Test Procedure for the NCP3125AGEVB Evaluation Board

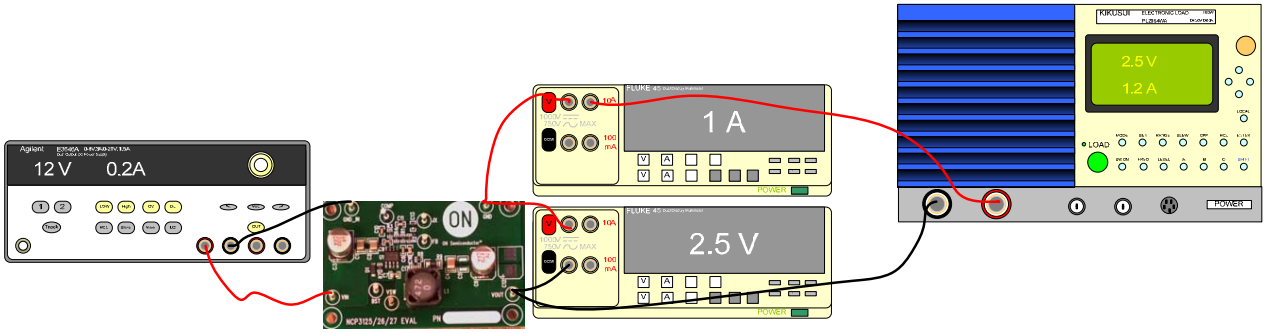

Figure 1: Test Setup

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

Suggested Equipment:
Current limited DC Power Supply (e.g. AGILENT 6645A) …… 1pc
DC Volt-Meter able to measure up to 60 V DC (e.g. KEITHLEY 2000) …… 2pcs
DC Amp-Meter able to measure up to 2 A DC (e.g. KEITHLEY 2000) ……....1pc
DC Amp-Meter able to measure up to 5 A DC (e.g. FLUKE 89 IV)…… 1pc
DC Electronic Load (e.g. AGILENT 6060B) …….... 1pc

Test Procedure:
1. Connect the test setup as shown in Figure 1.
2. Apply an input voltage, V_{IN} = 5.0-13.2 Vdc
3. Apply I_{OUT}(load) = 0 A
4. Check that V_{OUT} = 2.5 Vdc
5. Set I_{OUT} to desired level 0 A- 4 A
6. Check that V_{OUT} = 2.5 Vdc
7. Turn off the load
8. Turn off V_{IN}
9. End of the test

