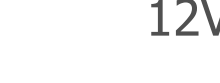


Incubator Shield

This circuit connects an Arduino to the components of a desktop incubator that can sustain a temperature of 100F safely for several days. Intended for tempeh...

12V Power

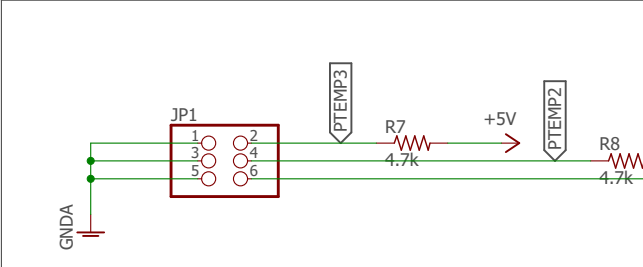


The diagram shows a circuit for a 12V power supply. It includes a +12V input, a GND connection, a capacitor labeled C1 (CAP-US1206), and a 12VPOWER output. The capacitor is connected between the +12V line and the GND line. The 12VPOWER output is shown as a two-pin connector with pins 1 and 2, where pin 1 is connected to the +12V line and pin 2 is connected to the GND line.

Heated Bed Logic Shifter (noninverting/ norm-off)

Heater is print bed MOSFET with a 7.4Vth switching gate

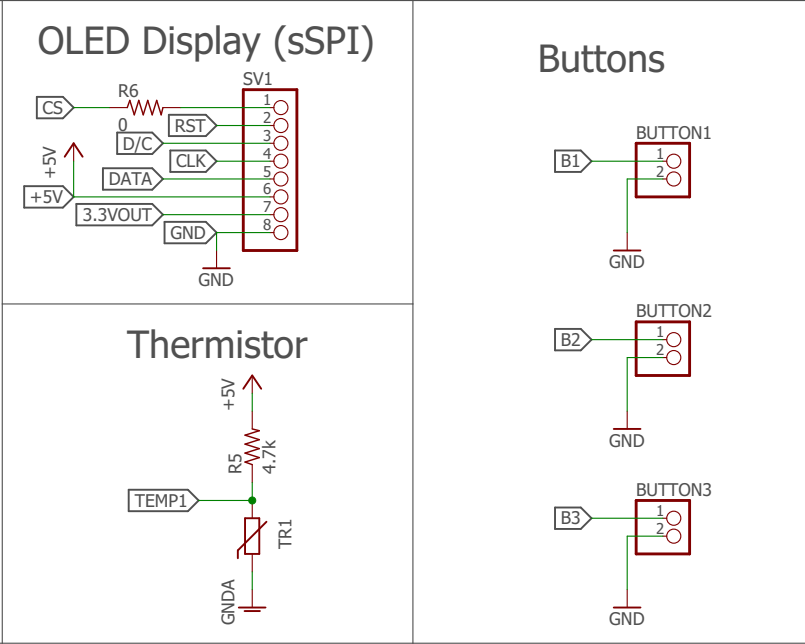
HEATER



Arduino Connections

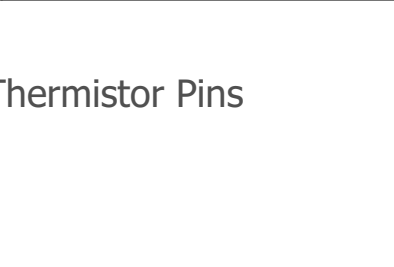
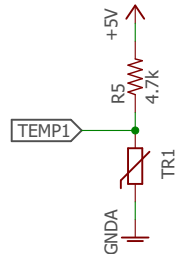
The diagram illustrates the connections for an Arduino Uno board. The components and their connections are as follows:

- Power Supply:** A +12V source is connected to the SLID SWITCH. A +5V source is connected to the VIN pin.
- Capacitor:** A capacitor (C2) is connected between the +5V and GND pins.
- Temperature Sensor Module:**
 - TEMP1 is connected to A0.
 - PTEMP1 is connected to A1.
 - PTEMP2 is connected to A2.
 - PTEMP3 is connected to A3.
- Digital Components:**
 - RST is connected to pin 13.
 - D/C is connected to pin 12.
 - CLK is connected to pin 11.
 - DATA is connected to pin 10.
 - N\$9 is connected to pin 9.
 - HEAT1 is connected to pin 6.
 - B3 is connected to pin 4.
 - B1 is connected to pin 2.
- Other Connections:**
 - I/O REF is connected to 3.3V.
 - RESET is connected to 5V.
 - GND.. is connected to GND.
 - VIN is connected to +5V.



Thermistor

The diagram shows a simple voltage divider circuit. A 5V DC source is connected to one end of a 4.7k resistor, labeled R5. The other end of R5 is connected to one terminal of a thermistor, labeled TR1. The other terminal of the thermistor is connected to ground, labeled GND. The node between the resistor and the thermistor is labeled TEMP1, indicating the point where the temperature is measured.



Schematic diagram of spare thermistor pins. A 6-pin connector JP1 is shown. Pins 1, 3, and 5 are connected to GND. Pins 2, 4, and 6 are connected to a +5V supply through resistors R7, R8, and R9, each labeled 4.7k. The output lines are labeled PTEMP3, PTEMP2, and PTEMP1.