Test Procedure for the NCP10671 demo board



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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 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

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