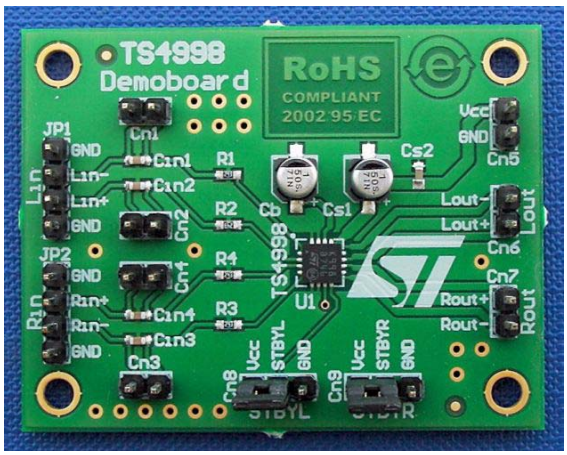
STEVAL-CCA008V1

Demonstration board for 2x1 W differential input stereo audio amplifier based on the TS4998

Data Brief

Features

- Operating range from V_{CC} = 2.7 V to 5.5 V
- 1 W output power per channel @V_{CC} =5 V,THD+N =1%, RL =8 Ω
- Ultra low standby consumption:10 nA typ.
- 80 dB PSRR @ 217 Hz with grounded inputs
- High SNR: 106 dB(A) typ.
- Fast startup time: 45 ms typ.
- Circuit free of Pop and click
- Dedicated standby pin per channel
- Lead-free QFN16 4x4mm package



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Description

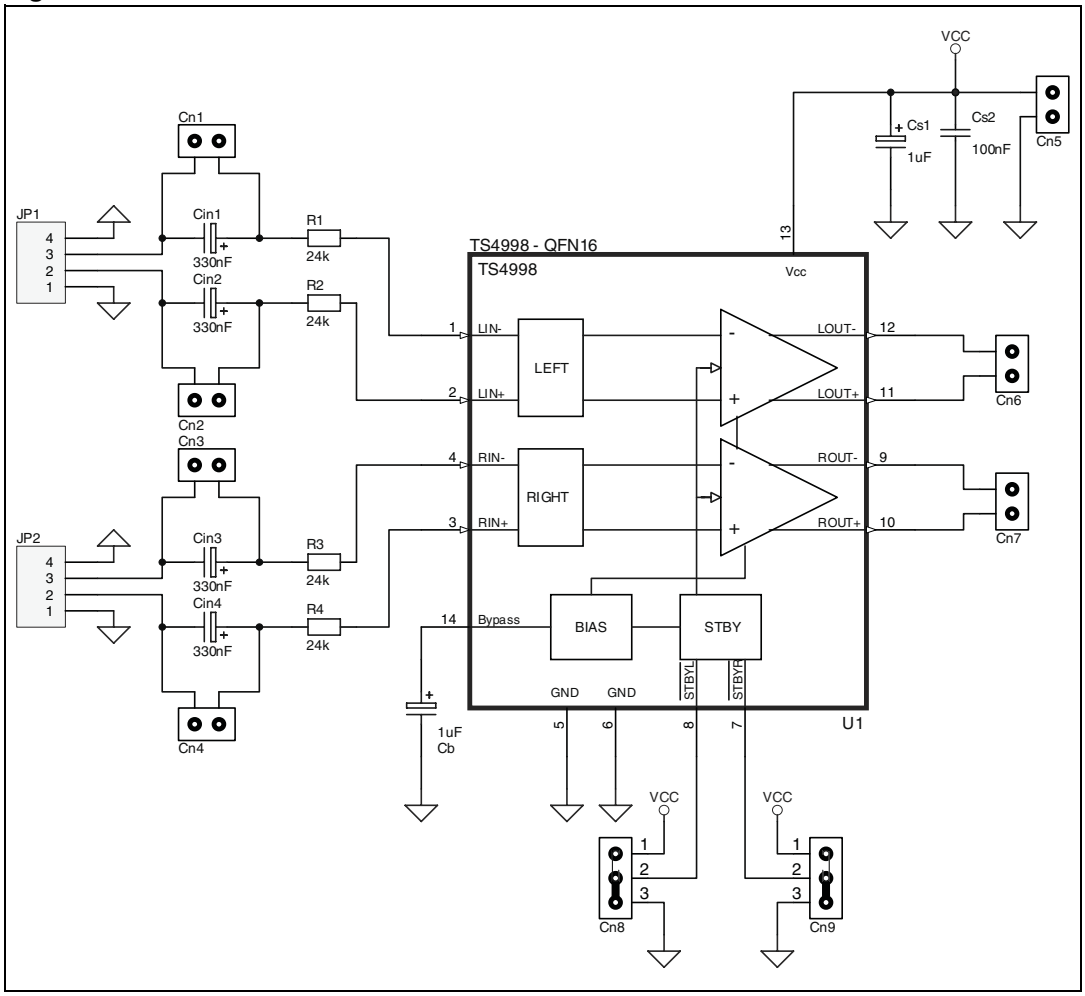
The demonstration board STEVAL-CCA008V1 is made to evaluate the TS4998 that is designed for top-class stereo audio applications. Thanks to its compact and power-dissipation efficient QFN16 package with exposed pad, it suits a variety of applications. With a BTL configuration, this audio power amplifier is capable of delivering 1 W per channel of continuous RMS output power into an 8 Ω load at 5 V.

Each output channel (left and right) also has its own external controlled standby mode pin to reduce the supply current to less than 10 nA per channel. The device also features an internal thermal shutdown protection. The gain of each channel can be configured by external gain setting resistors.

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

1 Circuit schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
09-Feb-2009	1	Initial release.

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