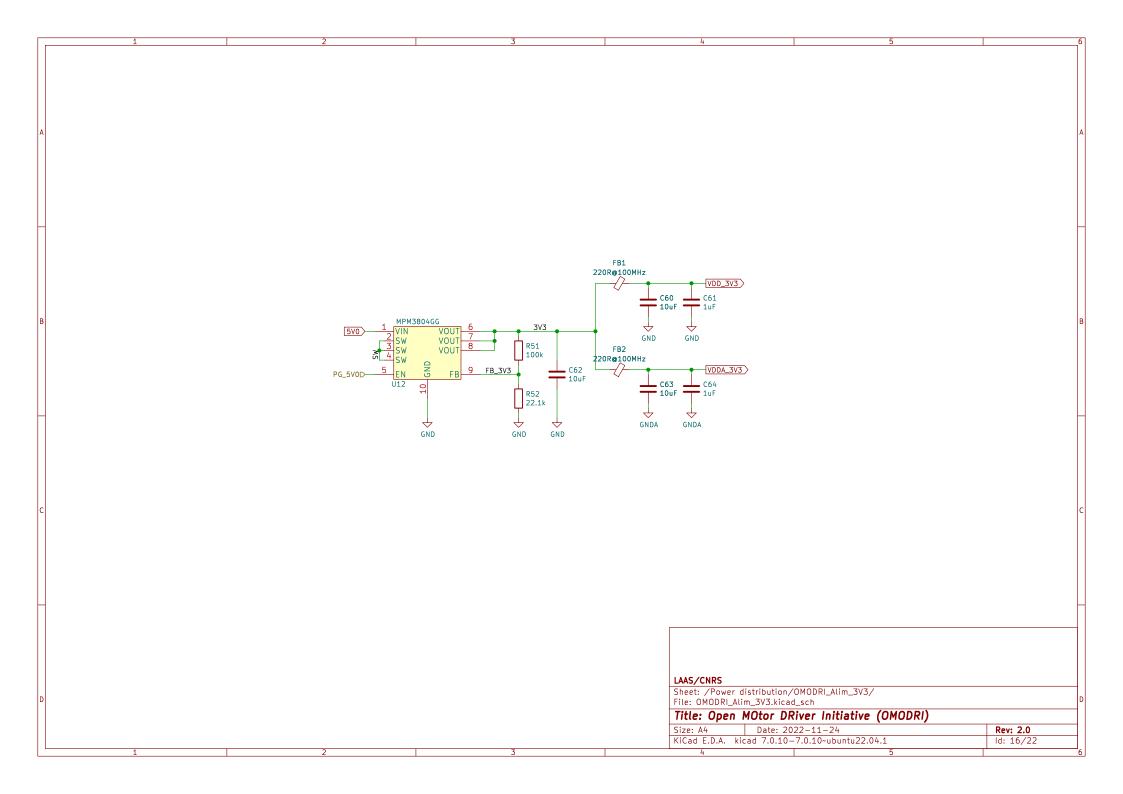
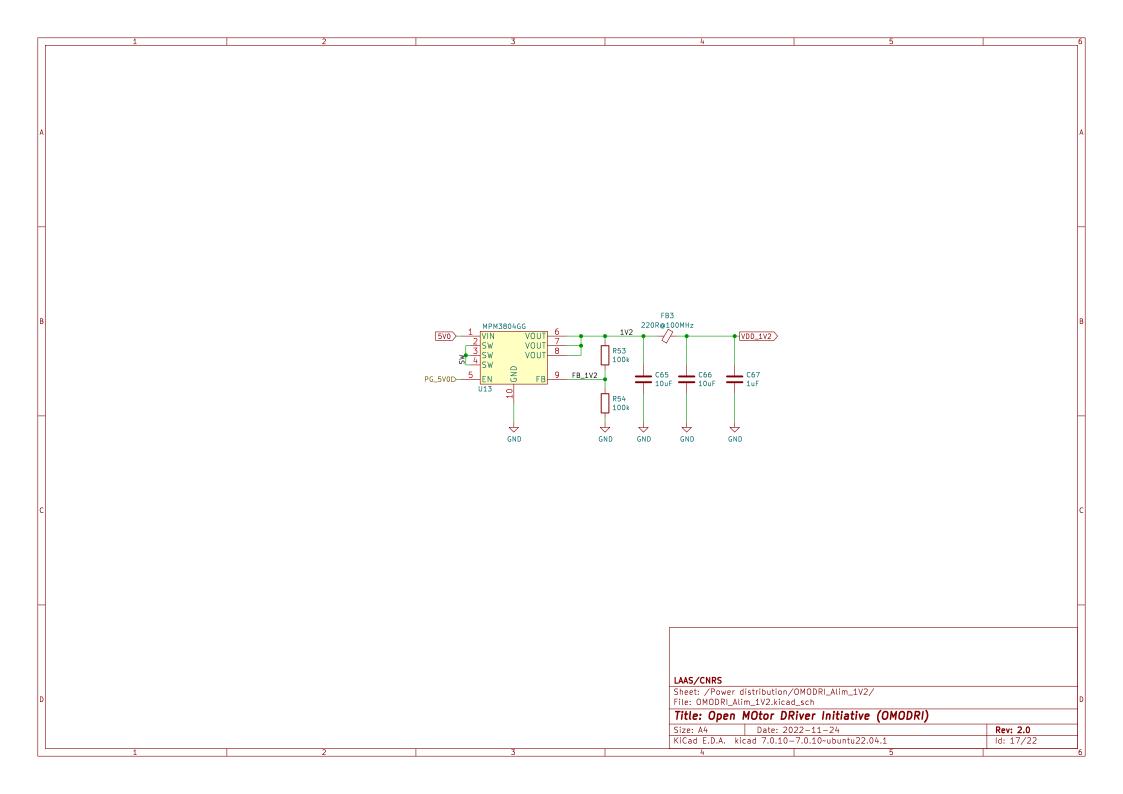
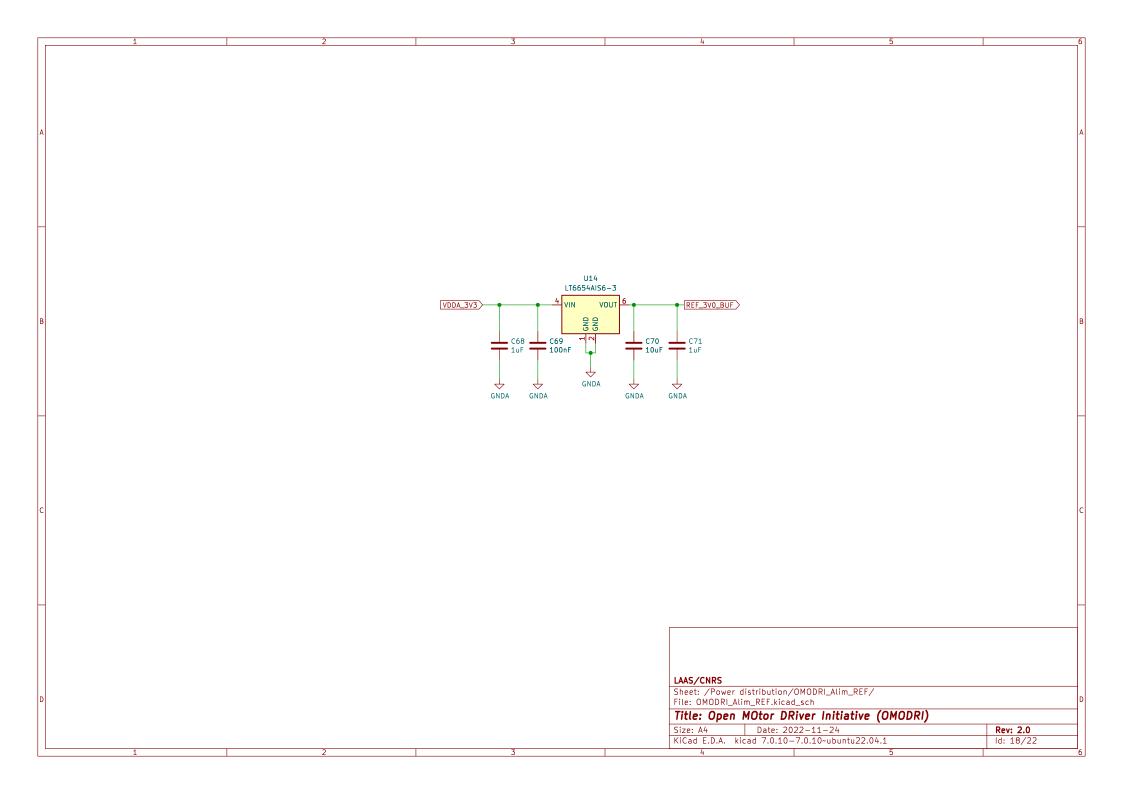
