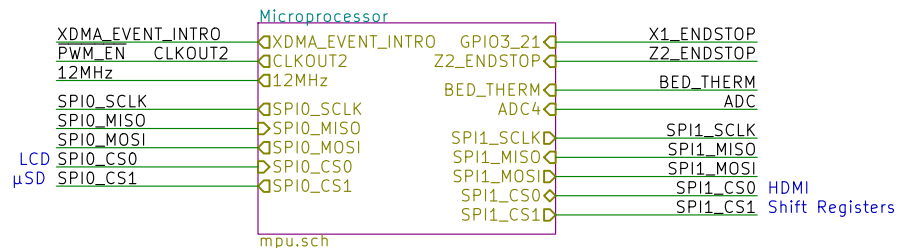
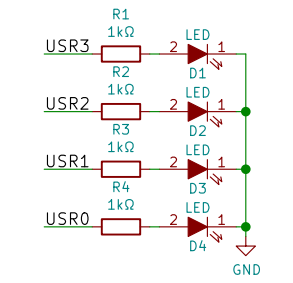
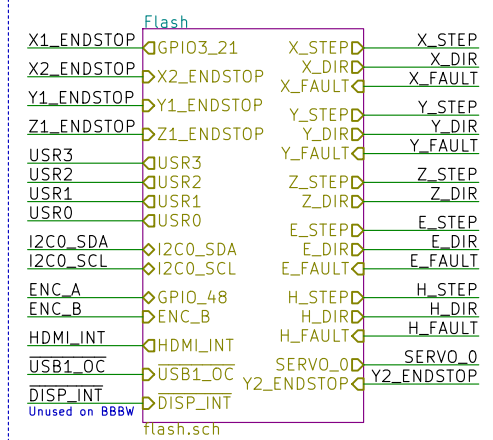


