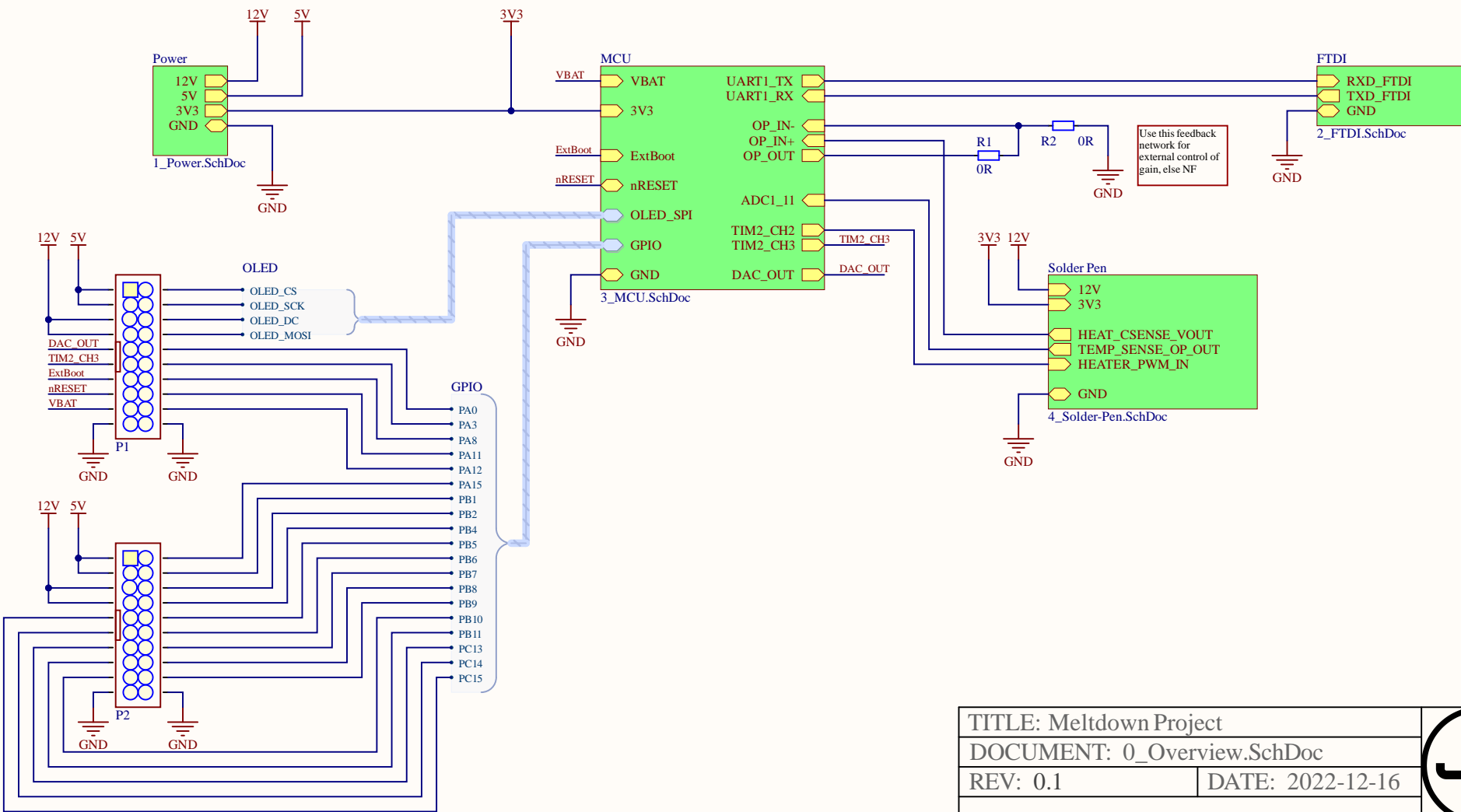
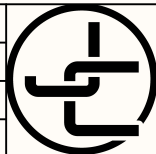


