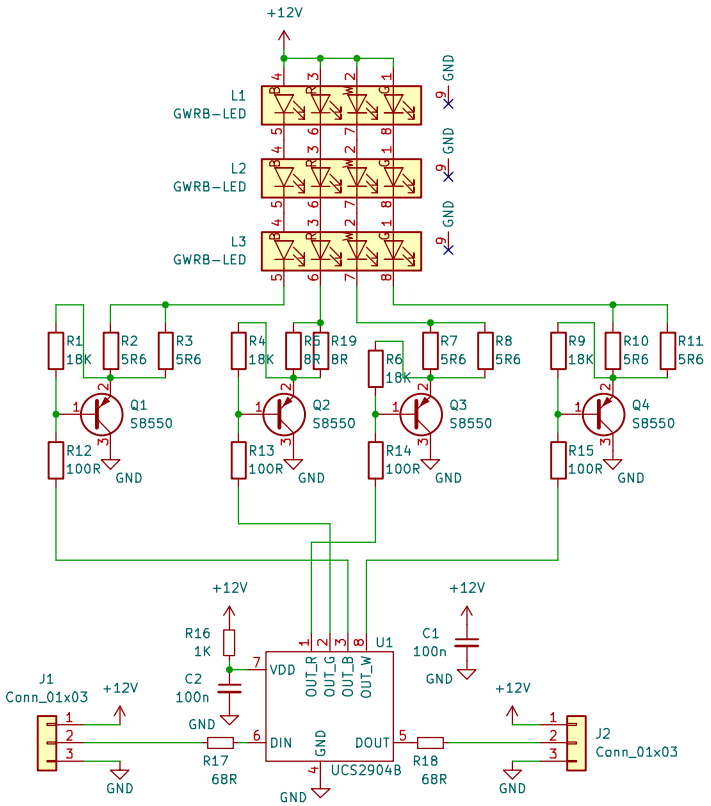
TEST:
B, 10R -> 310mA
R, 18R -> 330mA
W, 10R ->
G, 10R -> 346mA

Vds (output RGBW pins) < 3.5V
Vds = VCC - I * R - N * Vled
Vds = 12v - 0.35*3 - 3*3.3
Vds = 12v - 1.05 - 9.9
Vds = 12 - 10.95
Vds = 1.05

R	620-630nm	40-60LM	2.2-2.6V	350mA
G	520-530nm	60-80LM	3.2-3.6V	350mA
B	460-470nm	30-40LM	3.2-3.6V	350mA
W	6000-8000K	90-100LM	3.2-3.6V	350mA

Vds (output RGBW pins) < 3.5V
Vds = VCC - I * R - N * Vled
Vds = 12v - 0.35*3 - 3*3.3
Vds = 12v - 1.05 - 9.9
Vds = 12 - 10.95
Vds = 1.05



Package_SO:SO-8_3.9x4.9mm_P1.27mm
https://www.led-stuebchen.de/download/UCS2904_English_2019-6-27.pdf

TU Delft
StudioLab
Jerry de Vos

Sheet: /
File: NP_RGBW_HP.kicad_sch

Title: High Power Neopixel

Size: A4	Date: 2024-06-06	**Rev: 1.0**
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