ON Semiconductor®

Test Procedure for the NCP45560IMNGEVB Evaluation Board

1. Ensure jumpers J1 and J7 are placed (i.e. pins 1 and 2 of J1 and J7 headers are shorted) on evaluation board
    a. 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
9. Measure voltage at VOUT using the VOUT Kelvin Connection test point
    a. Should measure within 10mV of the VIN voltage, referenced from the VIN Kelvin Connection test point
10. Measure voltage at PG test point
    a. Should measure approximately VCC voltage
11. Turn off DC Load connected to VOUT
12. Disable Load Switch by removing voltage on EN (can float EN or tie to GND)
13. Measure voltage at VOUT using the VOUT Kelvin Connection test point
    a. Should measure approximately GND
14. Measure voltage at PG test point
    a. Should measure approximately GND