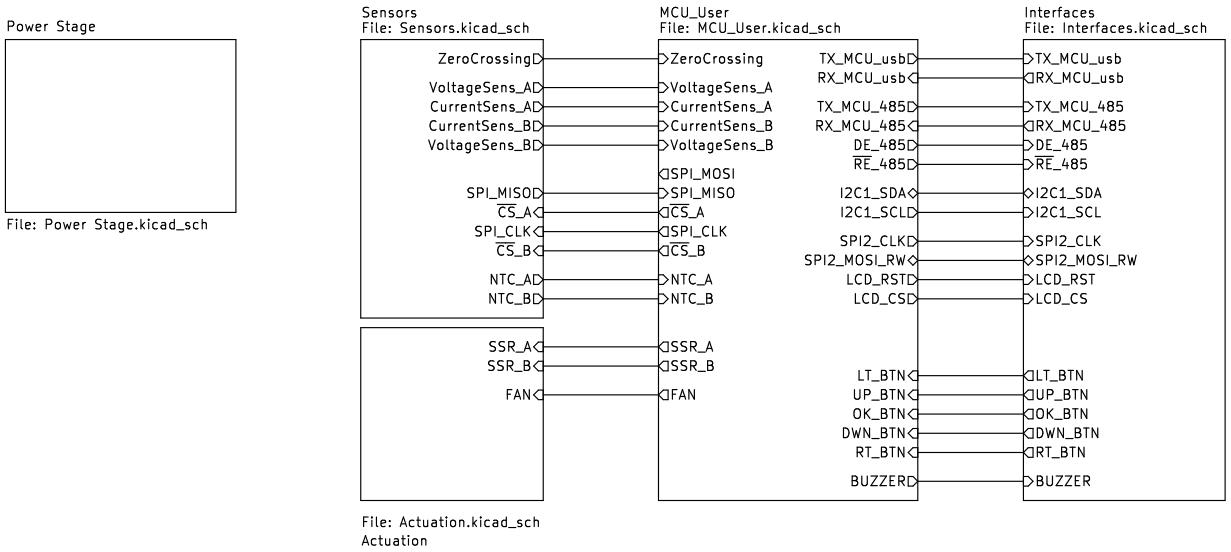
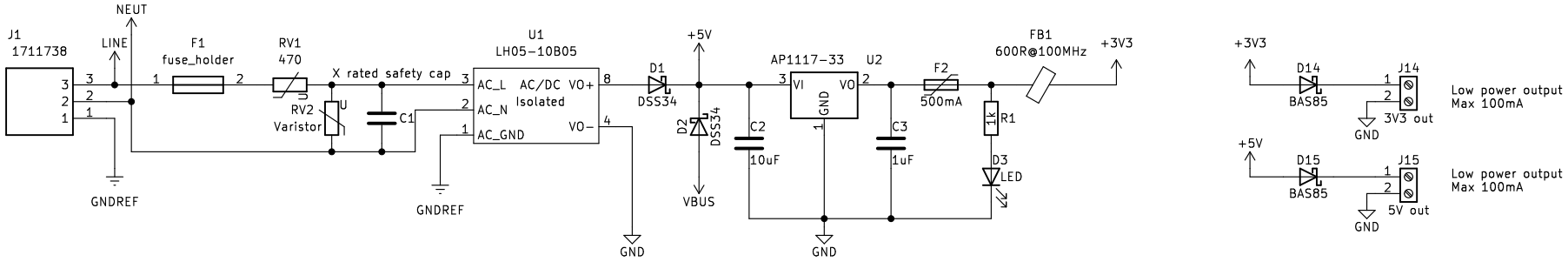


