

## Test Procedure for the NCP10671 demo board

ON Semiconductor®



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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)

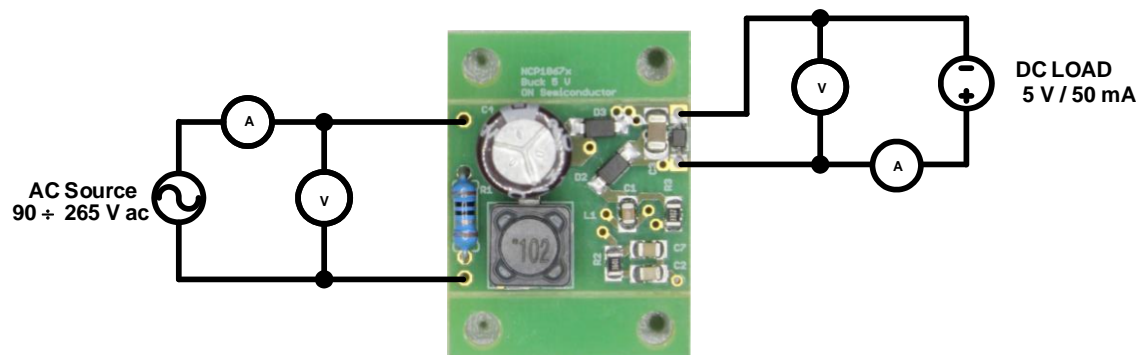


Figure 1: Test Setup for 5 V Buck Converter

### **Test Procedure (Buck convertor):**

1. **Connect the test setup as shown in Figure 1.**
2. **Apply an input voltage,  $U_{in} = 90 - 265V_{ac}$**
3. **Apply  $I_{out}(\text{load}) = 0A$**
4. **Check that  $U_{out}$  is Maximum 6 V**
5. **Increase  $I_{out}(\text{load})$  load to: 50 mA**
6. **Check that  $U_{out}$  is 5 V**
7. **Power down the load**
8. **Power down  $U_{in}$**
9. **End of test**

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