Power

power.sch



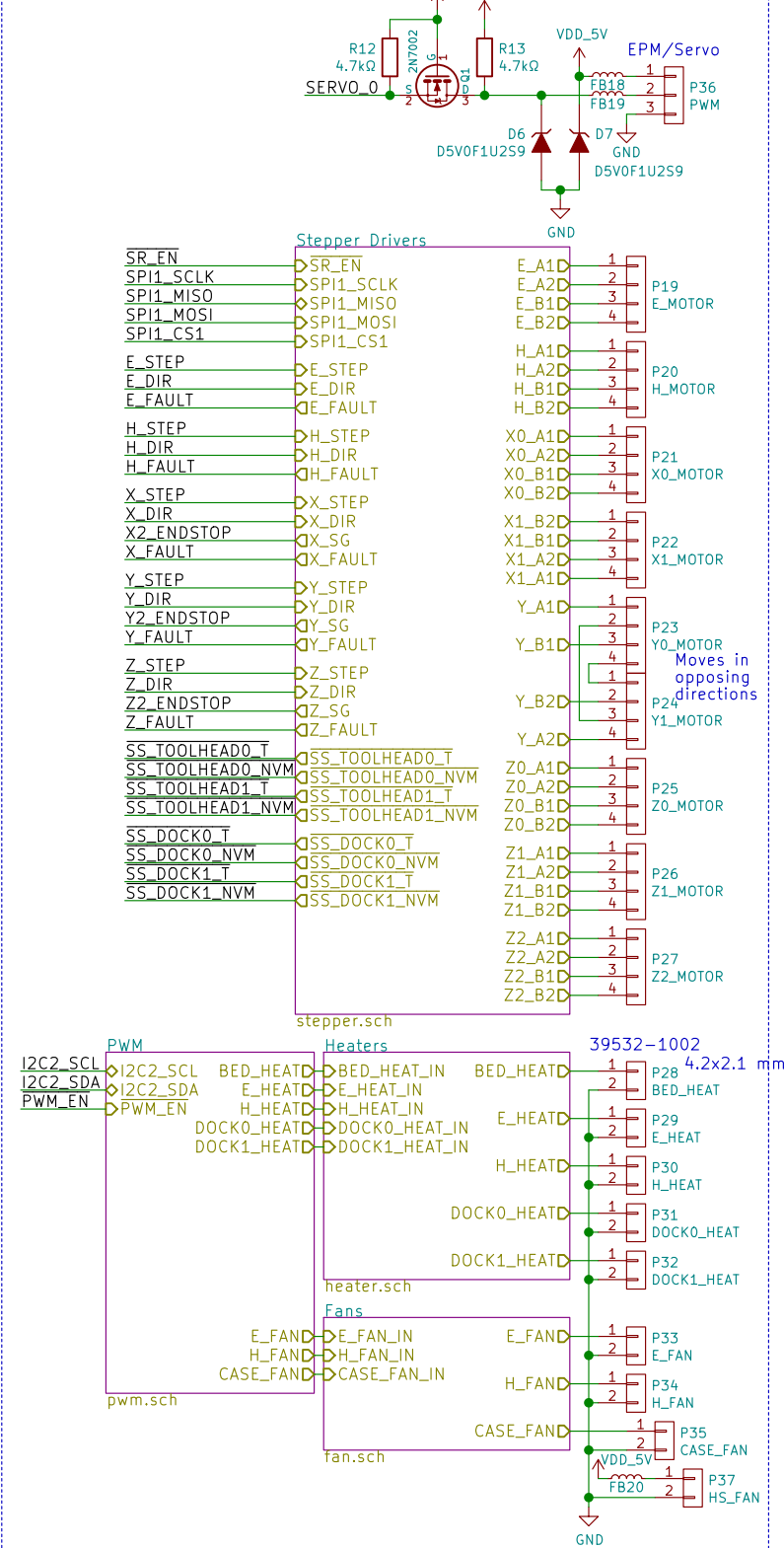
Thermistors

ash
CBI07 24 Y CT

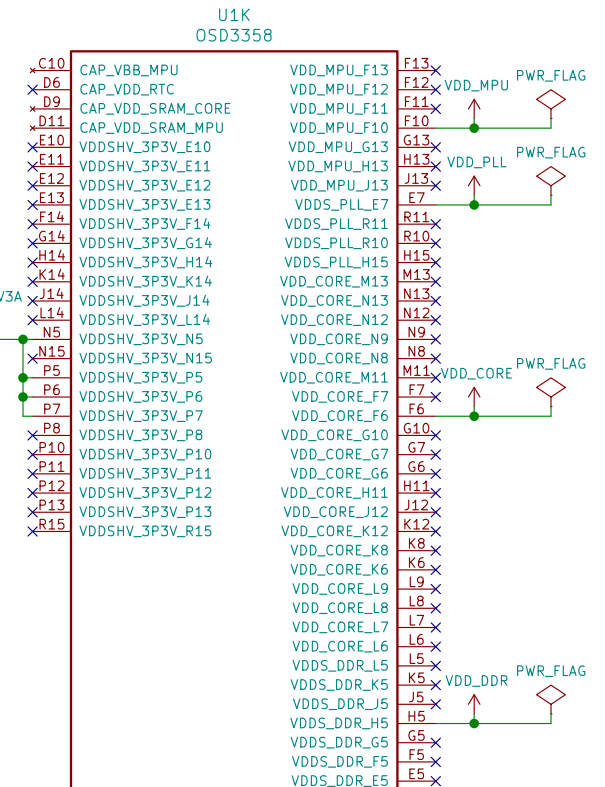
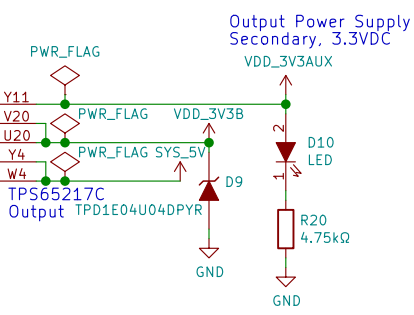
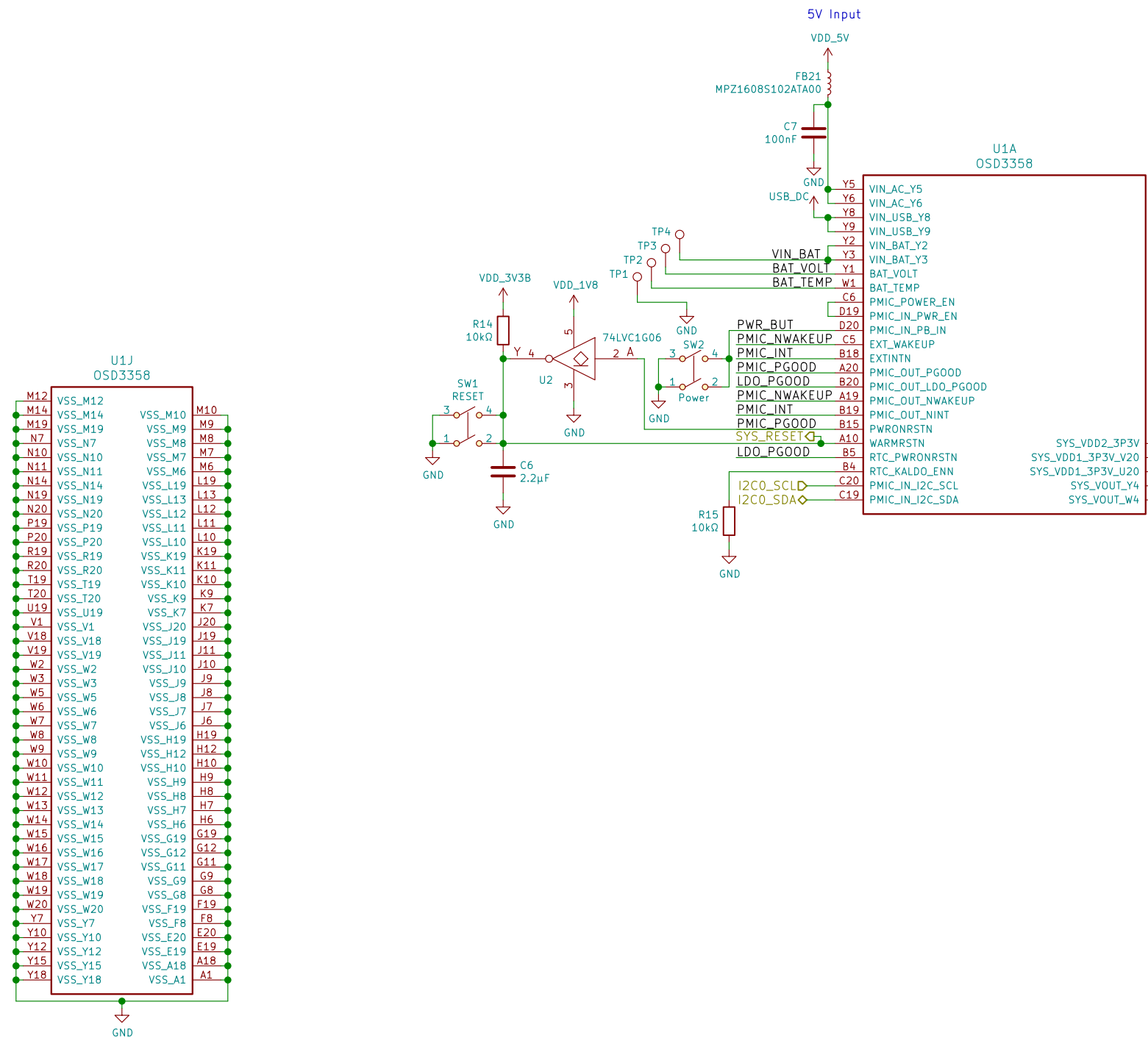
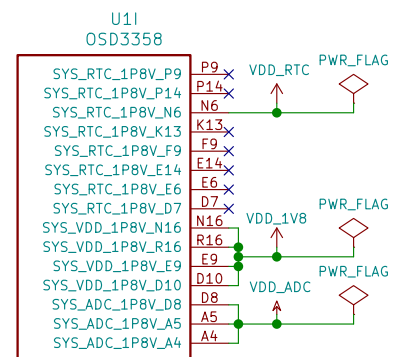
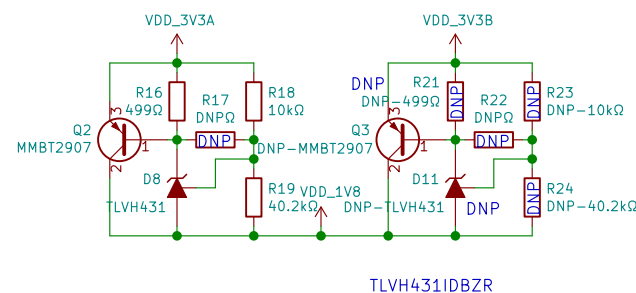
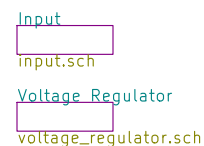
PWR_FLAG
USB_DC

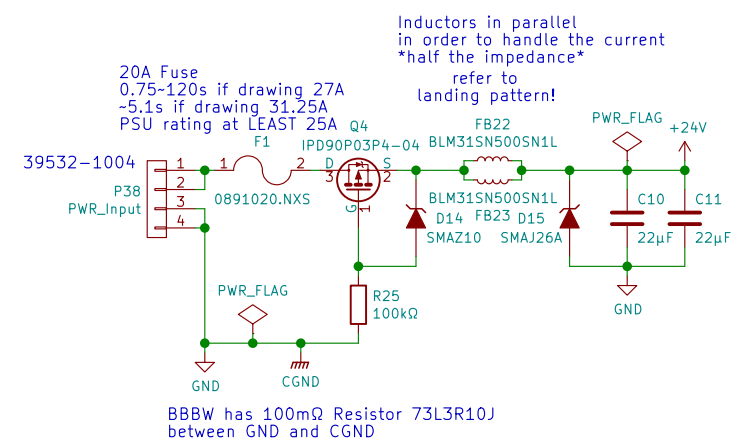


VDD_3V3B



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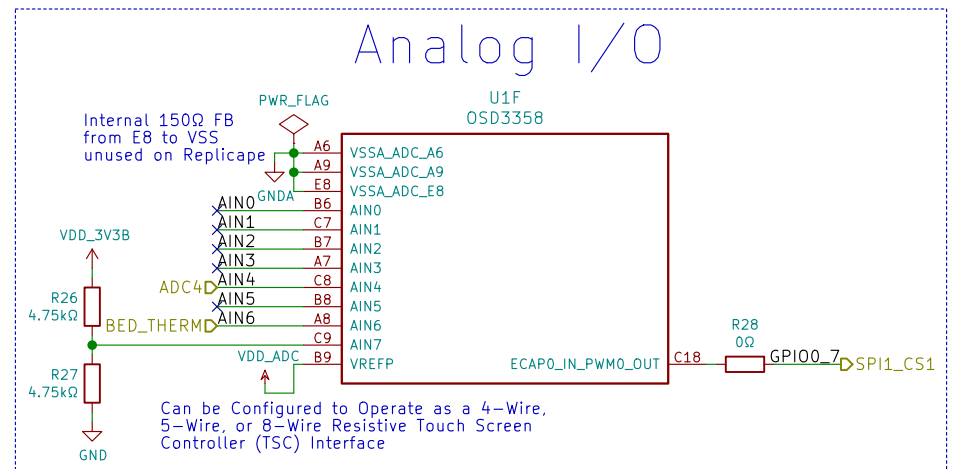
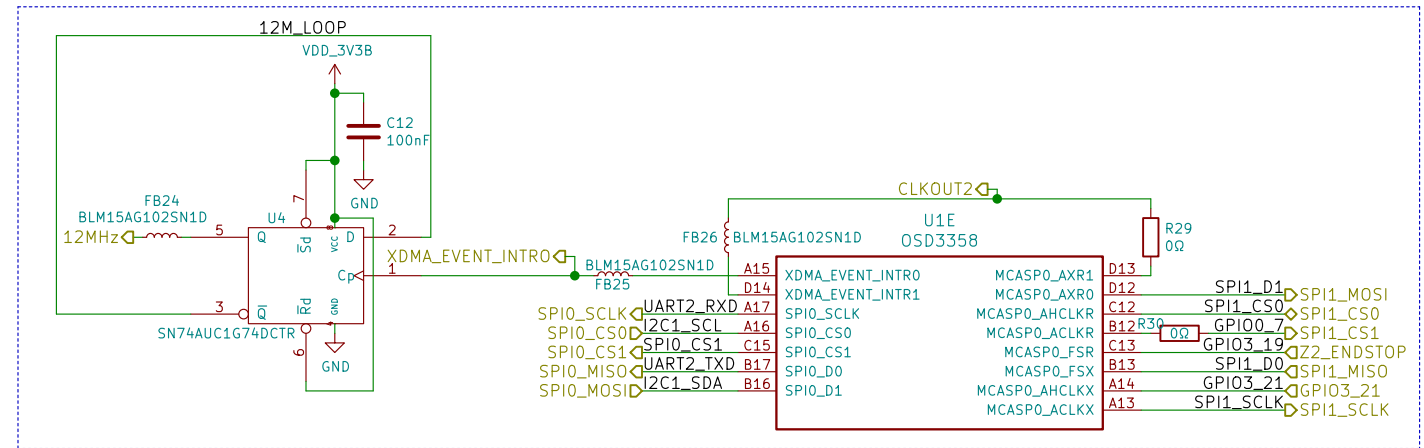
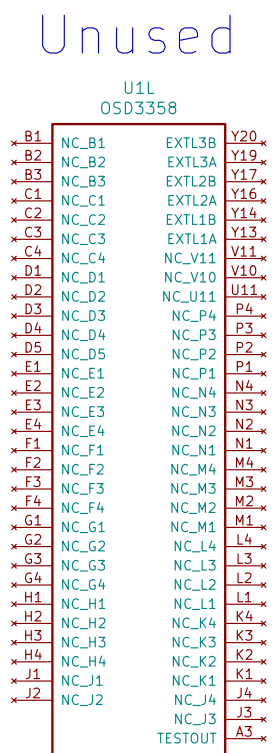


