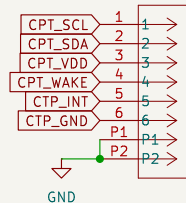
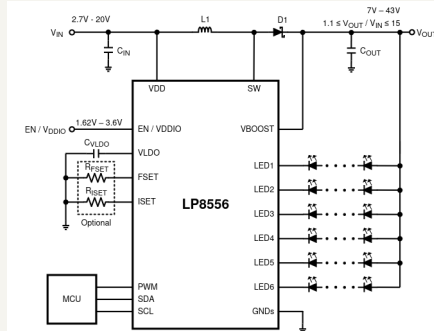
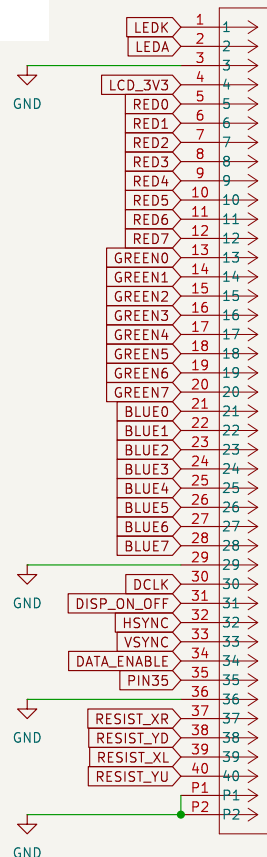
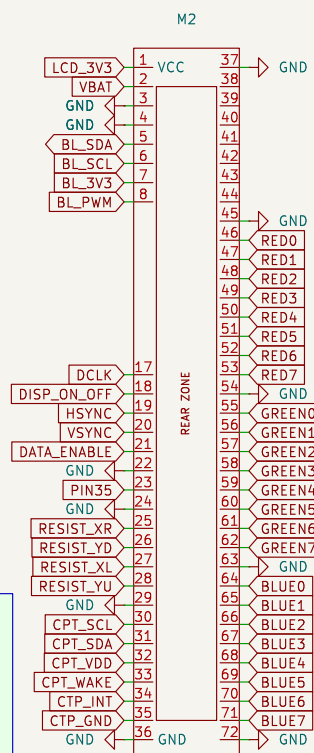


Mega65Modular LCD panel v0.1
gardners
License: CERN-OHL-S v2
Year: 2025



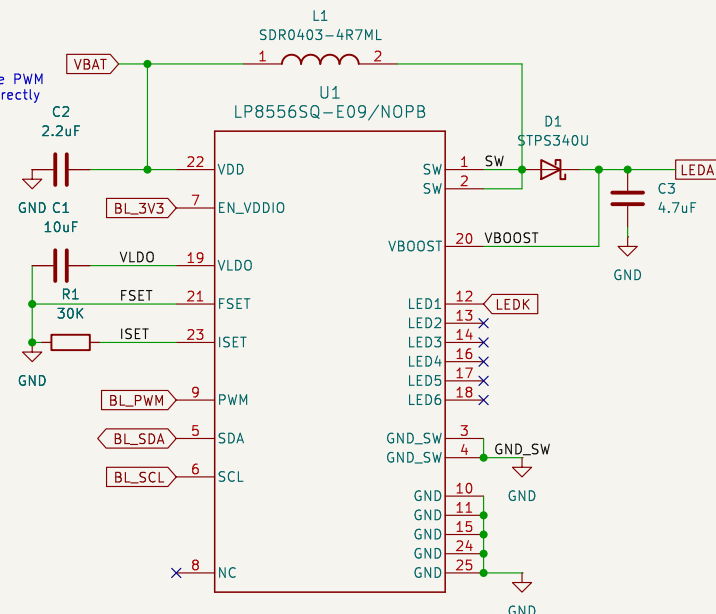
J1
5051100692

Page
CoverPage 1
.....



FSET to GND = use PWM
input frequency directly

J2
5051104091



R_ISET:
 $I_{LED} = (CURRENT/4095) \times IMAX \times (24,000 / R_{ISET})$
CURRENT is the I2C settable fraction, so just set to 4095.
We want IMAX = 40mA.
IMAX = 50mA with 24K R_ISET
Current is effectively 1200A / R_ISET
So for IMAX = 40mA, we want:
 $0.04A = 1200A / R$
 $R = 1200A / 0.04A$
 $R = 30K$

3D top side

CERN-OHL-S v2
gardners

Sheet: /
File: lcd-panel.kicad_sch

Title: Mega65Modular LCD panel

Size: A4 Date: 2025-11-10

KiCad E.D.A. 9.0.1

Rev: v0.1

Id: 1/1