Test Procedure for the NCP10672 demo boards

11/27/2018

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

Necessary Equipment:
1 Current limited 90 ÷ 265Vrms AC source (current limited to avoid board destruction in case of a defective part) (e.g. AGILENT 6811)
1 AC Volt-Meter able to measure up to 300V AC. (e.g. KEITHLEY 2000)
1 AC Amp-Meter able to measure up to 3A AC. (e.g. KEITHLEY 2000)
4 DC Volt-Meter able to measure up to 20V DC. (e.g. KEITHLEY 2000)
4 DC Amp-Meter able to measure up to 500 mA DC. (e.g. KEITHLEY 2000)
4 DC Electronic Load 0 - 1A (e.g. AGILENT 6060B)

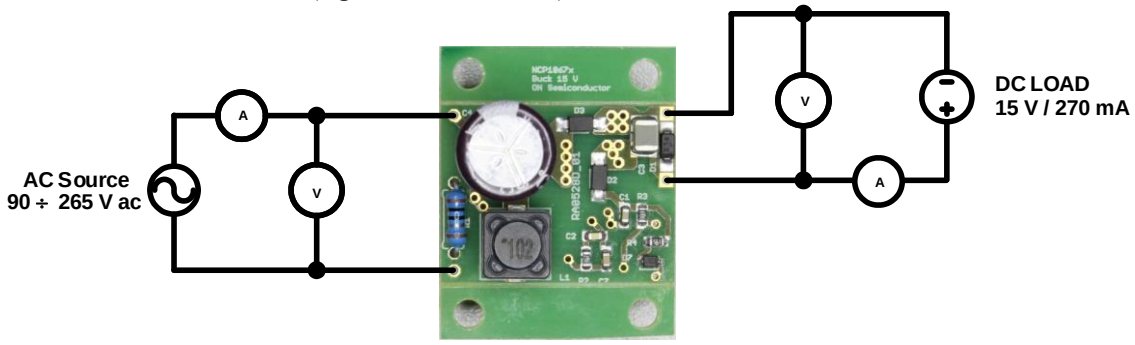

Figure 1: Test Setup for 15 V Buck Converter

Test Procedure (Flyback convertor):

1. **Connect the test setup as shown in Figure 1.**
2. **Apply an input voltage, Uin =90 - 265Vac**
3. **Apply Iout(load) = 0A**
4. **Check that Uout is Maximum 16 V**
5. **Increase Iout(load) load to: 270 mA**
6. **Check that Uout is 15 V**
7. **Power down the load**
8. **Power down Uin**
9. **End of test**

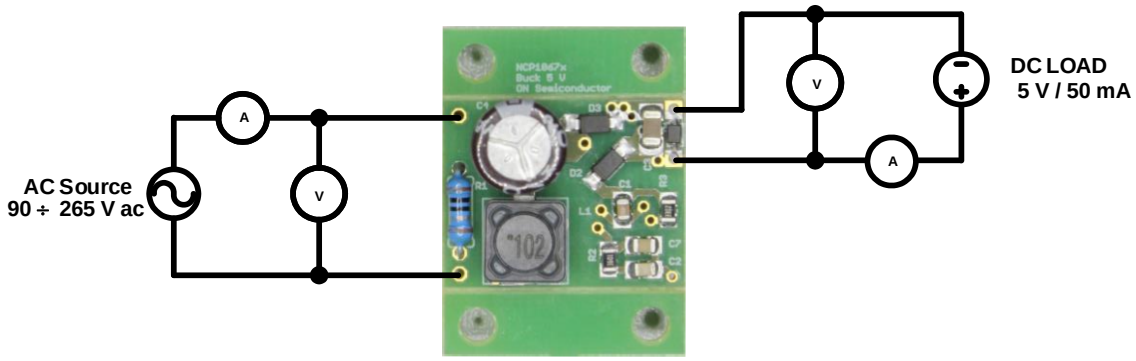

Figure 2: Test Setup for 5 V Buck Converter

Test Procedure (Buck convertor):

1. **Connect the test setup as shown in Figure 1.**
2. **Apply an input voltage, Uin =90 - 265Vac**
3. **Apply Iout(load) = 0A**
4. **Check that Uout is Maximum 6 V**
5. **Increate Iout(load) load to: 50 mA**
6. **Check that Uout is 5 V**
7. **Power down the load**
8. **Power down Uin**
9. **End of test**