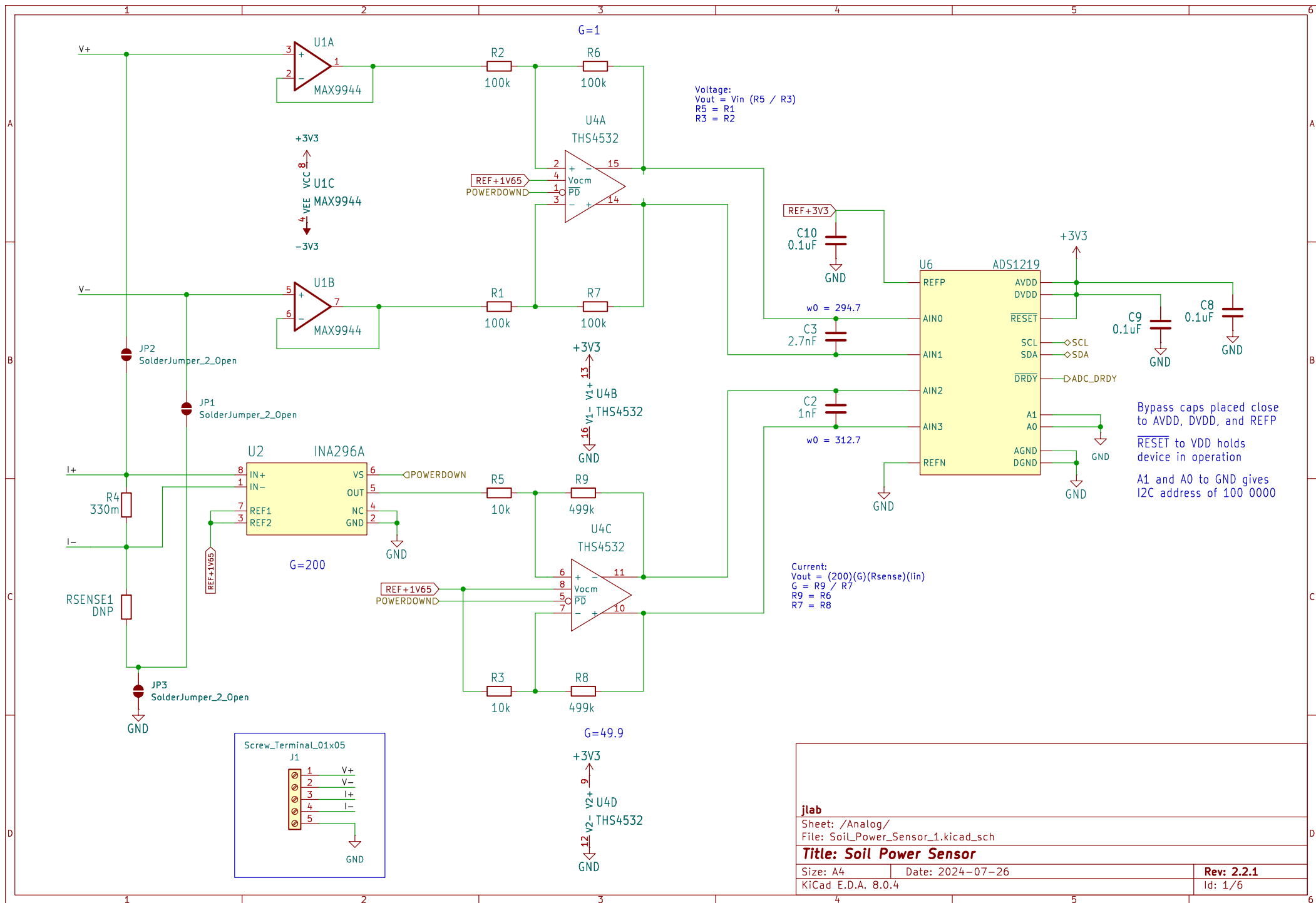


jlab		
Sheet: /		
File: Soil Power Sensor.kicad_sch		
Title: Soil Power Sensor		
Size: A4	Date: 2024-07-26	Rev: 2.2.1
KiCad E.D.A. 8.0.4		Id: 1/6



