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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Test Procedure for the NCP 2809A/B

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Table 1: Required Equipment

Oscilloscope	Wave Function Generator	2 oscilloscope probes
Two 16 Ω loads	One NCP2809A/B Evaluation Board	Power Supply

NCP2809A: R1, R2, R3 and R4 must not be soldered. J1, J4 must be closed.

NCP2809B: R1, R2, R3 and R4 must be connected. J1 and J4 must be left opened.

Test Procedure:

1. Connect J7 to Gnd (Device Off).
2. Set $V_p = 5\text{ V}$ to power supply connector.
3. Set two 16 Ω load (resistance) on the 3 points output connector (J3).
4. With your Function Generator set a sine wave signal at 1 kHz and 500 mVrms input signal. Connect it to the input connector (J2): between IN_R and GND for the right output and once measured, between IN_L and GND for the left one.

5. **Connect J7 to Vp (Device On).**
6. **Place 2 oscilloscope probes on each output (Right & Left) and the virtual ground and you should get a 500 mVrms differential output signal with a "perfect sine wave" in case of A version. That is to say no clipping at the minimum and maximum of the sine wave. When using B version with $R2=R4=20\text{ k}\Omega$ and $R1=R3=40\text{ k}\Omega$, you should get a 1 Vrms differential output signal.**
7. **During the test with the capless schematic, be careful not to connect the ground to the virtual ground on the output!**
8. **(Optional) To check the quiescent current, place two $16\ \Omega$ load, no input signal, Vp set to 5V. The current should measure around 1.9 mA.**