



Test Procedure for the LV58063MCGEVB Evaluation Board

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

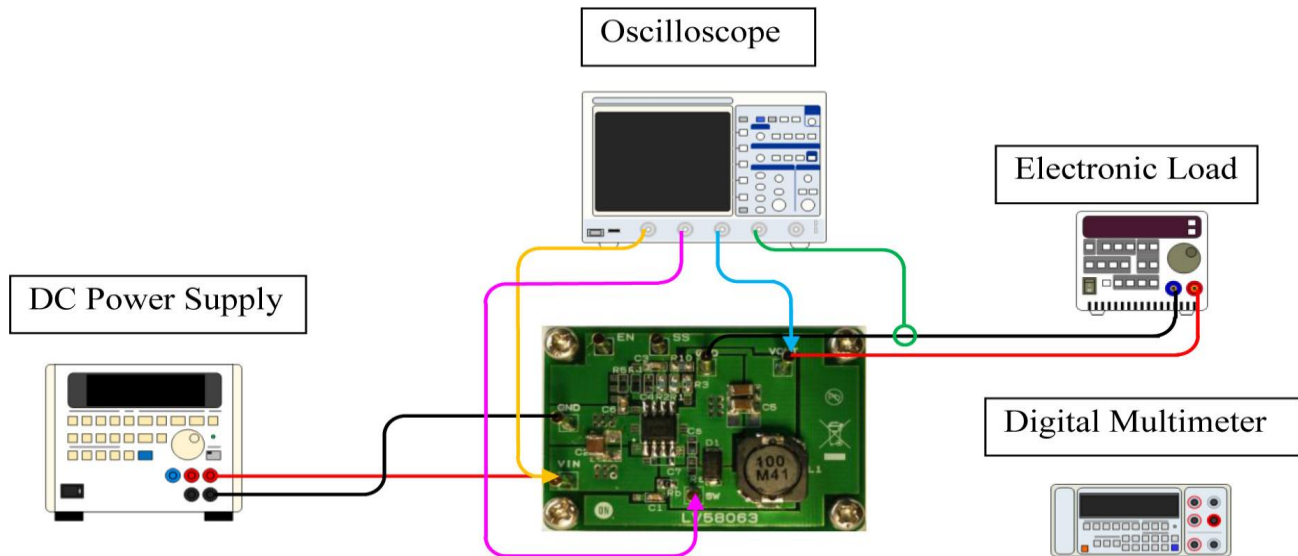
Necessary Equipment:

DC Power Supply (e.g. ADVANTEST R6243 DC Voltage Current Source/Monitor) : 1pcs

Electronic Load (e.g. FUJITSU ACCESS LIMITED Electric Load EUL-150αXL) : 1pcs

Oscilloscope (e.g. LeCroy WaveJet) : 1pcs

Digital Multimeter (able to measure up to 30V and 5A) : 1pcs or more



Test Procedure:

1. Setup of the TEST:
Connect the test setup as shown in Figure 1
2. VOUT Check1:
Apply an input voltage, $V_{IN} = 12-24 \text{ Vdc}$
Apply $I_{OUT} (\text{load}) = 0 \text{ A (CR MODE)}$
Check that $V_{OUT} = 3.3\text{V} \pm 5\% \text{ Vdc}$ (under desired operating condition)
3. VOUT Check2:
Apply an input voltage, $V_{IN} = 24 \text{ Vdc}$
Apply $I_{OUT} (\text{load}) = 0-3 \text{ A (CR MODE)}$
Check that $V_{OUT} = 3.3\text{V} \pm 5\% \text{ Vdc}$ (under desired operating condition)
4. Current limit Check:
Apply $I_{OUT} (\text{load}) = 3.5 \text{ A or more (CR MODE)}$
Check that $V_{OUT} = 2\text{Vdc}$ and under (about 1V)
5. EN Check:
Apply an input voltage, $V_{IN} = 24\text{Vdc}$, $I_{OUT} (\text{Load}) = 1\text{A}$,
Connect EN Pin to GND.
Check that $V_{OUT} = 0\text{Vdc}$
Check that $I_{IN} = 0.1\text{mA}$ and under
6. End of the TEST:
Turn off the load, Turn off V_{IN}