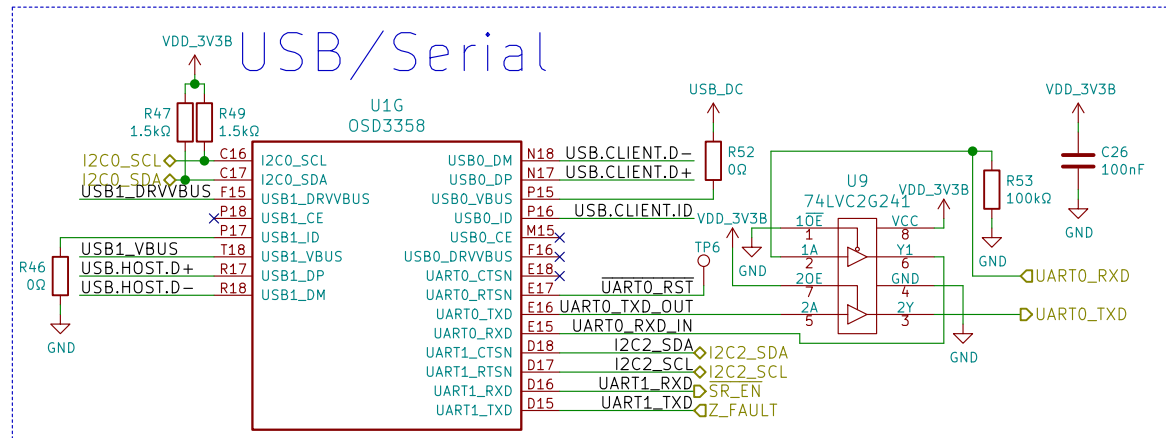
Sheet: /Power/Input/
File: input.sch

Title:

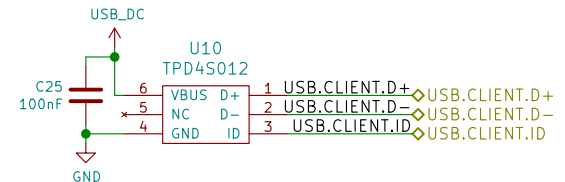
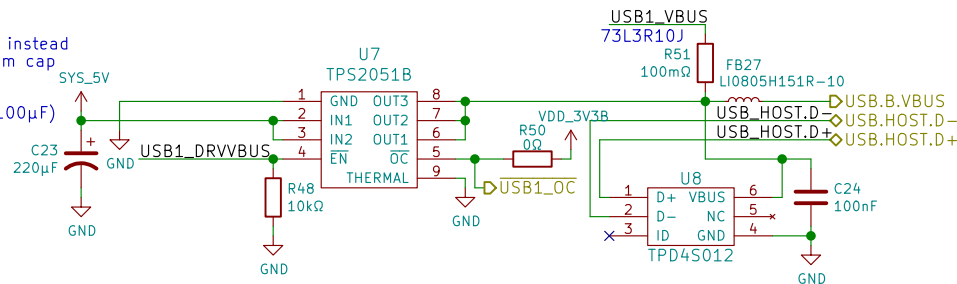
Size: A3

Size: A3	Date:	Rev:
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Used a tantalum cap instead of the large aluminium cap
TAJD227M010RNJ
instead of
AVE107M06D16T-F (100µF)



Sheet: /USB/
File: usb.sch

Title:

