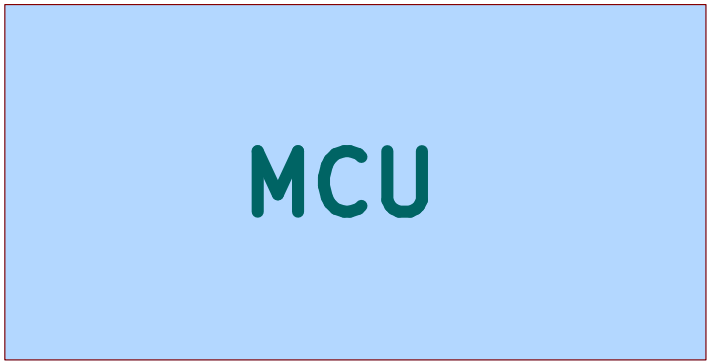
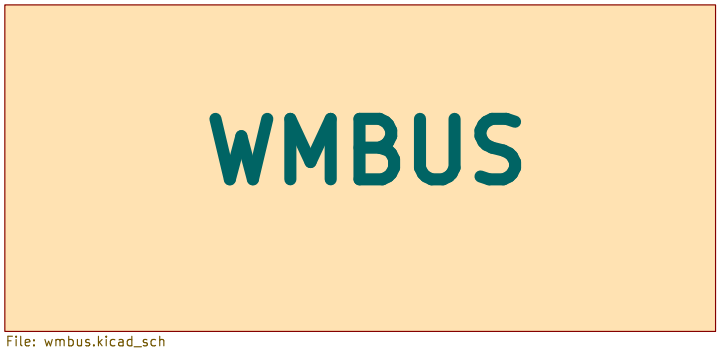
File: connector.kicad_sch

File: peripherals.kicad_sch



File: mcu.kicad_sch



File: wmbus.kicad_sch

File: power.kicad_sch

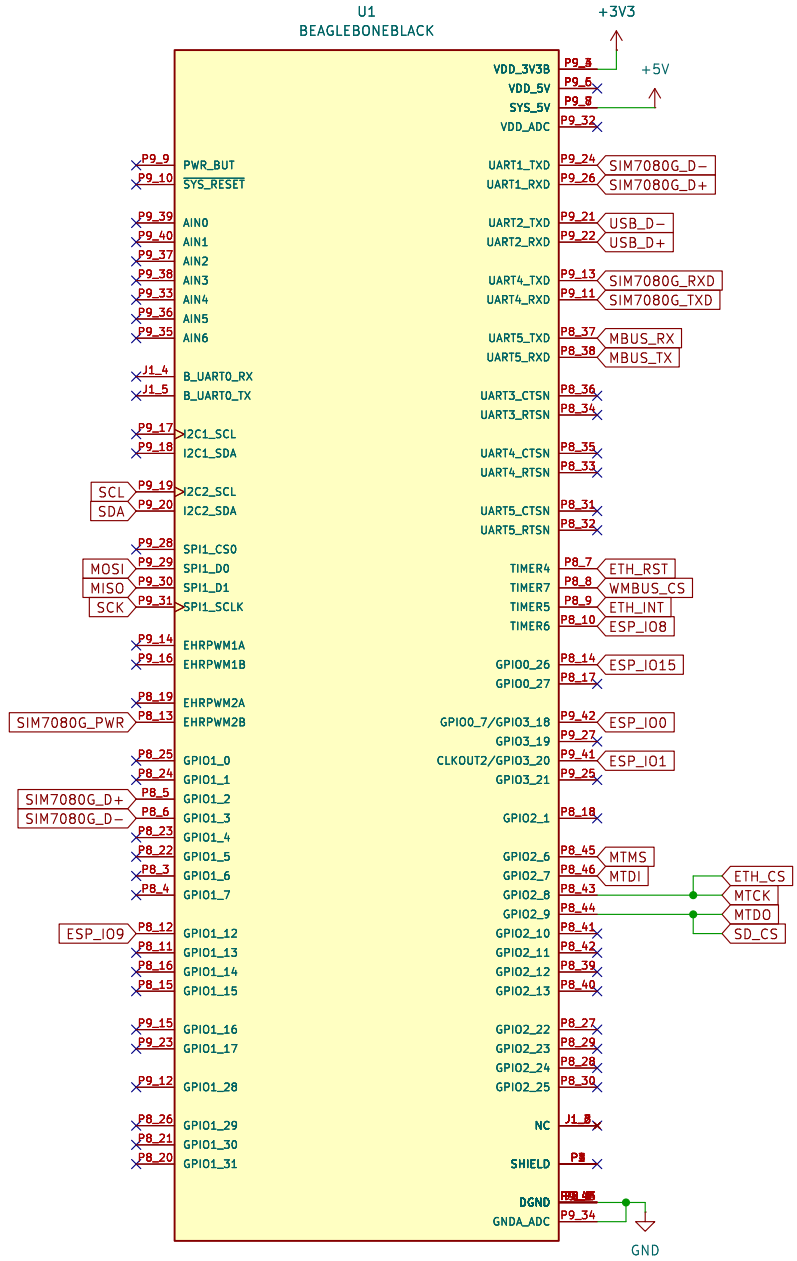
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines

