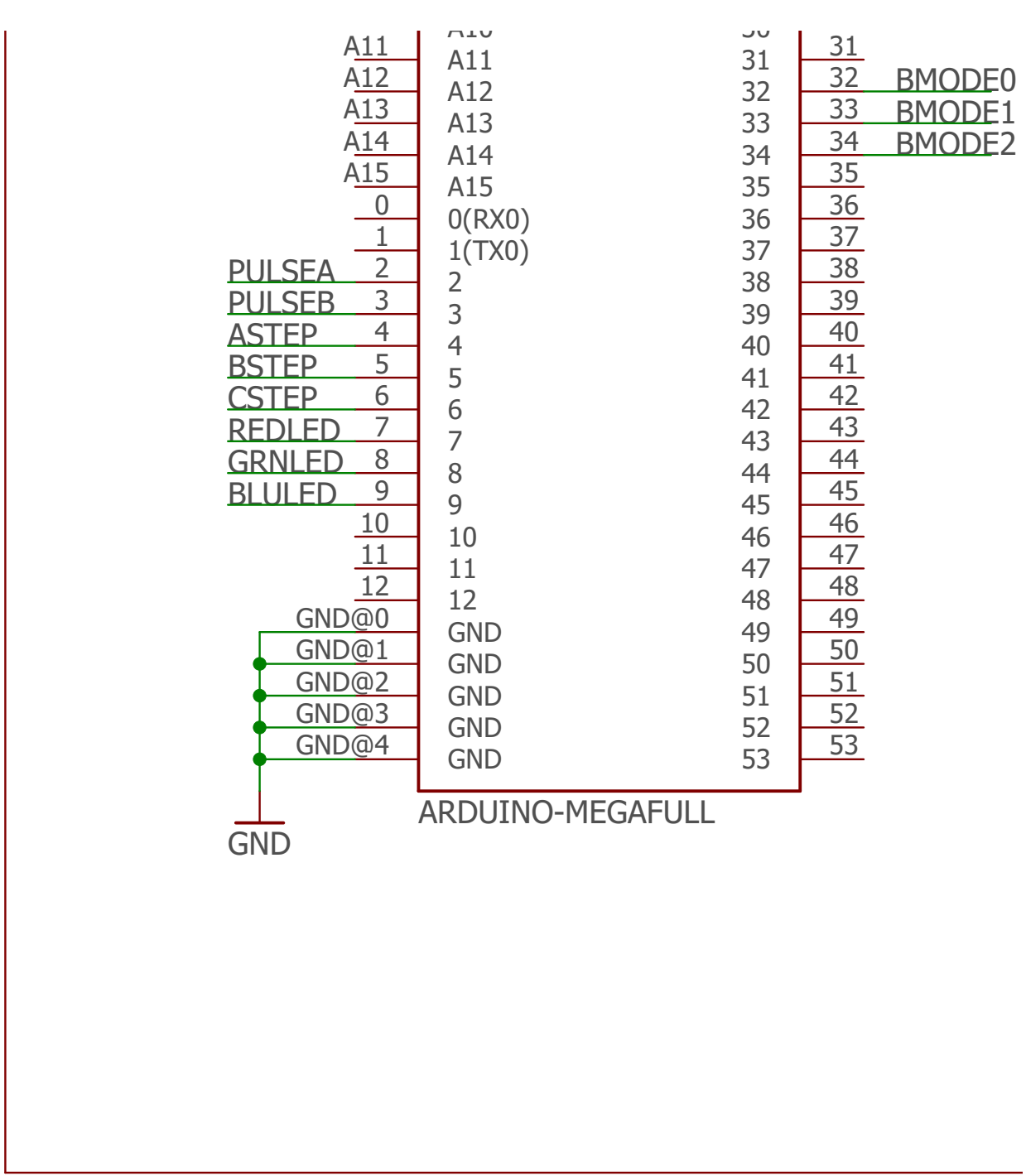
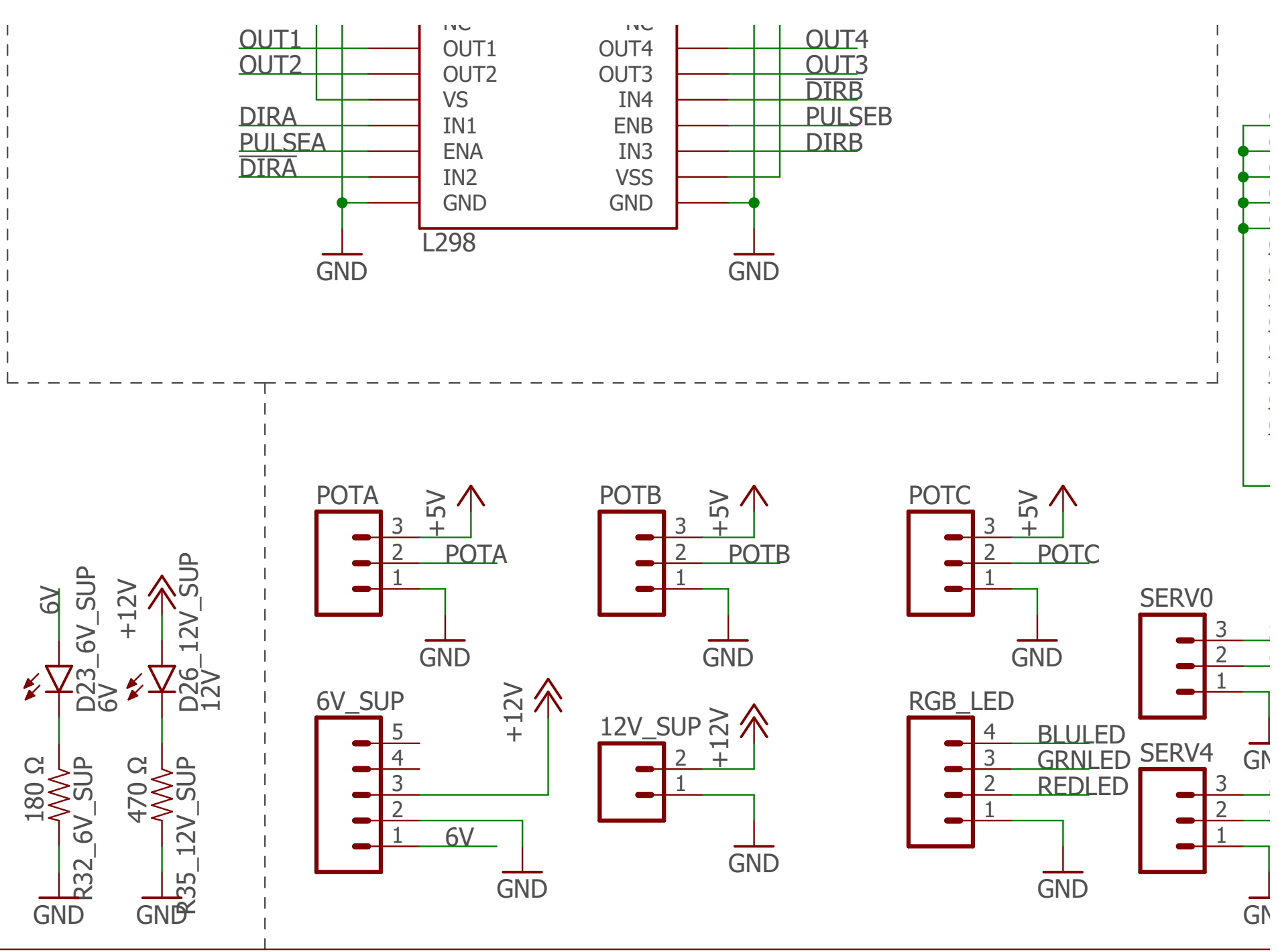
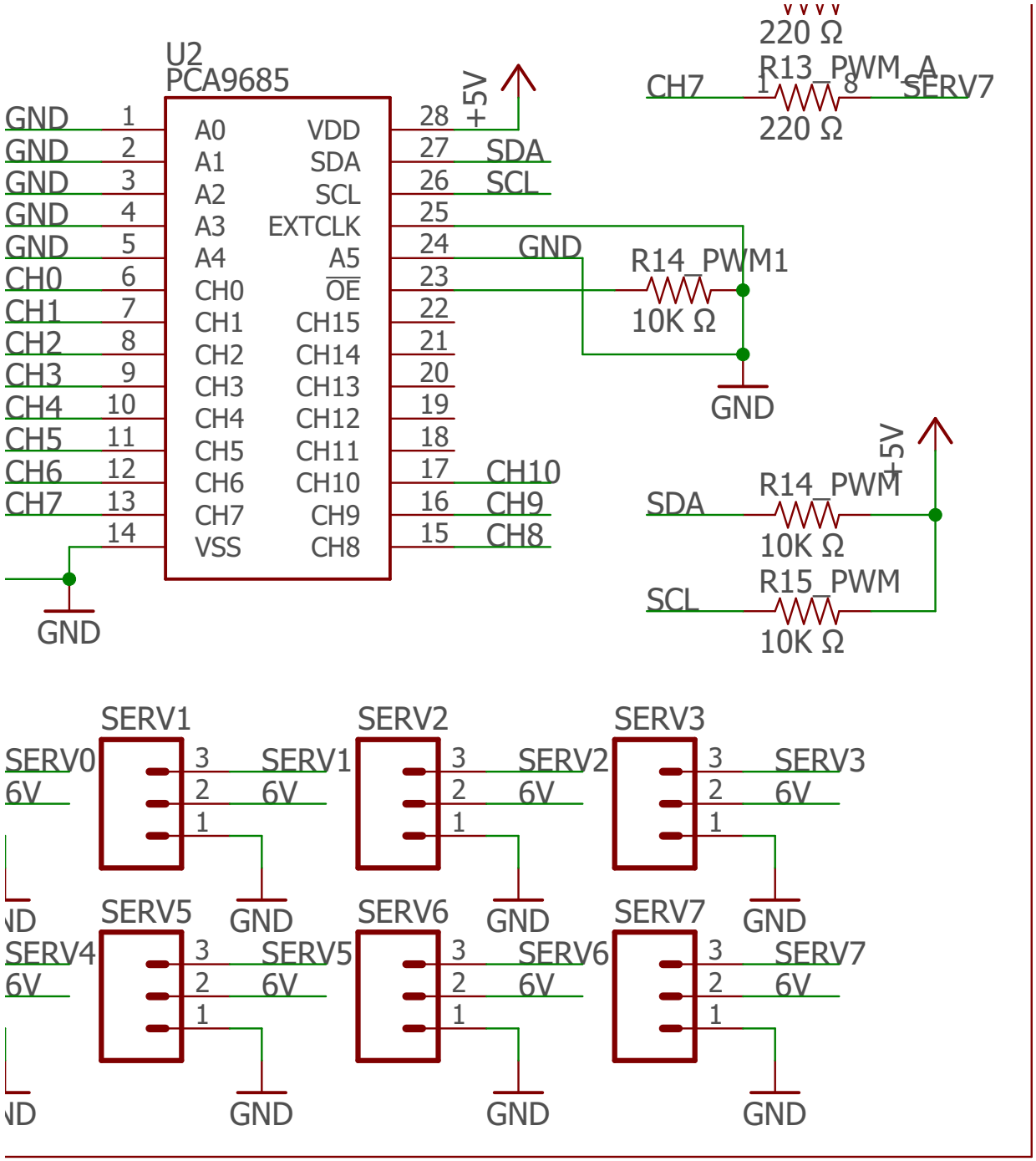