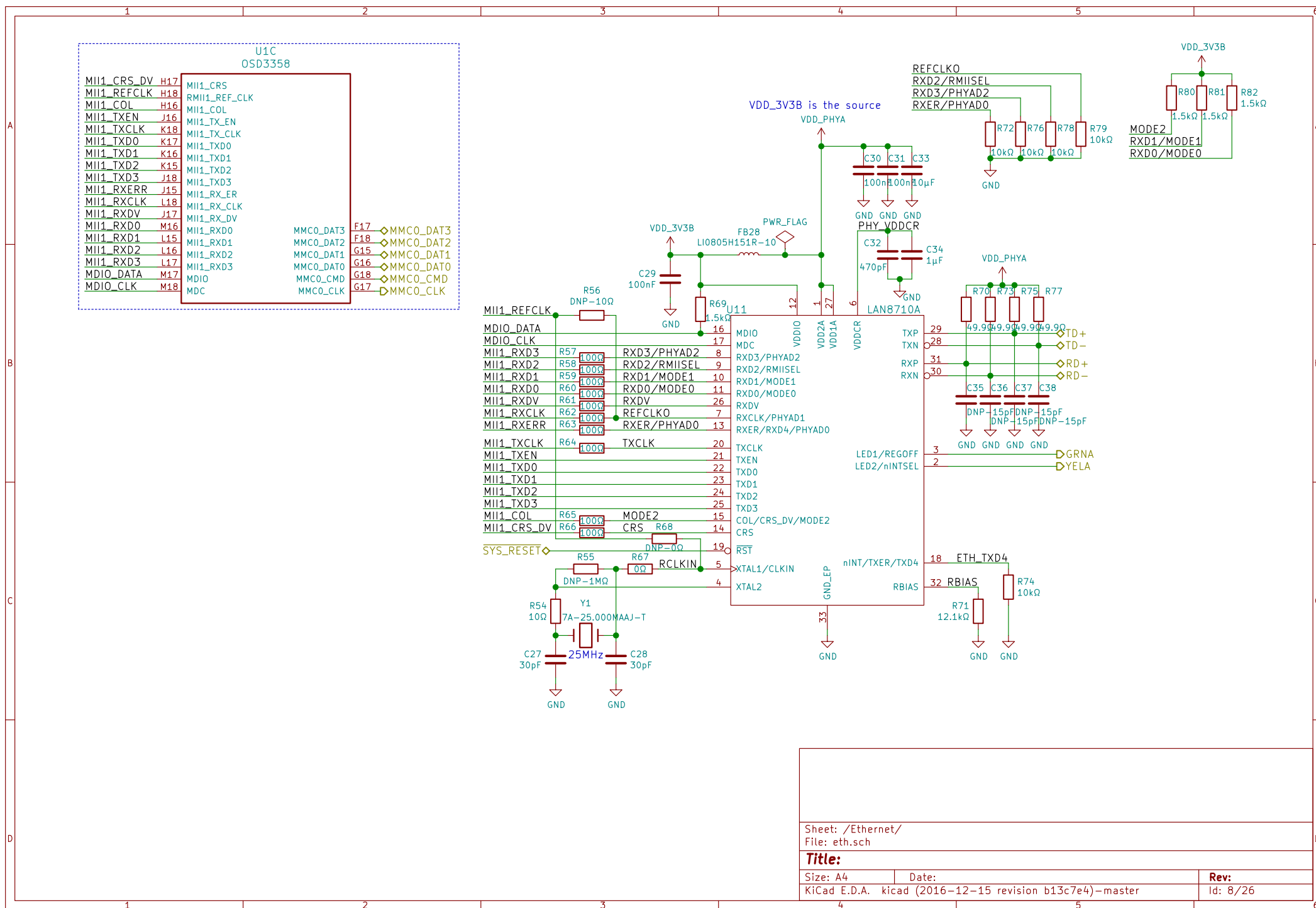
Size: A4

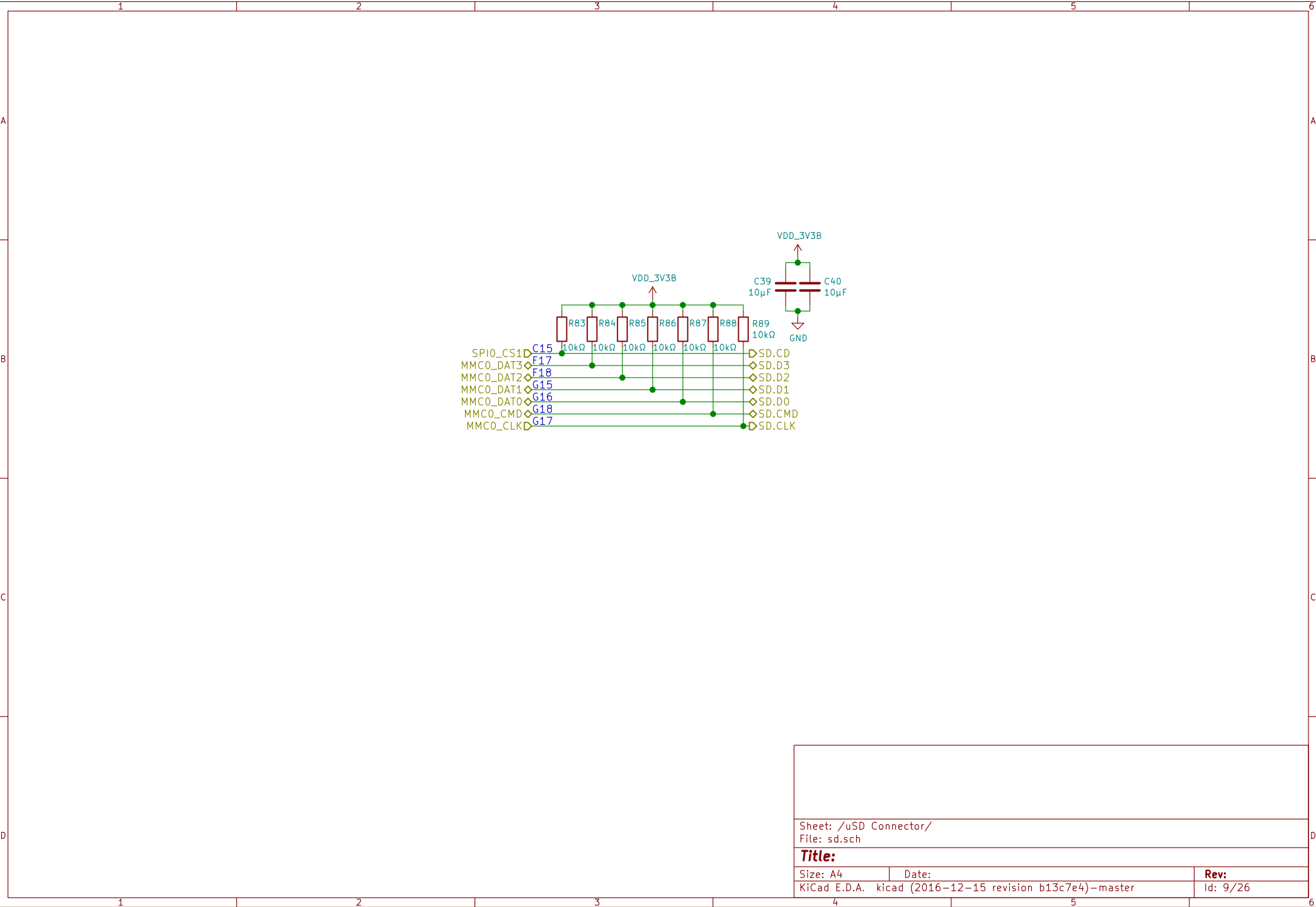
Date:

KiCad E.D.A. kicad (2016-12-15 revision b13c7e4)-master

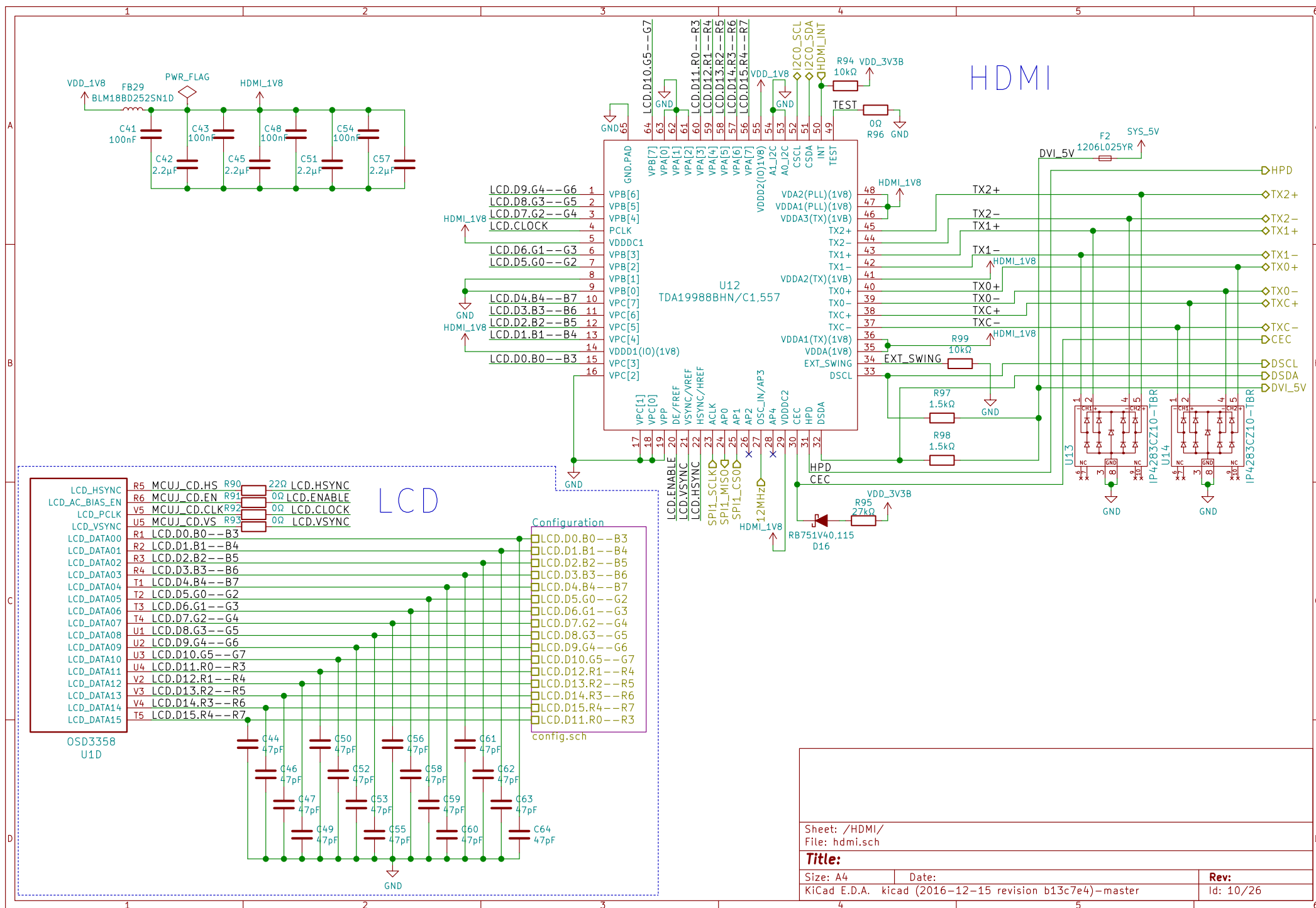
Rev:

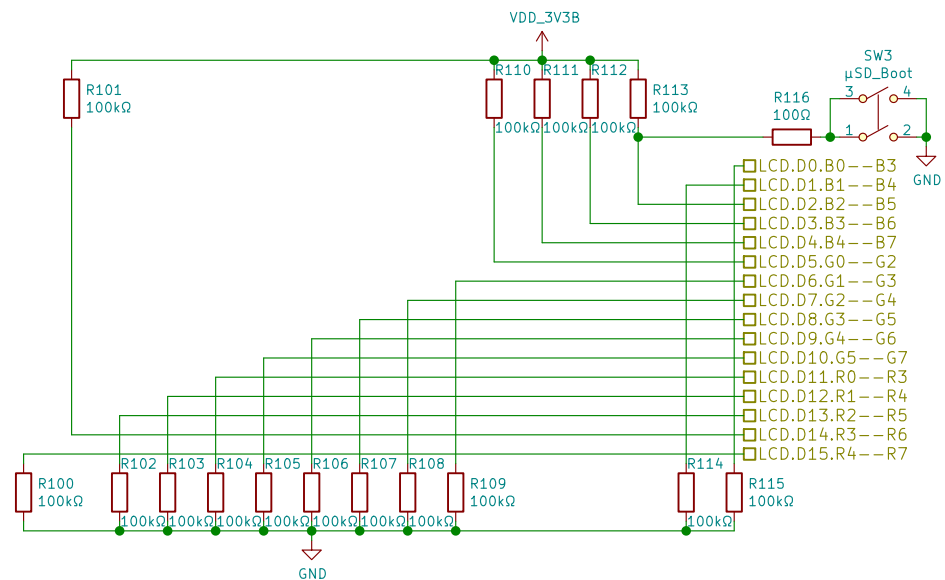
Id: 7/26





Sheet: /uSD Connector/ File: sd.sch		
Title:		
Size: A4	Date:	Rev:
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Sheet: /HDMI/Configuration/
File: config.sch

Title:

Size: A4 Date: KICad E.D.A. kicad (2016-12-15 revision b13c7e4)-master

Rev: Id: 11/26

JTAG

U1B
OSD3358

6K30032768K0702070401
TXC CORPORATION

JTAG_TDO ◀ A11
JTAG_TCK ◀ A12
JTAG_TDI ◀ B11
JTAG_TMS ◀ C11
JTAG_TRST ◀ B10

TDO
TCK
TDI
TMS
TRSTN

OSC1_IN
OSC1_GND
OSC1_OUT
OSC0_IN
OSC0_GND
OSC0_OUT
VPP

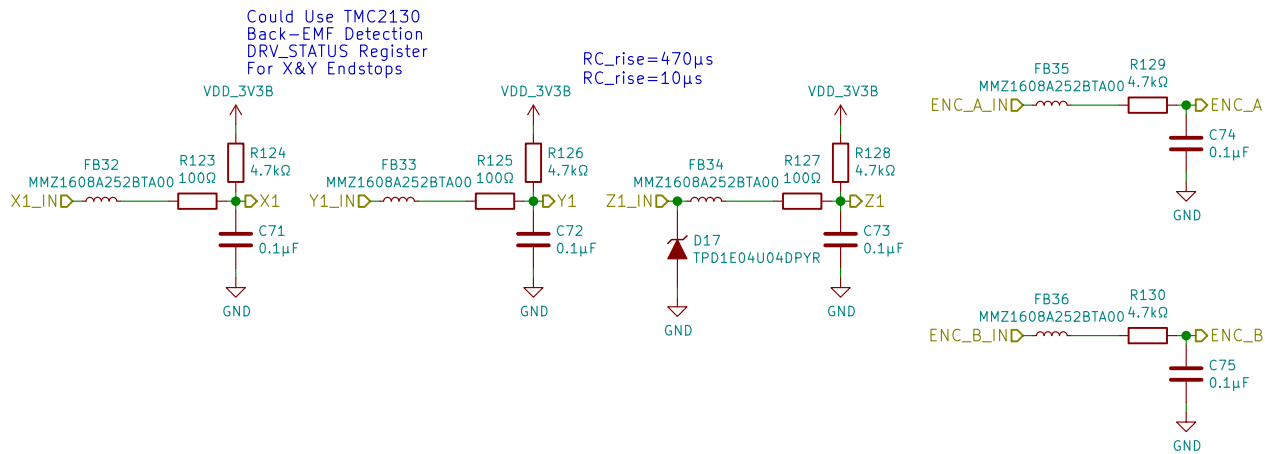
EMU1 B14 ◀ JTAG_EMU1
EMU0 C14 ◀ JTAG_EMU0
A2 X

VDD_MPU_MON

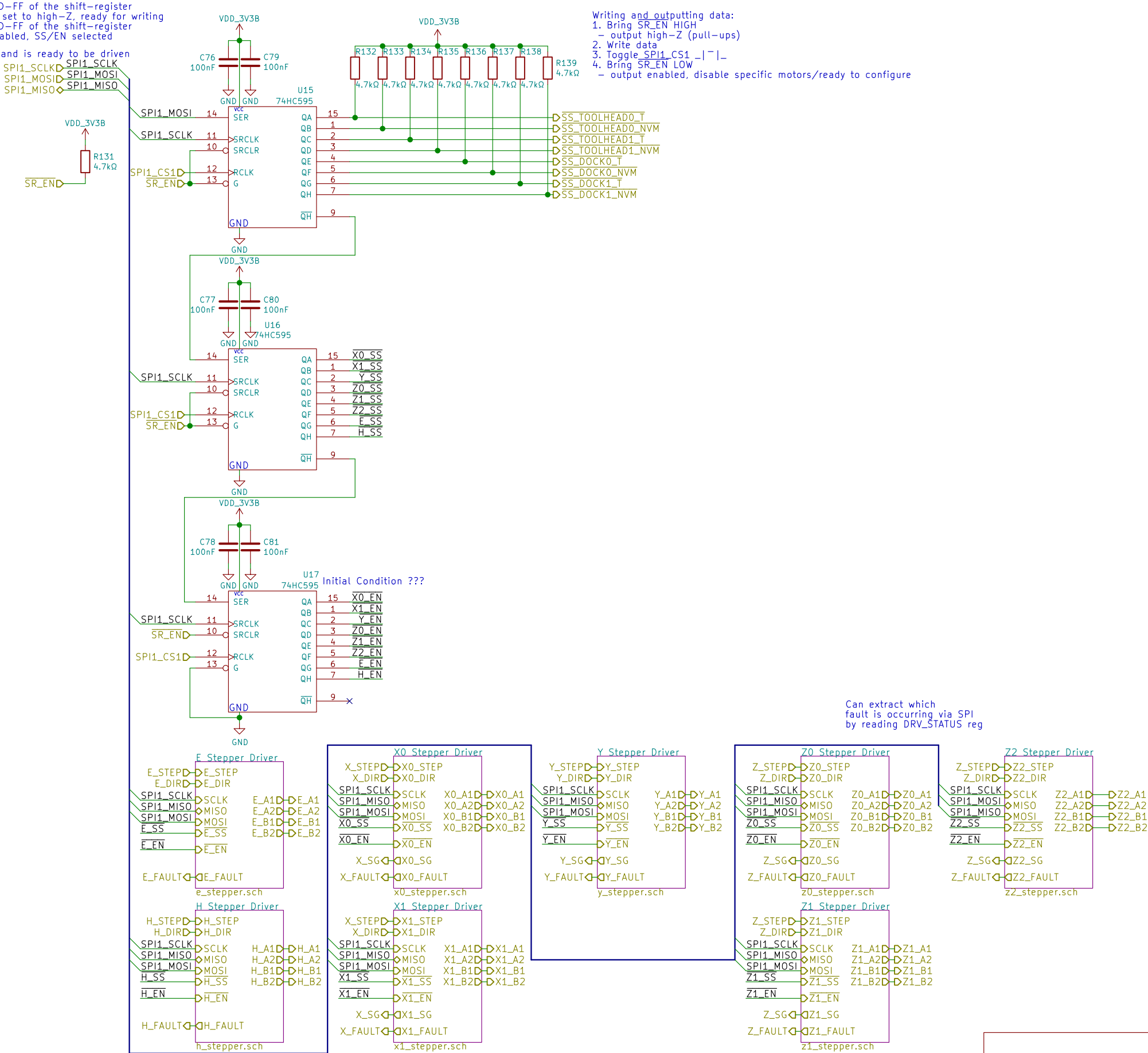
18pF C65
32.768kHz Y2
R117 DNP-1MΩ
18pF C66
18pF C67
24MHz Y3
R118 1MΩ
7A-24.000MAAJ-T
18pF C68

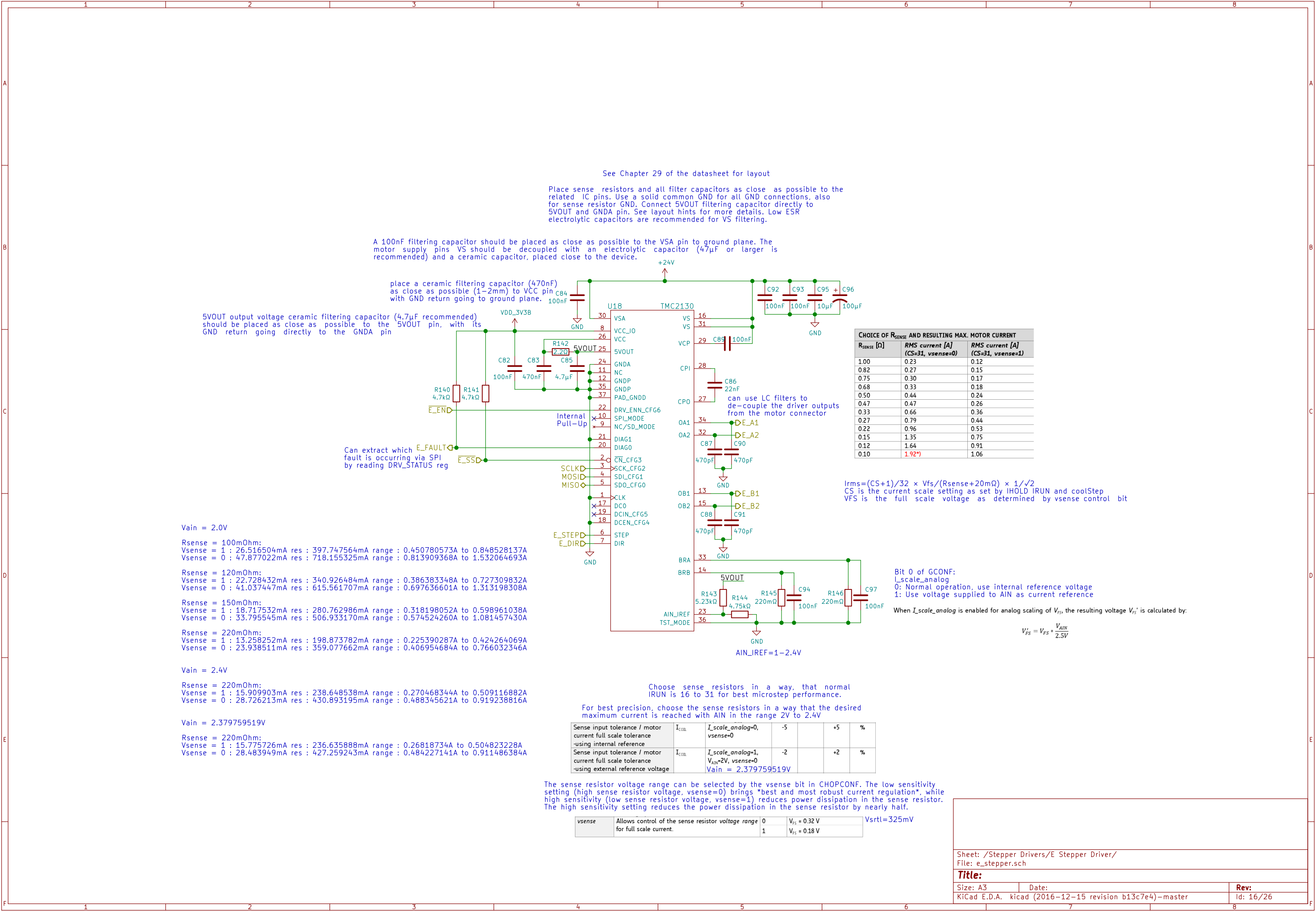
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Size: A4	Date:	Rev:
KiCad E.D.A. kicad (2016-12-15 revision b13c7e4)-master		Id: 12/26

