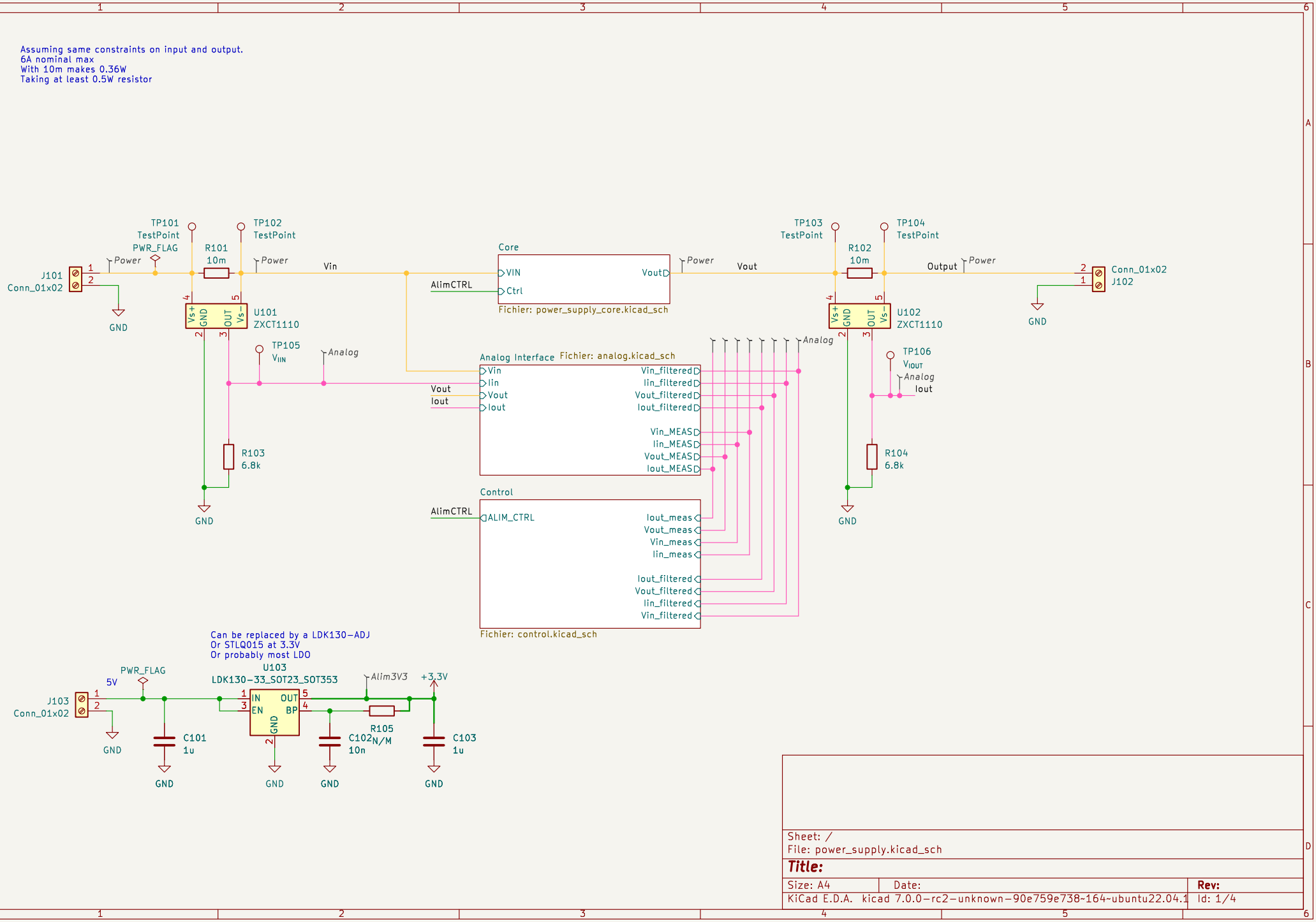
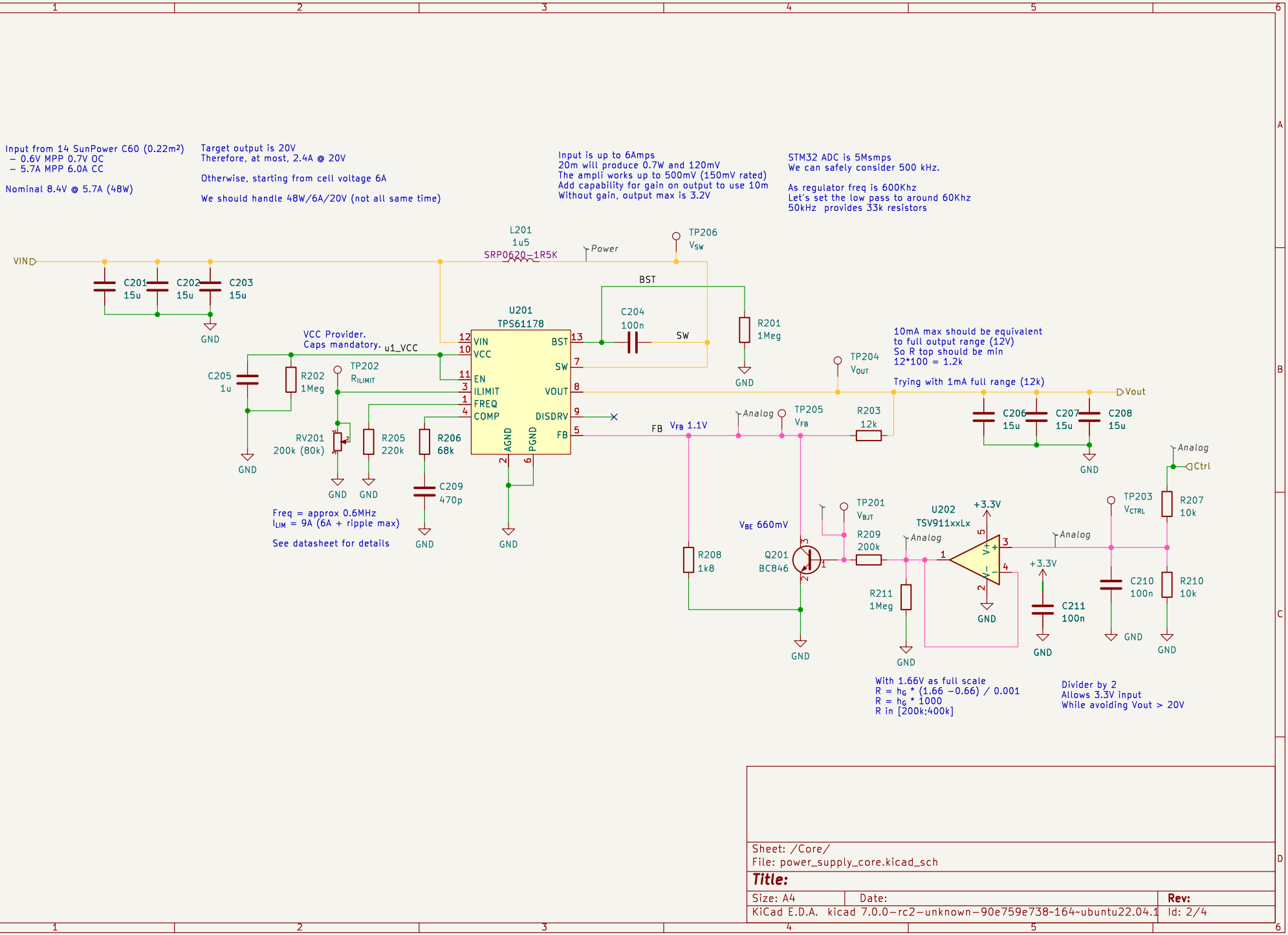
