



ON Semiconductor

Test Procedure for the NCP3011 Evaluation Board

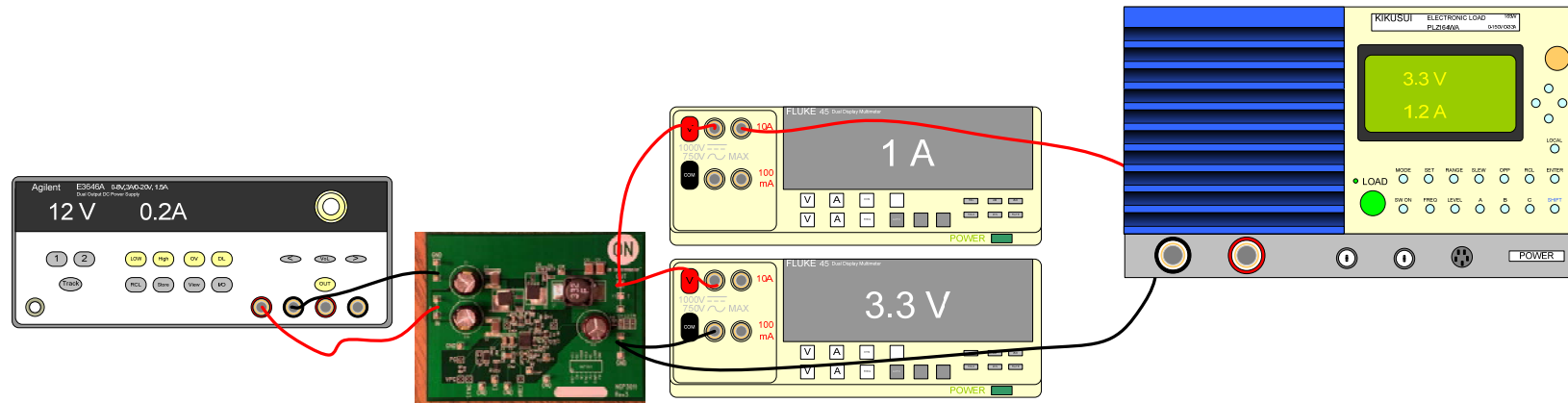


Figure 1: Test Setup

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

Suggested Equipment:

- Current limited DC Power Supply (e.g. AGILENT 6645A) 2pc
- DC Volt-Meter able to measure up to 60 V DC (e.g. KEITHLEY 2000) 2pcs
- DC Amp-Meter able to measure up to 1 A DC (e.g. KEITHLEY 2000)1pc
- DC Amp-Meter able to measure up to 8 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, $V_{IN} = 9-18$ Vdc (Current Limit must be set to 6A)
3. Apply $I_{OUT}(\text{load}) = 0$ A
4. Apply +5 V to VPG
5. Check that $V_{OUT} = 3.2 - 3.4$ Vdc
6. Check that $VPG = 5.0$ Vdc
7. Ground EN
8. Check that $V_{out} = 0$ Vdc
9. Check that $VREF = 1.22 - 1.28$ V
10. Release EN from Ground
11. Set I_{OUT} to desired level 0 A- 8 A
12. Check that $V_{OUT} = 3.2 - 3.4$ Vdc
13. Check that $VPG = 5.0$ Vdc
14. Check that $VREF = 1.22 - 1.28$ V
15. Turn off the load
- 16 Turn off voltage to VPG
17. Turn off V_{IN}
18. End of the test