

Sheet: /

File: Tattoo_Supply.kicad_sch

Title:

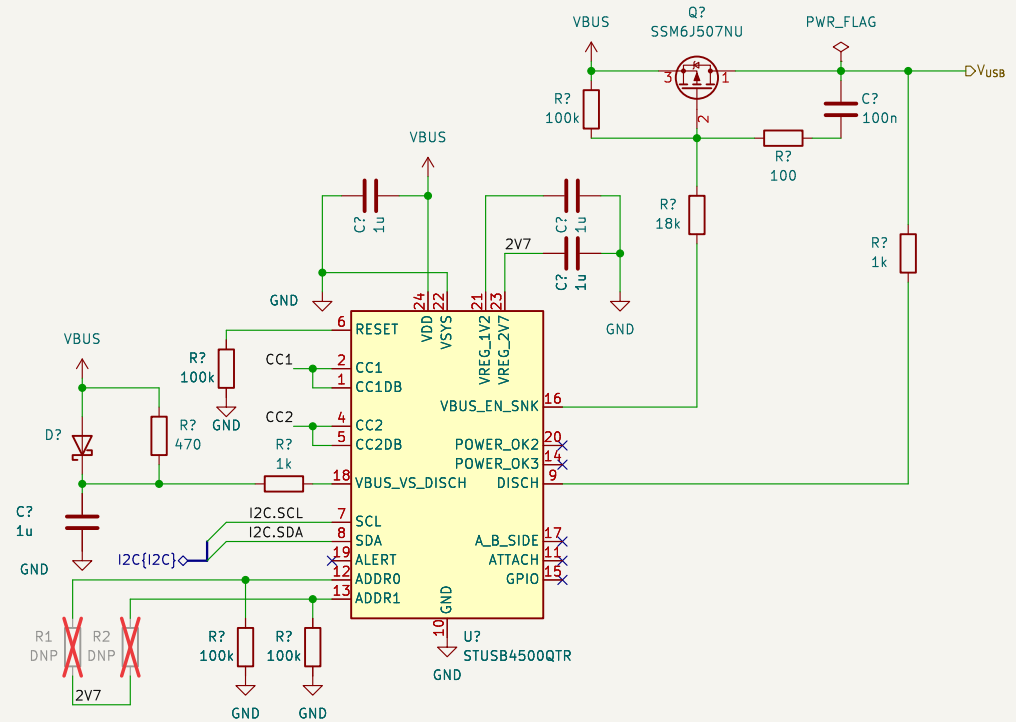
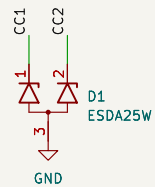
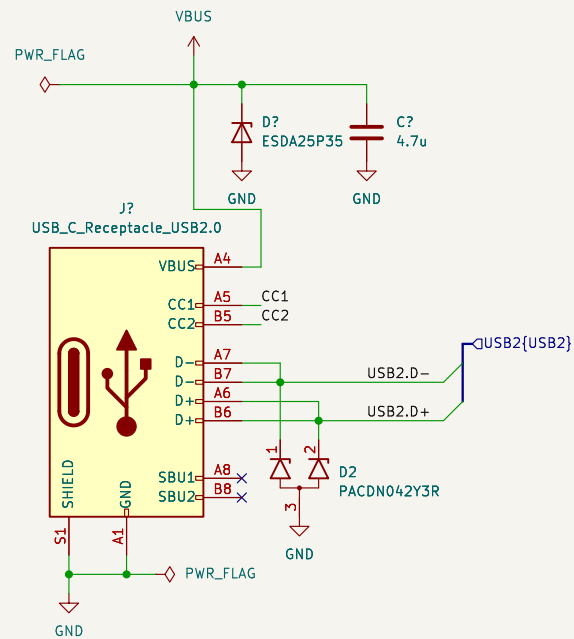
Size: A4

Date:

Rev:

KiCad E.D.A. kicad-cli 7.0.0-da2b9df05c-163-ubuntu22.04.1

Id: 1/5



Sheet: /USB C Power Delivery/
File: usbcpd.kicad_sch

Title:

