

lighthouse_display_leds

File: lighthouse_display_leds.kicad_sch

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Title:

Size: A4
KiCad E.D.A. 8.0.6

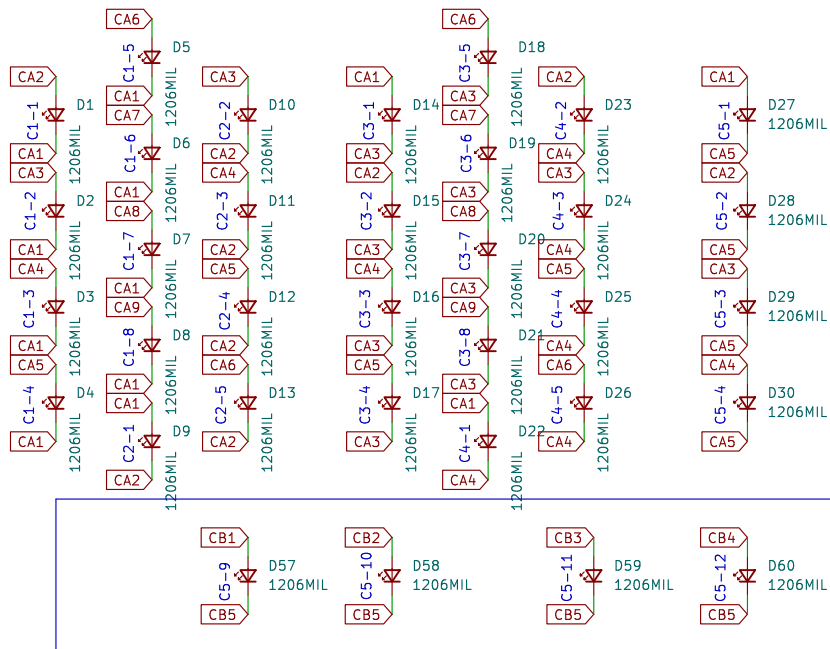
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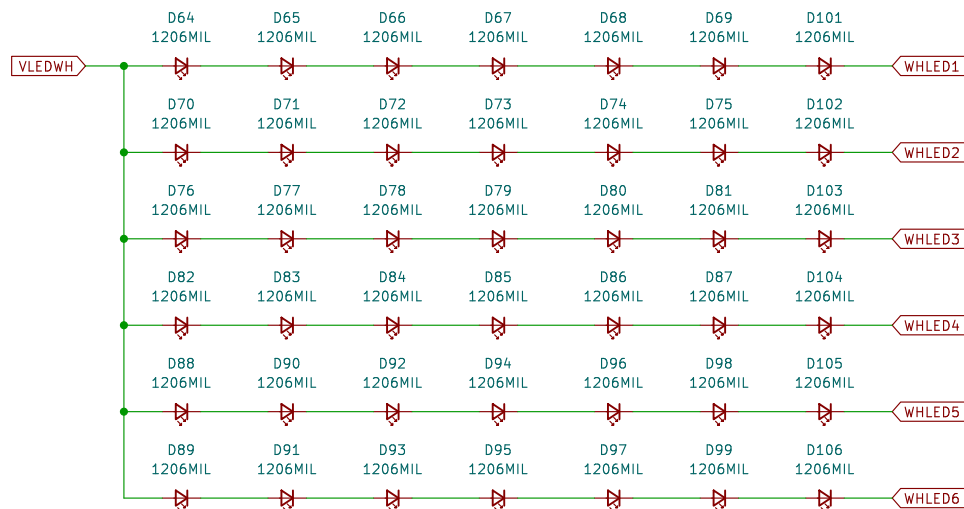
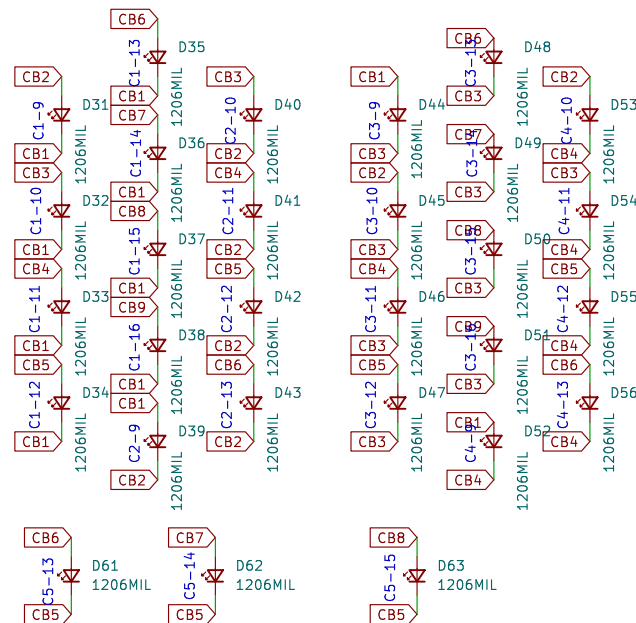
7 white LEDs in series @ 20 mA -> 3.25 V
VOUT 7*3.25 V = 22.75 V, VFB = 1.5
VOUT = (Rupper/Rlower + 1) * 1.5 V
Rlower = Rupper / (VOUT/VFB - 1) = 70k5 @ Rupper = 1M
Rlower = 68k

numeric display: red LEDs
9*4 = 36
+ 4*5 = 20
+ 1*7 = 7
total: 63 LEDs
0805MIL: 2012 metric: 150080RS75000
1206MIL: 599-0210-007F

CA



CB



backlight display: white LEDs
total: 42 LEDs
0805MIL: 2012 metric: IN-S85AT5UW
1206MIL: IN-S126AT5UW

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