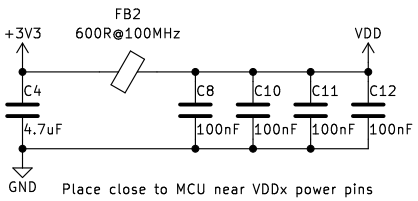
Sheet: /
File: reflow_oven.kicad_sch

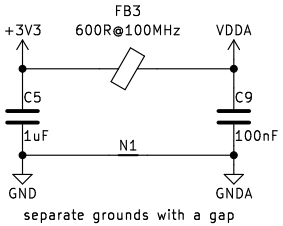
Title: Reflow Controller

Size: A4	Date:	**Rev: 1.0**
KiCad E.D.A. kicad (6.0.9)		Id: 1/6



Power Filter





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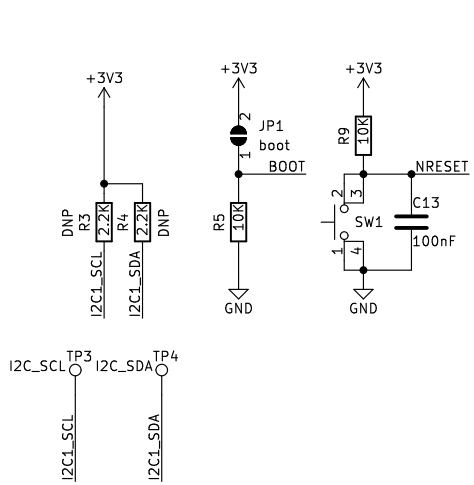
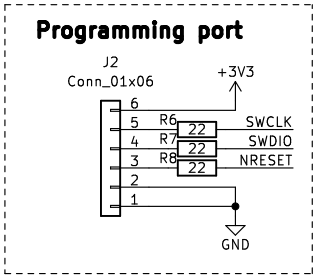
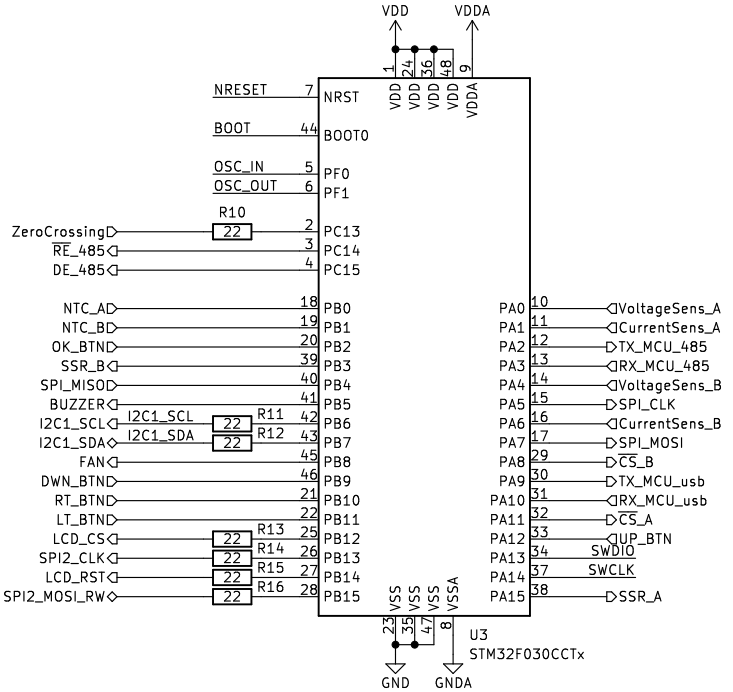
Title: Reflow Controller	
Size: A4	Date:
KiCad E.D.A. kicad (6.0.9)	Rev: Id: 2/6



Programming port



Non-standard connetion

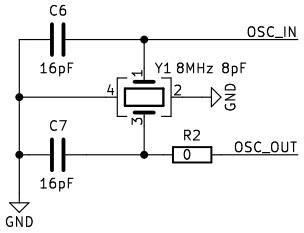


Oscillator

Load capacitance calc:

C = (Cx * Cy)/(Cx+Cy)