Size: A4

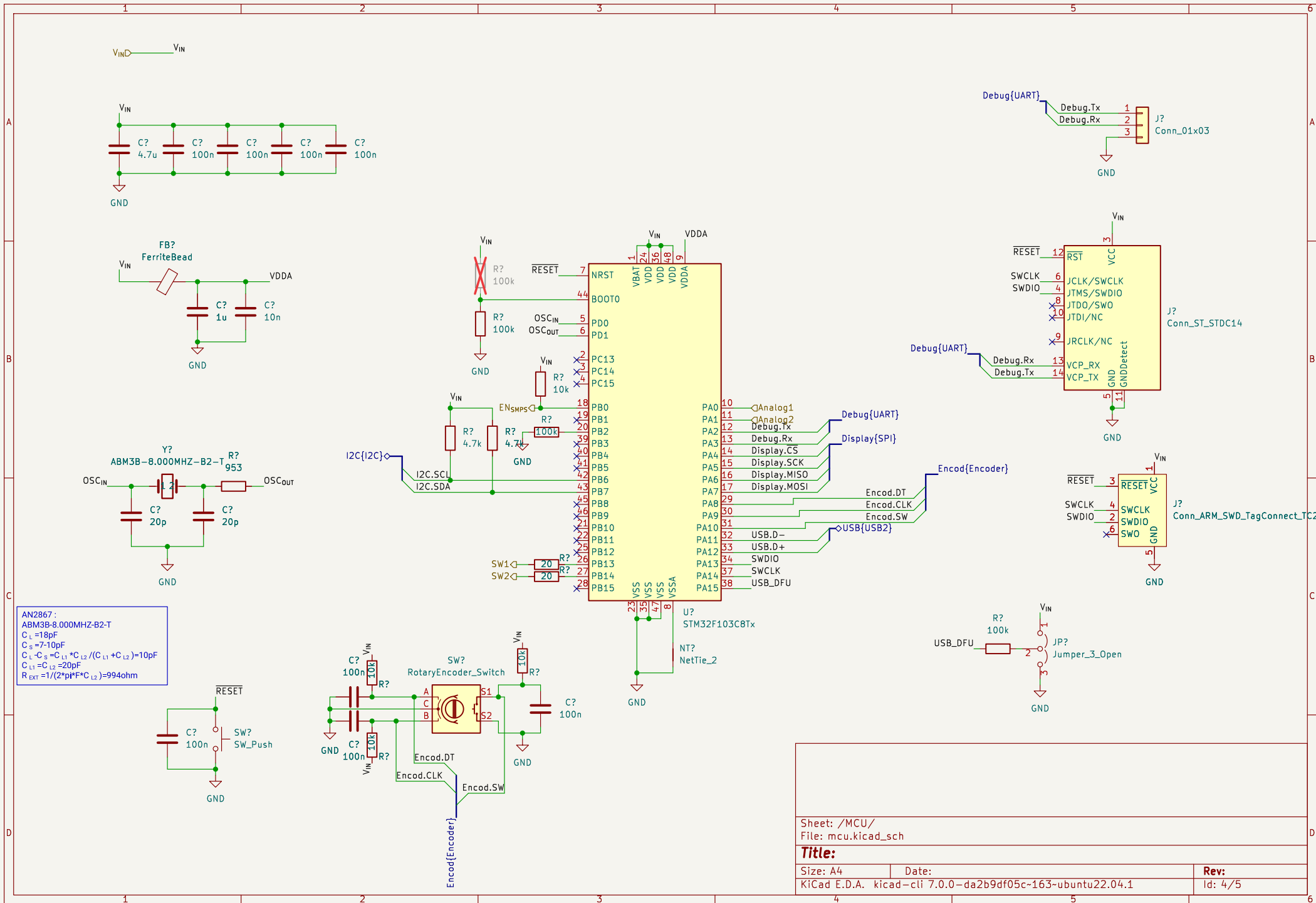
Date:

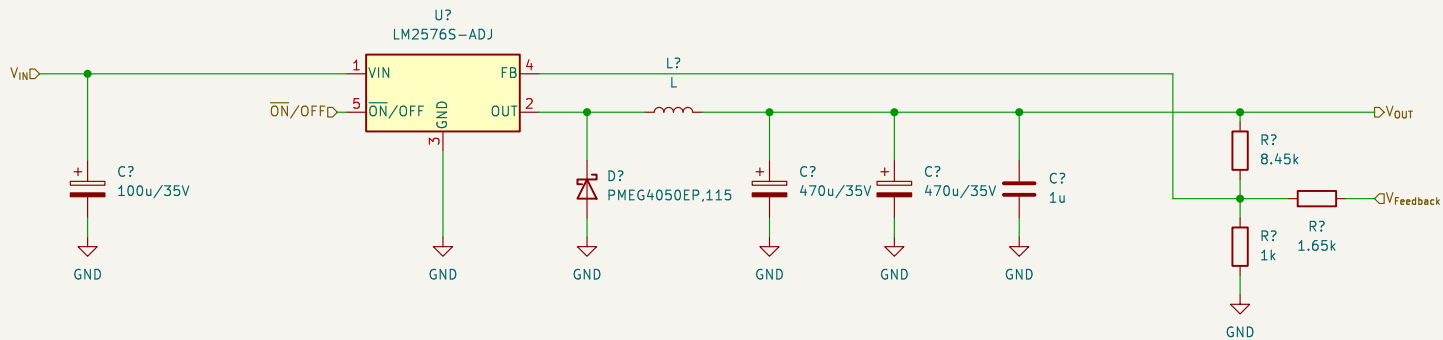
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Rev:

Id: 2/5







For L :
 $E^*T = (V_{IN} - V_{OUT}) * (V_{OUT} / V_{IN}) * (1000 / 52)$
With $V_{IN} = 20V$
 $E^*T(max) = 96.154 V * us$ at $V_{OUT} = 10V$
 $L = 150uH$
 $I_{MAX} = 1.15 * 3 = 3.45A$

Check Python Notebook for Resistors calculations

Sheet: /SMPS/
File: smps.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad-cli 7.0.0-da2b9df05c-163-ubuntu22.04.1

Rev:

Id: 5/5