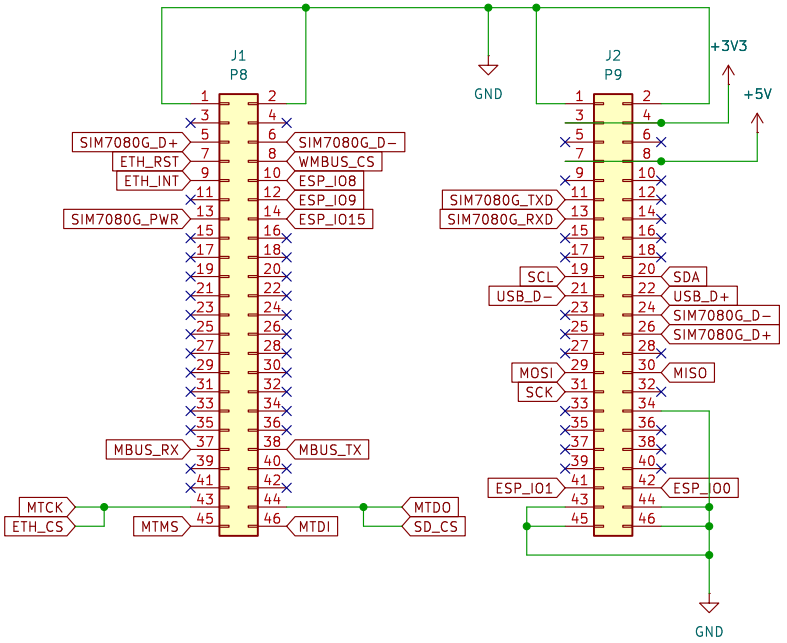
Sheet: /
File: s0.kicad_sch

Title: IoT Gateway

Size: A4	Date: 2024-10-15	**Rev: v0.1.0**
KiCad E.D.A. 9.0.2		Id: 1/6

Beagle Board Connector





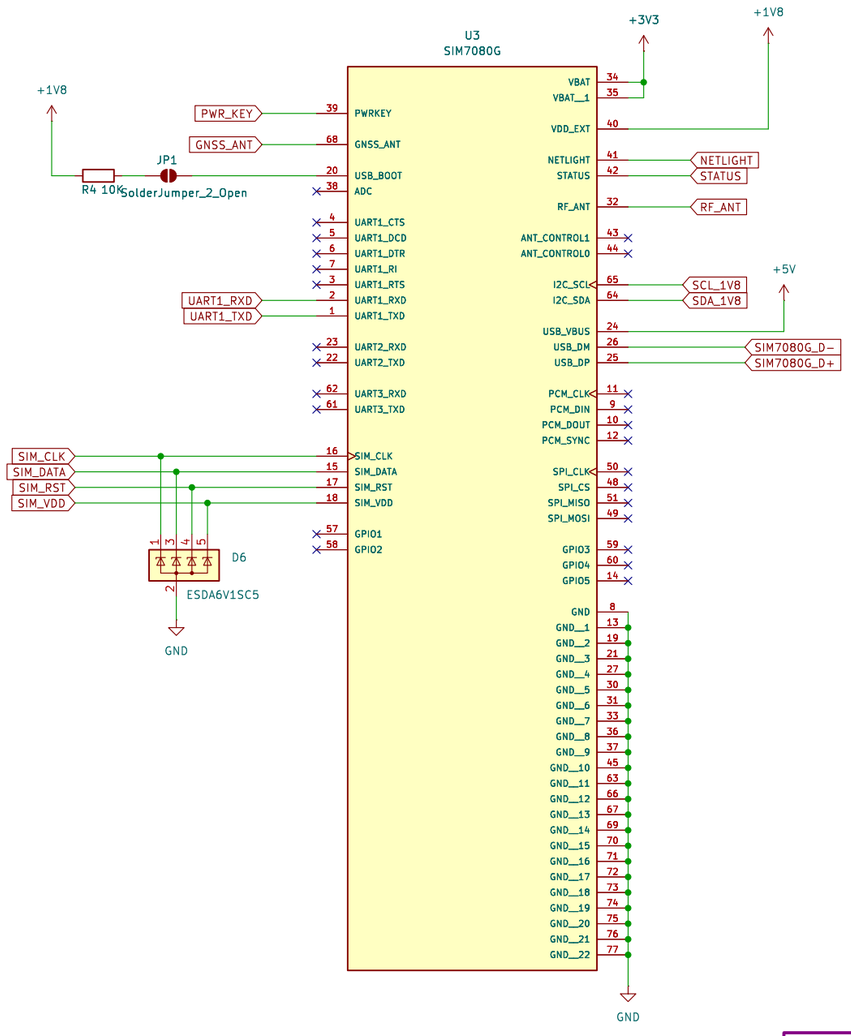
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines

