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Mono class audio amplifier based on TS4962MEIJT in flip chip

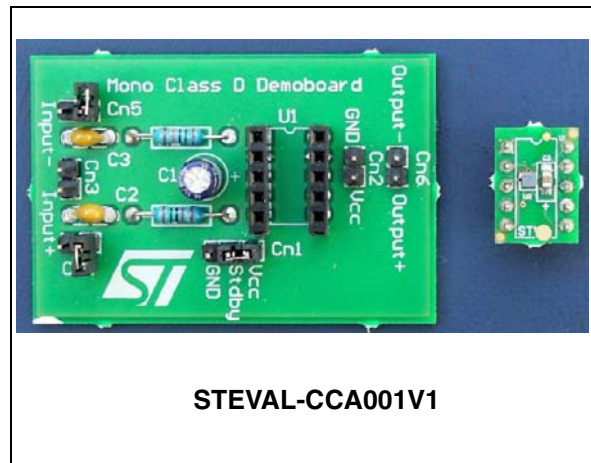
Data Brief

Features

- Operating from $V_{CC} = 2.4\text{ V}$ to 5.5 V
- Ultra low power consumption in standby mode (10 nA)
- 63 dB PSRR @ 217 Hz in grounded mode (average = 2 V/V)
- Low pop and click
- Fast startup time (5 ms)
- Module gain set at 2 V/V
- Thermal and short circuit protection

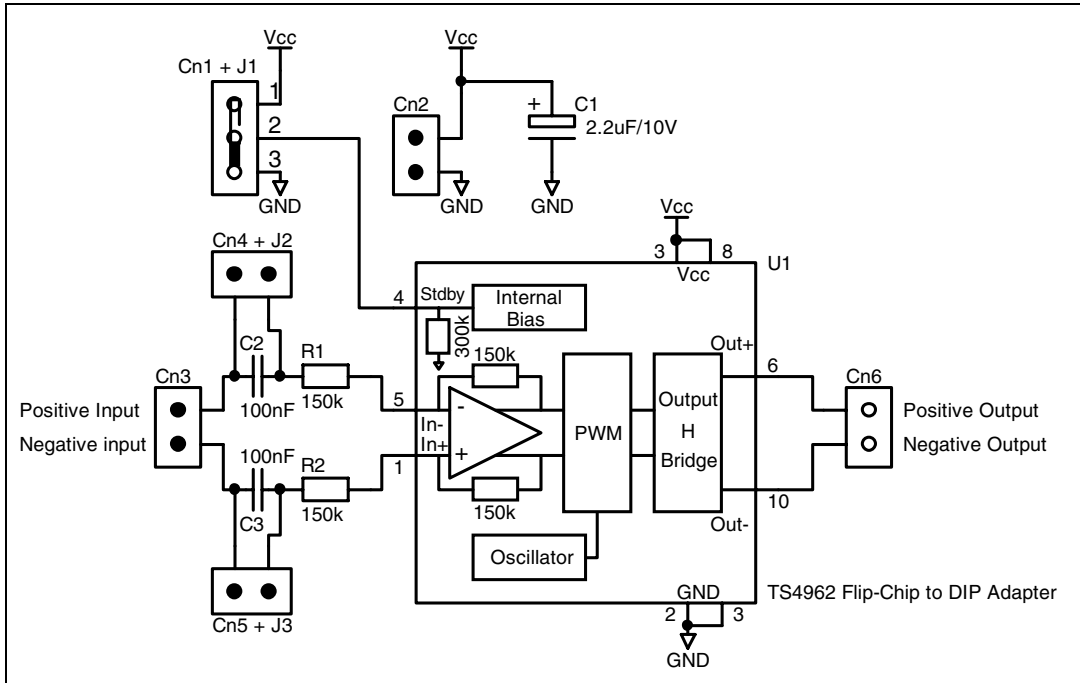
Description

This board is a general-purpose development platform for all applications based on the TS4962M mono class D audio amplifier. The TS4962M is a monolithic fully-differential input/output class D power amplifier. It also includes a common-mode feedback loop that controls the output bias value to average it at $V_{CC}/2$ for any DC common mode input voltage. This allows the device to always have a maximum output voltage swing, and consequently maximizes the output power. Moreover, as the load is connected differentially compared to a single-ended topology, the output is four times higher for the same power supply voltage.



1 Board schematic

Figure 1. Scheme



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
19-Oct-2007	1	Initial release

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