



THE DATASHEET OF LM3643EVM





Test Procedure for the NCV7691GEVK Evaluation Board

Equipment

1A, 14V DC power supply

Procedure

- 1) Add jumpers J1, J2, J3, J5, J8, J9, J10.
- 2) J1, J2, J3 should be toward the left so the function is ON-Board.
- 3) Move the Dimmer Switch to the right towards "DIM".
- 4) Connect the 14V power supply between 14V and GND.
- 5) The LED array should start its sequencing function (reference the animated file below).
 - a. The sequencing function works as a triplet sequence function.
Three groups of LEDs are illuminated in a 1, 2, 3, hold pattern, repeat.
- 6) Remove J1.
 - a. Confirm the 10th digit of the LED array illuminates while all the other LEDs go out.
- 7) Connect J1.
- 8) Remove J2.
 - a. Confirm the 1st 3 digits of the LED array continue to illuminate plus the 10th digit of the LED array is illuminated.
- 9) Connect J2.
- 10) Remove J3.
 - a. Confirm the 1st 6 digits of the LED array continue to illuminate plus the 10th digit of the LED array is illuminated.
- 11) Connect J3.
- 12) Move the Dimmer switch to the left towards "BRIGHT".
 - a. Confirm the LED array is now brighter.
- 13) Move the Dimmer switch to the right towards "DIM".
- 14) Move J1, J2, J3 should be toward the right so the function is OFF-Board.
- 15) Remove jumpers J8, J9, J10.
- 16) Connect an LED load board to the external edge connector.
 - a. Confirm sequencing operation is now on the LED load board.

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