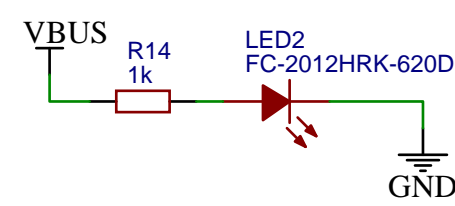


POWER LED

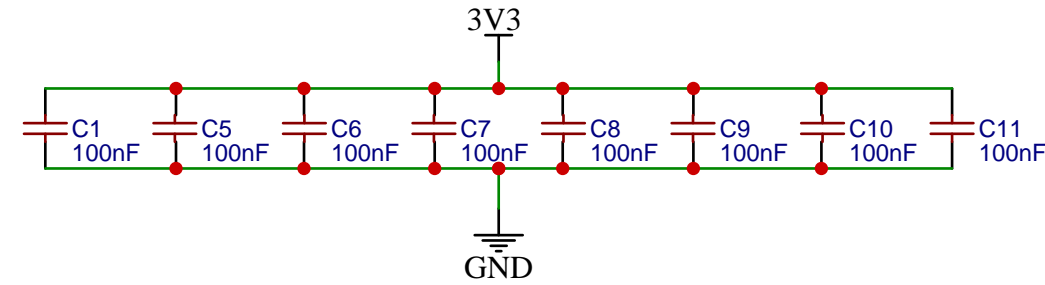
```

graph LR
    VBUS --- R14[R14 1k]
    R14 --- LED2[LED2 FC-2012HRK-620D]
    LED2 --- GND[GND]
  
```

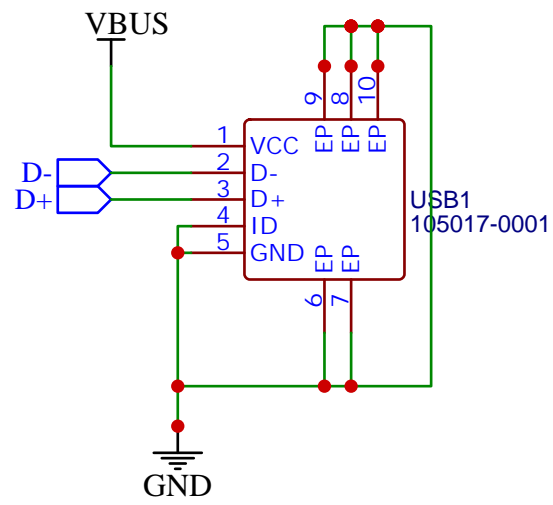
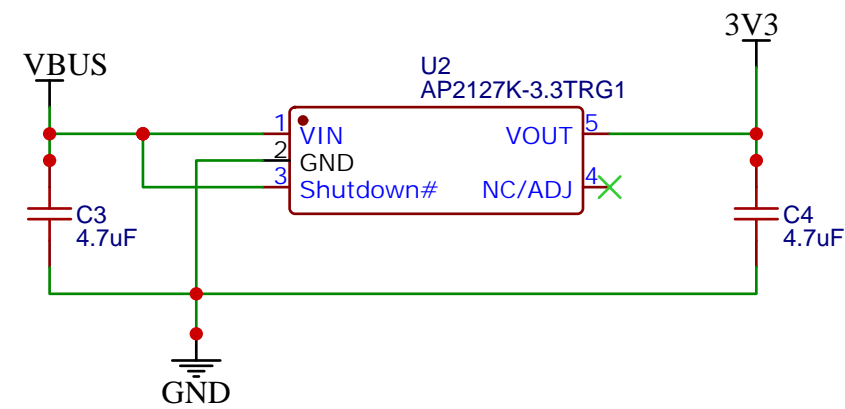


