

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%, $R_L = 6 \Omega$, $V_{CC} = 11 V$
- 9.5 W + 9.5 W continuous output power at THD = 10%, R_L = 8 Ω, V_{CC} = 12 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.



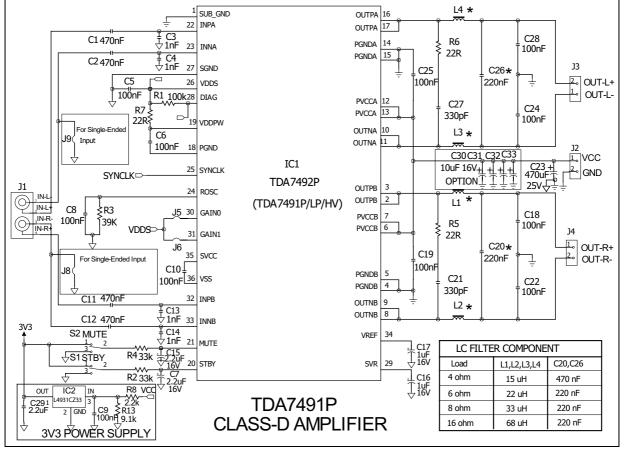
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For further information contact your local STMicroelectronics sales office.

1 Schematic







2 Revision history

Table 1.Document revision history

Date	Revision	Changes
05-Oct-2011	1	Initial release.



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