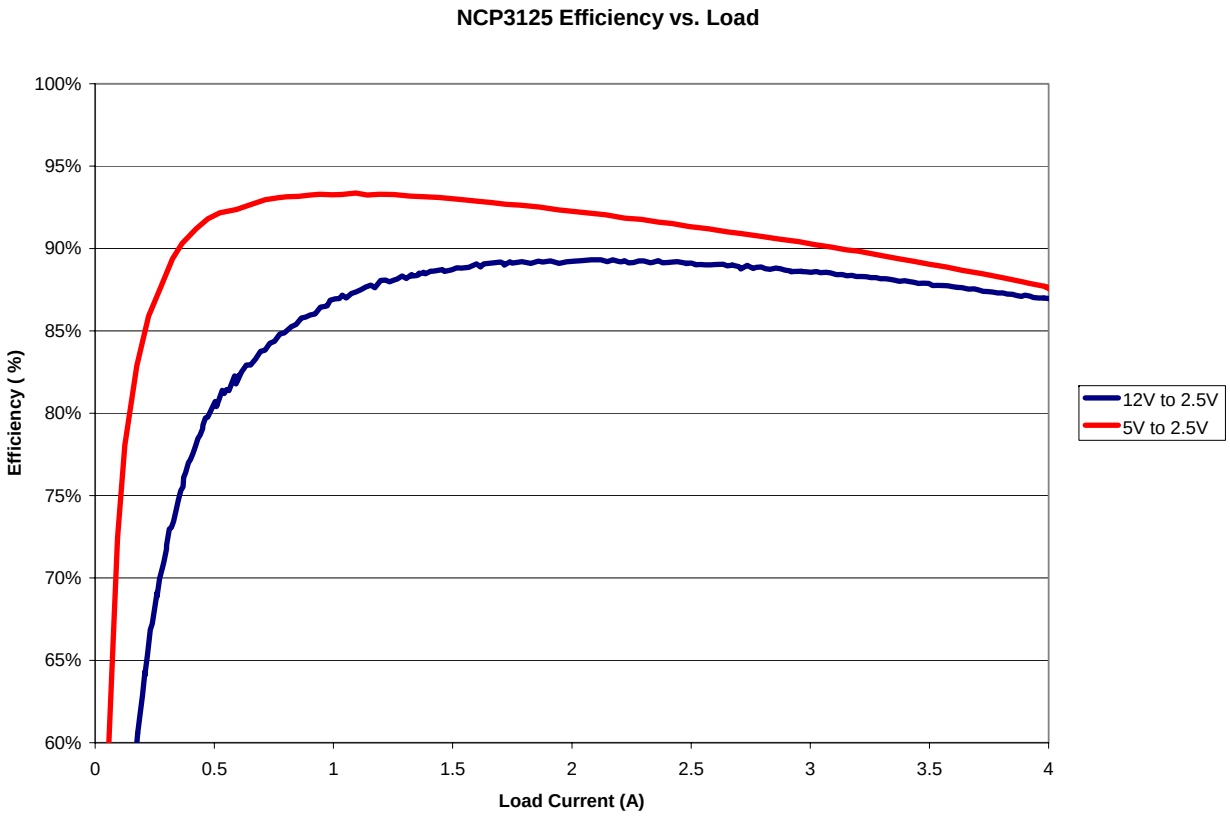

Figure 2: NCP3125 Efficiency at 4.5V-13.2V with a 2.5V Output Voltage

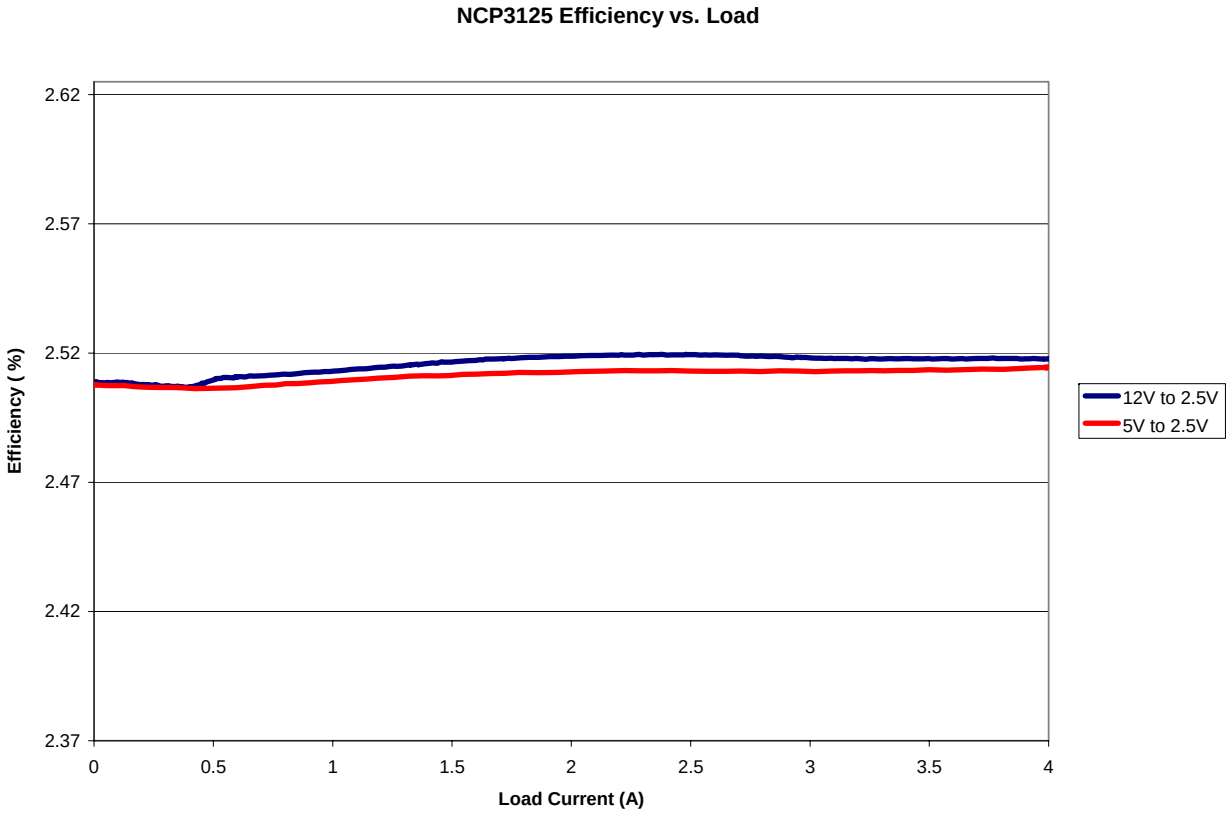

Figure 3: NCP3125 Load Regulation