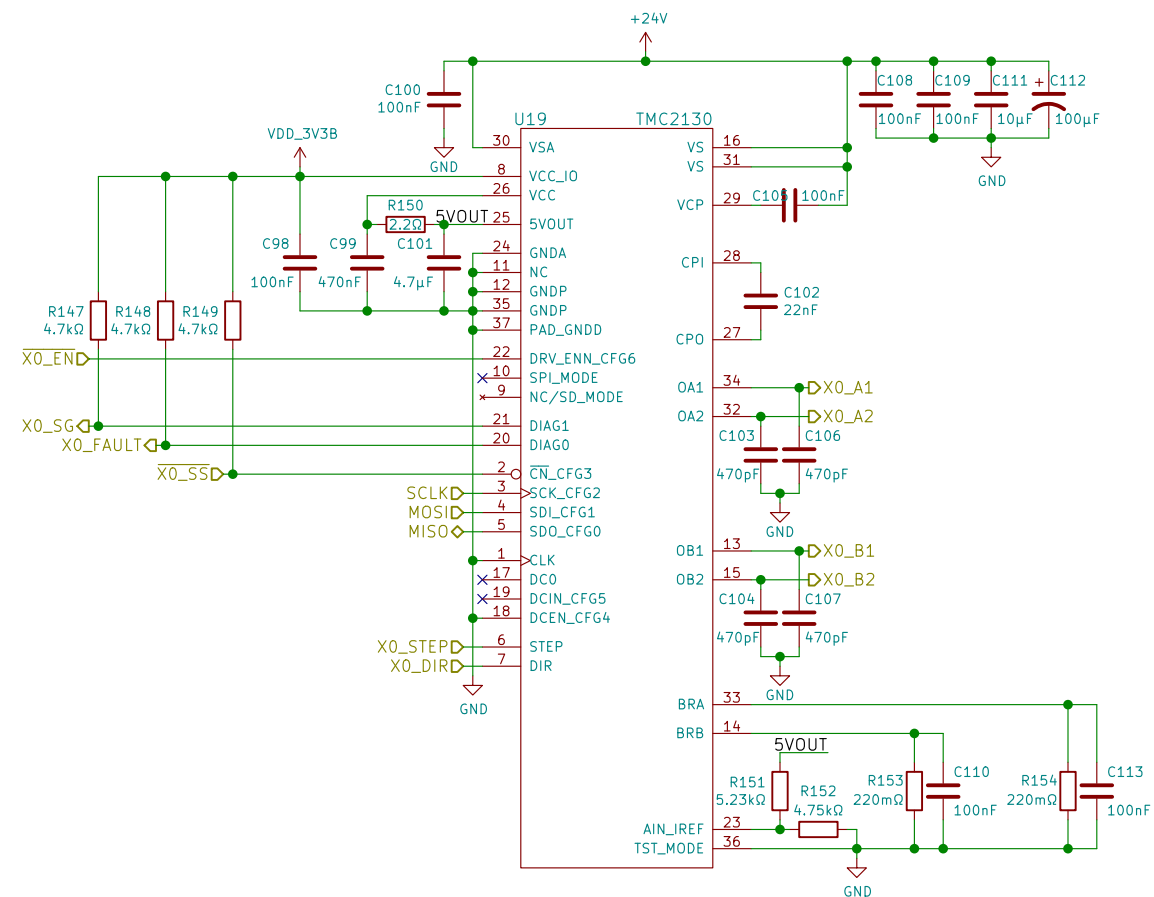




When SR_EN transitions from LOW to HIGH each D-FF of the shift-register come out of their reset states and the output is set to high-Z, ready for writing
When SR_EN transitions from HIGH to LOW each D-FF of the shift-register goes into their reset states and the output is enabled, SS/EN selected
SPI1_CS1 captures the data in the shift register and is ready to be driven by the second stage of D-FFs







Sheet: /Stepper Drivers/X0 Stepper Driver/
File: x0_stepper.sch

Title:

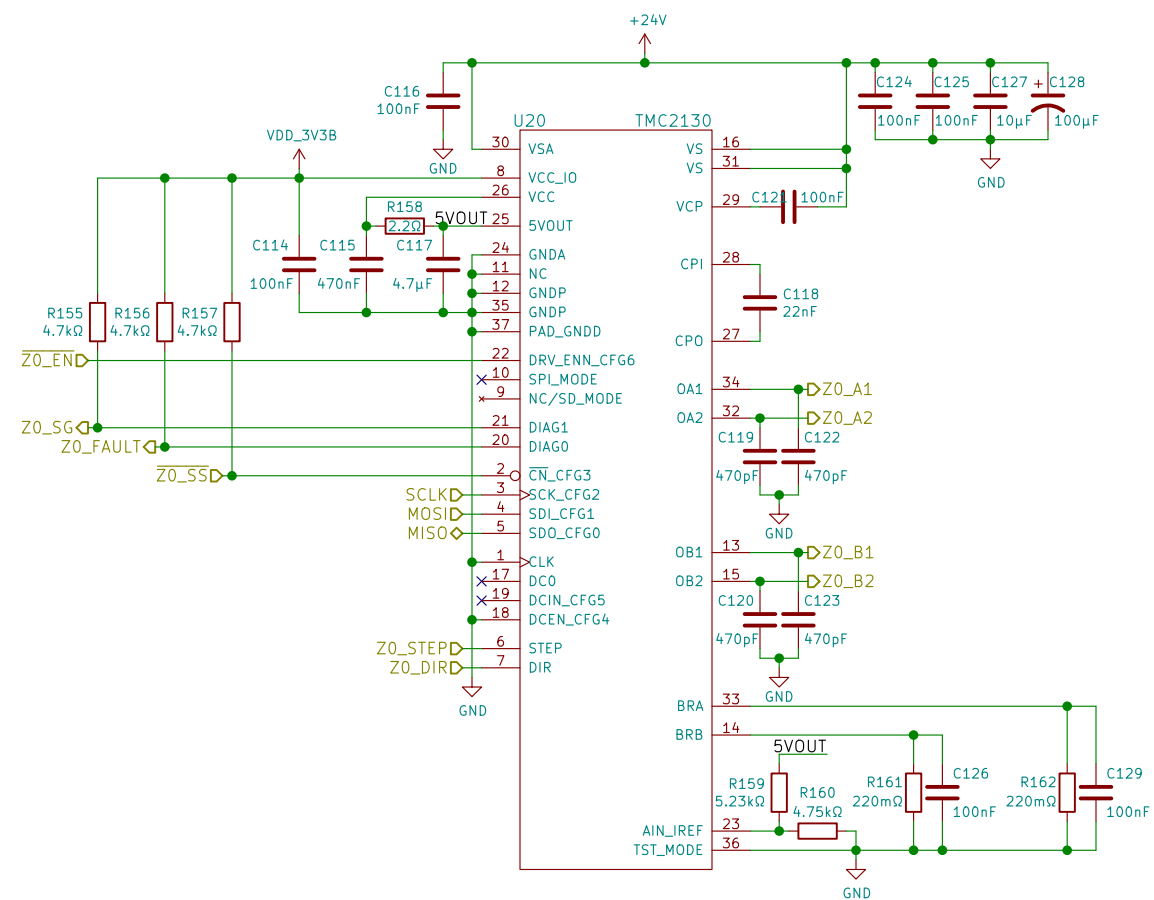
Size: A3

Date:

Size: A5	Date:
KiCad E.D.A. kicad (2016-12-15 revision b13c7e4)-master	

Rev:

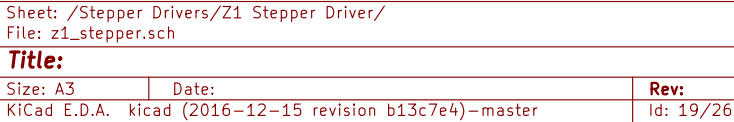
Id: 17/26

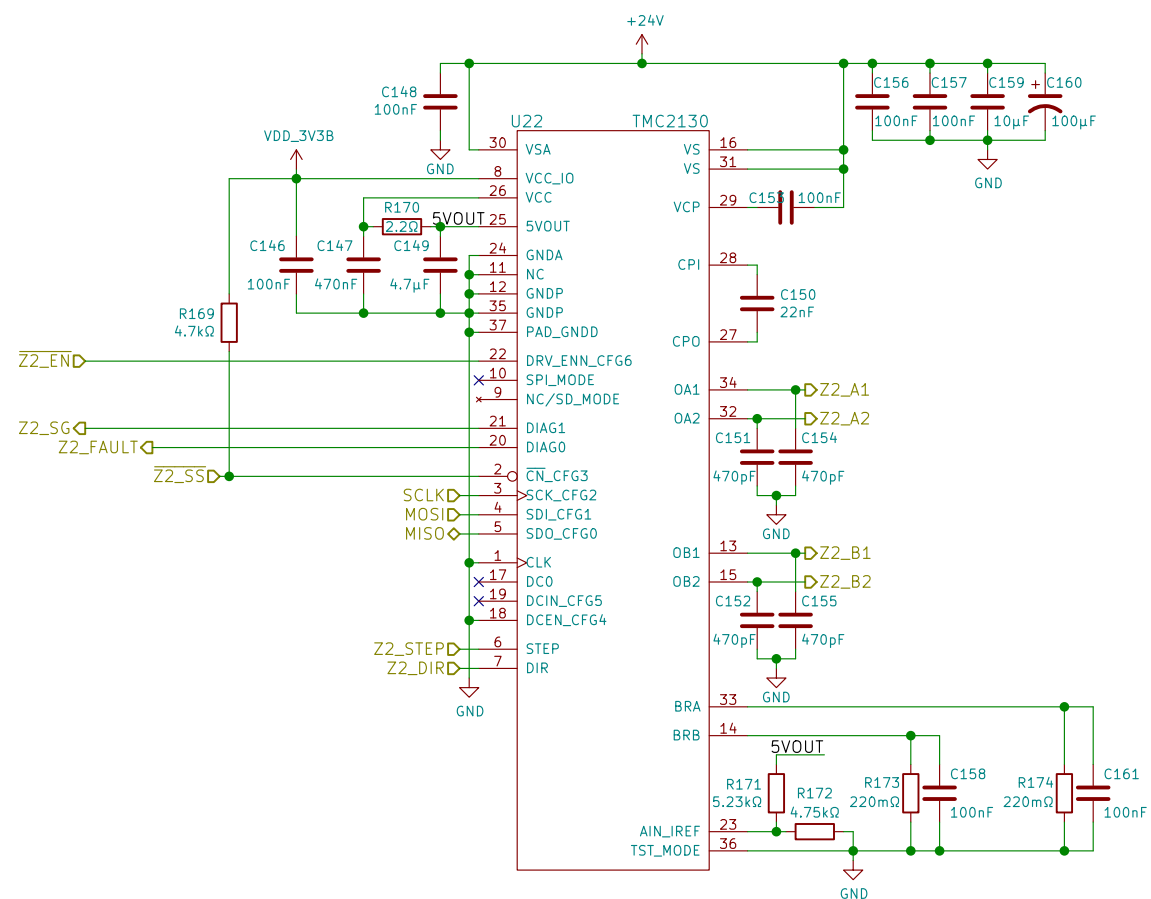


Sheet: /Stepper Drivers/Z0 Stepper Driver/
File: z0_stepper.sch

Title:

Size: A3	Date:	Rev:
KiCad E.D.A.	kiCad (2016-12-15 revision b13c7e4)-master	Id: 18/26





Sheet: /Stepper Drivers/Z2 Stepper Driver/
File: z2_stepper.sch

Title:

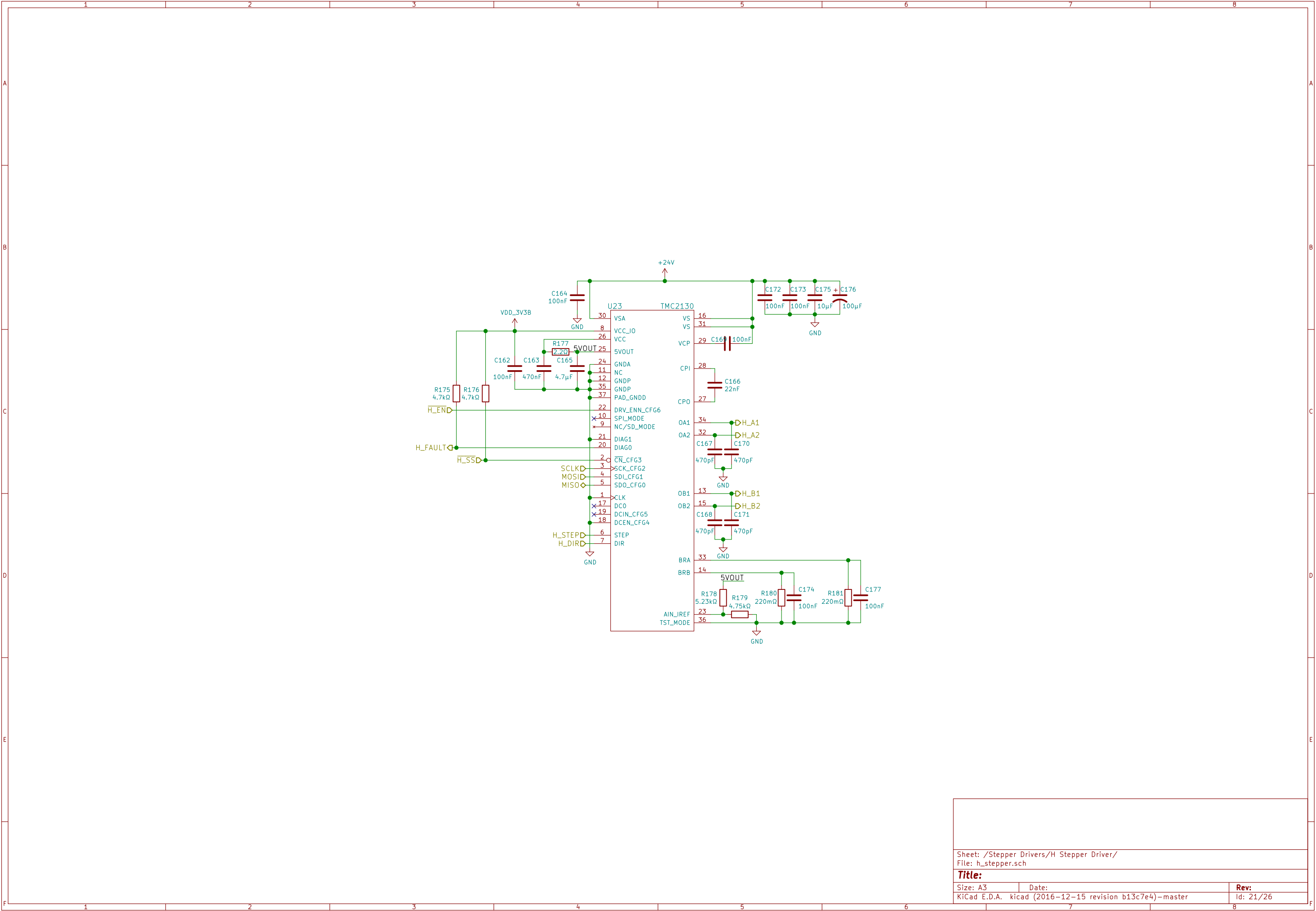
Size: A3

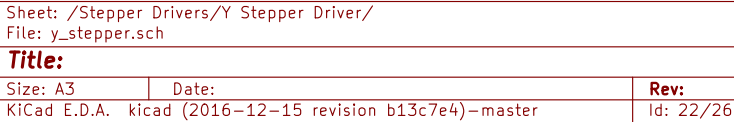
Date:

