

### Features

- Operating from  $V_{CC} = 2.2\text{ V}$  to  $5.5\text{ V}$
- Active low standby mode
- $1.2\text{ W}$  output power @  $V_{CC} = 5\text{ V}$ , THD = 1%,  $F = 1\text{ kHz}$ , with  $8\ \Omega$  load
- Ultra low power consumption in standby mode (10 nA)
- 62dB PSRR @ 217 Hz in grounded mode ( $A_v = 2\text{ V/V}$ )
- Near zero pop and click
- Ultra low distortion (0.1%)
- Module gain set at  $2\text{ V/V}$
- Thermal and short-circuit protection
- RoHS compliant



### Description

The STEVAL-CCA037V1 demonstration board is designed to evaluate the TS4990IQT low power audio amplifier. The micro package DFN8 (dual flat non-leaded 8 pins) allows space saving and good thermal dissipation.

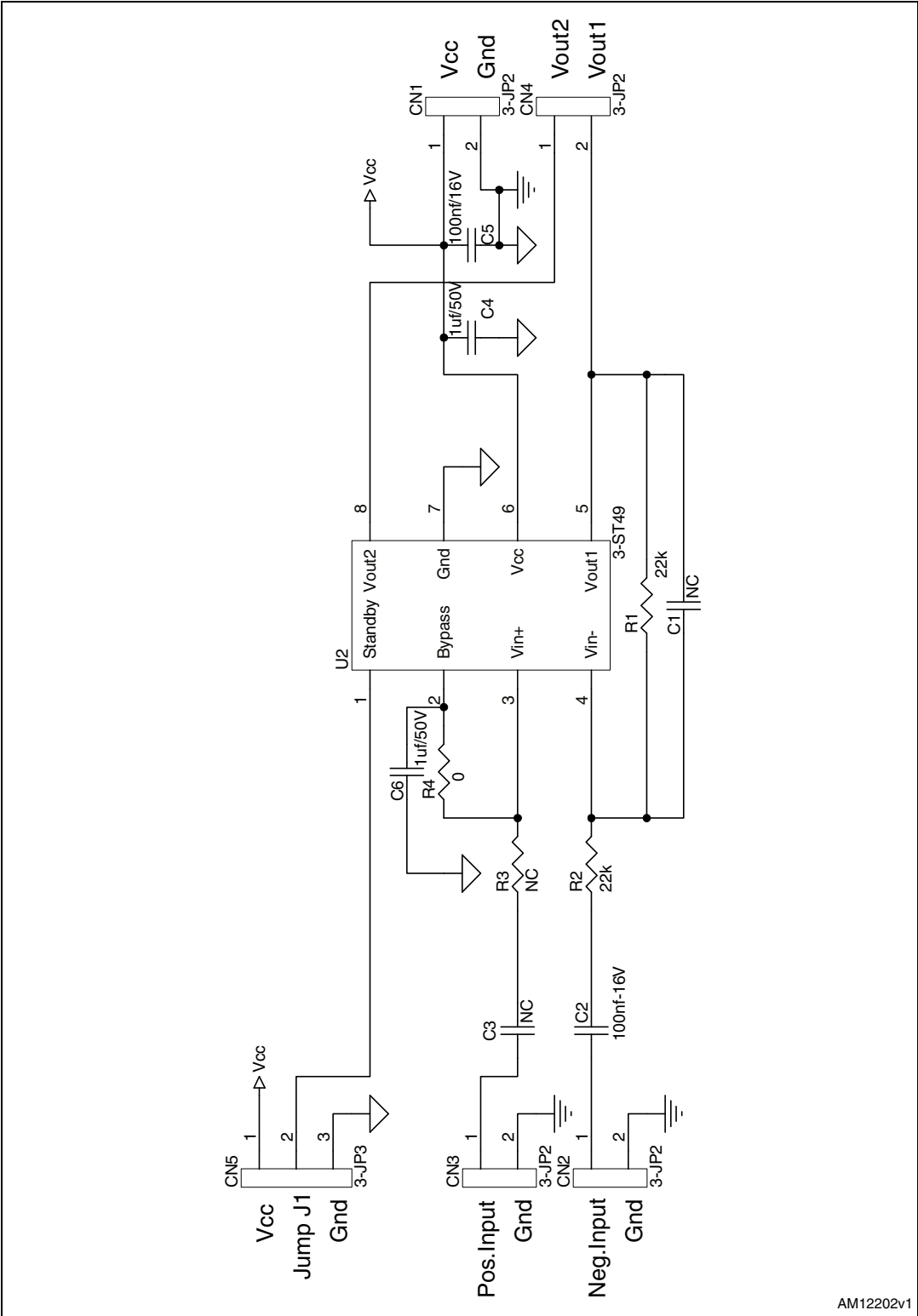
The BTL gain is set at  $2\text{ V/V}$  and can be adapted if necessary with a modification of two (R1 or R2) resistor values.

It is possible to modify the input configuration from single ended to differential of the STEVAL-CCA037V1 demonstration board.

More information regarding component calculations is available in the TS4990 datasheet.

1 Schematic diagram

Figure 1. Schematic diagram



## 2 Revision history

**Table 1. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 27-Apr-2012 | 1        | Initial release. |

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