jlab

Sheet: /Analog/  
 File: Soil\_Power\_Sensor\_1.kicad\_sch

**Title: Soil Power Sensor**

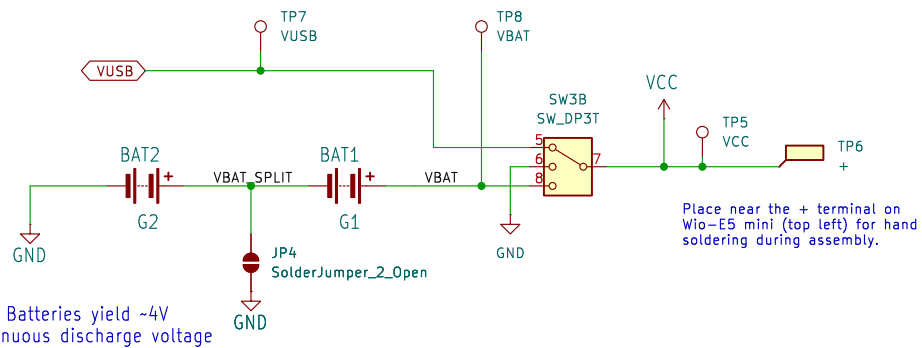
Size: A4 Date: 2024-07-26

KiCad E.D.A. 8.0.4

**Rev: 2.2.1**

Id: 1/6

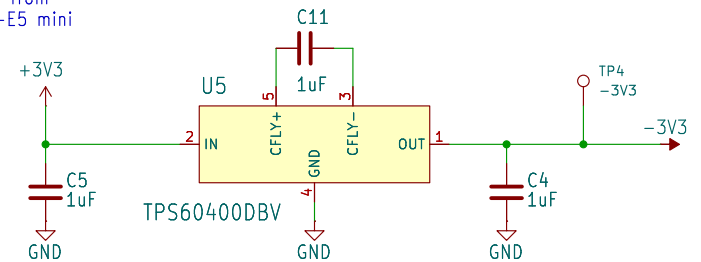
## VCC Input



## Charge Pump for -3V3 Rail

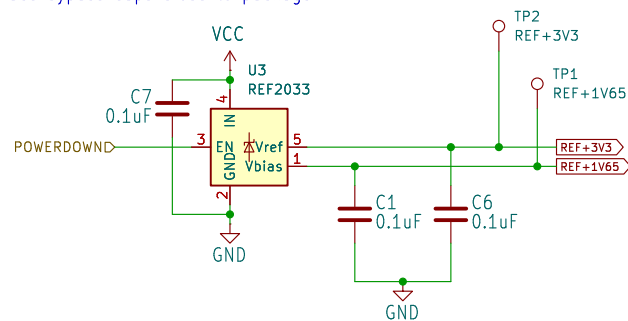
Place bypass caps close to package

+3V3 comes from LDO on Wio-E5 mini



## Reference +3V3 and +1V65

Place bypass caps close to package



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Sheet: /Power/

File: Soil\_Power\_Sensor\_2.kicad\_sch

**Title: Soil Power Sensor**

Size: A4

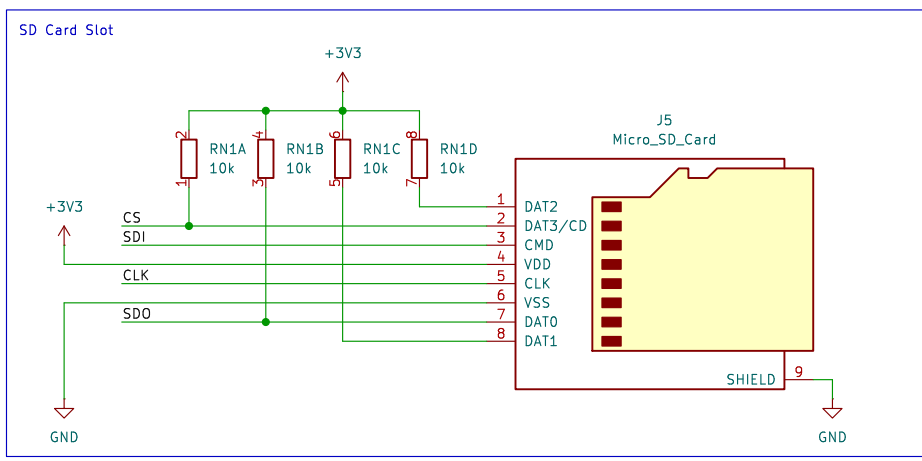
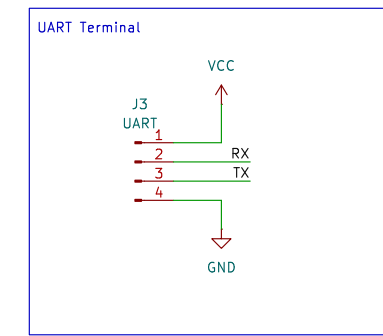
