



08/06/2016

Test Procedure for the NCP43080LLCGEVB Evaluation Board

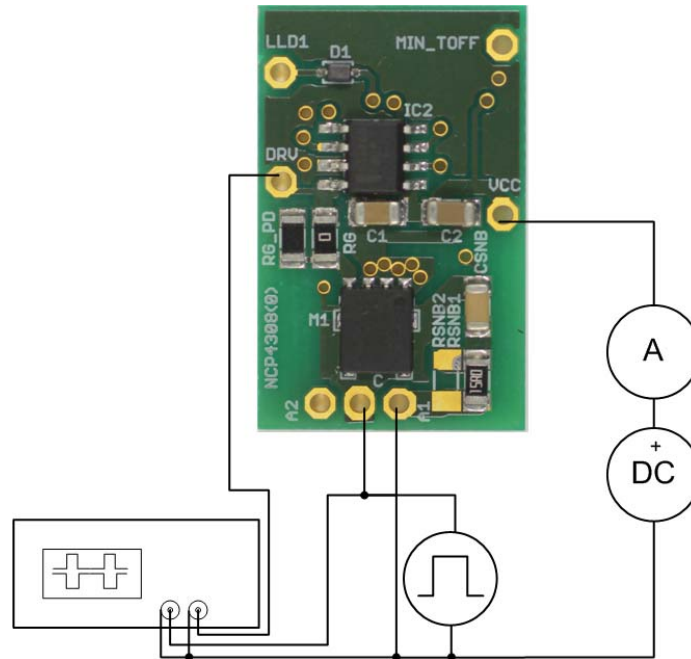


Figure 1: Test Setup

The following steps describe the test procedure for all these boards:

Required Equipment:

| | |
|---|-----|
| DC voltage source (e.g. STATRON 2229) | 1pc |
| DC Amp-Meter (e.g. KEITHLEY 2000)..... | 1pc |
| Function generator (e.g. AFG3252) | 1pc |
| 2 channel oscilloscope | 1pc |

Test Procedure:

1. Connect the test setup as shown in figure 1.
2. Apply an supply voltage, $V_{CC} = 12\text{ V}$
3. Apply pulse from generator (pulse, $f = 100\text{ kHz}$, $DC = 50\%$, $V_{LOW} = -1\text{ V}$, $V_{HIGH} = 4\text{ V}$, output impedance = high Z)
4. Check that $I_{CC} = 7\text{-}10\text{ mA}$, waveforms look like in figure 2 (DRV pulses may oscillate between 470 ns and 5 μs)
5. Set DC to 13%

6. Check that $I_{CC} = \sim 1.6 \text{ mA}$, waveforms look like in figure 3 (no DRV pulses)
7. Turn off V_{CC}
8. End of the test