Sheet: /Connector/
File: connector.kicad_sch

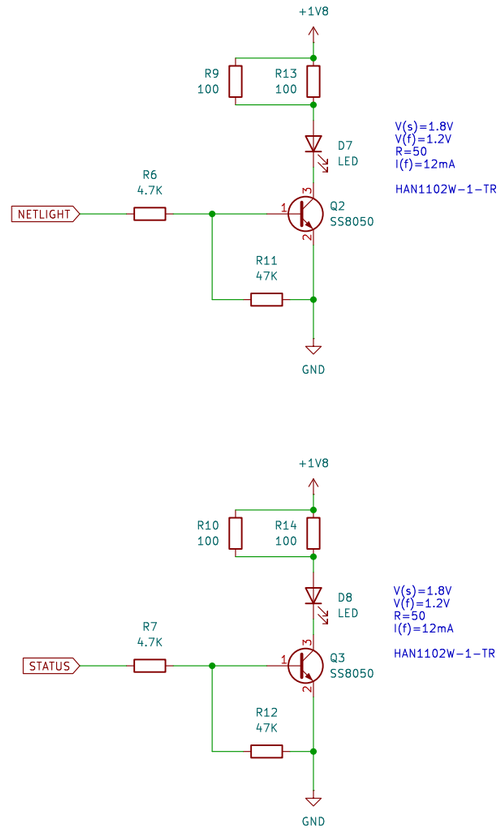
Title: IoT Gateway

Size: A4	Date: 2024-10-15	**Rev: v0.1.0**
KiCad E.D.A. 9.0.2		Id: 2/6

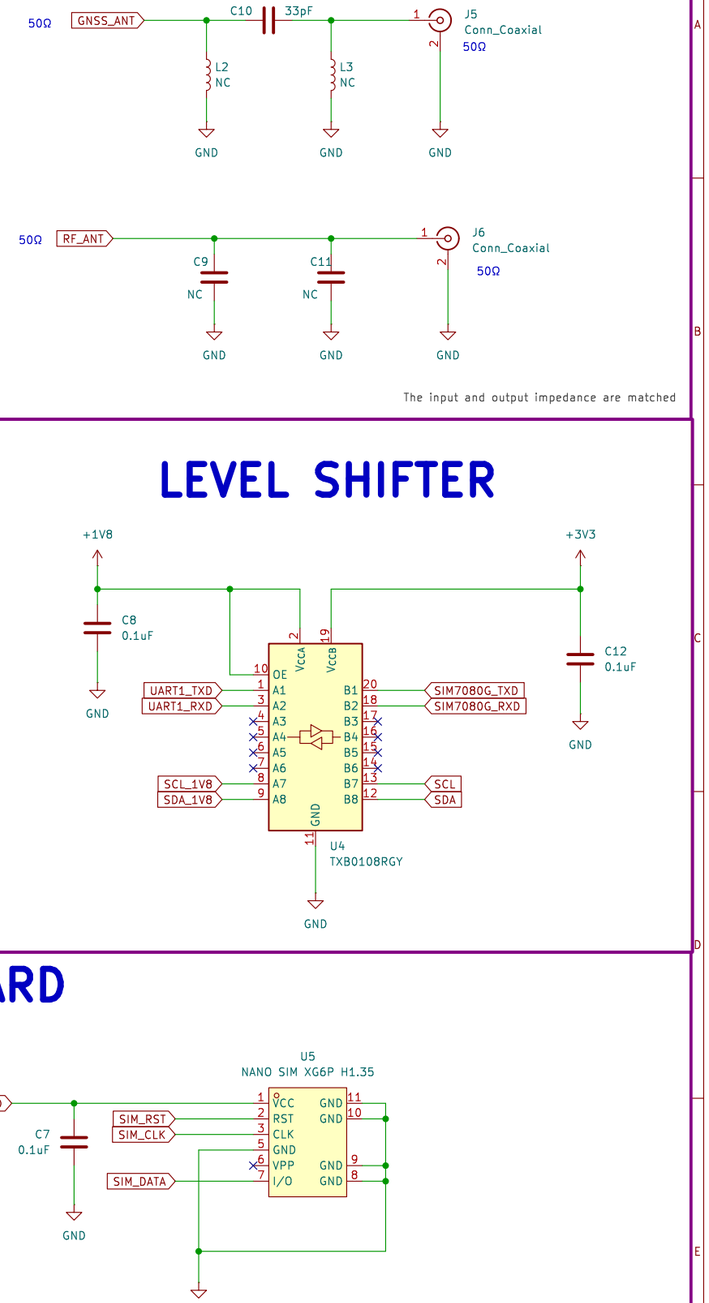
SIM7080G



STATUS LEDS



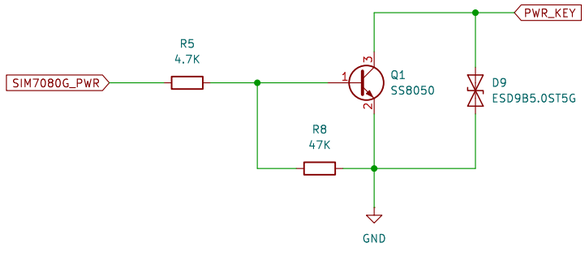