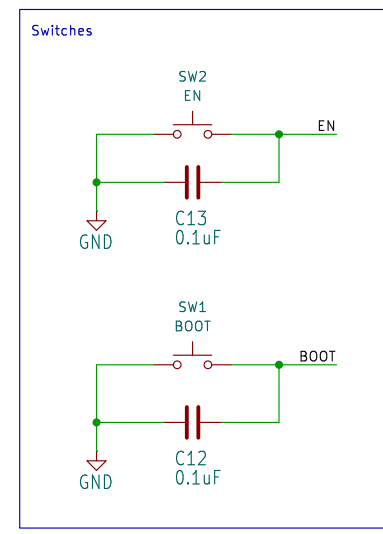
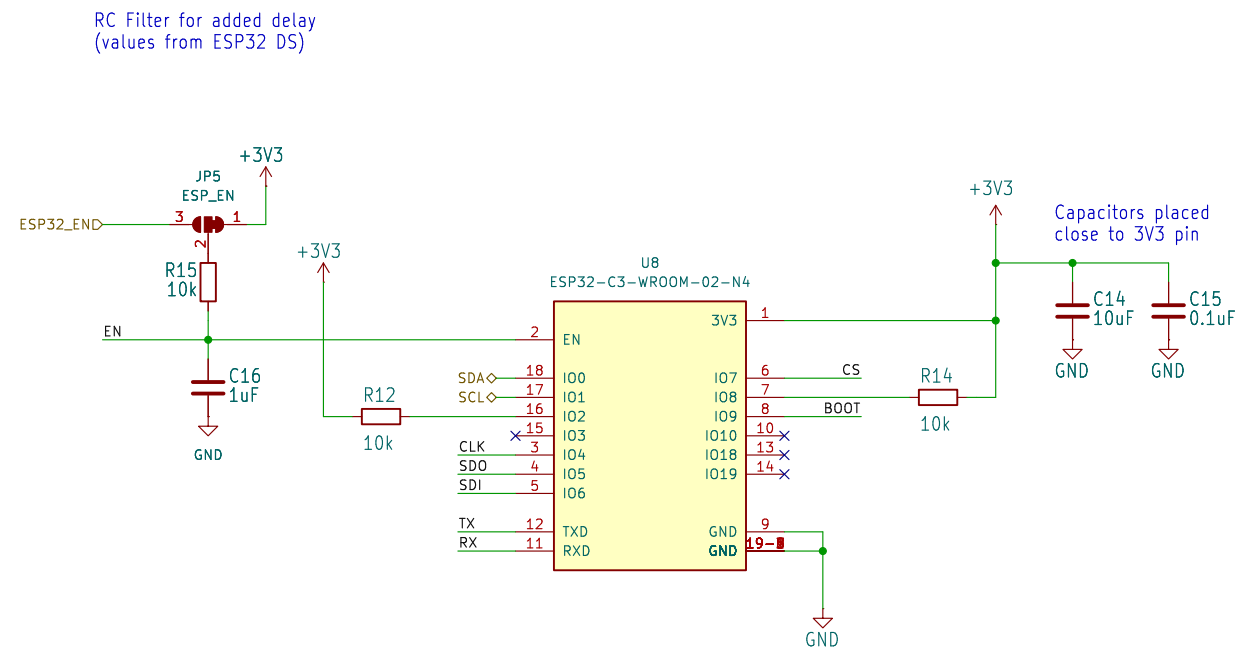
Date: 2024-07-26

Rev: 2.2.1

KiCad E.D.A. 8.0.4

Id: 2/6



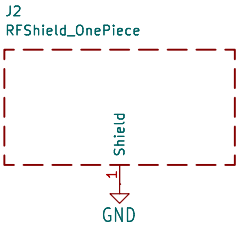


jlab		
Sheet: /ESP32/		
File: Soil_Power_Sensor_4.kicad_sch		
Title: Soil Power Sensor		
Size: A4	Date: 2024-07-26	Rev: 2.2.1
KiCad E.D.A. 8.0.4	Id: 4/6	

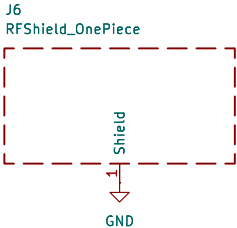
# RF Shield

Covers analog components in sheet 1 and reference voltage source.

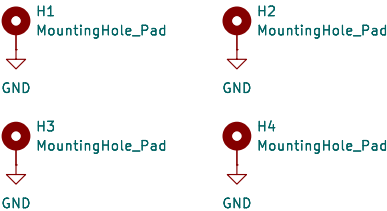
Frame placed  
on PCB



Cover not placed



# Mounting Holes



jlab

Sheet: /Hardware/  
File: hardware.kicad\_sch

**Title: Soil Power Sensor**

Size: A4 Date: 2024-07-26

KiCad E.D.A. 8.0.4

**Rev: 2.2.1**

Id: 5/6