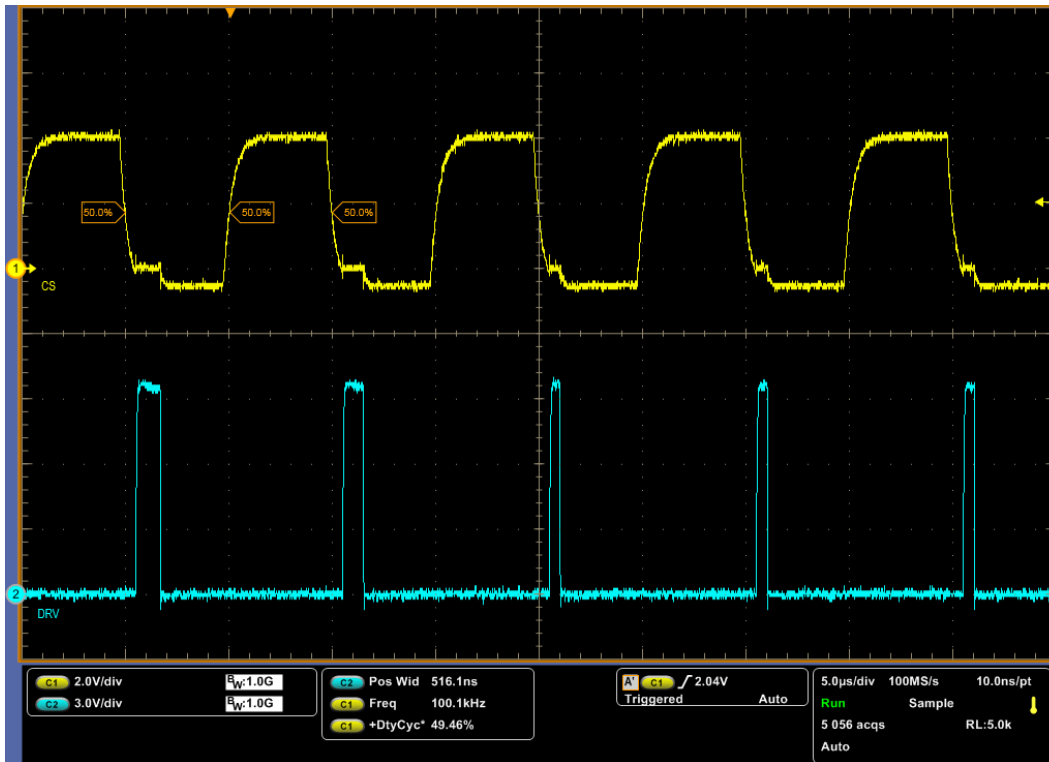


Figure 2: $V_{CC} = 12 \text{ V}$, $f = 100 \text{ kHz}$, $DC = 50\%$, $V_{LOW} = -1 \text{ V}$, $V_{HIGH} = 4 \text{ V}$

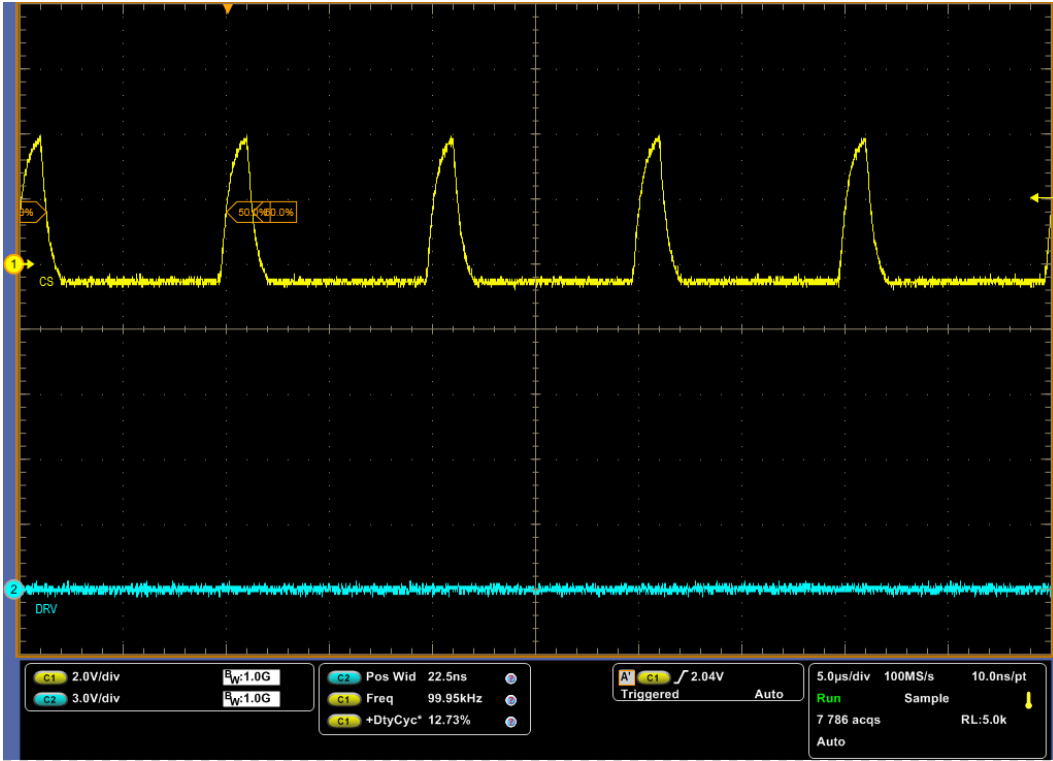


Figure 3: $V_{CC} = 12\text{ V}$, $f = 100\text{ kHz}$, $DC = 13\%$, $V_{LOW} = -1\text{ V}$, $V_{HIGH} = 4\text{ V}$