DECOUPLERS

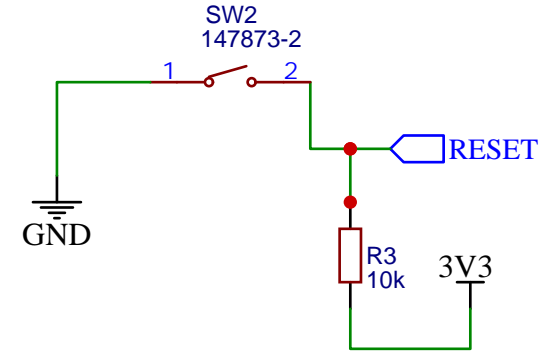
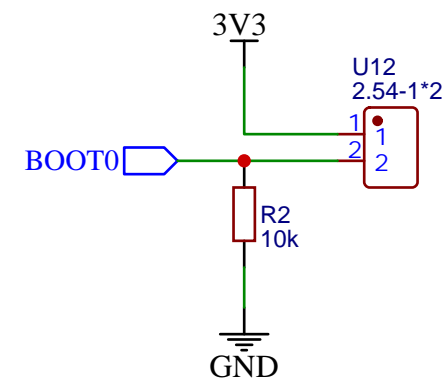
The diagram illustrates a decoupling network for a 3V3 supply. A green horizontal line represents the power rail, connected to a 3V3 source at the top. Below the rail, a series of capacitors (C1 to C11) are connected to ground (GND). The capacitors are labeled C1 100nF, C5 100nF, C6 100nF, C7 100nF, C8 100nF, C9 100nF, C10 100nF, and C11 100nF. Red dots indicate connection points along the rail and to ground.



