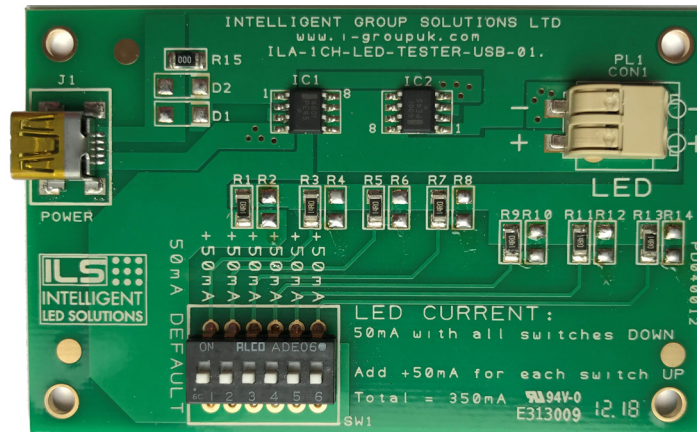


# Linear LED Driver Assembly

## ILA-1CH-LED-TESTER-USB-01.



### Product Overview

The ILA-1CH-LED-TESTER-USB-01. Linear LED Driver comprises a linear regulator with user changeable drive currents. It is designed to be connected between a USB power source and one or more LEDs. It is very quick to use and very quick to configure. It allows fast testing of single LEDs, LED chains or luminaires. The ILA-1CH-LED-TESTER-USB-01. is so versatile that it can be configured and connected in seconds and will drive many different LED types. It has a Micro USB connector for fast connection to a power source.

### Technical Features

- Selectable drive currents between 50mA and 350mA
- Drive current can be easily changed with a 6 way DIP Switch
- Runs from a USB power source
- Drives a wide range of power LEDs
- Can drive single LEDs or parallel LED chains

### Applications

- Testing LEDs
- Comparing different LEDs
- Checking different LED drive currents
- Laboratory testing
- Lighting product development

## Important Information and Precautions

- The LEDs, when powered up, are very bright. Thus it is advised that you do not look directly at them. All LED product must be turned away from you and do not shine into the eyes of others.
- LEDs will overheat in operation if not attached to a suitable Heat Sink using a suitable thermal interface material. Overheating can cause failure or damage.
- Do not operate LED products with a Power Supply with unlimited current. Connection to constant voltage supplies that are not current limited may cause the LED product to consume current above the specified maximum and cause failure or irreparable damage.
- LED products, when operated, can reach high temperatures thus there is risk of injury if they are touched.
- The LEDs, when powered up not visible to the naked eye. Thus it is advised that you do not look directly at it. Turn the LED away from you and do not shine into the eyes of others.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY

## Specifications

Parameter	Value	Notes
Minimum LED current	50mA	
Maximum LED current	350mA	
Input Voltage	5V	Note 1

Note 1 - Input Voltage

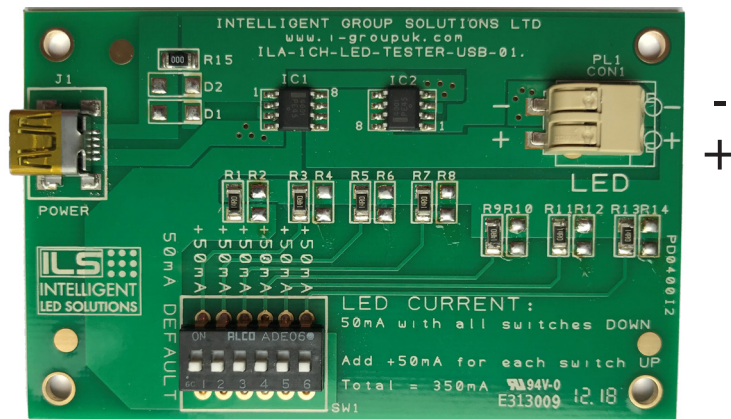
The driver is supplied from a USB power source with a nominal Voltage of 5.0V. Some USB sources provide a slightly lower Voltage, and in this case the LEDs may not run at full current in the higher ranges

