-CCA028V1

10 W + 10 W class-D audio amplifier demonstration board
based on the TDA7491P

Data brief

Features

- 10 W + 10 W continuous output power at THD = 10%, $R_L = 6\ \Omega$, $V_{CC} = 11\text{ V}$
- 9.5 W + 9.5 W continuous output power at THD = 10%, $R_L = 8\ \Omega$, $V_{CC} = 12\text{ V}$
- Wide-range single-supply operation (5-18 V)
- High efficiency ($\eta = 90\%$)
- Four selectable, fixed gain settings (20 dB, 26 dB, 30 dB and 32 dB)
- Differential inputs to minimize common-mode noise
- Filterless operation
- Standby and mute features
- Short-circuit and thermal overload protections
- Externally synchronizable
- RoHS compliant



Description

The STEVAL-CCA028V1 demonstration board is designed for the TDA7491P high-power dual BTL class-D audio amplifier.

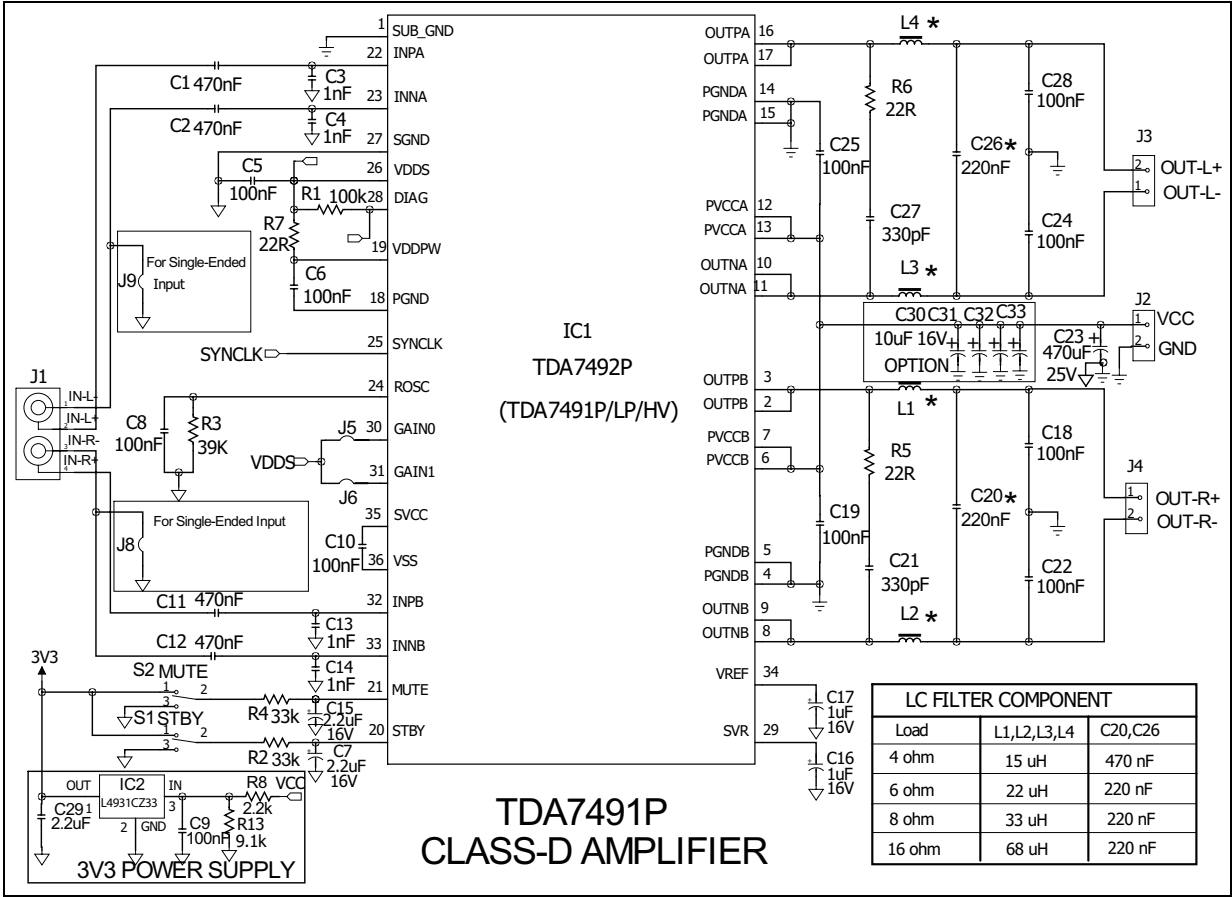
Thanks to its high efficiency, the device assembled in the PSSO36 (slug-down) package is capable of dissipating heat without any heatsink.

Jumpers on the board allow configuring 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
05-Oct-2011	1	Initial release.

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