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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-CCA007V1

Demonstration board for the TS2012 filter-free stereo 2 x 2.8 W, class D audio power amplifier

Data Brief

Features

- Operating range from $V_{CC} = 2.5\text{ V}$ to 5.5 V
- Standby mode (active low)
- Output power per channel: 1.35 W at 5 V or 0.68 W at 3.6 V , $8\ \Omega$ with 1% THD+N max
- Output power per channel: 2.2 W at 5 V , $4\ \Omega$ with 1% THD+N max
- Four gain select settings: 6, 12, 18, 24 dB
- Low current consumption
- PSRR: 70 dB (typ) at 217 Hz with 6 dB gain
- Fast start-up phase: 1 ms
- Thermal shutdown protection
- QFN20 4x4 mm lead-free package

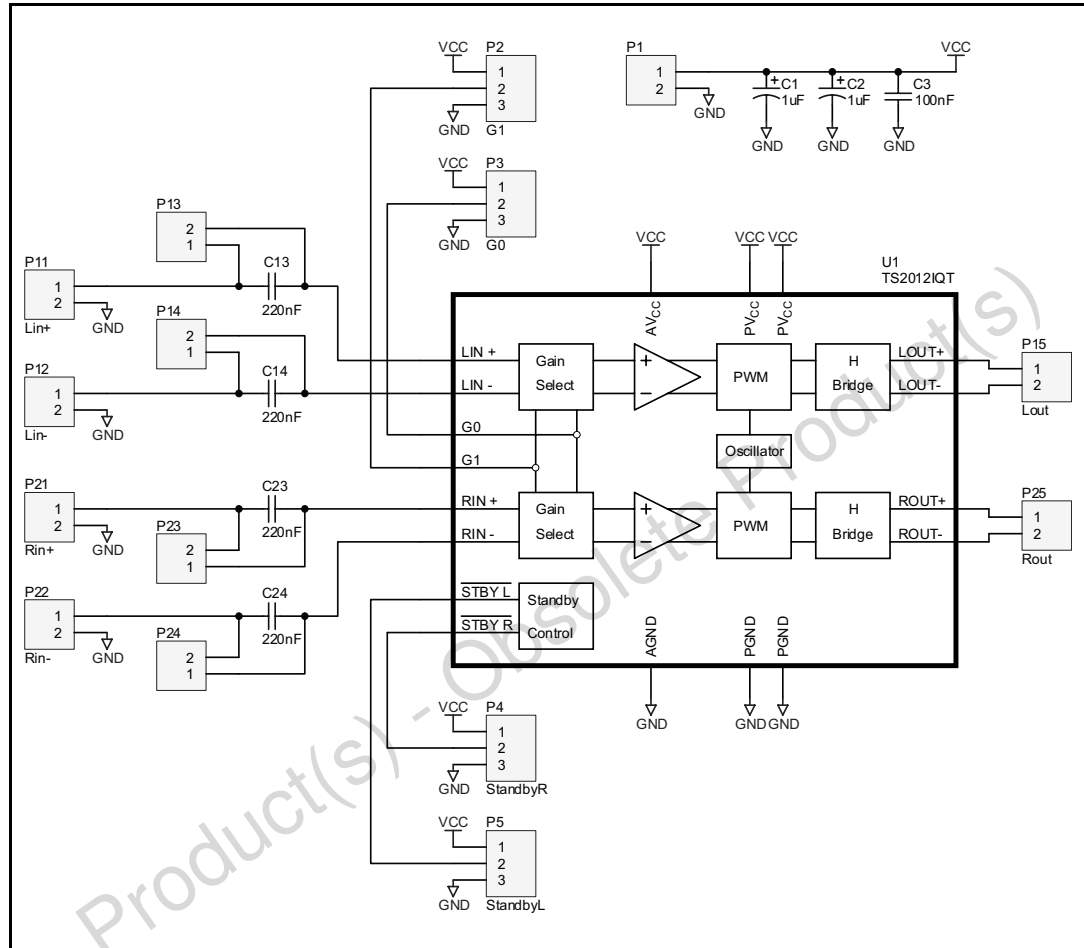
Description

The STEVAL-CCA007V1 demonstration board is designed to test the features and performance of the TS2012, a fully differential class D stereo power amplifier. The TS2012 device is housed in a QFN package and mounted on a two-layer PCB, with the copper area acting as a heatsink. Easily accessible connectors on the board allow changing or driving the gain select pins (G0 and G1) and standby control pins. It is also possible to change the input configuration of the TS2012.



1 Circuit schematic

Figure 1. STEVAL-CCA007V1 schematic diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
07-Jul-2008	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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