



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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 NCP2890GEVB Evaluation Board

NCP2890:

1) If you can use the UPL (R&S) equipment, this is the most complete and recommended solution.

1. Set $V_p=5V$ to power supply connector
2. Set an 8 Ohms load (resistance) on the output
3. With the Upl, select only Channel 1 in Generator panel and Channel 1 in the Analyzer panel (be careful to be in floating mode)
4. Connect Generator (Channel 1) to the input connector. Connect the Analyzer (Channel 1) to the load.
5. Set a voltage sweep for Channel 1 (Generator) at 1kHz frequency between 0 Vrms and 1.6 rms
6. In the analyzer panel select a THDN measurement (Trace A) and in the graph display select for trace B the Input rms value
7. Save trace A and B in the .exp format and with Excel you can compare with the reference file in the attachment: X is the input signal, Y the THDN value and Y2 the RMS measurement. For info: $P_{out}=(RMS)^2/8$. The final graph is THDN vs. P_{out} .

Or,

2) If you can use only a Function Generator for the input signal:

1. Set $V_p=5V$ to power supply connector
2. Set an 8 Ohms load (resistance) on the output
3. With your Function Generator, set a sinewave signal at 1 kHz and 1.4 Vrms input signal with HI-Z. Note that if HI-Z is switched off, use 700 mVrms input signal.
4. Place 2 oscilloscope probes on the output (differential measurement) and you should get a 2.8 Vrms output signal with a “perfect sinewave”. That is to say no clipping at the minimum and maximum of the sinewave.

This is the only test performed. You could also check the quiescent current. Place an 8 Ohms load, no input signal, V_p set to 5 V and you should measure around 2 mA.