8pF from datasheet

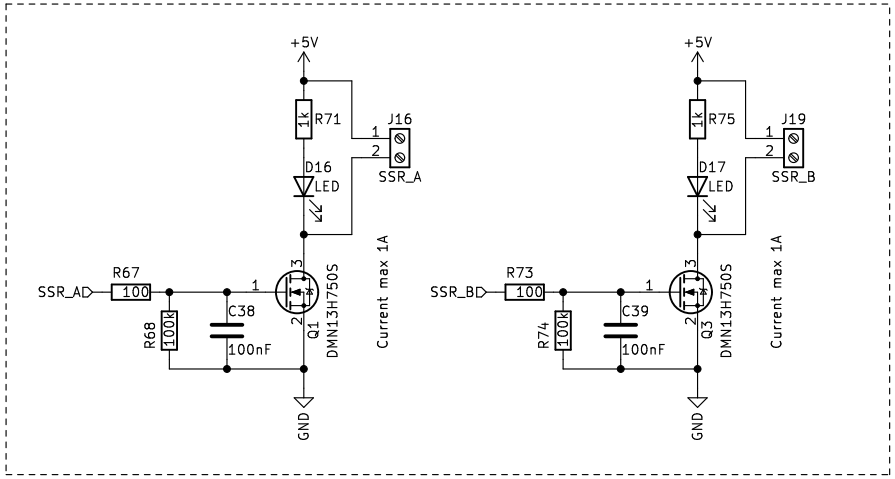


Sheet: /MCU_User/
File: MCU_User.kicad_sch

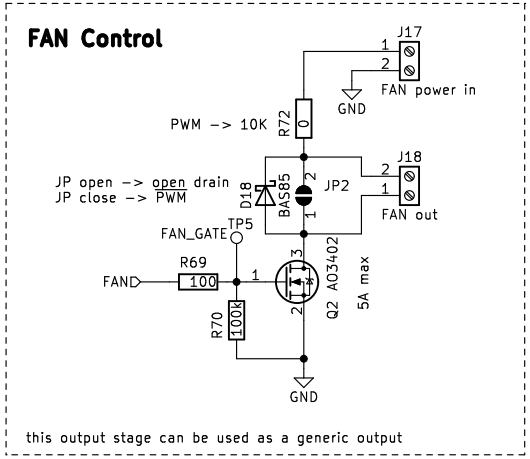
Title: Reflow Controller

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.9)		Id: 3/6

