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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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.

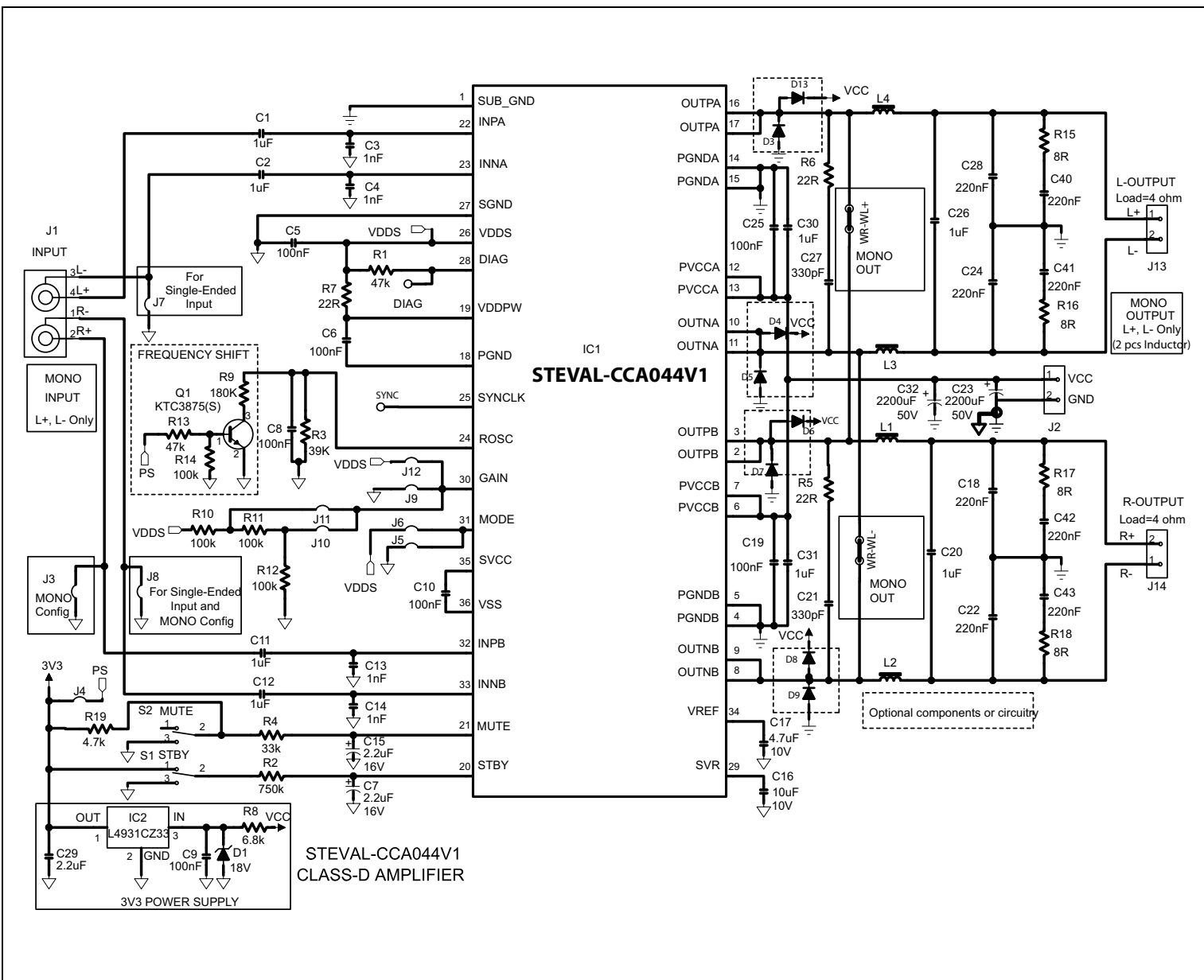
Thanks to its high efficiency, the device assembled in the PSSO36 (slug-down) package is capable of dissipating heat without a heatsink.

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.

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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