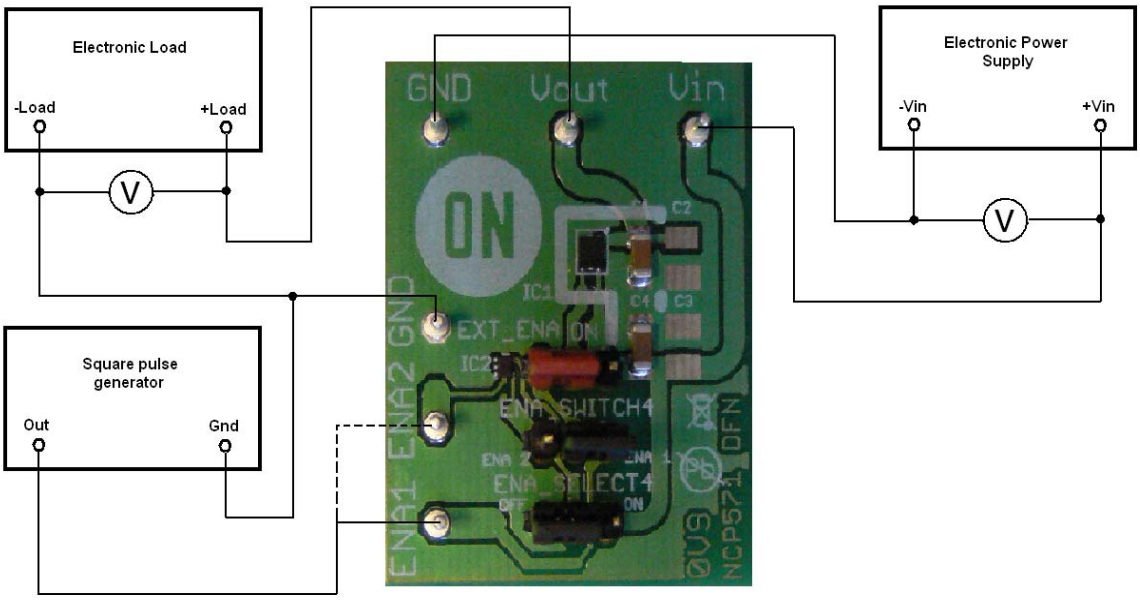
Test Procedure for NCP571 0V9 DFN6 LDO Demoboard



1. Enable pin connected to Vin

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

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

2. Connect the test setup as shown Figure 1
3. Appy an input voltage **Vin = 2.7 V**
4. Appy Iout = 0mA load.
5. Check that Vout is **0.9 V**.
6. Increase Iout up to **150 mA**
7. Increase Vin up to **12 V** and decrease the load in accordance with **SOA**
8. Power down the Load
9. Power down the Vcc
10. End of test

2. Enable pin connected to pin ENA1

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

a)EXT_ENA - EXT_ENA
b)ENA_SELECT - ENA1
c)POWER ENA2 - OFF

2. Connect the test setup as shown Figure 1
3. Appy an input voltage **Vin = 2.7 V**
4. Appy Iout = 0mA load.
5. Check that Vout is **0.9 V.**
6. Increase Iout up to 150 mA
7. Increase Vin up to 12 V and decrease the load in accordance with SOA
8. Appy the square pulse with **High level below Vin** to pin ENA1
9. Check the output voltage and supply current.
10. Power down the Load.
11. Power down the Vcc.
12. End of test.

3. Enable pin connected to pin ENA2

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

a)EXT_ENA - EXT_ENA
b)ENA_SELECT - ENA2
c)POWER ENA2 - ON

2. Connect the test setup as shown Figure 1
3. Appy an input voltage **Vin = 2.7 V**
4. Appy Iout = 0mA load.
5. Check that Vout is **0.9 V.**
6. Increase Iout up to **150 mA**
7. Increase Vin up to **5.5 V** and decrease the load in accordance with SOA
8. Appy 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 Vcc.
12. End of test.