



Test Procedure for the NCP5422EVB

02/14/2006

Required Equipment:

Adjustable High Current dc Power Supply
Power Supply cable capable of supplying 15 V/15 A
2 Electronic Loads, capable of loading 21 A
2 Voltmeters

Test Procedure:

1. Connect the positive and negative terminals of the input power supply to the V_{IN} and RTN terminals located in the middle of the upper side of the board.
2. Slowly increase the input power to 12 V. The evaluation board should start up once the voltage delivered to the V_{IN} pin reaches 8.6 V. Check V_{OUT1} equals 1.8 V and V_{OUT2} equals 1.5 V.
3. Apply a 10 A load to V_{OUT1} . The V_{OUT1} and RTN _{V_{OUT1}} terminals are located on the upper left side of the board. The output voltage for this channel should be around 1.8 V.
4. Apply a 10 A load to V_{OUT2} . The V_{OUT2} and RTN _{V_{OUT2}} terminals are located on the upper right side of the board. The output voltage for this channel should be around 1.5 V.
5. Apply a 21 A load to either channel. Check that the board goes into hiccup over-current protection mode.