ANTENNAE



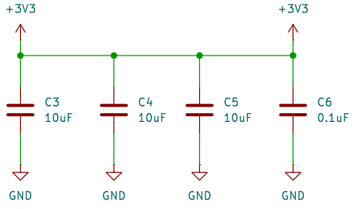
LEVEL SHIFTER

SIM CARD

SIM POWER CONTROL



DECOUPLING CAPS



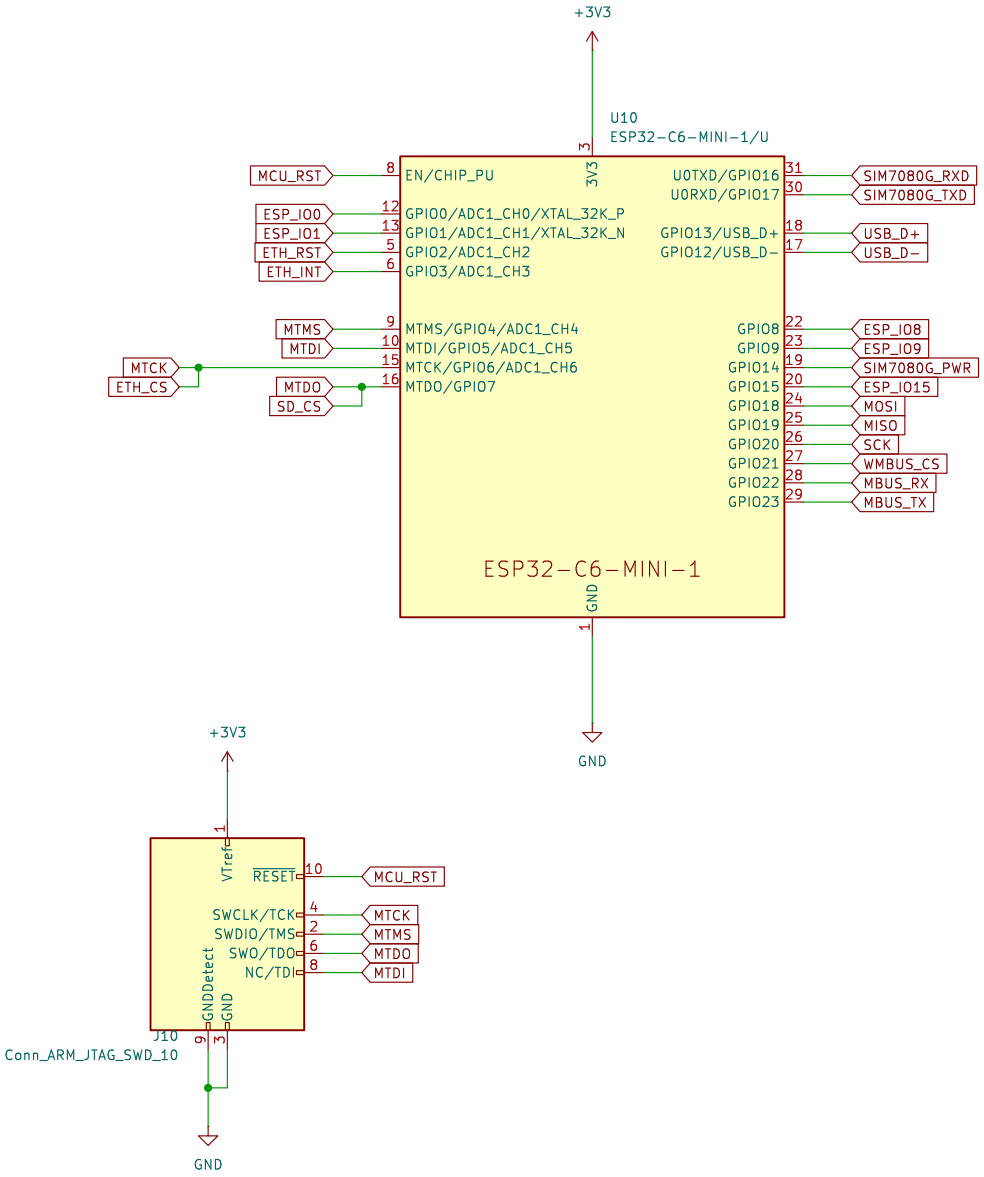
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines

Sheet: /SIM7080G/
File: peripherals.kicad_sch

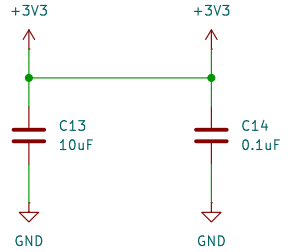
