



## Test Procedure for the NCP2815GEVB Evaluation Board

### Output Power :

- 1- Set  $V_p = 1.8$  V to power supply connector (J16).
- 2- Set an  $16 \Omega$  load (resistance) on the output connectors (J8 and J17).
- 3- With the function generator, set a single ended signal at 1 kHz and 0.5 Vrms input signal on the left and right inputs. Apply this signal J5 and J13 connectors.
  - a. On the NCP2815A, as  $R1 = R2 = R3 = R4 = 10k$ , OUTL\_C and OUTR\_C will see 0.5 Vrms. Place an oscilloscope probe on each output. You should get 0.5Vrms output signal with a “perfect sine wave”. That is to say no clipping at the minima and maxima of the sine wave.
  - b. On the NCP2815B, the gain is internally set to -1.5 V/V, OUTL\_C and OUTR\_C will see 0.75 Vrms. Place an oscilloscope probe on each output. You should get 0.75Vrms output signal with a “perfect sine wave”. That is to say no clipping at the minima and maxima of the sine wave

### Quiescent current :

Check the quiescent current. Place an  $16 \Omega$  load on each output (J8, J17), no input signal.  $V_p$  set to 1.8V and J6 closed. You should measure around 1.6 mA.