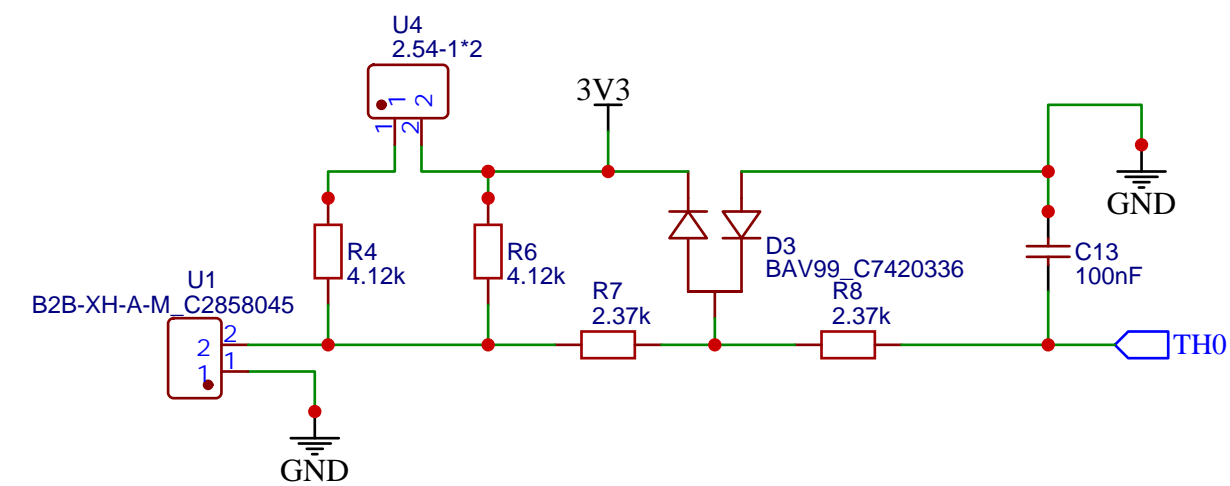
VOLTAGE



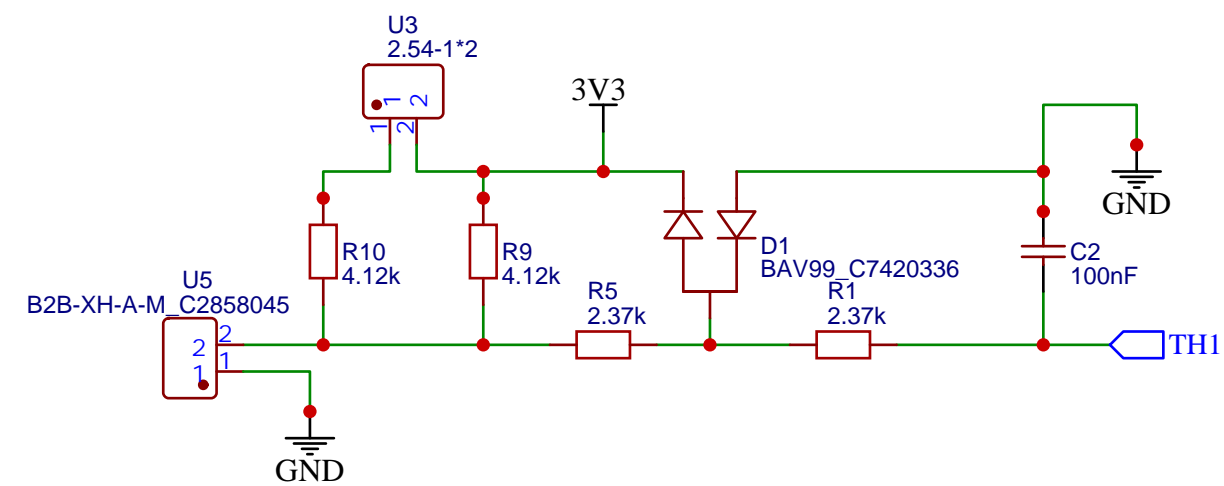
BOOT BTN



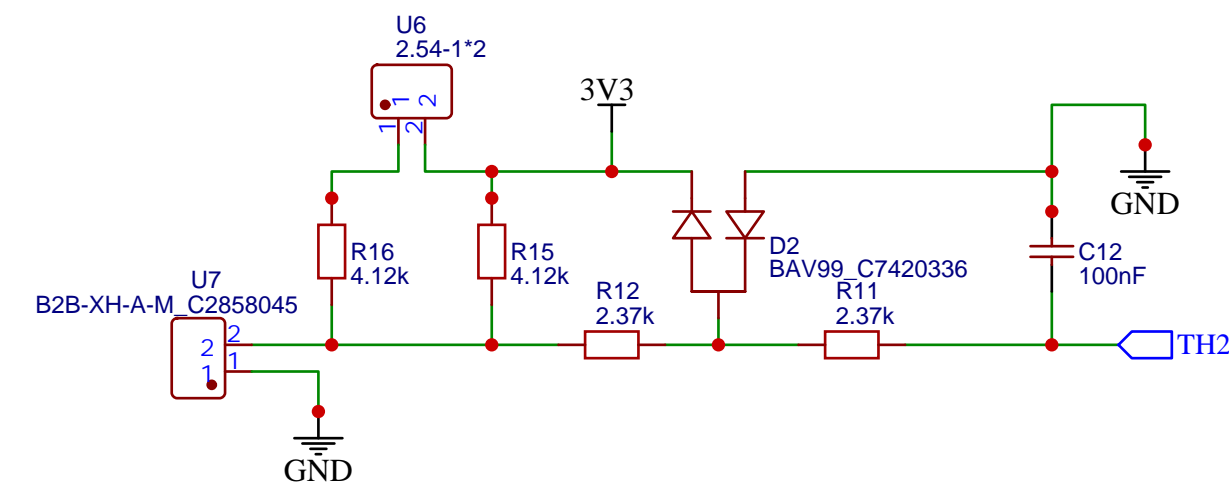
TH0



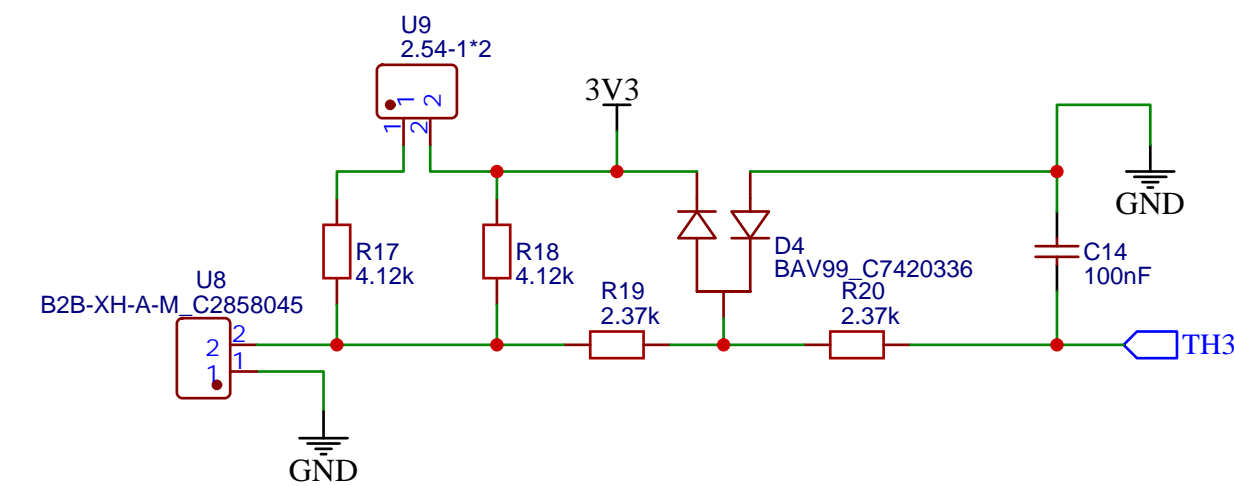
TH1



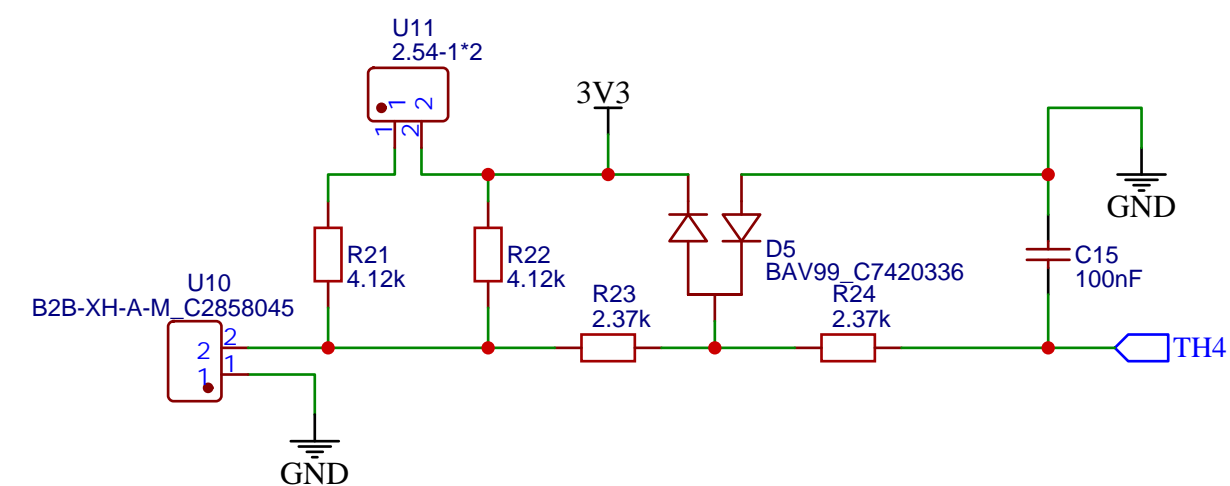
TH2



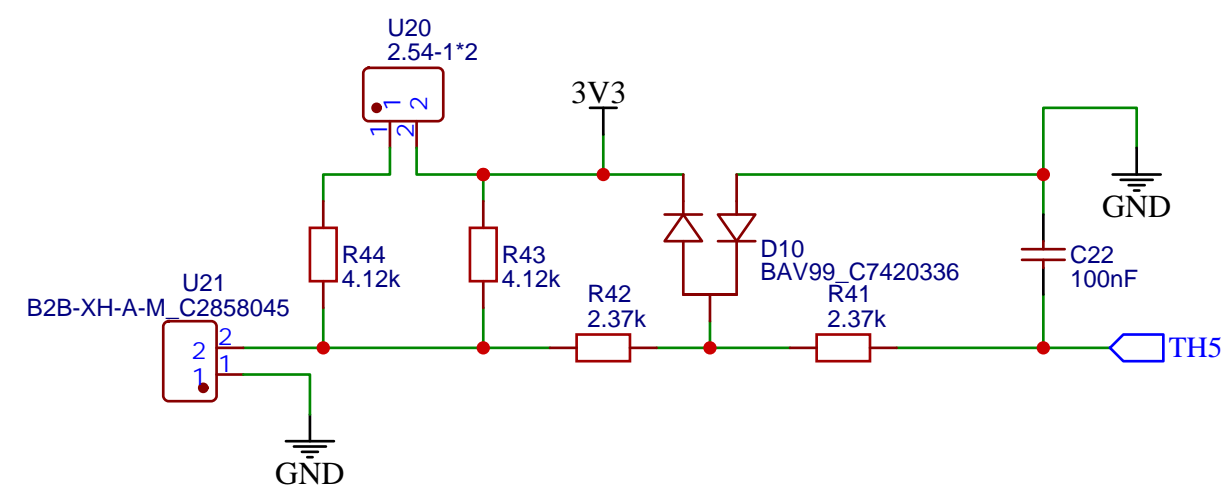
TH3



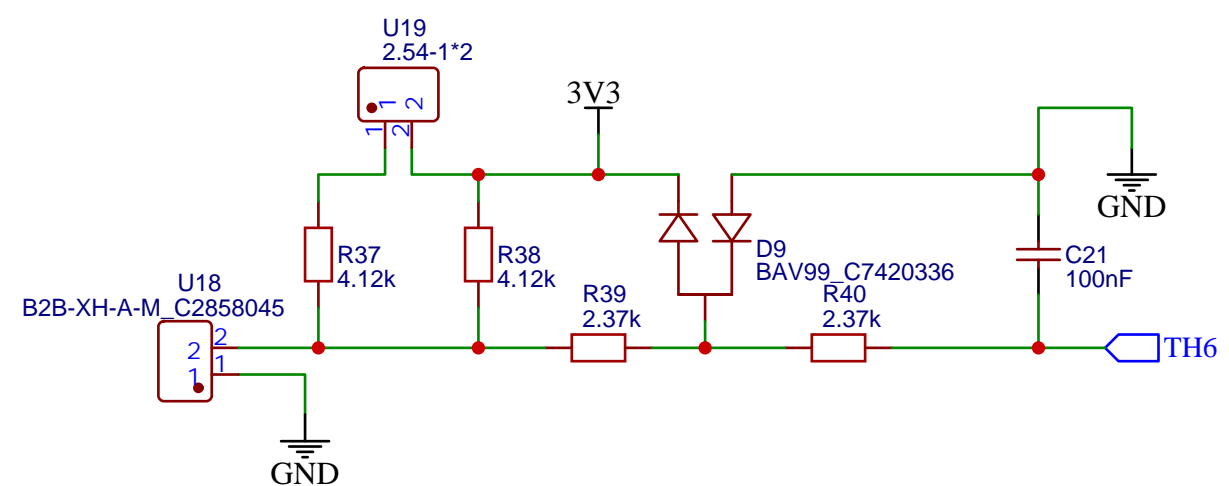
TH4



TH5



TH6



The circuit diagram for the TH7 module is as follows:

- Power Supply:** A 3V3 supply is connected to the circuit.
- Resistors:**
 - R33 (4.12k) and R34 (4.12k) are connected in series between the 3V3 supply and the input.
 - R35 (2.37k) and R36 (2.37k) are connected in series between the input and the output.
- Diode:** A diode D8 (BAV99) is connected in series between the input and the output.
- Capacitor:** A capacitor C20 (100nF) is connected between the output and ground.
- Connectors:**
 - U16 (B2B-XH-A-M) is a 2-pin header connected to the input.
 - U17 (2.54-1*2) is a 3-pin header connected to the input.
 - TH7 is a 3-pin header connected to the output.