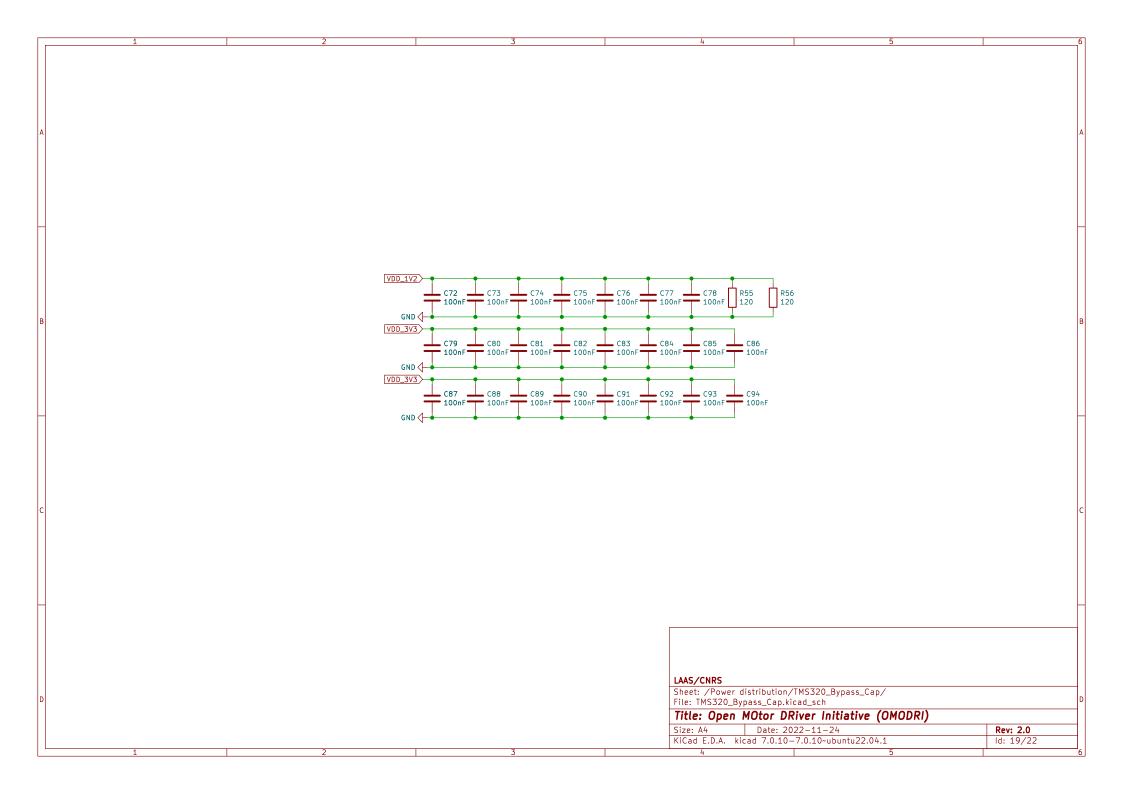


TODO note: change references link and MPN for all resistor and capa TODO note: U11.4: SW — Switch node. Do not place any external component on this pin or connect this pin to any signal.