Title: IoT Gateway

Size: A3	Date: 2024-10-15	**Rev: v0.1.0**
KiCad E.D.A. 9.0.2		Id: 3/6

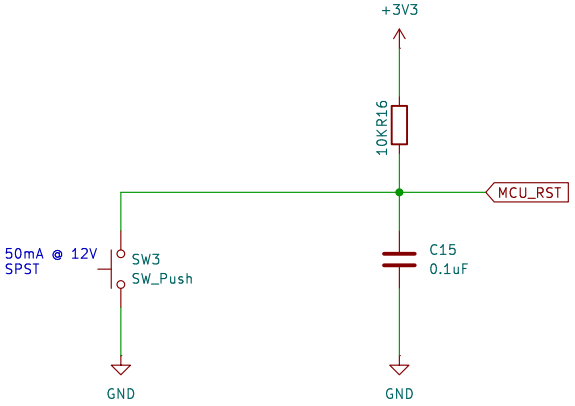
MCU-ESP32-C6-MINI



DECOUPLING CAPS



RESET



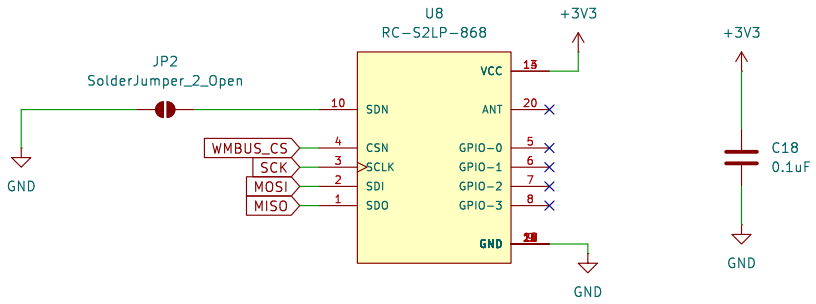
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines