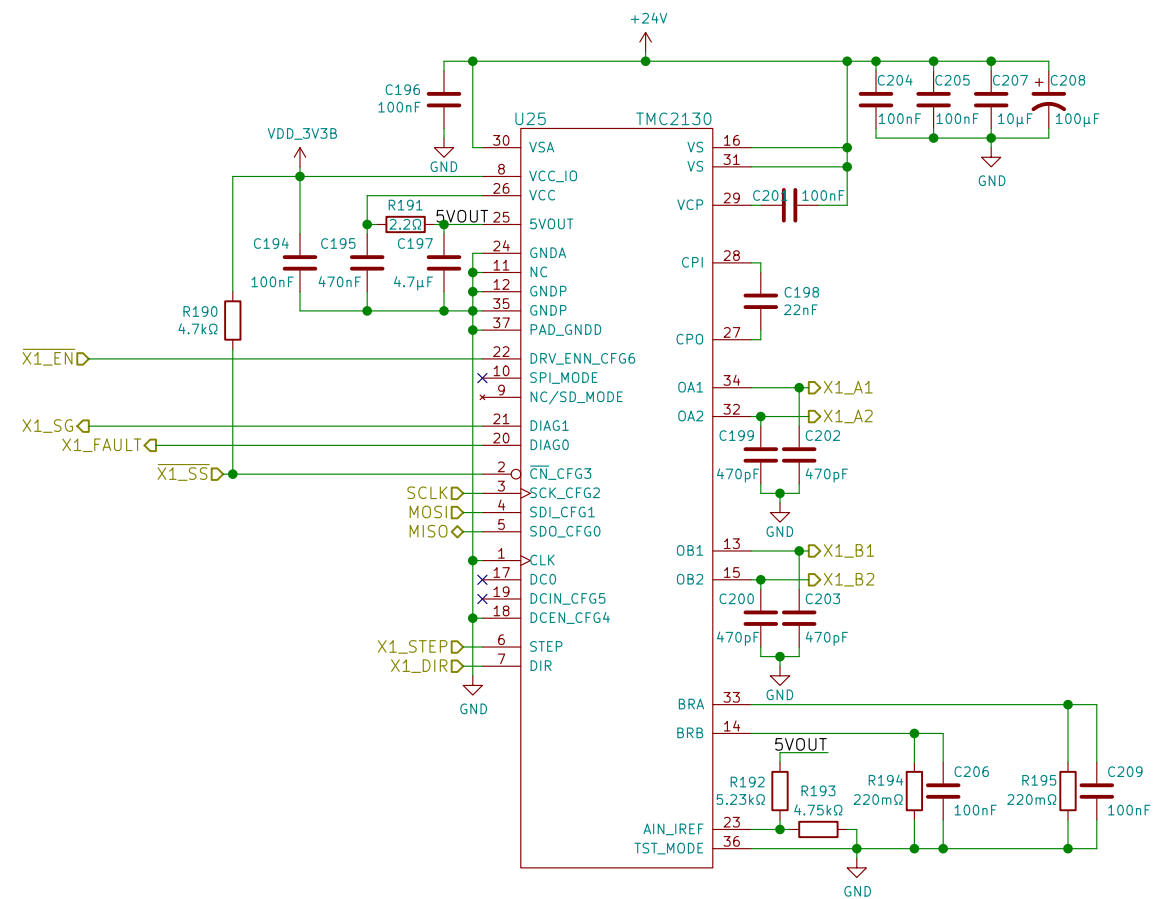
KiCad E.D.A.	kiCad (2016-12-15 revision b13c7e4)-master
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Rev:

Id: 20/26







Sheet: /Stepper Drivers/X1 Stepper Driver/
File: x1_stepper.sch

Title:

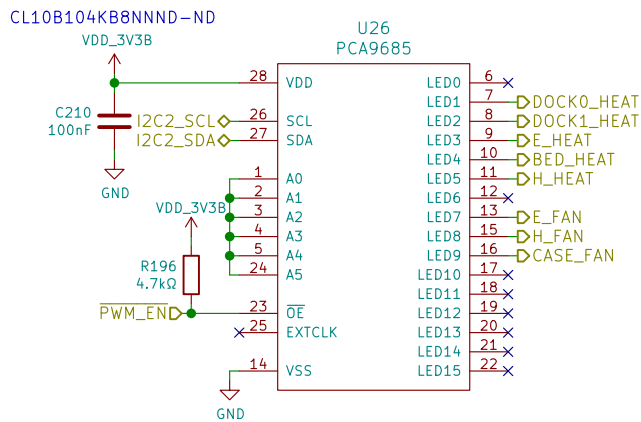
Size: A3

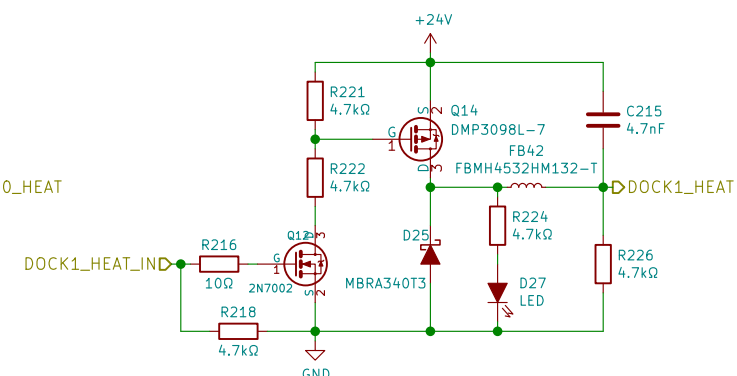
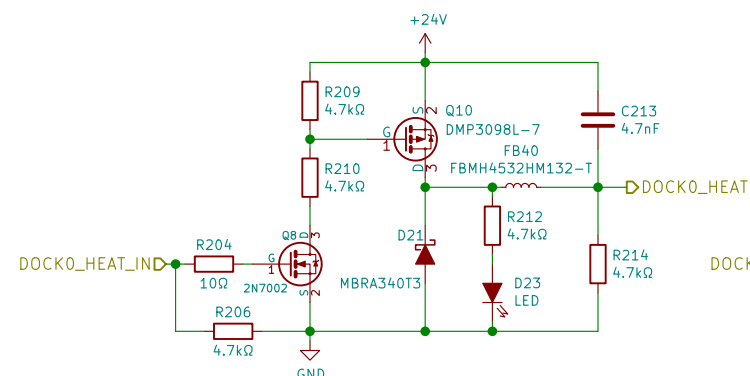
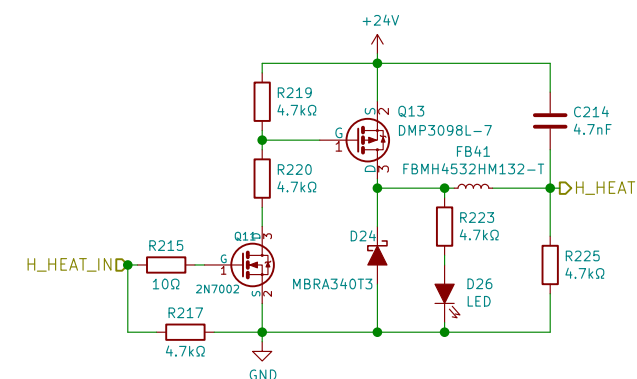
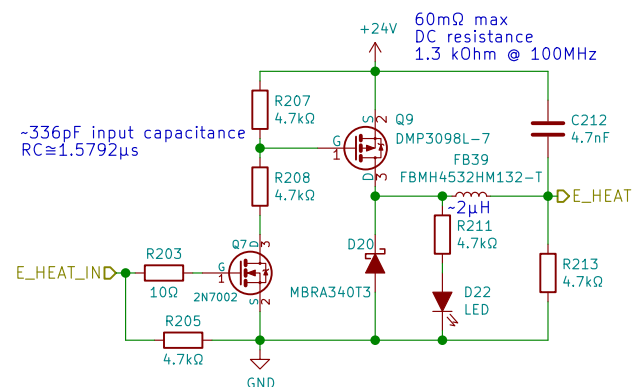
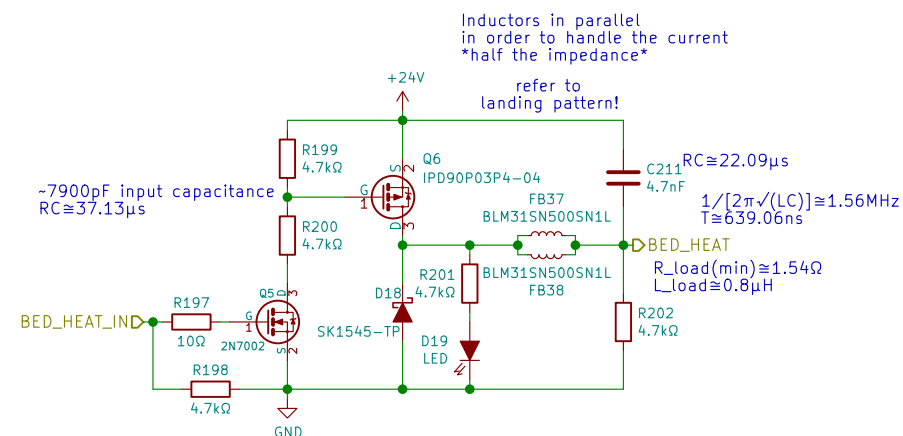
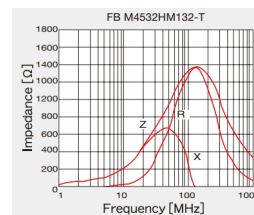
Date:

Size: AS	Date:
KiCad E.D.A. kicad (2016-12-15 revision b13c7e4)-master	

Rev:

Id: 23/26

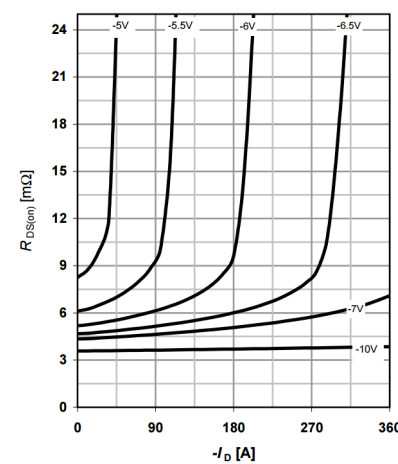




6 Typ. drain-source on-state resistance

$$R_{DS(on)} = (I_D); T_j = 25\text{ }^{\circ}\text{C}$$

parameter: V_{GS}



8 Typ. drain-source on-state resistance

$$R_{DS(on)} = f(T_j); I_D = -90 \text{ A}; V_{GS} = -10 \text{ V}$$

