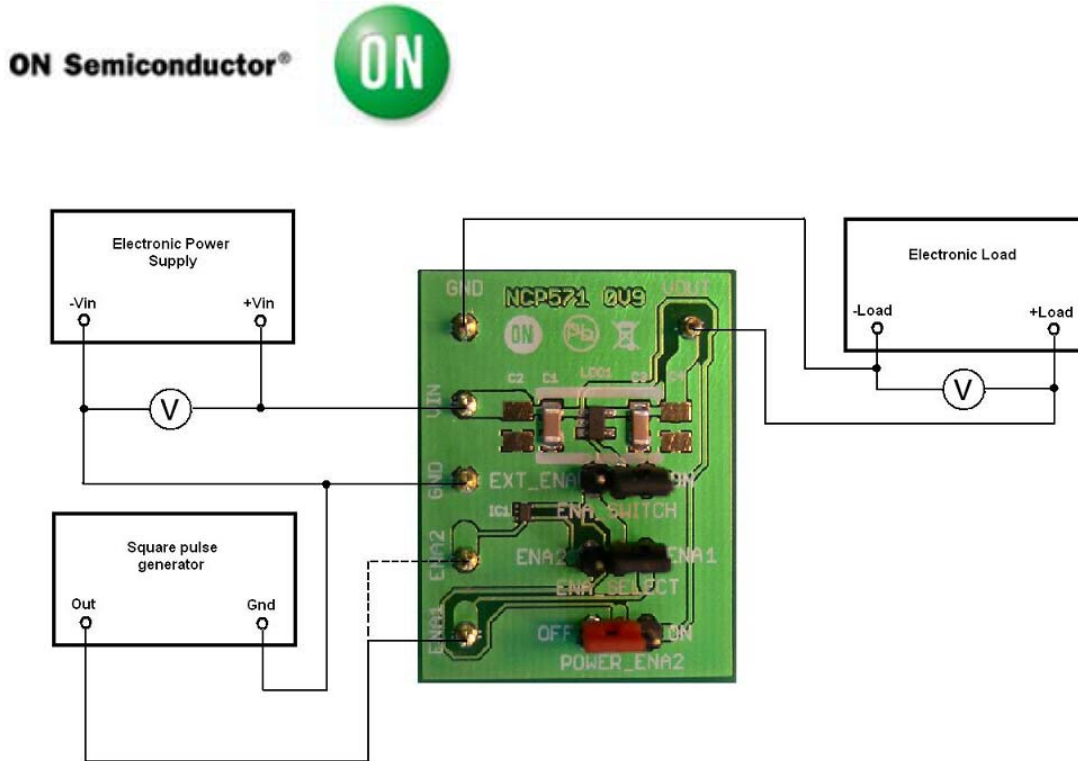


Test Procedure for NCP571 0V9 LDO Demoboard



1. Enable pin connected to Vin

1. Check the position of jumper and correct it if necessary.

- a) **EXT_ENA** - ON
- b) **ENA_SELECT** - ENA1 or ENA2
- c) **POWER ENA2** - OFF

2. Connect the test setup as shown Figure 1

3. Apply an input voltage **V_{in} = 2.7 V**

4. Apply **I_{out} = 0mA** load.

5. Check that **V_{out}** is **0.9 V**.

6. Increase **I_{out}** up to **150 mA**

7. Increase **V_{in}** up to **12 V** and decrease the load in accordance with **SOA**

8. Power down the Load

9. Power down the **V_{cc}**

10. End of test

2. Enable pin connected to pin ENA1

1. Check the position of jumper and correct it if necessary.
 - a) **EXT_ENA** - **EXT_ENA**
 - b) **ENA_SELECT** - **ENA1**
 - c) **POWER ENA2** - **OFF**
2. Connect the test setup as shown Figure 1
3. Apply an input voltage **V_{in} = 2.7 V**
4. Apply I_{out} = 0mA load.
5. Check that V_{out} is **0.9 V**.
6. Increase I_{out} up to 150 mA
7. Increase V_{in} up to 12 V and decrease the load in accordance with SOA
8. Apply the square pulse with **High level below V_{in}** to pin ENA1
9. Check the output voltage and supply current.
10. Power down the Load.
11. Power down the V_{cc}.
12. End of test.

3. Enable pin connected to pin ENA2

1. Check the position of jumper and correct it if necessary.
 - a) **EXT_ENA** - **EXT_ENA**
 - b) **ENA_SELECT** - **ENA2**
 - c) **POWER ENA2** - **ON**
2. Connect the test setup as shown Figure 1
3. Apply an input voltage **V_{in} = 2.7 V**
4. Apply I_{out} = 0mA load.
5. Check that V_{out} is **0.9 V**.
6. Increase I_{out} up to **150 mA**
7. Increase V_{in} up to **5.5 V** and decrease the load in accordance with SOA
8. Apply the square pulse to pin ENA2. The High level of ENABLE signal could be higher than input voltage up to **7 V**.
9. Check the output voltage and supply current.
10. Power down the Load.
11. Power down the V_{cc}.
12. End of test.