

## Test Procedure for the NCP45521IMNGEVB Evaluation Board

- Ensure jumper J1 is placed (i.e. pins 1 and 2 of J1 header is shorted) on evaluation board

   Jumper J6 can be either placed or empty
- 2. Connect DC Power Supply to VCC and GND (max voltage = 5.5V, current limit > 1mA)
- 3. Connect DC Power Supply to VIN and GND (max voltage = 13.5V, current limit > 1A)
- 4. Connect DC Load to VOUT and GND
- 5. Set VCC voltage to 3.3V and turn on Power Supply
- 6. Set VIN voltage to 12V and turn on Power Supply
- 7. Enable Load Switch by applying voltage to EN (must be > 2V, but not exceed VCC voltage)
- 8. Set VOUT load to 1A and turn on DC Load
- Measure voltage at VOUT using the VOUT Kelvin Connection test point

   a. Should measure within 40mV of the VIN voltage, referenced from the VIN Kelvin Connection test point
- 10. Turn off DC Load connected to VOUT
- 11. Disable Load Switch by removing voltage on EN (can float EN or tie to GND)
- 12. Measure voltage at VOUT using the VOUT Kelvin Connection test point a. Should measure approximately GND