

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. U11.5: NC — these pins to the PGND plane can help enhance shielding and thermal performance.
U11.12: PG00D — 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 = (10 uF + 10 uF + 100 nF) rated @ 75V. Cout > 15 μ (according figure 7-2 in datasheet SLVSG72 / TPSM560R6H) C59 = 22μ F/25V U11 TPSM5601R5 VPOWER) 5٧0 Vout Vin Vout R48 SW 4× 10k FB_5V0 FB PG 12 C56 C57 C58 —DPG_5V0 22uF R49 100k V5V 11 V5V_5V0 ⁴NC1 R50 DNC2 NC3 AGND 10 2.49k PGND 15 13_{NC4} \rightarrow GND GND GND GND GND GND GND

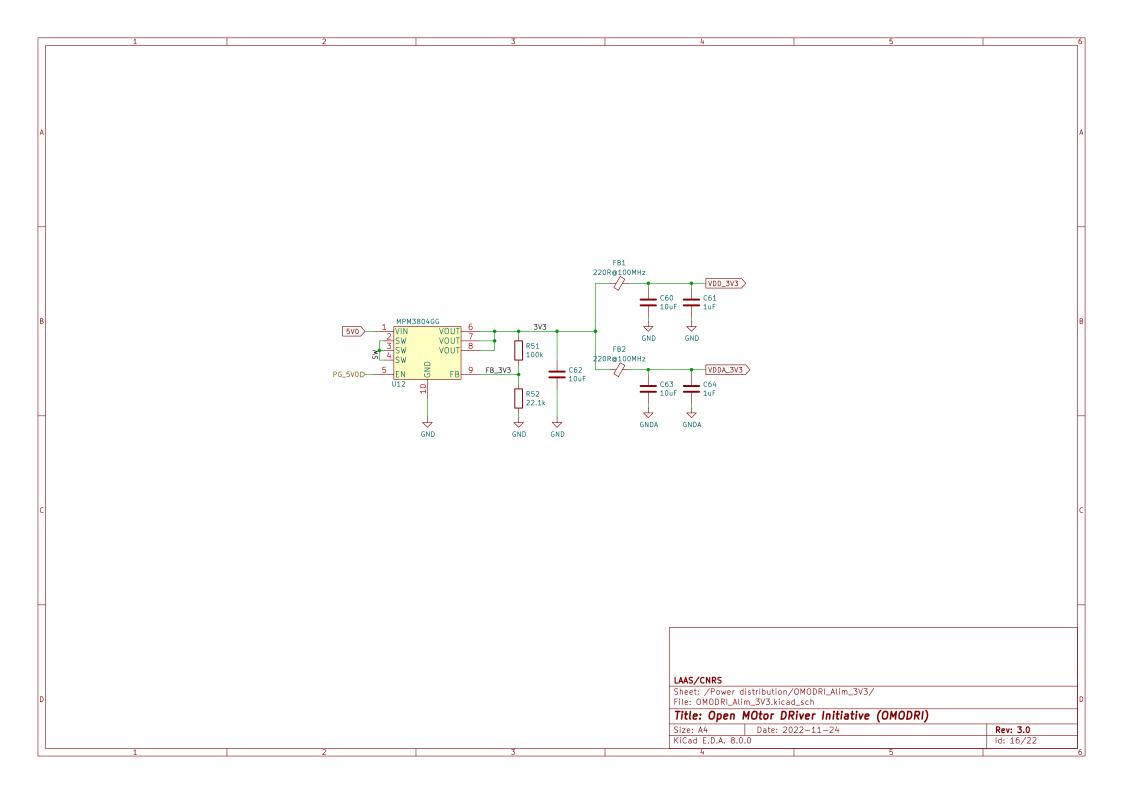
LAAS/CNRS

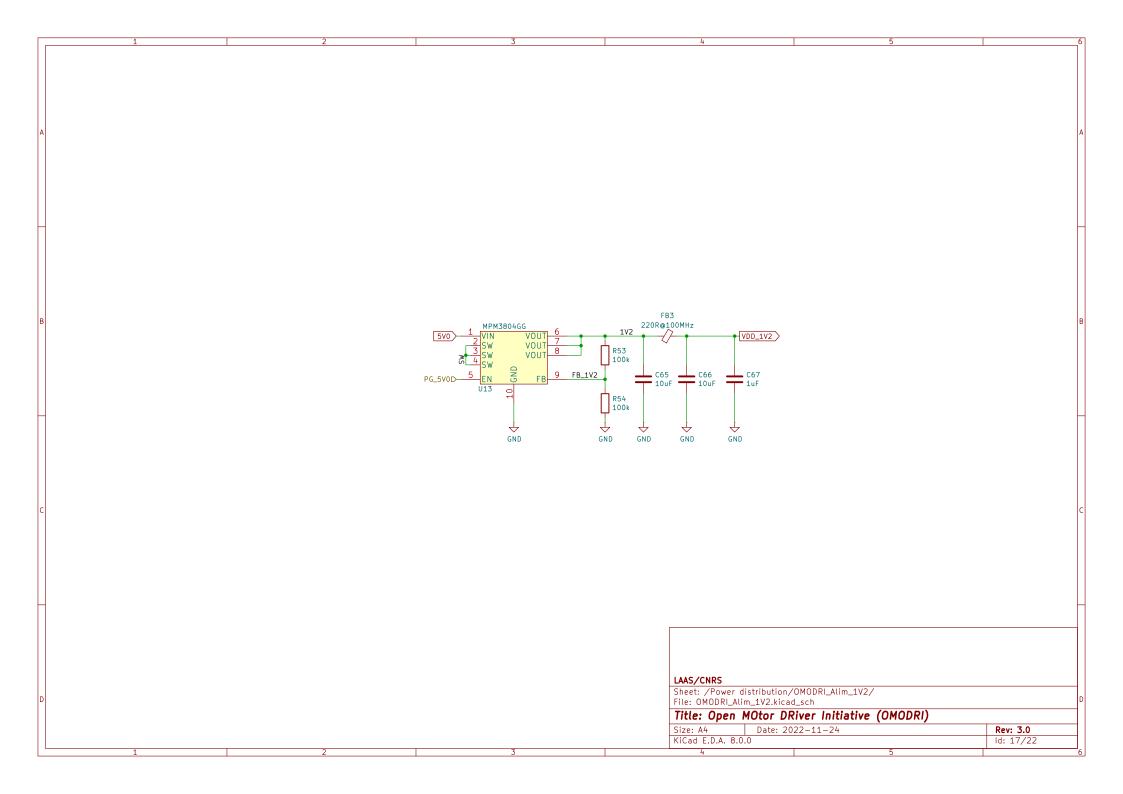
Sheet: /Power distribution/OMODRI_Alim_5V/

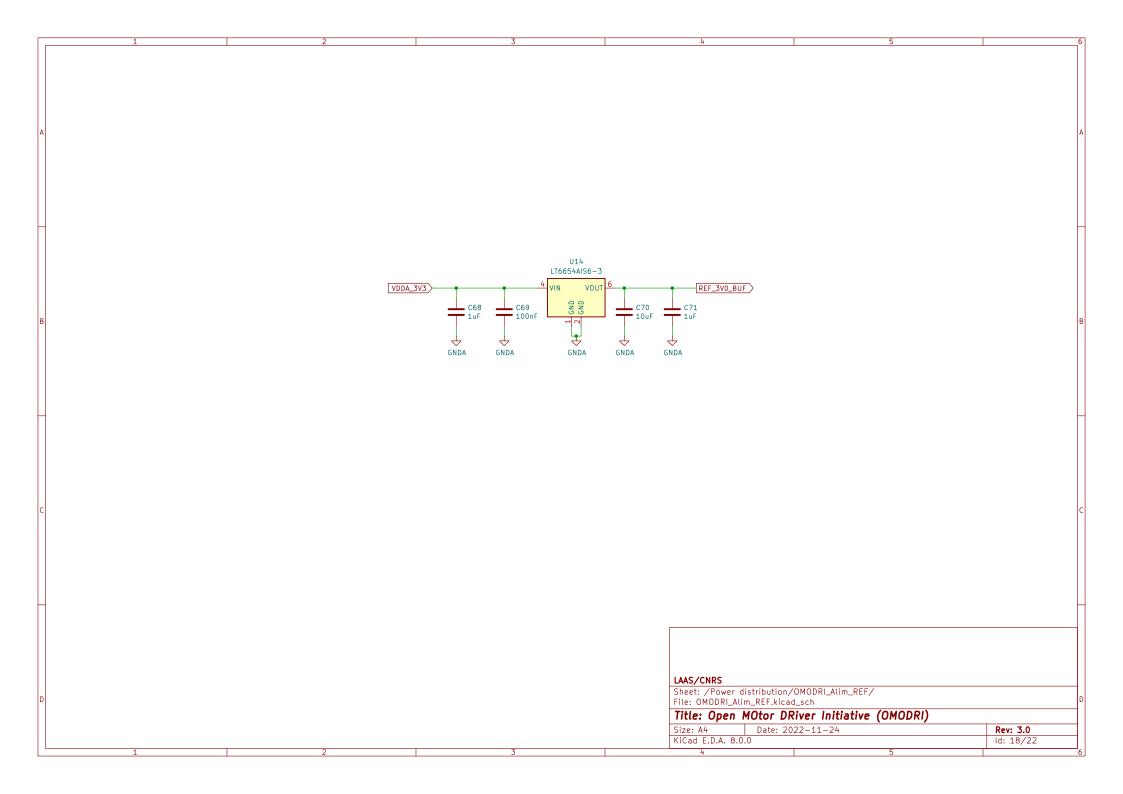
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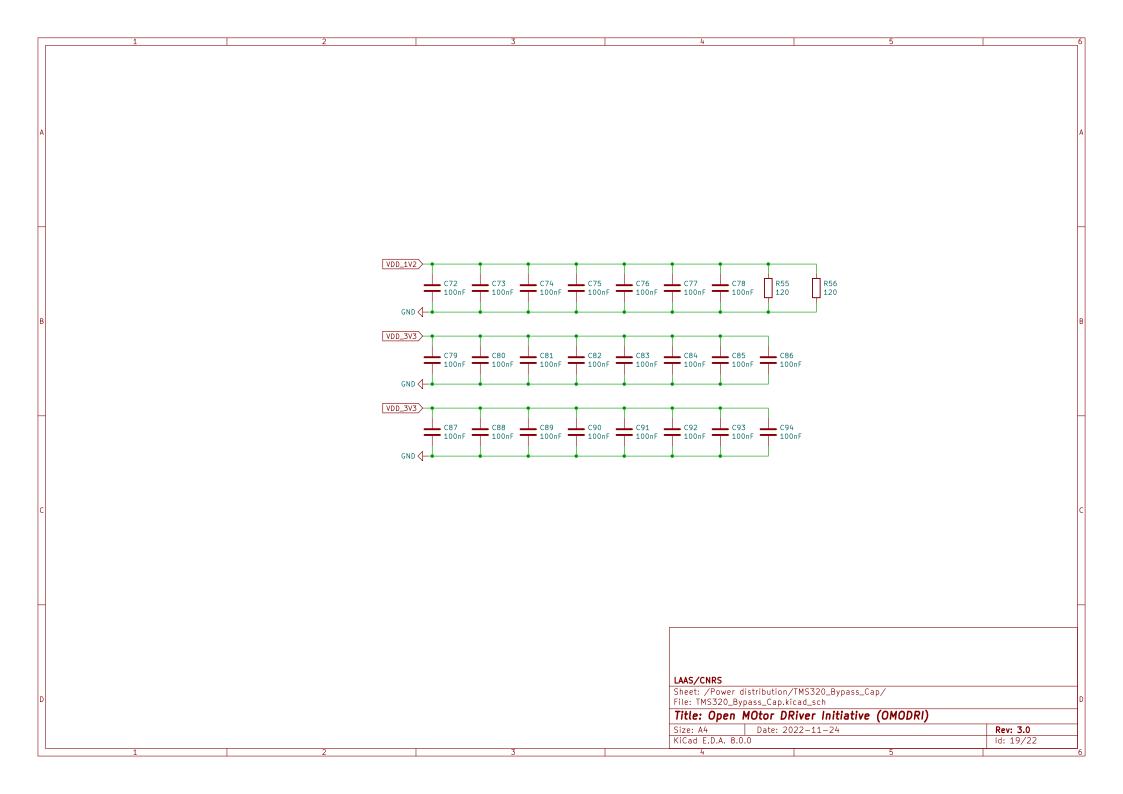
Title: Open N	MOtor DRiver	Initiative (OMODRI)
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Size: A4	: A4 Date: 2022-11-24		Rev: 3.0
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TODO note:
                         U15.4: SW — Switch node. Do not place any external component on this pin 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))
                         Cin > 9.4uF
                         C95 + C96 + C97 = (10uF + 10uF + 100nF) rated @ 75V.
                         Cout > 15uF (according figure 7-2 in datasheet SLVSG72 / TPSM560R6H)
                         C98 = 22uF/25V
                                                                     U15
                                                               TPSM560R6H
VPOWER >
                                                                                                                        12V0
                                                                           Vout
                                                                           Vout
                                                                                                          R57
                                                                            SW 4×
                                                                                                         10k
                                                                                  9 FB_12V0
                                                                             FB-
                                                                             PG 12 X
              C95 C96 C97 10uF 100nF
                                                             NC1
                                                                           V5V 11 X
                                                           DNC2
6
NC3
13
NC4
                                                                                                          R58
                                                                        AGND 10
                                                                                                         909
                                                                        PGND 15
              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
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