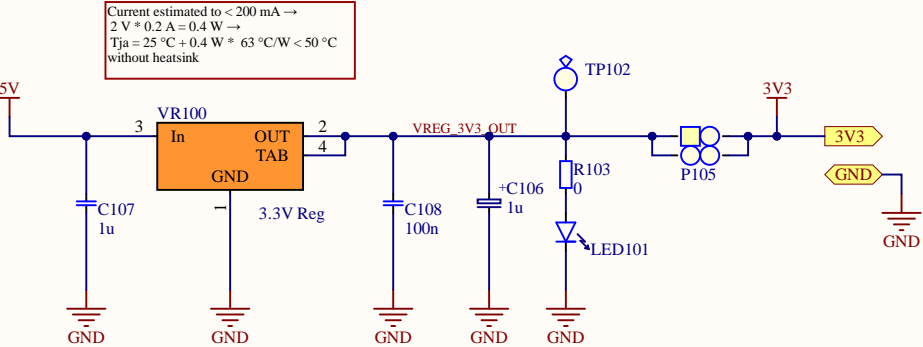
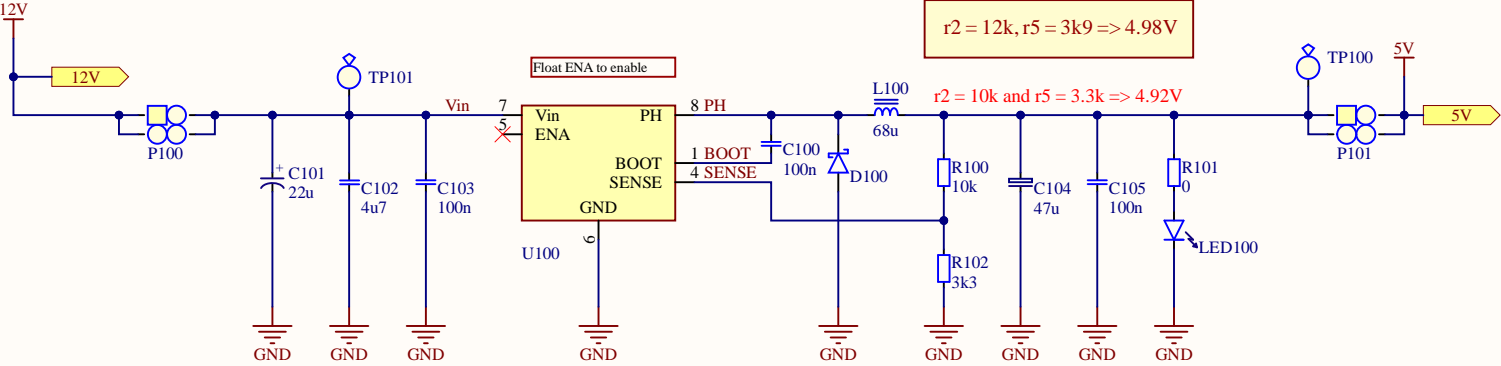
Meltdown Solder Station