Sheet: /MCU/
File: mcu.kicad_sch

Title: IoT Gateway

Size: A4	Date: 2024-10-15	**Rev: v0.1.0**
KiCad E.D.A. 9.0.2		Id: 4/6

RC-S2LP-868 WMBUS



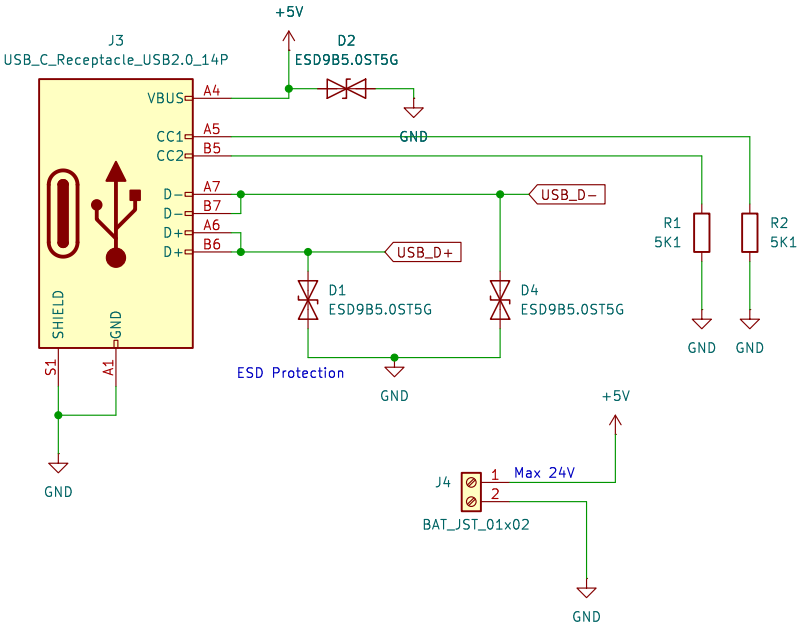
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines

Sheet: /WMBUS/
File: wmbus.kicad_sch

Title: IoT Gateway

Size: A4	Date: 2024-10-15	**Rev: v0.1.0**
KiCad E.D.A. 9.0.2		Id: 6/6

USBC & BAT



Capacitors

33pF
- +/- 10%
- 50V
- GMC10CG330K50NT

0.1uF
- +/- 5%
- 50V
- 0603B104J500XD

10uF
-CL21A106KOQNNNE
-C1713
-X5R ±10%

1uF
- +/- 10%
- 10V
- 0603B105K100XD

100uF
- +/- 10%
- 6.3V
- GMC31X5R107K6R3NT

Resistors

0
- RC0603JR-070RL

100
- +/- 1%
- 0.1W
- ERJ-3EKF1000V

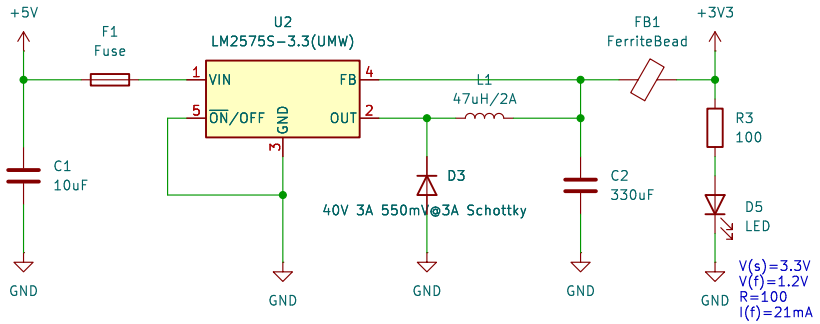
1k
- +/- 1%
- 0.1W
- RC0603FR-071KL

4.7k
- +/- 0.1%
- 0.1W
- RC0603FR-074K7L

10k
- +/- 1%
- 0.1W
- RC0603FR-0710KL

47k
- +/- 0.1%
- 0.1W
- ERA-3AEB473V

BUCK-CONVERTOR



Sheet: /power/
File: power.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.2		Id: 7/6