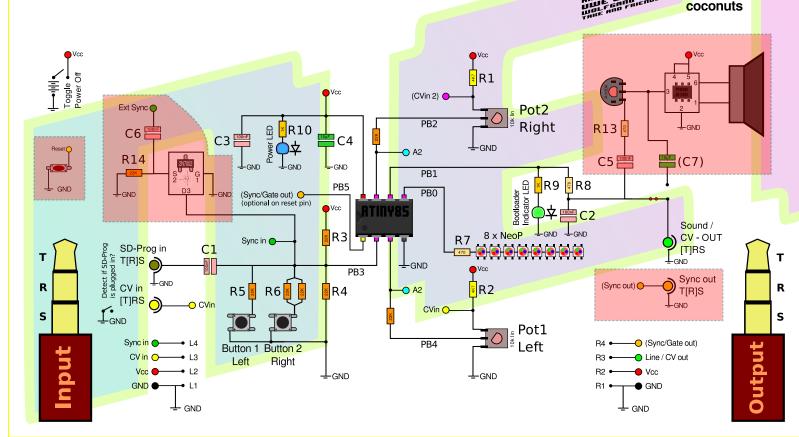
## **8BIT MIXTAPE NEO**

Version 0.96 - double sided PCB, hand-made, SMD 1206 To be discussed:

\*

\* switched TRS used for PAM8301 Amp



## PARTS

## **Frontside**

open source

R1-2: 2 x 4k7  $\Omega$  (Voltage dividers Poti)

R3-4: 2 x  $\frac{22}{k}$   $\Omega$  (Voltage divider SD-Prog)

R5:  $1 \times 22k \Omega$  (Buttons 1 Left)

R6: 2 x 22k  $\Omega$  (Button 2 Right)

R7: 470 Ω (NEO-Pixel data stabilizer)

R8: 470  $\Omega$  (Output Filter)

R9-10:  $2x \frac{470}{10} - 2k^2 \frac{\Omega}{\Omega}$  LED resistor

R11-12:  $2x 22k \Omega$  (ADC input)

C1: 10nF or 100nF (SD-Prog de-coupling)

C2: 100nF (Output Filter)

C3: 100nF (Voltage stabilization)

C4: 10µF (Voltage stabilization)

1 x ATTINY85

8 x NEO Pixel (SK6812)

2 x Top-LED (Power and Prog-Status)

2 x Push-Button

2 x 10k lin Potentiometer

## **Backside (Optional)**

(\*)R13: 470  $\Omega$  (Filter Amp)

(\*)R14: 22k  $\Omega$  (Filter Ext In)

(\*) C5: 100nF (Filter Amp)

(\*) C6: 100nF (Filter Ext In)

(\*) C7: 10µF (optional- decoupling)

(\*) 1 x 10k log Potentiometer (Volume)

(\*) 1 x PAM8301 (Amp)

(\*) 1 x Speaker

(\*) 1 x 2N7002 (MosFET for Ext In)

15. March 2017