Round USB RGB LED Lamp
TECHNOLOGY DATA SHEET & SPECIFICATIONS

Introduction: The Kitronik Round USB RGB LED Lamp is a board designed for low power lighting, such as a mood lamps or accent lights.

The PCB is 36mm in diameter, and is provided with a single M3 mounting hole in the centre of the board. The USB connector projects approximately 2mm from the end of the PCB. The underside of the PCB is flat.
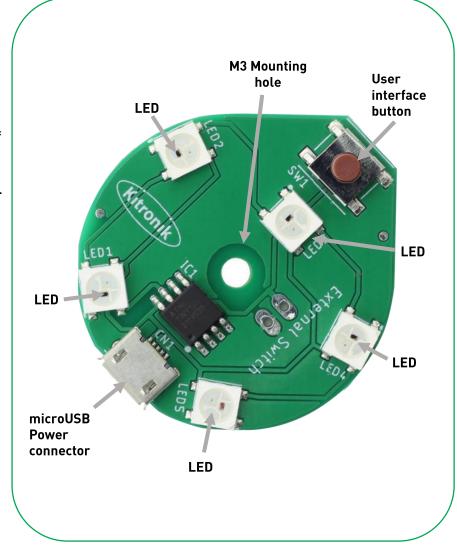
The LEDs are set on a 72° degree separation around the centre hole from each other. The onboard switch is used to step between patterns and turn off the LEDs. A remote switch can be connected in parallel with the PCB switch to allow remote mounting within an enclosure. The remote switch should be momentary, normally open. Use of a non-momentary switch may result in unpredictable operation.

The board has 4 patterns, selected by pressing the button to step through them There is an additional off position after the 4th pattern:

- A rainbow fade which slowly fades through different colours.
- Pressing the button will stop the fade on the current colour.
- Pressing again will start a brightness fade (up and down) centred around the current colour.
- Another press changes to an RGB chasing pattern.
- A further press turns off the LEDs.

Pressing the button once more will bring the sequence back to the first rainbow fade pattern.
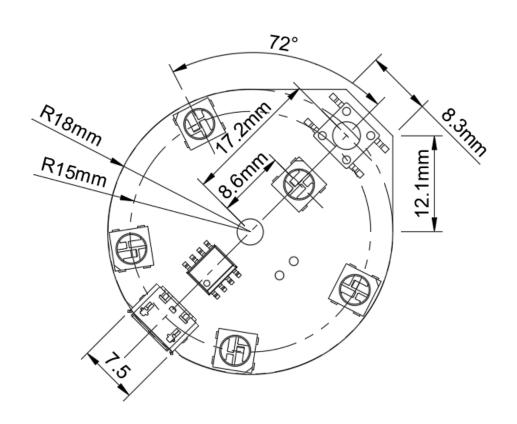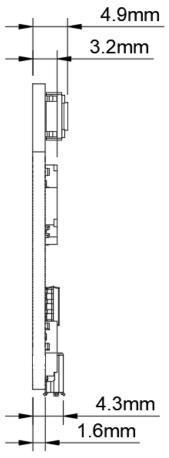
Round USB RGB LED Lamp Specification

Number of LEDs	5 full colour RGB LEDs
Operational Supply	5V via micro USB connector
Forward Current	Typically 60mA at 5V, peak <90mA
User Interface	Single Push Button
Colour Patterns	5 – Rainbow, Stop, Breathe, RGB Chase, Off
Mounting	Single M3 hole (3.3mm Dia) Placed centre of the PCB

Dimensions

(Dimensions +/- 0.2mm)