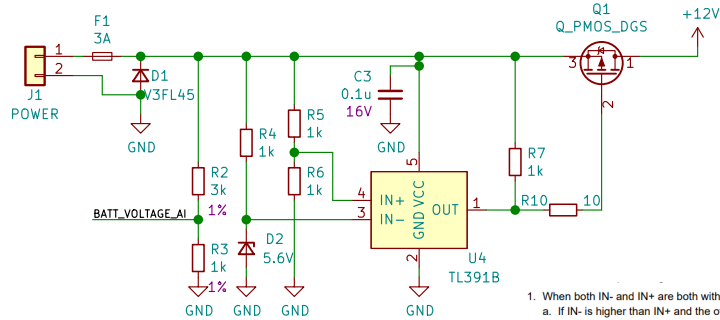


## Power Input

## Project: Wood Stove

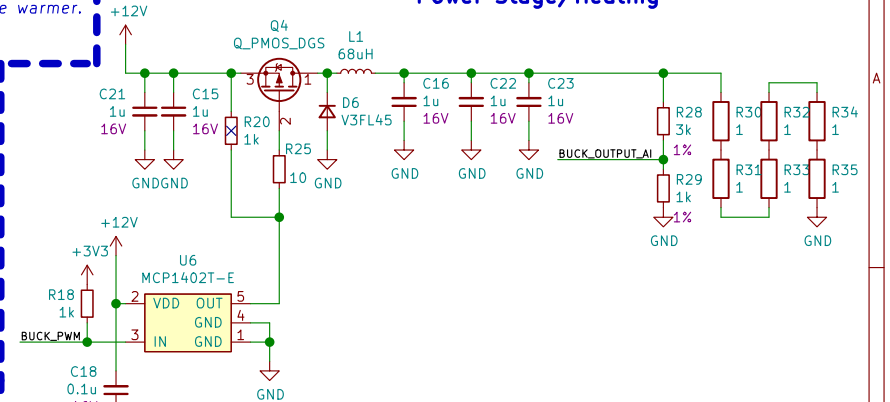
A 25W, STM32 based, PID controlled beverage warmer.

## Power Stage/Heating



Undervoltage, overcurrent and reverse voltage protection.

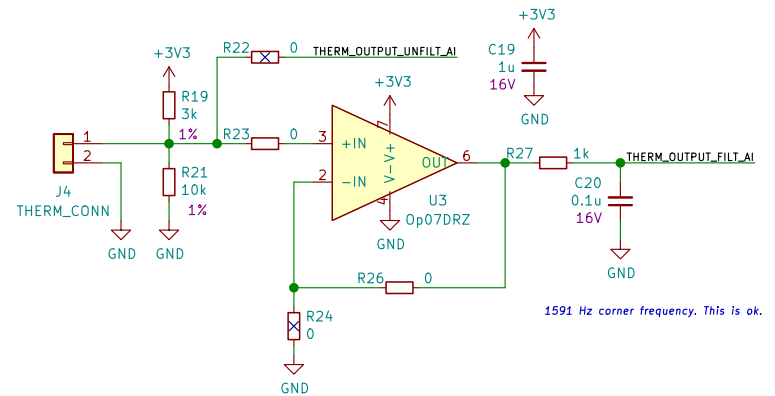
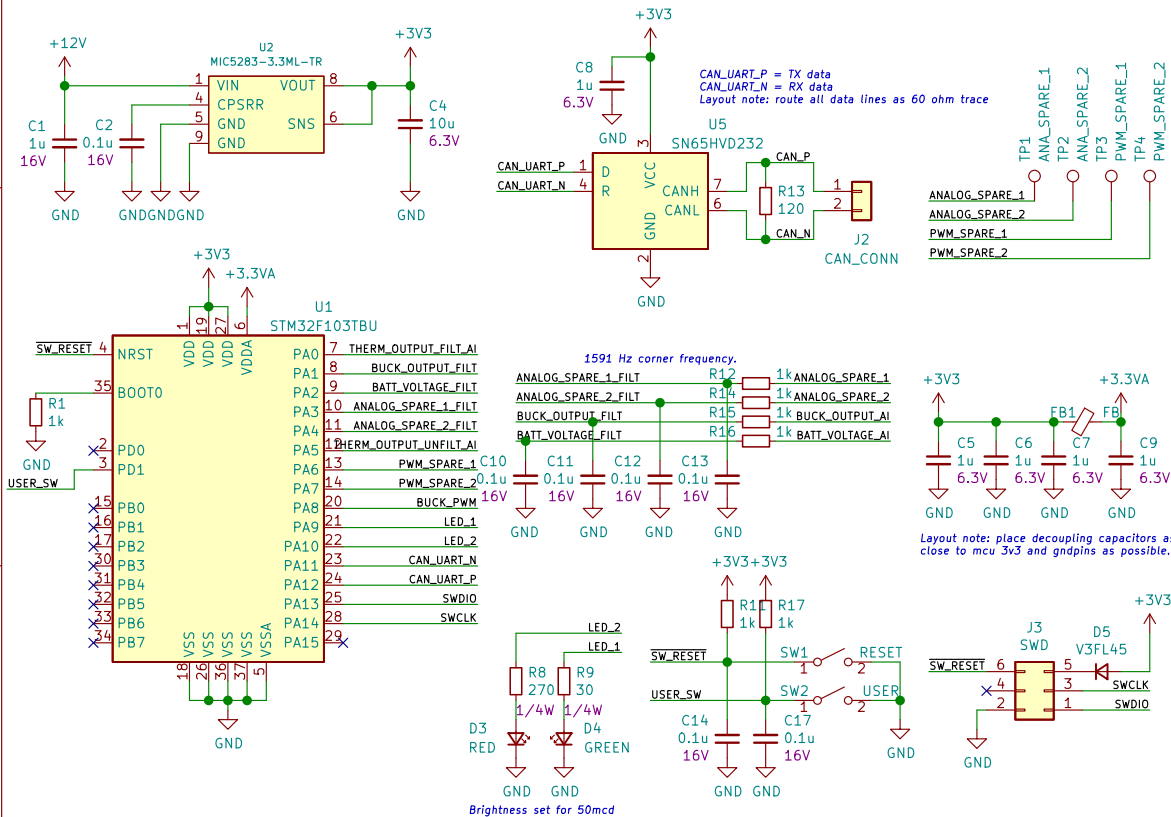
- When both IN- and IN+ are both within the common mode range:
  - If IN- is higher than IN+ and the offset voltage, the output is low and the output transistor is sinking current
  - If IN- is lower than IN+ and the offset voltage, the output is high impedance and the output transistor is not conducting



TO DO:  
 - Add digi P/N for connector pre-crimped leads  
 - Add digi P/N for thermistor  
 - Add digi P/N for passives  
 - Add digi P/N for Thermal interface material  
 - Add digi P/N for CAN to UART adapter?  
 TO DO: SIM THIS

## Digital/MCU

## Thermistor Interface



1591 Hz corner frequency. This is ok.

By: Walsh Bros Inc.  
**Memorial University of Newfoundland**

Sheet: /  
 File: beverageWarmer1.sch

**Title: Wood Stove**

Size: A4 Date: 2022-01-13  
 KiCad E.D.A. kicad (5.1.8)-1

**Rev: 1**  
 Id: 1/1