TITLE: Meltdown Project	
DOCUMENT: 0_Overview.SchDoc	
REV: 0.1	DATE: 2022-12-16

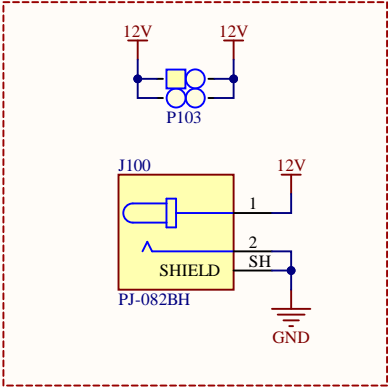


[1] Power

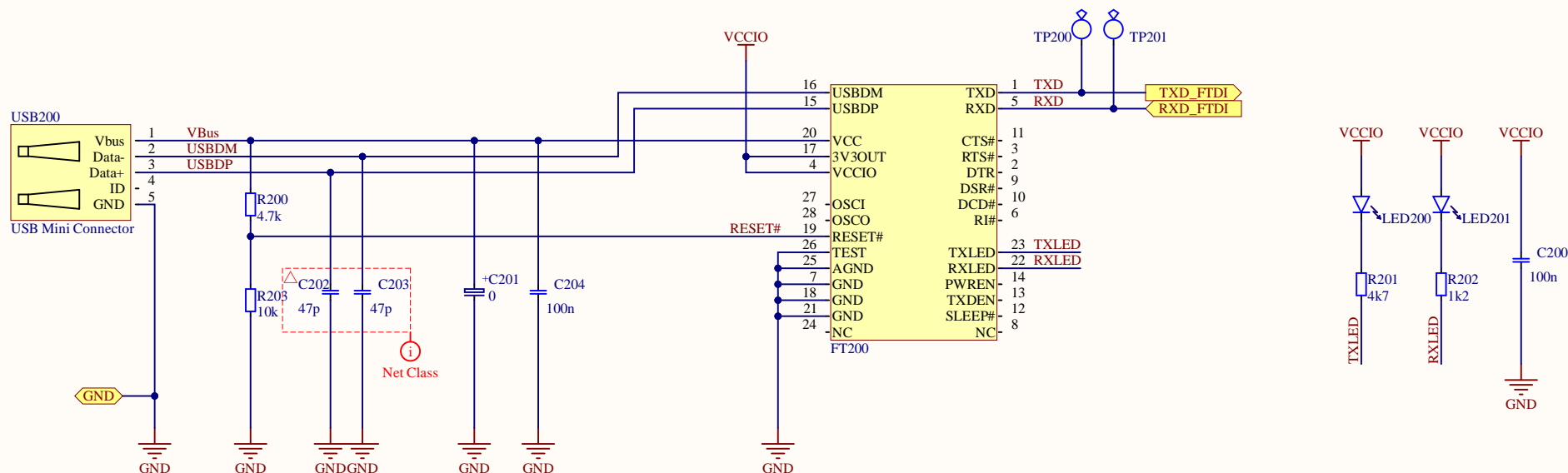


Current estimated to < 200 mA →
2 V * 0.2 A = 0.4 W →
T_{ja} = 25 °C + 0.4 W * 63 °C/W < 50 °C