SSR Enable

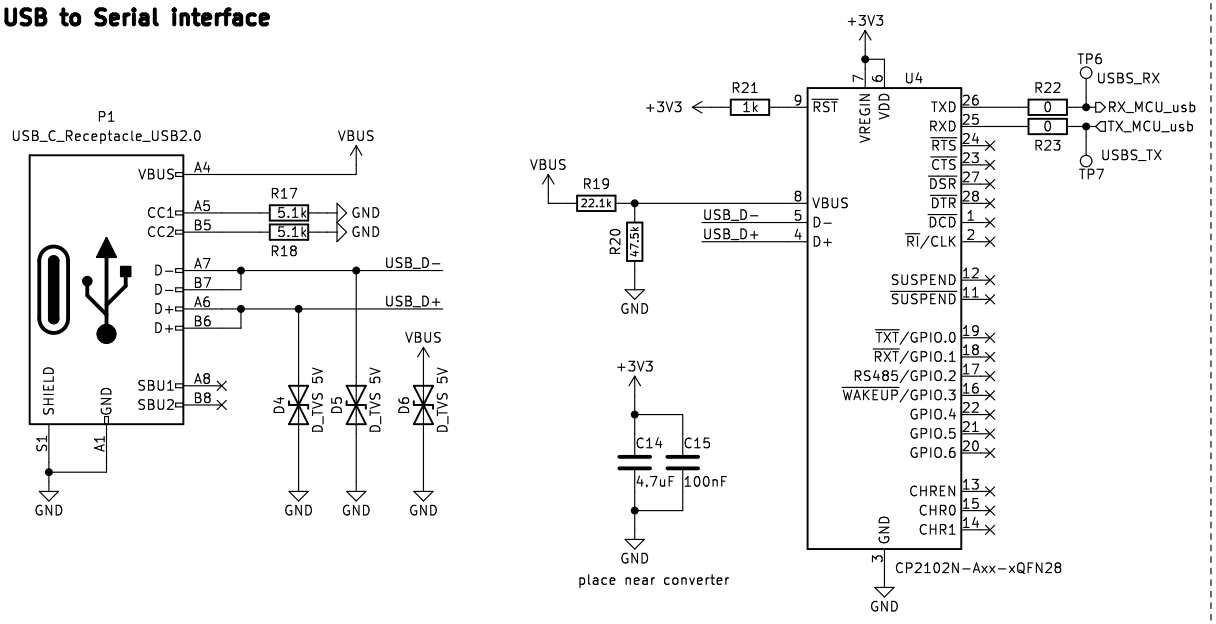


FAN Control

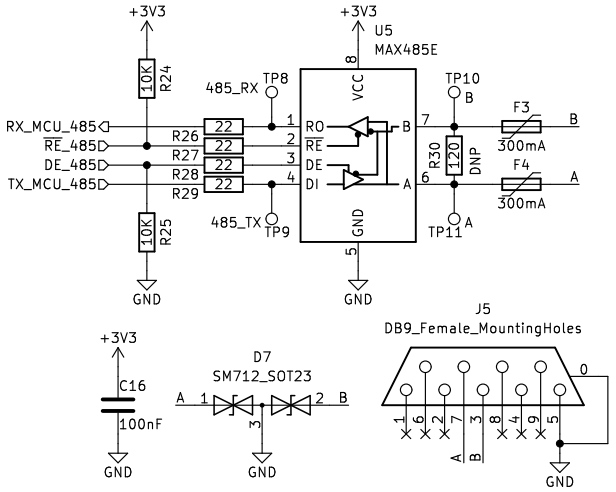


Sheet: /Actuation/		
File: Actuation.kicad_sch		
Title: Reflow Controller		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.9)		Id: 4/6