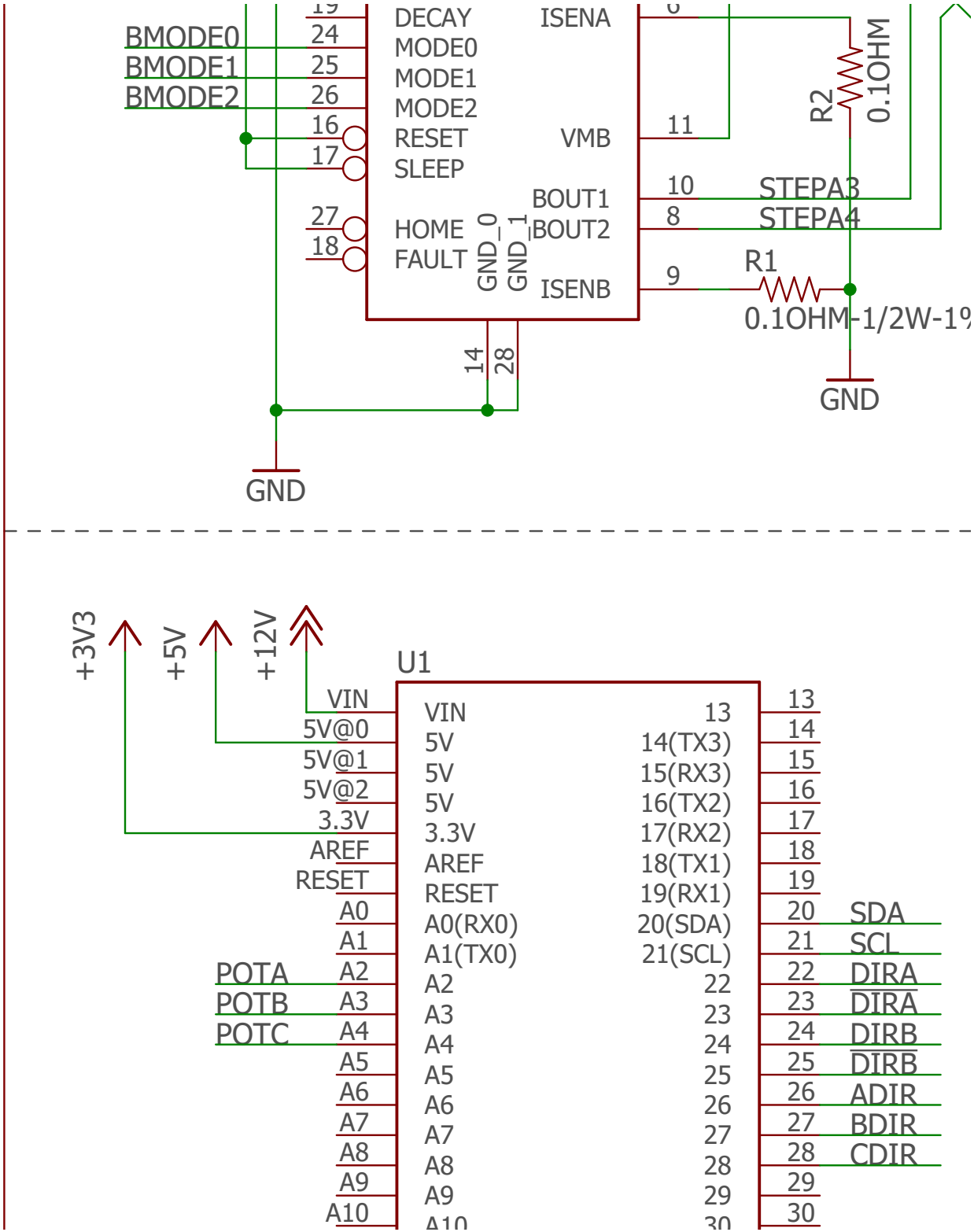
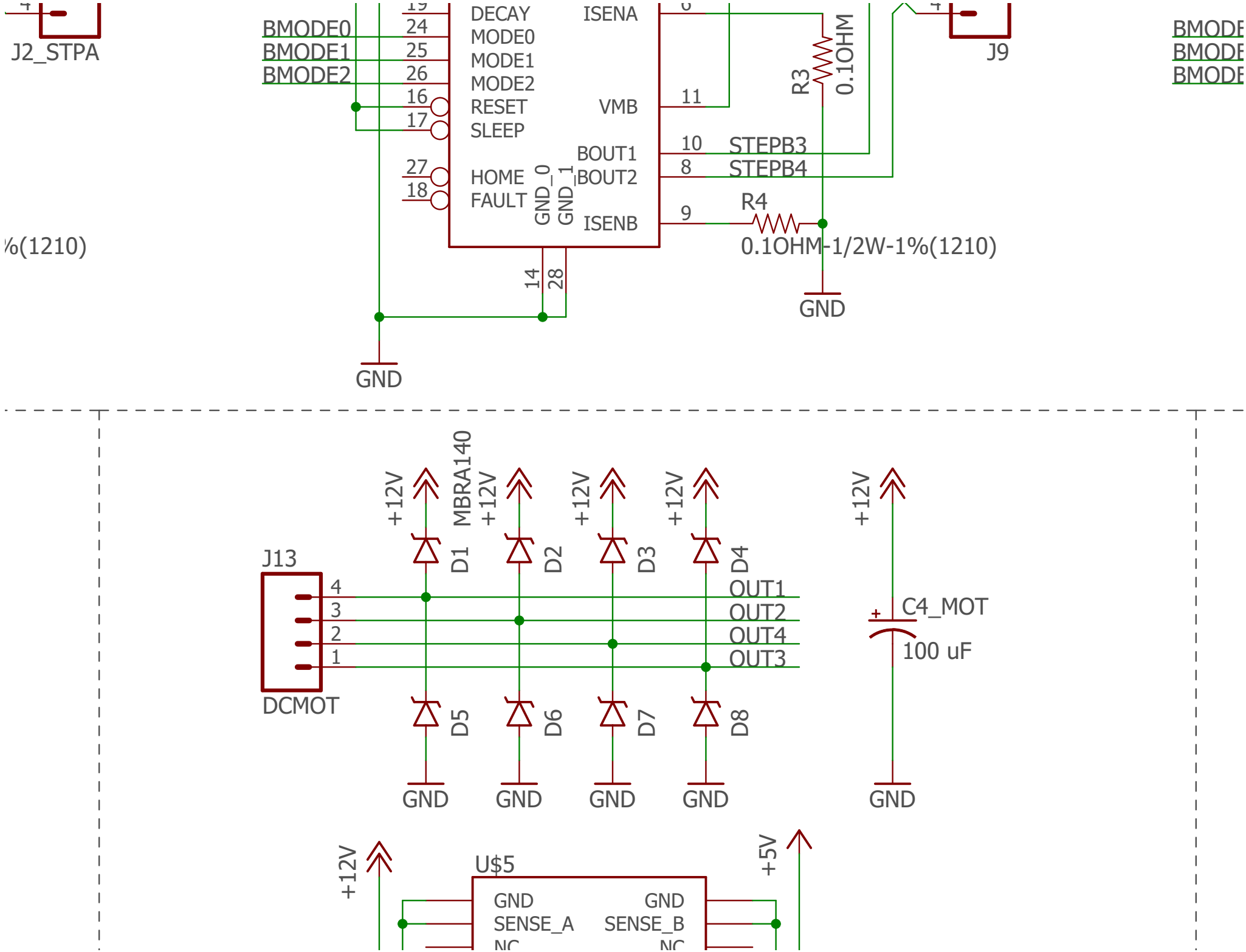
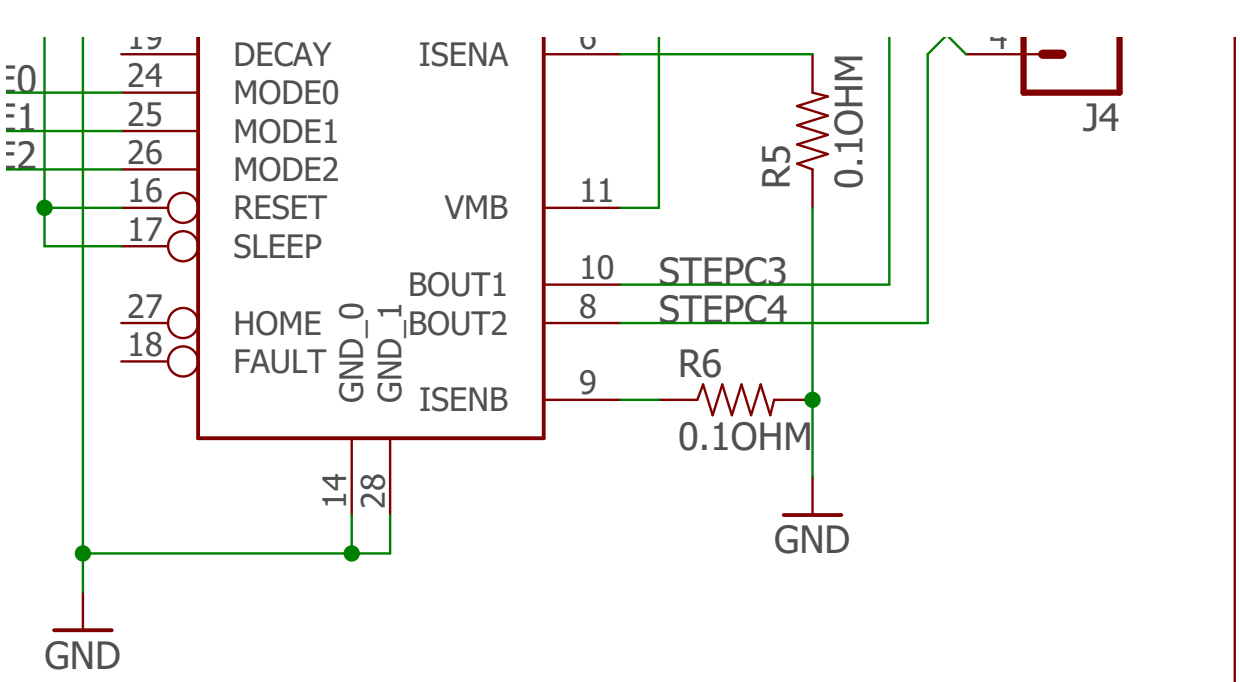

A11
A12
A13
A14
A15
0
1
PULSEA