without heatsink

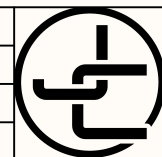
12V Input



[2] FTDI



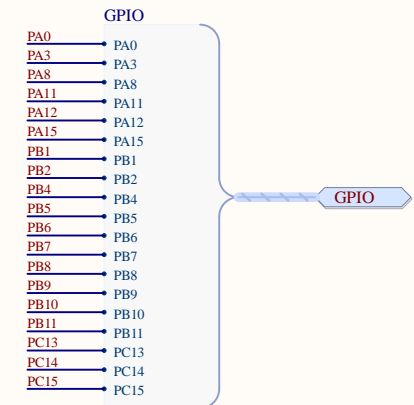
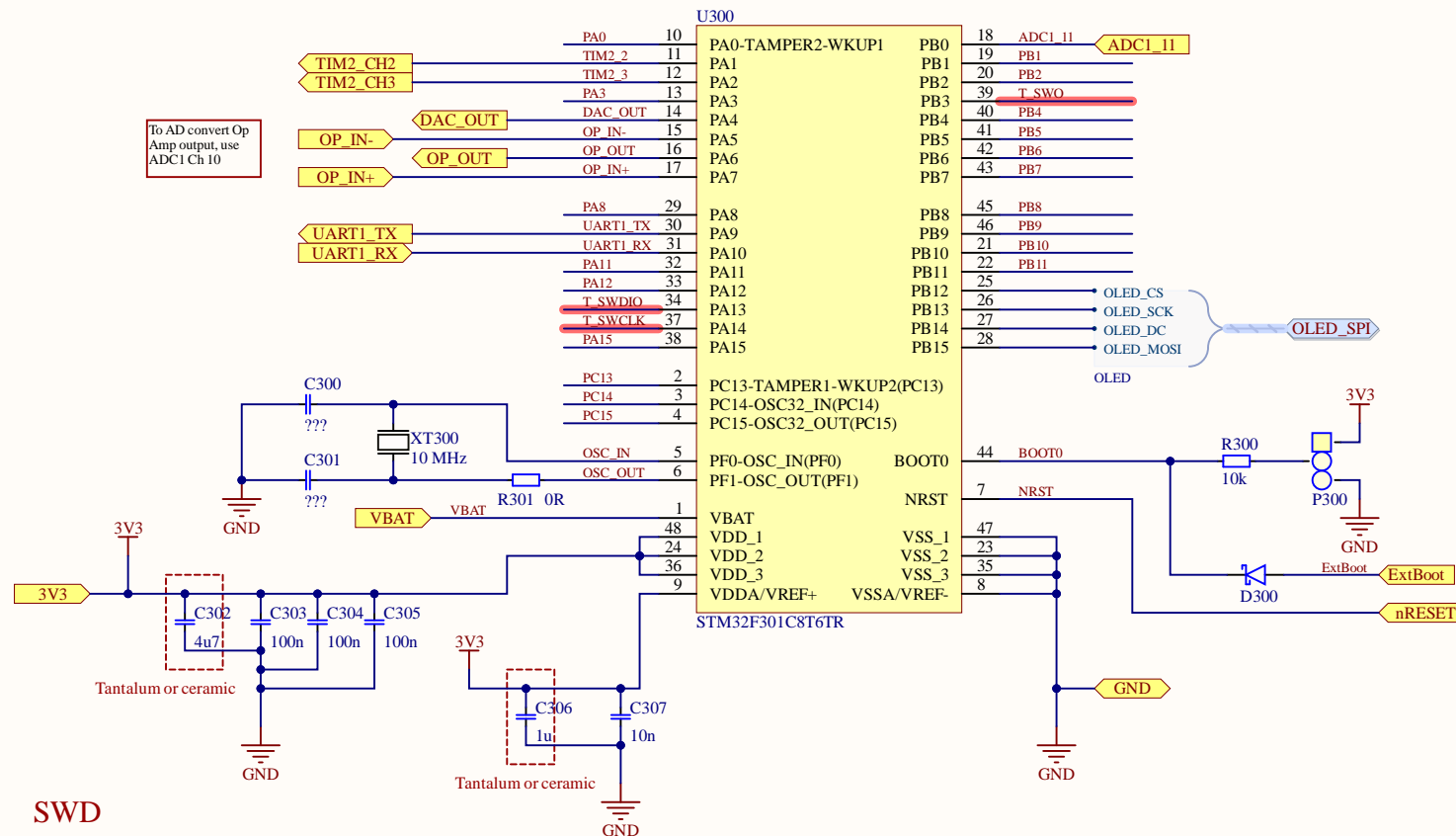
TITLE: Meltdown Project
DOCUMENT: 2_FTDI.SchDoc
REV: 0.1
DATE: 2022-12-16