### How to connect the driver

- IT IS IMPORTANT TO CONNECT THE LEDS TO THE DRIVER BEFORE CONNECTING POWER
- DO NOT CONNECT THE LEDS WHEN THE POWER IS CONNECTED TO THE DRIVER
- FAILURE TO RESPECT THIS MAY CAUSE IRREVERSABLE DAMAGE TO THE LEDS DUE TO EXCESSIVE VOLTAGE

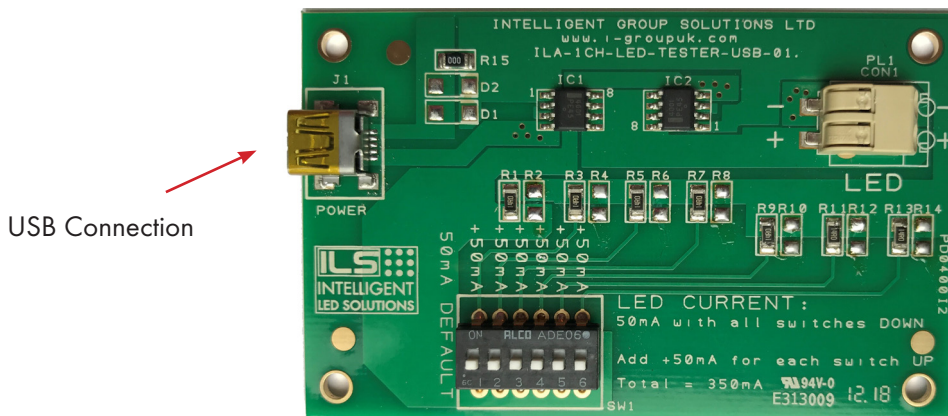
### 1 Connect the LED(s)

- ENSURE THE POLARITY IS CORRECT OR LED DAMAGE MAY OCCUR
- Connect the LED(s) to the connector marked (LED)
- Connect the Anode to the terminal marked "+"
- Connect the Cathode to the terminal marked "-"



### 2 Connect the power supply

- Connect the driver to a USB power supply using a micro USB cable inserted in to the connector marked "USB"
- Avoid long USB cables as these may cause Voltage drop and not allow the driver to operate at full current.

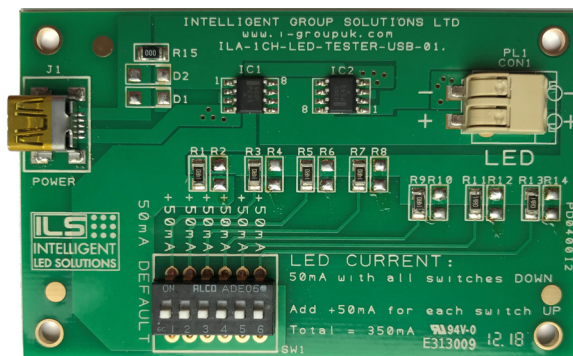


**How to select the LED drive current**

The ILA-1CH-LED-TESTER-USB-01. can be configured for a range of currents which can easily be changed by using the 6 way DIP switch. The tester default current is 50mA. Each position on the DIP switch supplies an extra 50mA. If all the DIP switches are ON, the tester will supply 350mA

**DIP Switch Table**

Default	1	2	3	4	5	6
50mA	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN
100mA	UP	DOWN	DOWN	DOWN	DOWN	DOWN
150mA	UP	UP	DOWN	DOWN	DOWN	DOWN
200mA	UP	UP	UP	DOWN	DOWN	DOWN
250mA	UP	UP	UP	UP	DOWN	DOWN
300mA	UP	UP	UP	UP	UP	DOWN
350mA	UP	UP	UP	UP	UP	UP



→  
DIP Switches

**For further information please contact ILS**

The values contained in this datasheet can change due to technical innovations. Any such changes will be made without separate notification.