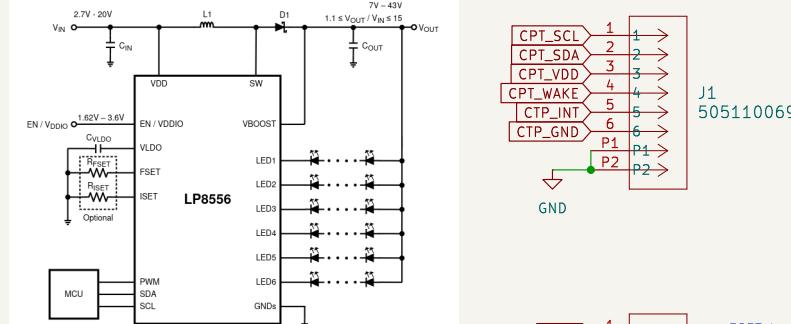


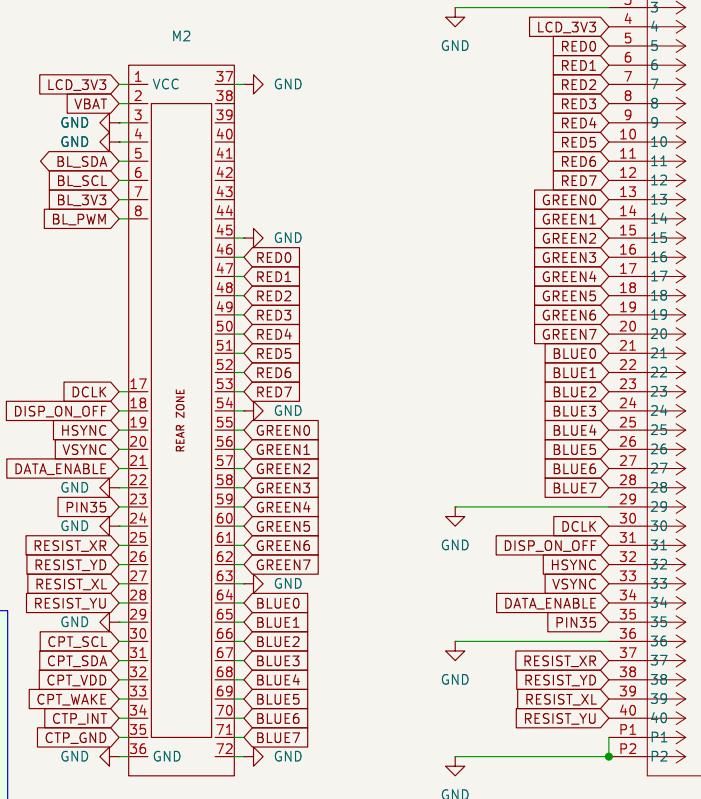
1 2 3 4 5 6

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A



B



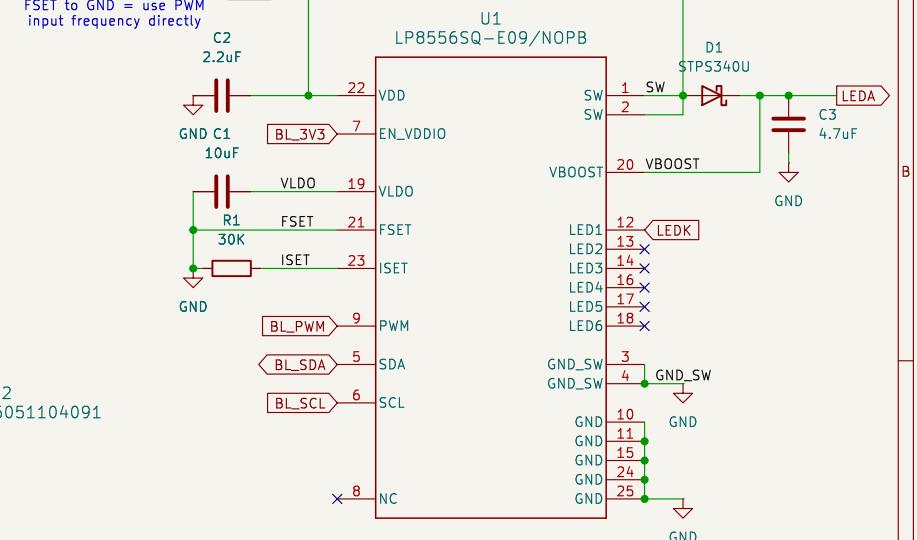
C

3D top side



1 2 3 4 5 6

Page Index
CoverPage 1



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

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Title: Mega65Modular LCD panel

Size: A4 Date: 2025-11-10

KiCad E.D.A. 9.0.1

Rev: v0.1

Id: 1/1