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ON Semiconductor

Test Procedure for the NCV896530GEVB Evaluation Board

Equipment Needed

- Power Supply
- Digital Volt Meter
- Digital Ampere Meter
- Function Generator (optional)

NCV8986530 Test Procedure

1) Remove the Enable Jumpers
2) Apply 5 V to VIN. Both outputs should be off.
3) Connect the Enable 1 Jumper. Vout1 should be on and Vout 2 should be off.
4) Using the potentiometers, change the output voltage of Vout 1 to 1.8 V.
5) Connect a 5 Ω load to Vout1. It should draw about 360 mA and the output should remain at 1.8 V.
6) Connect the Enable 2 Jumper. Vout1 and Vout2 should be on.
7) Using the potentiometers, change the output voltage of Vout 2 to 1.8 V.
8) Connect a 5 Ω load to Vout2. It should draw about 360 mA and the output should remain at 1.8 V.
9) Look at either switch node. The frequency should be around 2100 kHz.
10) Apply a 2700 kHz, 5 Vpp clock to the EN/SYNC pin. The output voltages should not Change.
11) Look at the switch node. The frequency should be 2700 kHz