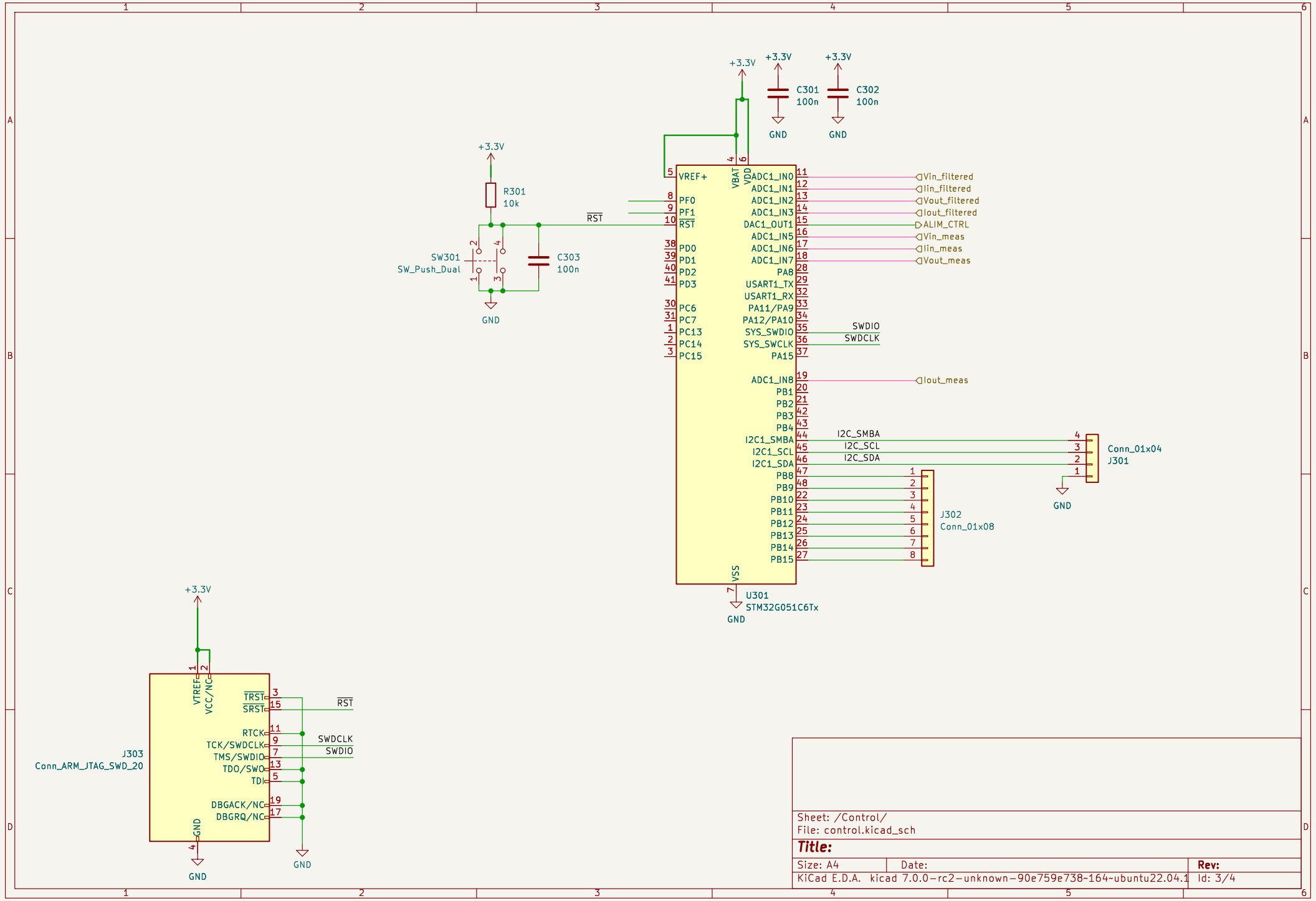
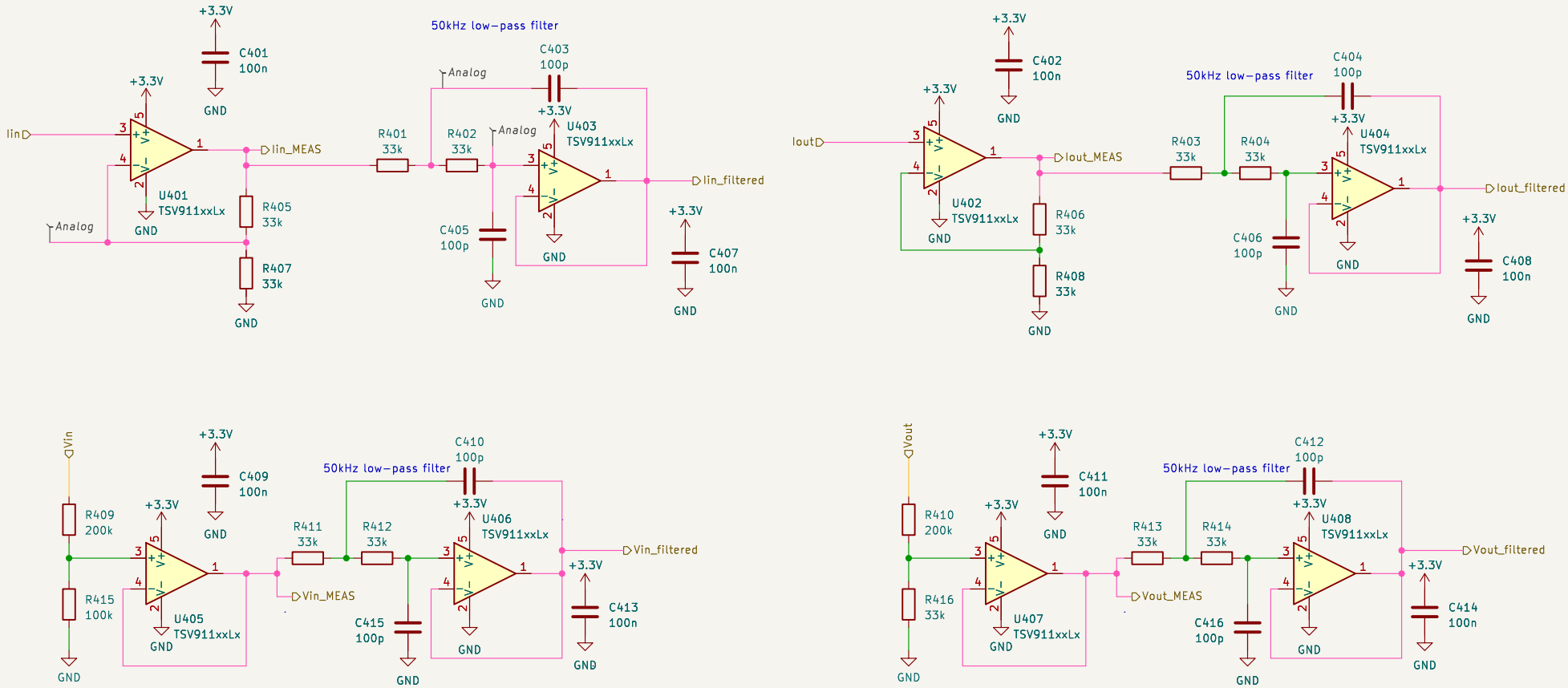

