

Test Procedure for the NCP3163 Buck Evaluation Board

ON Semiconductor®



02/17/2006

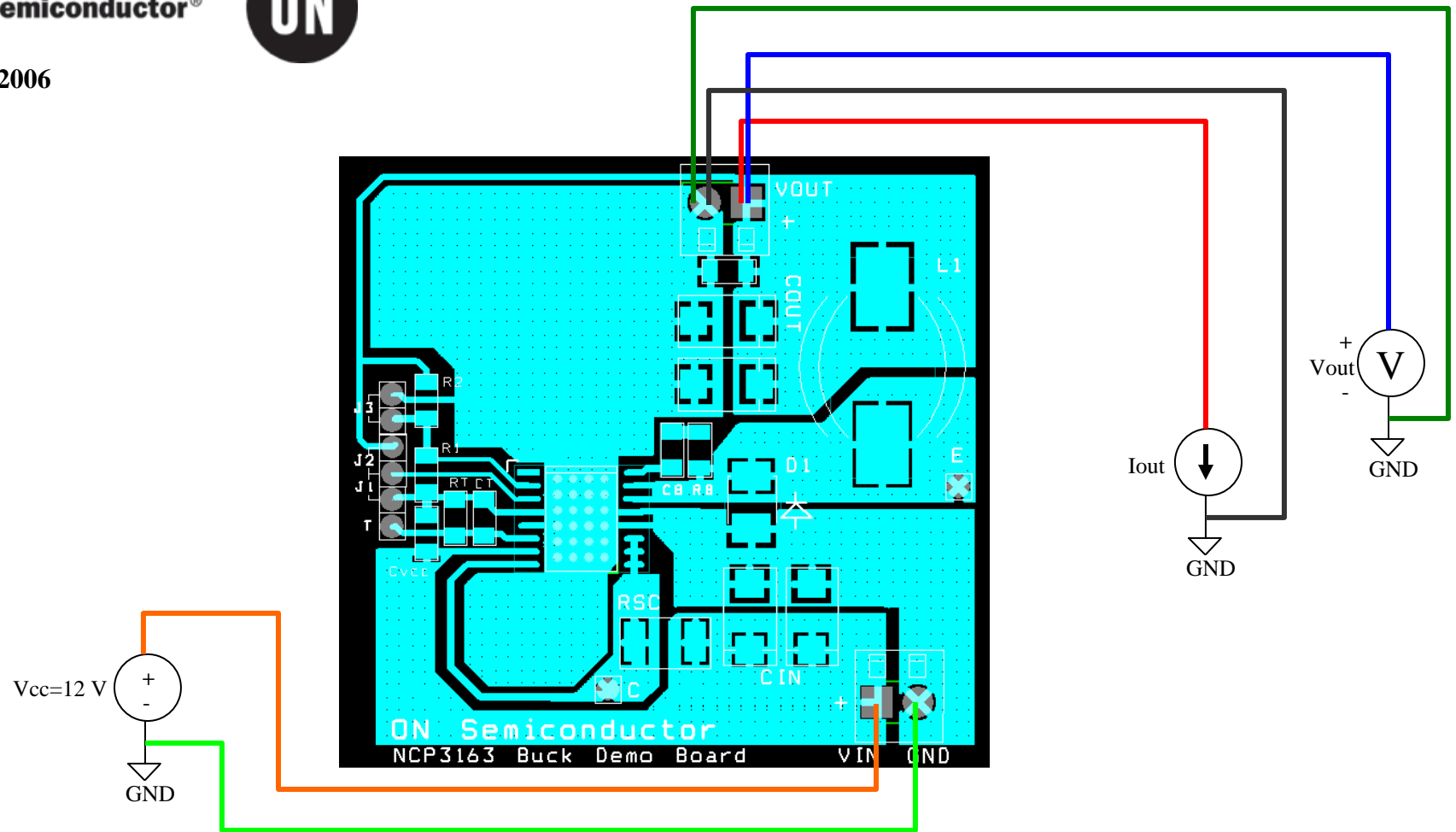


Figure 1: Test Setup

Table 1: Required Equipment

Voltage Supply (12 V, 2 A)	Voltage Meter	Electronic Load or Current Source
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Test Procedure:

1. Connect the test setup as shown in Figure 1.
2. Apply shorting jumpers to J₁. Leave J₂ and J₃ open.
3. Apply an input voltage, V_{CC} = 12.0 V.
4. Apply I_{out} = 0 mA load.
5. Check that V_{out} is 3.3 V (3.2 V - 3.4 V).
6. Increase load to 2.5 A.
7. Check that V_{out} is 3.3 V (3.1 V - 3.4 V).
8. Power down the load.
9. Power down V_{cc}.
10. Apply shorting jumper to J₂ and J₃. Leave J₁ open.
11. Apply an input voltage, V_{CC} = 12.0 V.
12. Apply I_{out}=0 mA load.
13. Check that V_{out} is 5.0 V (4.9 V - 5.1 V).
14. Increase load to 2.5 A.
15. Check that V_{out} is 5.0 V (4.8 V - 5.1 V).
16. Power down the load.
17. Power down V_{cc}.