STEVAL-CCA044V1

160 W + 160 W dual BTL class-D audio amplifier demonstration board based on the TDA7498E

Data brief



Features

- High output-power capability:
  - 2 x 160 W / 4 Ω at 36 V, 1 KHz, THD = 10%
  - 1 x 220 W / 4 Ω at 36 V, 1 KHz, THD = 10%
- Wide-range, single supply operation (14 V-36 V)
- High efficiency (η = 85%)
- Four selectable, fixed gain settings (23.6 dB, 29.6 dB,33.1 dB and 35.6 dB)
- Differential inputs to minimize common-mode noise
- Standby and mute features
- Short-circuit and thermal overload protection
- Externally synchronizable
- RoHS compliant

Description

The STEVAL-CCA044V1 demonstration board is designed for the TDA7498E 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.

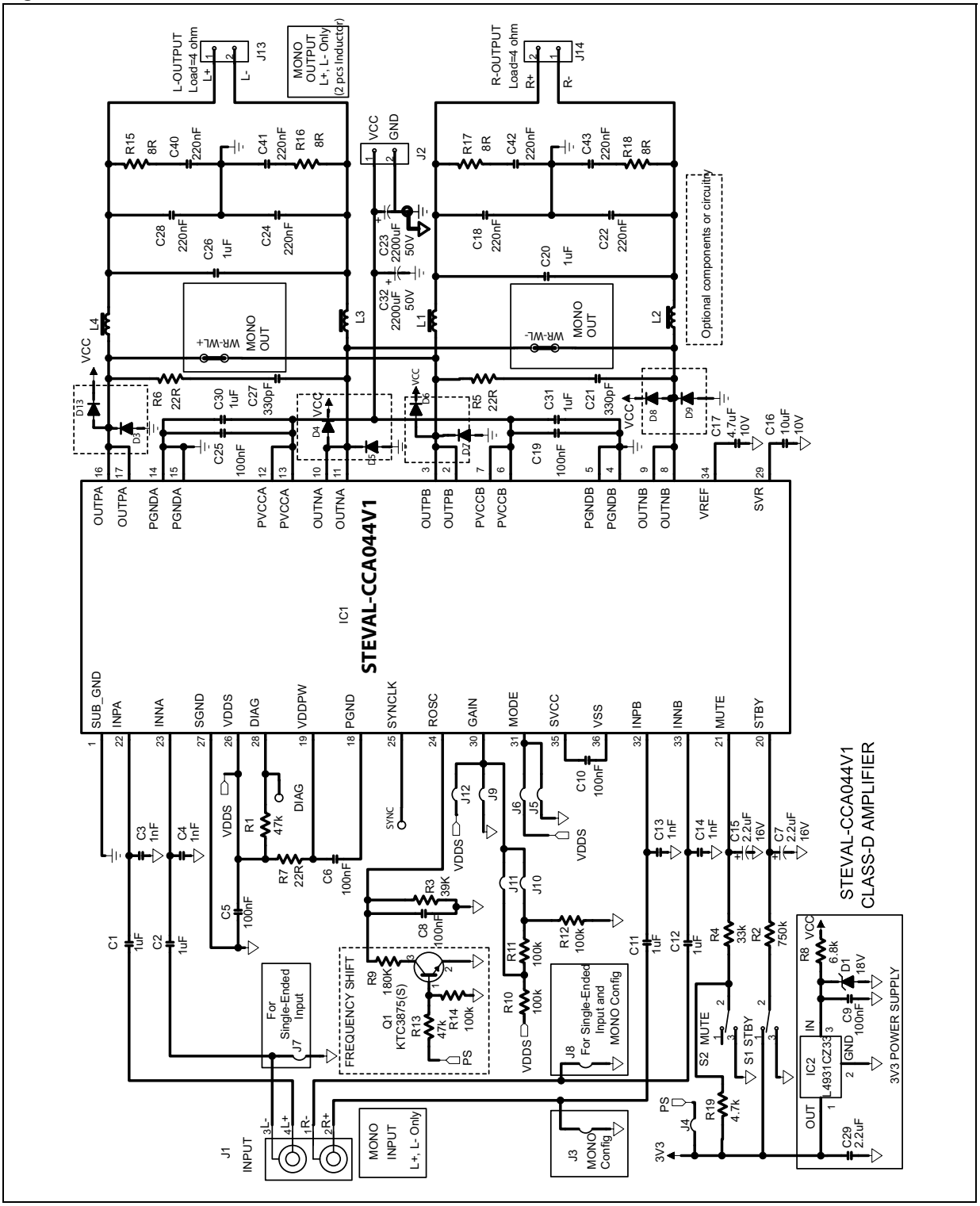
Jumpers on the board allow the configuration of the amplifier in order to verify all the features as single-ended or differential input, fixed gain settings.

Microswitches are also provided to enable the standby and mute functions.

For further information contact your local STMicroelectronics sales office. www.st.com

1 Schematic diagram

Figure 1. STEVAL-CCA044V1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
31-Jan-2013	1	Initial release.

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