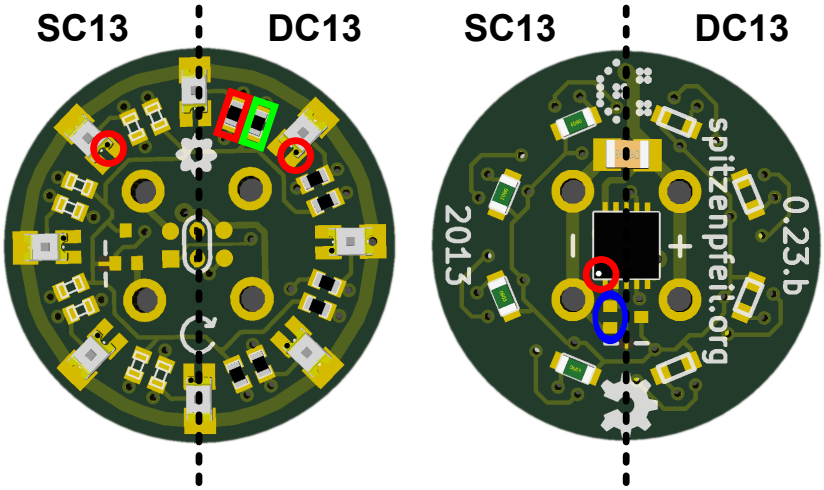
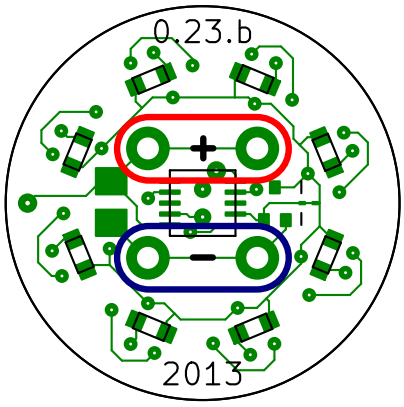
Quick-start guide
Sew-on Coat-Button - Blinky version

1. Assembly (for experts)



Use plenty of flux! Paste flux should be preferred compared to pens. Align the parts as shown in the images. If you don't want to use the micro (no effects), bridge the two pads encircled in blue, else solder the micro-chip first! In case of the dual-colour board (DC13), make sure to not mix up the values for the different types of LEDs. The negative effect will be significant. RED: 680 Ohm, GREEN: 1k Ohm. Pin #1 of the AVR ISP header is marked by the square pad.

2. Connecting power (5V DC)



The device runs with 5V DC or a bit less, depending on the type of LEDs used. RED LEDS will be happy at lower voltages, BLUE and UV LEDs need at least 3.5V to 4V to be happy. Using a 1-cell LiPo battery should be OK.

Connect the "+" lead of the battery to any of the 2 top pads, the "-" lead to any of the 2 bottom pads. Make sure not to reverse polarity or to touch any other parts with the wires. Take special care if you use conductive thread, which might come loose.

3. Usage

When supplied with power, the device will light up its LEDs. It remembers the last light-pattern that was chosen.
To switch between the different modes, turn the device off completely. Use a paper-clip, piece of wire, pointed tweezers or similar to connect the two centermost pins as shown in the image. Apply power and wait for about 2 seconds. The LEDs might flicker a bit. Remove the paper-clip. The new mode is now active until you change it again. Be careful not to accidentally touch other exposed matal parts during this operation. You can hand-wash the device carefully once in a while. It must be blow-dried thoroughly afterwards.