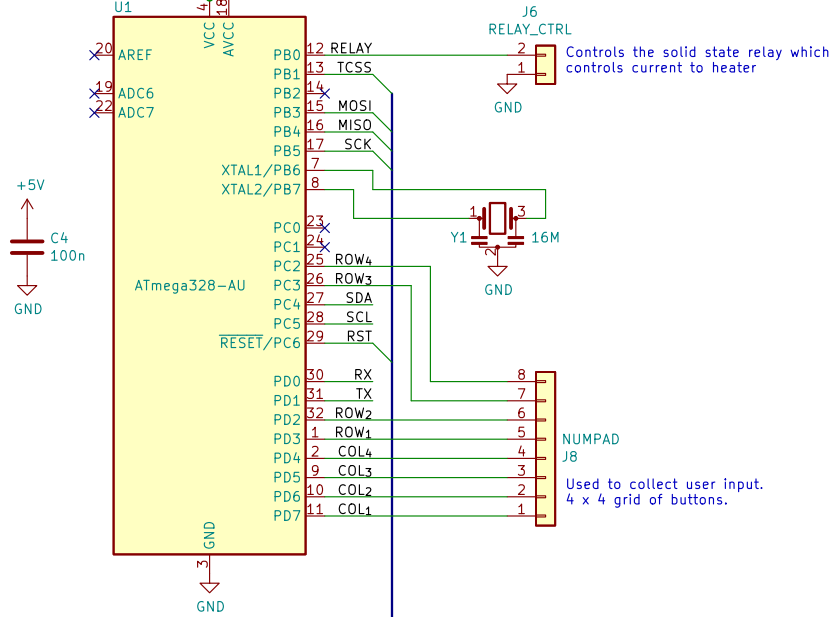
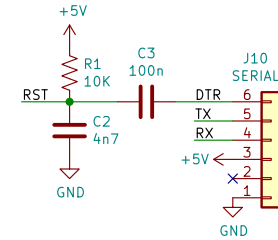


Microcontroller

Configured like an Arduino Nano



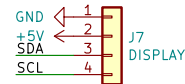
Serial Programming Header



Added to allow potentially "Arduino"-like programming experience

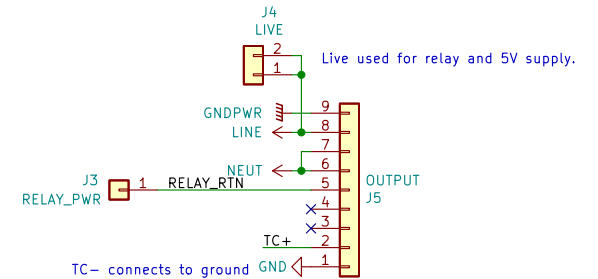
Display Connection

An LCD character display with 20 columns and 4 rows. Only user output interface for the system.



120V Zone

Terminal block where all connections are made. All are at 120VAC, except for the thermocouple terminals.



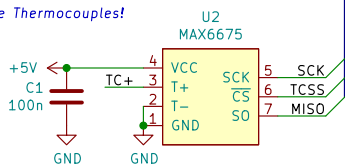
J1 NEUTRAL → 1 → NEUT
Return from 5V adapter

One bolt is used to ground chassis
GNDPWR H1 H2
M3 M3

Thermocouple IC

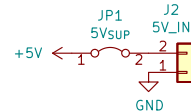
Used to read in temperature of oven

K-Type Thermocouples!



5V Input

Connects to the output of a USB charger. Can be disconnected and reconnected as needed.



General purpose oven board
Intended to control a heater to achieve a two step curing process

Uses a K-Type thermocouple

Title: Oven

HPVDT	Date: 2021-06-01	Rev: 1.1
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu21.04.1	Size: USLetter	Sheet: 1/1