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STEVAL-CCA019V1

2 W stereo audio power amplifier based on the TS4982

Data brief

Features

- 2 W output power into 4 Ω load per channel
- 125 mW into 16 Ω load ground-referenced stereo headphone driver
- Four-step gain settings on speaker path
- 3 levels of 3D effect on speaker path
- PC-beep input system detection
- ±8 kV HBM ESD-protected headphone outputs
- Pop and click reduction circuitry
- 32-pin 5 x 5 mm QFN package
- Thermal shutdown and output short-circuit protection
- RoHS compliant

AM05060v1

Description

The STEVAL-CCA019V1 is a demonstration board designed to help in the characterization of the TS4982, which features a stereo loudspeaker driver and a ground-referenced stereo headphones driver. An independent standby mode pin allows the TS4982 to simultaneously drive both output drivers.

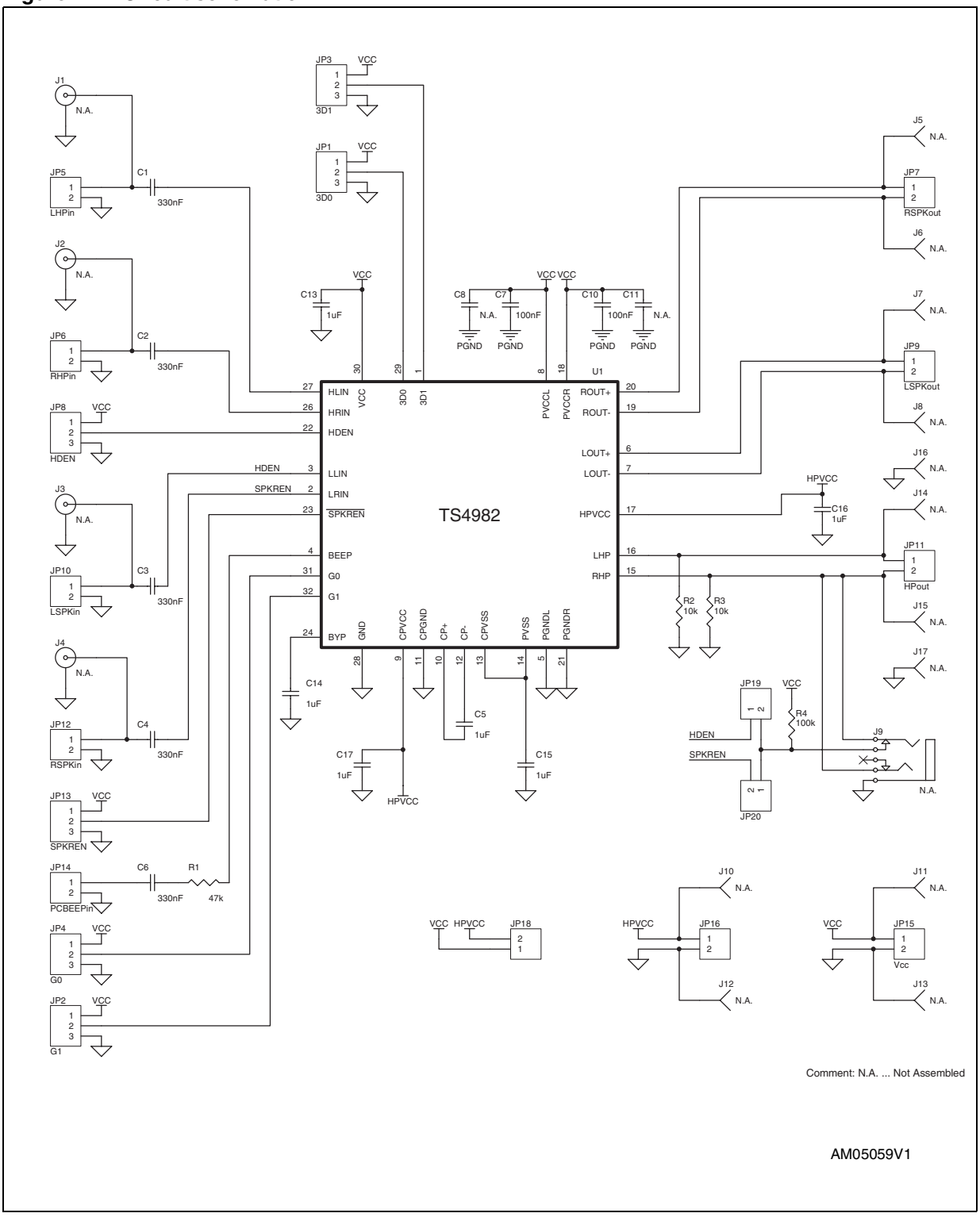
Operating on a single 5 V supply, the TS4982 delivers 2 W (typ.) output power into a 4 Ω load at 1% THD+N.

The TS4982 features a PC beep input, three levels of 3D stereo enhancement and 4-step gain control using two digital input pins.

A minimum number of external components makes the TS4982 well suited for notebook and other hand-held sound equipment. It also has an internal thermal shutdown (150° C) and output short-circuit protection mechanism. The TS2012 is available in a 4x4 mm QFN20 package.

1 Schematic diagram

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Jul-2009	1	Initial release.