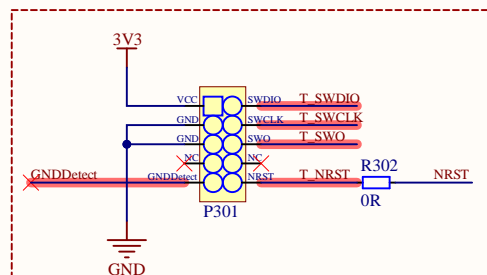
[3] MCU

TODO

- Check nRST, might be driven from multiple? connect to interface board
- Use a Pi-filter for VDDA?



SWD

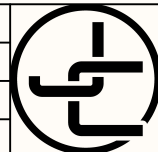


TITLE: Meltdown Project

DOCUMENT: 3_MCU.SchDoc

REV: 0.1

DATE: 2022-12-16

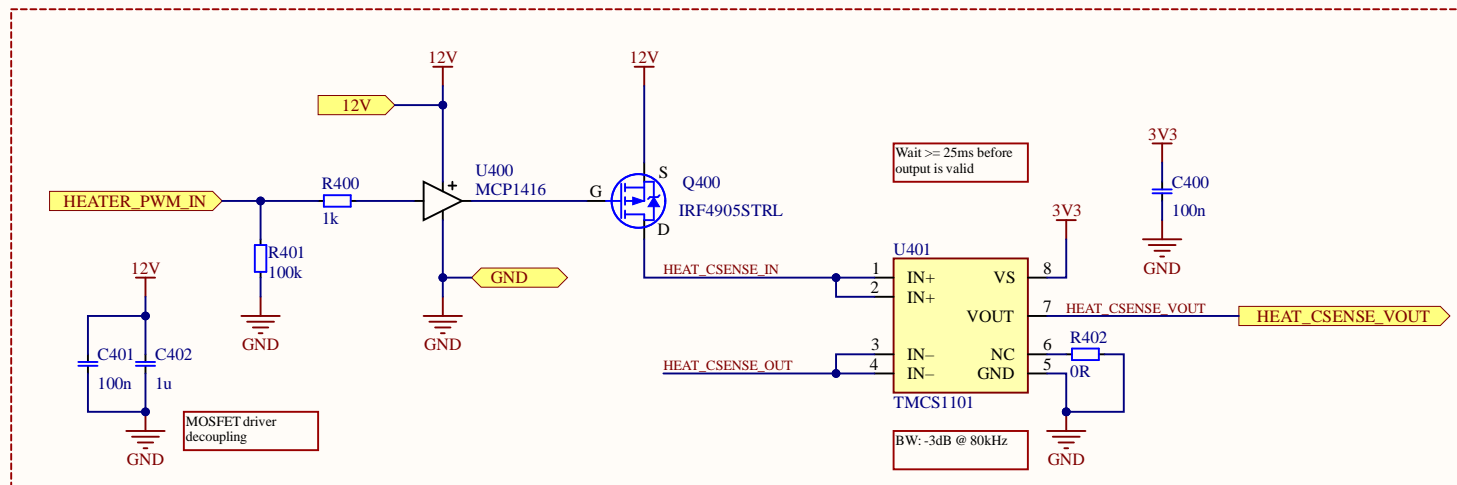


[4] Solder Pen

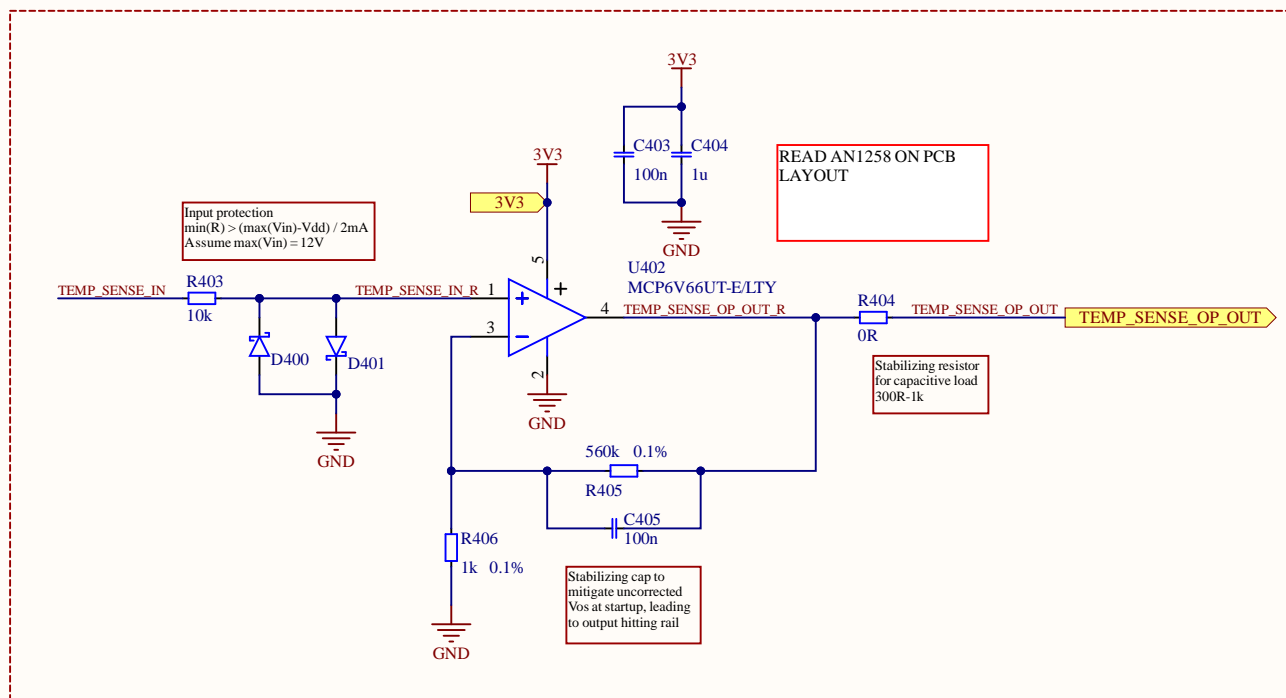
TODO

- Check solder pen connections
- Check if mosfet driver is 1416 or 1416R - we have 1416

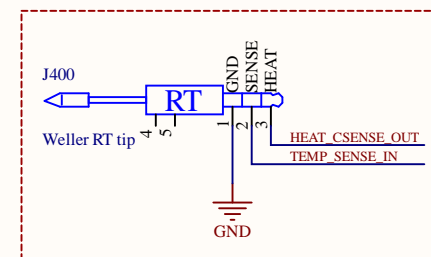
Driver circuit for solder tip, with current sensing



Temp sensor precision amplifier



Solder tip connector



TITLE: Meltdown Project
DOCUMENT: 4_Solder-Pen.SchDoc
REV: 0.1
DATE: 2022-12-16

