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Low-voltage stereo audio power amplifier based on the TS4984

Data Brief

Features

- Operates from $V_{CC}=2.2\text{ V}$ to 5.5 V
- 1 W output power per channel @ $V_{CC}=5\text{ V}$, $\text{THD+N}=1\%$, $R_L=8\ \Omega$
- 10 nA standby current
- 62 dB PSRR @ 217 Hz with grounded inputs
- High SNR: 100 dB (A-weighted filter) typ.
- Near-zero pop and click
- Available in the QFN16 $4\times 4\text{ mm}$, 0.5 mm pitch, lead-free package

Description

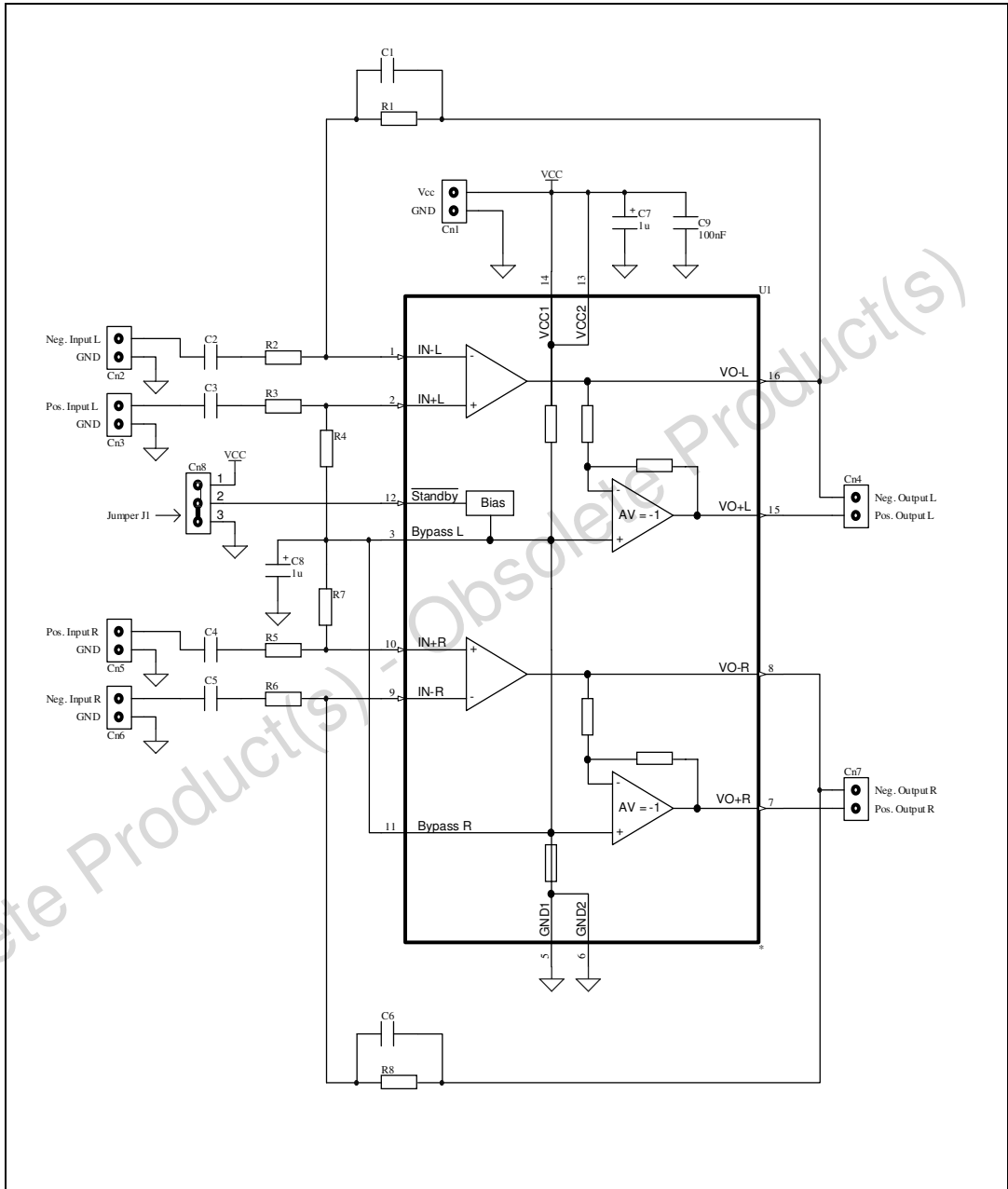
This evaluation board is designed for the TS4984 stereo audio power amplifier. The micro-package QFN16 (quad, flat, non-leaded, 16-pin) combines space-saving with good thermal dissipation. The BTL gain is set at 2 V for both channels and can be adapted if necessary with a modification of $R1/R8$ or $R2/R6$ values for the left/right channels. The $R3/R6$ and $C3/C5$ component locations are empty on the board to allow changes to both input configurations from single-ended to differential. For use in differential mode, $R4/R7$ must be modified. The $C1/C6$ component locations are also left empty so that, if required, a low-pass filter can be added.



STEVAL-CCA003V1

1 Circuit schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
28-Jan-2008	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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