Assuming same constraints on input and output.
6A nominal max
With 10m makes 0.36W
Taking at least 0.5W resistor
J101
Conn_01x02
TP101
TestPoint
PWR_FLAG
R101
10m
TP102
TestPoint
Power
Vin
U101
ZXCT1110
TP105
VIIN
Analog
R103
6.8k
GND
Core
VIN
Ctrl
Vout
AlimCTRL
Fichier: power_supply_core.kicad_sch
TP103
TestPoint
R102
10m
TP104
TestPoint
Output
U102
ZXCT1110
TP106
VIOUT
Iout
R104
6.8k
J102
Conn_01x02
Analog Interface
Fichier: analog.kicad_sch
Vin
Iin
Vout
Iout
Vin_filtered
Iin_filtered
Vout_filtered
Iout_filtered
Vin_MEAS
Iin_MEAS
Vout_MEAS
Iout_MEAS
Control
ALIM_CTRL
Iout_meas
Vout_meas
Vin_meas
Iin_meas
Iout_filtered
Vout_filtered
Iin_filtered
Vin_filtered
Fichier: control.kicad_sch
Can be replaced by a LDK130-ADJ
Or STLQ015 at 3.3V
Or probably most LDO
J103
Conn_01x02
PWR_FLAG
5V
U103
LDK130-33_SOT23_SOT353
IN
EN
OUT
BP
GND
Alim3V3
+3.3V
R105
N/M
C101
1u
C102
10n
C103
1u
Sheet: /
File: power_supply.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.0-rc2-unknown-90e759e738~164~ubuntu22.04.1
Id: 1/4



