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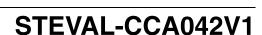
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STMicroelectronics STEVAL-CCA042V1

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Datasheet of STEVAL-CCA042V1 - BOARD EVAL FOR TDA7491HV Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





20 W + 20 W dual BTL class-D audio amplifier demonstration board based on the TDA7491HV

Data brief

Features

- = 20 W +20 W continuous output power at THD = 10%, $R_L = 8 \Omega$, $V_{CC} = 18 V$
- 9.5 W + 9.5 W continuous output power at THD = 10%, $R_1 = 8 \Omega$, $V_{CC} = 12 V$
- Wide-range single-supply operation (5 18 V)
- High efficiency (η= 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

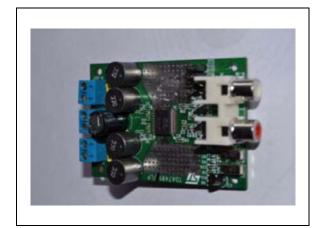
Description

The STEVAL-CCA042V1 demonstration board is designed for the TDA7491HV 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 a heatsink.

Jumpers on the board allow configuration of the amplifier 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

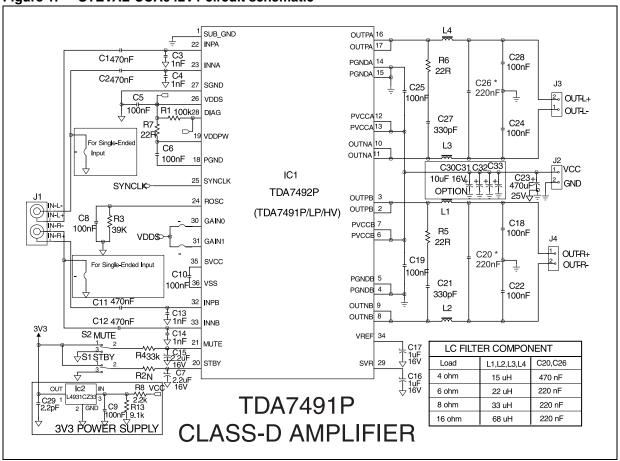




Schematic diagram STEVAL-CCA042V1

1 Schematic diagram

Figure 1. STEVAL-CCA042V1 circuit schematic





STEVAL-CCA042V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
25-Oct-2012	1	Initial release.





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STEVAL-CCA042V1

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