



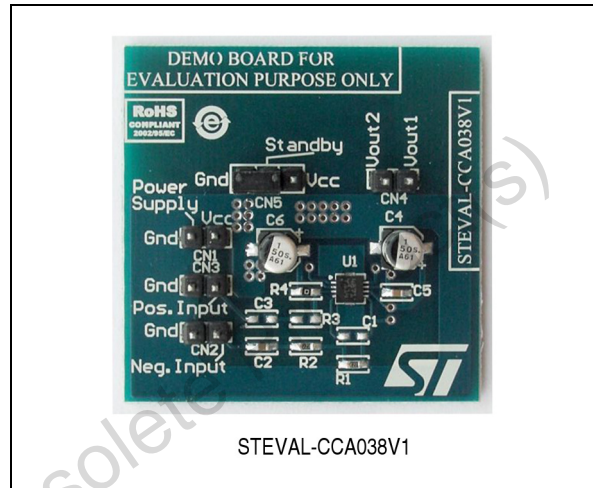
# STEVAL-CCA038V1

## Low-voltage audio power amplifier based on the TS4871IQT

Data brief

### Features

- Operating from  $V_{CC} = 2.2\text{ V}$  to  $5.5\text{ V}$
- Active high 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)
- 62 dB 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 V/V
- Thermal and short-circuit protection
- RoHS compliant



### Description

The STEVAL-CCA038V1 demonstration board is designed for the TS4871 low power audio amplifier. The micro package DFN8 (dual flat non-leaded 8-pin) allows space saving and good thermal dissipation.

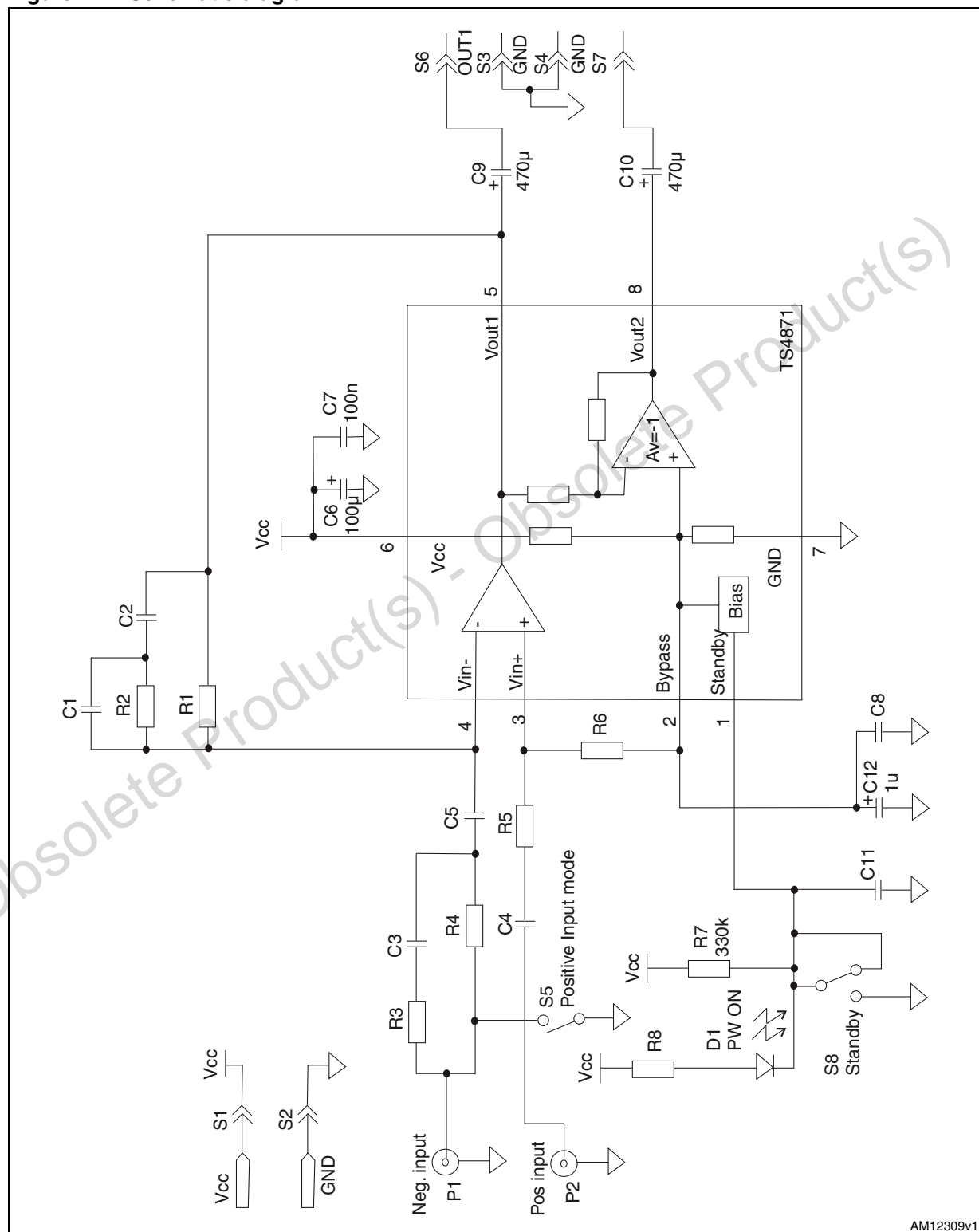
The BTL gain is set at 2 V/V and can be adapted if necessary with a modification of two (R1 or R2) resistor values.

On the board, it is possible to modify the input configuration from single ended to differential.

More information regarding component calculations is available in the TS4871 datasheet.

# 1 Schematic diagram

Figure 1. Schematic diagram



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
25-May-2012	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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