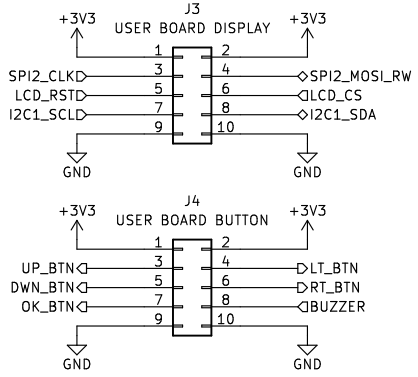
USB to Serial interface



RS−485



User Board connector



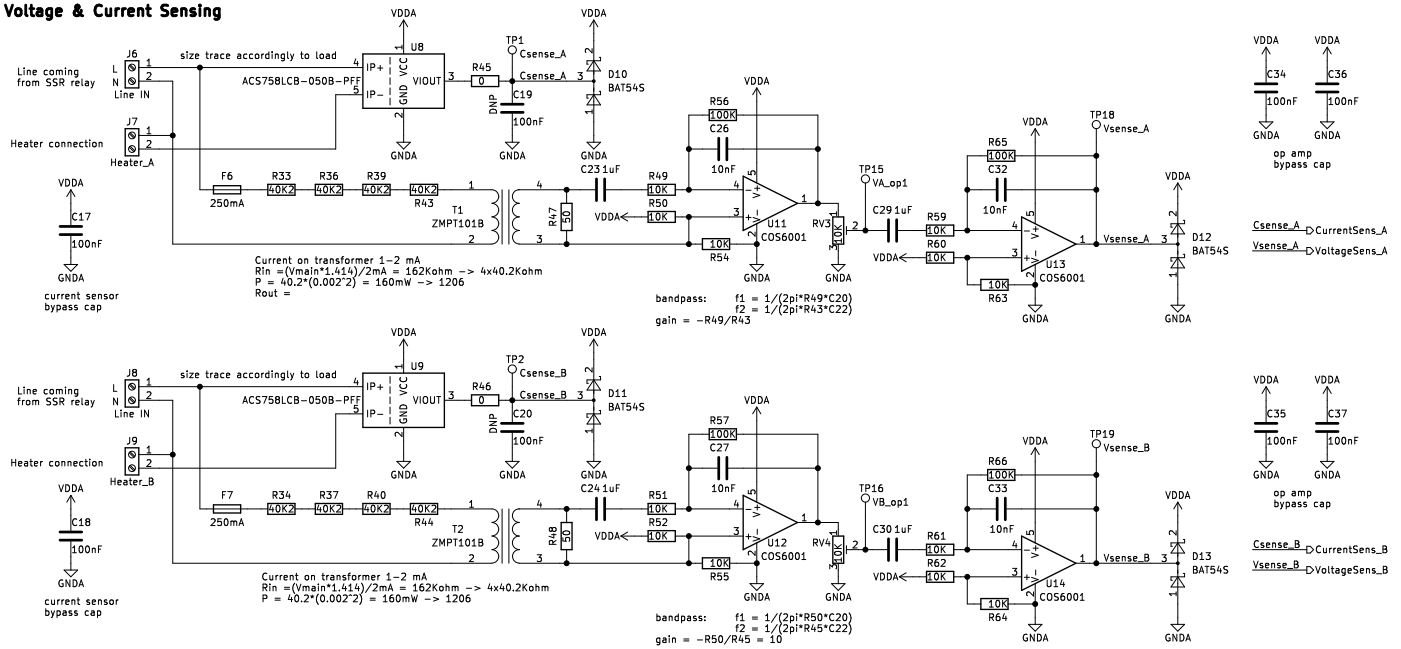
TODO
− buttons, screen, buzzer

Sheet: /Interfaces/
File: Interfaces.kicad_sch

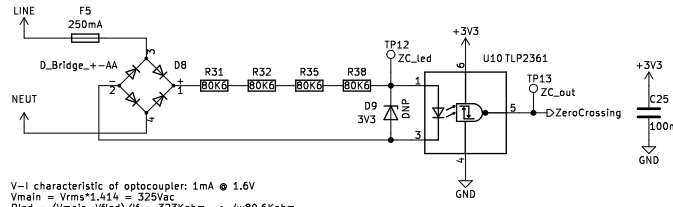
Title: Reflow Controller

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.9)		Id: 5/6

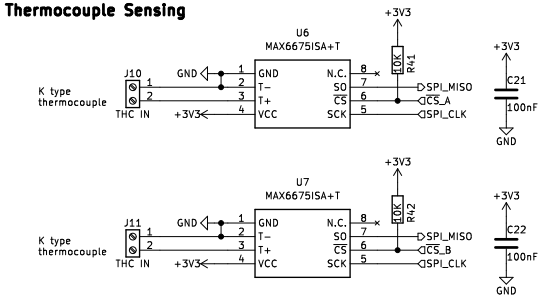
Voltage & Current Sensing



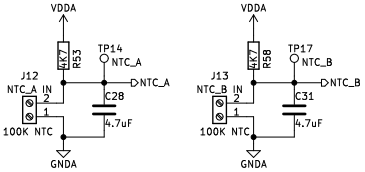
Zero Crossing Detector



Thermocouple Sensing



NTC Sensing



Sheet: /Sensors/
File: Sensors.kicad_sch

Title: Reflow Controller

Size: A3	Date:	Rev:
KiCad E.D.A. kicad (6.0.9)		Id: 6/6