



## Test Procedure for the NCP2809A Evaluation Board

### Equipment Needed:

- DC Power Supply
- Function Generator
- Oscilloscope
- Digital Multimeter

The procedure described below can be used for each schematic.

- Set  $V_p = 5\text{ V}$  to power supply connector.
- Set two 16 Ohm loads (resistance) on the 3 points of output connector J3 and J9.
- With your Function Generator, set a sinewave signal at 1kHz and 1Vrms for the input signal. Connect it to the input connector (J2 & J8): between IN\_R and GND for the right output and once measured, between IN\_L and GND for the left one.
- In case of the big output capacitors schematic, place 1 oscilloscope probe on each output (Right & Left) and you should get a 1Vrms output signal with a "perfect sinewave". That is to say no clipping at the minimum and maximum of the sinewave.
- In case of the capless schematic, place 2 oscilloscope probes on each output (Right & Left) and the virtual ground and you should get a 1 Vrms differential output signal with a "perfect sinewave". That is to say no clipping at the minimum and maximum of the sinewave.
- **During the test with the capless schematic, be careful not to connect the ground to the virtual ground on the output! If you do so, you'll need to solder another NCP2809A.**

This is the only test performed. You could also check the quiescent current. Place two 16 Ohm loads, no input signal,  $V_p$  set to 5V and you should measure around 1.9 mA.