



Test Procedure for the NCV890203MWGEVB Evaluation Board

Introduction: The NCV890203 is a fixed-frequency, monolithic, buck switching regulator intended for Automotive, battery-connected applications that must operate with up to a 36 V input supply. The regulator is suitable for systems with low noise and small form factor requirements often encountered in automotive driver information systems.

Equipment Required:

1. Two adjustable, DC power source capable of zero to 36 Vdc output up to 2A.
2. Digital volt/amp meters to measure output current and voltage to the electronic load.
3. A variable electronic load or rheostat capable of up to a 2 amp load. If an electronic load is used it is preferable to have a constant current load mode. The current meter on the electronic load can be used in lieu of a series, in-line ammeter.

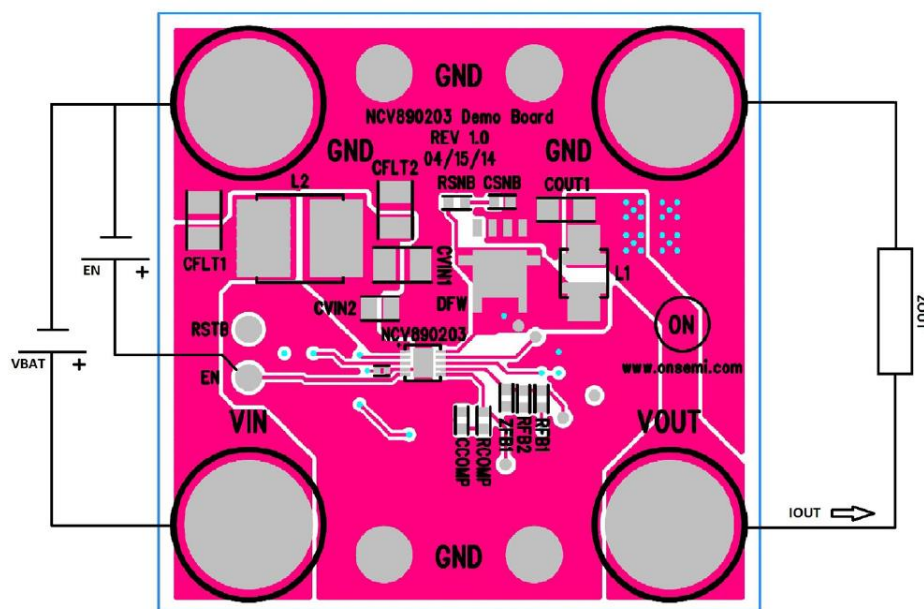


Figure 5. NCV890203 Board Connections

Test Procedure:

1. Connect a dc input voltage, within the 6.0 V to 36 V range, between VIN and GND.
2. Connect a dc enable voltage, within the 2.0 V to 36 V range, between EN and GND. This will power up the switcher. The VOUT signal should be 3.3 V.
3. Add a load to VOUT – up to 2.0 A.

End of Test.