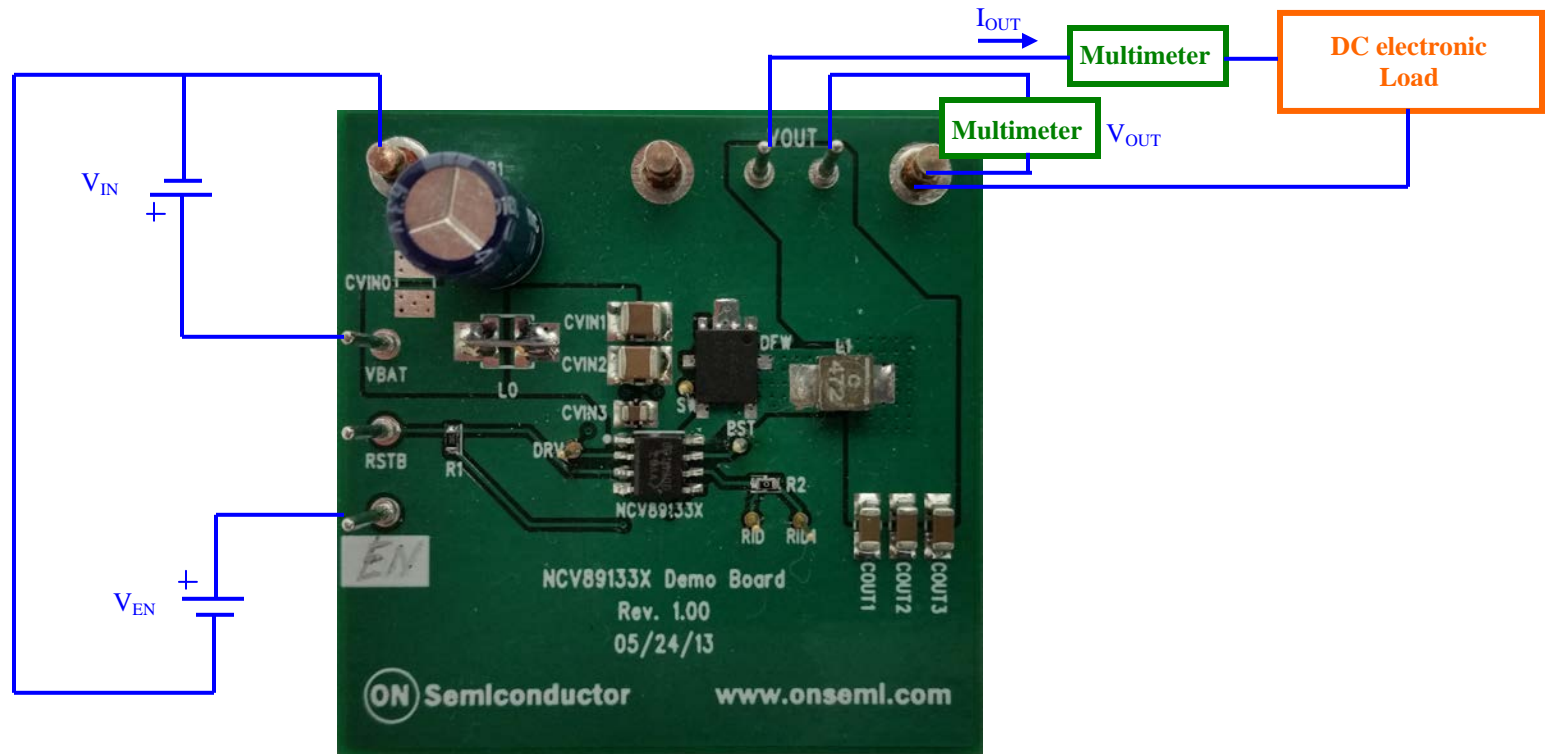




## Test Procedure for the NCV891330-5.0V DEMO BOARD



### Required Equipment

2 x DC voltage source
1 x DC electronic load
2 x Multimeters



### Test Procedure:

1. Connect the test setup as shown above.
2. Make sure the load is not enabled.
3. Apply an enable voltage  $V_{EN}=0V$ . Apply an input voltage,  $V_{IN} = 13.2 V$ .  $V_{OUT}$  *should be 0V*.
4. Apply an enable voltage  $V_{EN}=3V$ . Verify that the *output voltage is 5.0 V +/-0.1 V*.
5. Set up the **load to 2.5A** and **enable** it. Verify that the *output voltage is still 5.0 V +/-0.1 V*.
6. Change the **input voltage to 39 V**. Verify that the *output voltage is 0 V*.
7. Change the **input voltage to 36 V**. Verify that the *output voltage is 5.0 V +/-0.1 V*.
8. Change the **input voltage to 3.8 V**. Verify that the *output voltage is above 2.5 V*.
9. Change the **input voltage to 3.0 V**. Verify that the *output voltage is 0 V*.
10. Change the **input voltage to 6.5 V**. Verify that the *output voltage is 5.0 V +/-0.1 V*.
11. Apply an enable voltage  $V_{EN}=0V$ .  $V_{OUT}$  *should be 0V*.
12. Turn off the DC sources.