Sheet: /Core/		
File: power_supply_core.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.0-rc2-unknown-90e759e738~164~ubuntu22.04.1		Id: 2/4


+3.3V
C301
100n
C302
100n
GND
R301
10k
SW301
SW_Push_Dual
C303
100n
RST
U301
STM32G051C6Tx
VREF+
VBAT
VDD
VSS
PF0
PF1
PD0
PD1
PD2
PD3
PC6
PC7
PC13
PC14
PC15
PA8
USART1_TX
USART1_RX
PA11/PA9
PA12/PA10
SYS_SWDIO
SYS_SWCLK
PA15
PB1
PB2
PB3
PB4
I2C1_SMBA
I2C1_SCL
I2C1_SDA
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
ADC1_IN0
ADC1_IN1
ADC1_IN2
ADC1_IN3
DAC1_OUT1
ADC1_IN5
ADC1_IN6
ADC1_IN7
ADC1_IN8
Vin_filtered
Iin_filtered
Vout_filtered
Iout_filtered
ALIM_CTRL
Vin_meas
Iin_meas
Vout_meas
Iout_meas
SWDIO
SWDCLK
I2C_SMBA
I2C_SCL
I2C_SDA
Conn_01x04
J301
J302
Conn_01x08
J303
Conn_ARM_JTAG_SWD_20
VTREF
VCC/NC
TRST
SRST
RTCK
TCK/SWDCLK
TMS/SWDIO
TDO/SWO
TDI
DBGACK/NC
DBGRQ/NC
GND
Sheet: /Control/
File: control.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.0-rc2-unknown-90e759e738~164~ubuntu22.04.1
Id: 3/4



Sheet: /Analog Interface/
File: analog.kicad_sch

Title:

Size: A4 | Date: | **Rev:**

KiCad E.D.A. kicad 7.0.0-rc2-unknown-90e759e738~164~ubuntu22.04.1 | Id: 4/4