U11.5: DNC — Do not connect. Do not connect this pin to ground, to another pin, or to any other voltage. This pin is connected to the internal bootstrap capacitor. This pin must be soldered to an isolated pad.
U11.3: U11.6. U11.13: NC — these pins to the PGND plane can help enhance shielding and thermal performance. U11.12 : PGOOD - A 10-kohm to 100-kohm pullup resistor is required and can be tied to the V5V pin or other DC voltage less than 18V. R48 = 10kohm (recommended) R50 = 2.49kohm (R50 = R48 / (5V - 1)) Cin > 9.4 uFC56 + C57 + C58 = (10uF + 10uF + 100nF) rated @ 75V. Cout > 15 $\mu$  (according figure 7-2 in datasheet SLVSG72 / TPSM560R6H) C59 =  $22\mu$ F/25V U11 TPSM5601R5 VPOWER> Vout Vin Vout R48 SW 4× 10k FB\_5V0 FB PG 12 C56 C57 C58 \_ C59 ☐ R49 22uF V5V 11 V5V\_5V0 NC1 DNC2 NC3 R50 2.49k AGND PGND 15 13<sub>NC4</sub>  $\rightarrow$ GND GND GND GND GND GND GND LAAS/CNRS Sheet: /Power distribution/OMODRI\_Alim\_5V/ File: OMODRI\_Alim\_5V.kicad\_sch Title: Open MOtor DRiver Initiative (OMODRI) Size: A4 Date: 2022-11-24 Rev: 2.0 KiCad E.D.A. kicad 7.0.10-7.0.10~ubuntu22.04.1 ld: 15/22









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TODO note:
                        U15.4: SW — Switch node. Do not place any external component on this pin or connect this pin to any signal.
U15.5: DNC — Do not connect. Do not connect this pin to ground, to another pin, or to any other voltage. This pin is connected to the internal bootstrap capacitor. This pin must be soldered to an isolated pad.
U15.3. U15.6. U15.13: NC — these pins to the PGND plane can help enhance shielding and thermal performance.
                         U15.12 : PGOOD - If not used, this pin can be left open or connected to PGND.
                        R57 = 10kohm (recommended)
R58 = 909ohm (R58 = R57 / (12V - 1))
                         C95 + C96 + C97 = (10uF + 10uF + 100nF) rated @ 75V.
                         Cout > 15uF (according figure 7-2 in datasheet SLVSG72 / TPSM560R6H)
                         C98 = 22uF/25V
                                                                   U15
                                                              TPSM560R6H
VPOWER
                                                            Vin
                                                                         Vout
                                                                                                                      12V0
                                                       14 Vin
                                                                         Vout
                                                                                                        R57
                                                                          SW 4×
                                                                                                        10k
                                                                          FB 9 FB_12V0
PG 12 ×
             C95 C96 C97 10uF 100nF
                                                            NC1
                                                                         V5V 11 ×
                                                           DNC2
NC3
                                                                                                        R58
                                                                       AGND 10
                                                                                                       909
                                                                       PGND 15
                                                           13<sub>NC4</sub>
             GND
                         GND
                                     GND
                                               GND
                                                                                        GND
                                                                                                     GND
                                                                                                               GND
                                                                                                                       LAAS/CNRS
                                                                                                                       Sheet: /Power distribution/OMODRI_Alim_12V/
                                                                                                                       File: OMODRI_Alim_12V.kicad_sch
                                                                                                                       Title: Open MOtor DRiver Initiative (OMODRI)
                                                                                                                       Size: A4
                                                                                                                                            Date: 2022-11-24
                                                                                                                                                                                                                            Rev: 2.0
                                                                                                                       KiCad E.D.A. kicad 7.0.10-7.0.10~ubuntu22.04.1
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