PULSEB
ASTEP
BSTEP
CSTEP
REDLED
GRNLED
BLULED
GND@0
GND@1
GND@2
GND@3
GND@4
GND
ARDUINO-MEGAFULL
BMODE0
BMODE1
BMODE2

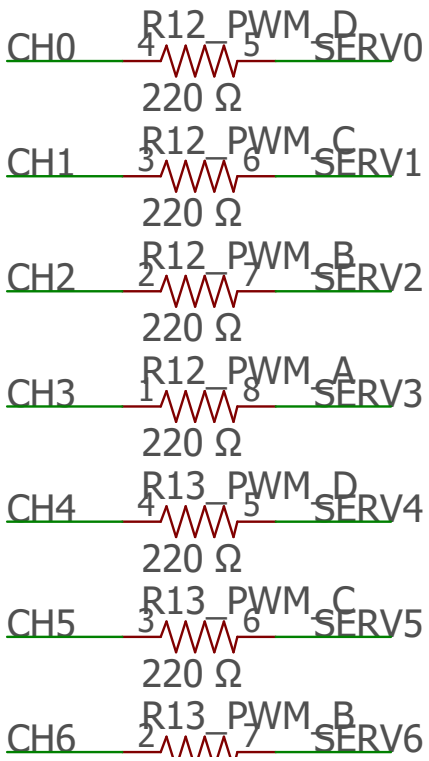

OUT1
OUT2
DIRA
PULSEA
DIRA
OUT1
OUT2
VS
IN1
ENA
IN2
GND
L298
OUT4
OUT3
IN4
ENB
IN3
VSS
GND
OUT4
OUT3
DIRB
PULSEB
DIRB
GND
GND
POTA
+5V
3
2
1
POTA
GND
POTB
+5V
3
2
1
POTB
GND
POTC
+5V
3
2
1
POTC
GND
SERV0
3
2
1
SERV4
3
2
1
6V_SUP
+12V
5
4
3
2
1
6V
GND
12V_SUP
+12V
2
1
GND
RGB_LED
4
3
2
1
BLULED
GRNLED
REDLED
GND
6V
D23_6V_SUP
6V
180 Ω
R32_6V_SUP
GND
+12V
D26_12V_SUP
12V
470 Ω
R35_12V_SUP
GND

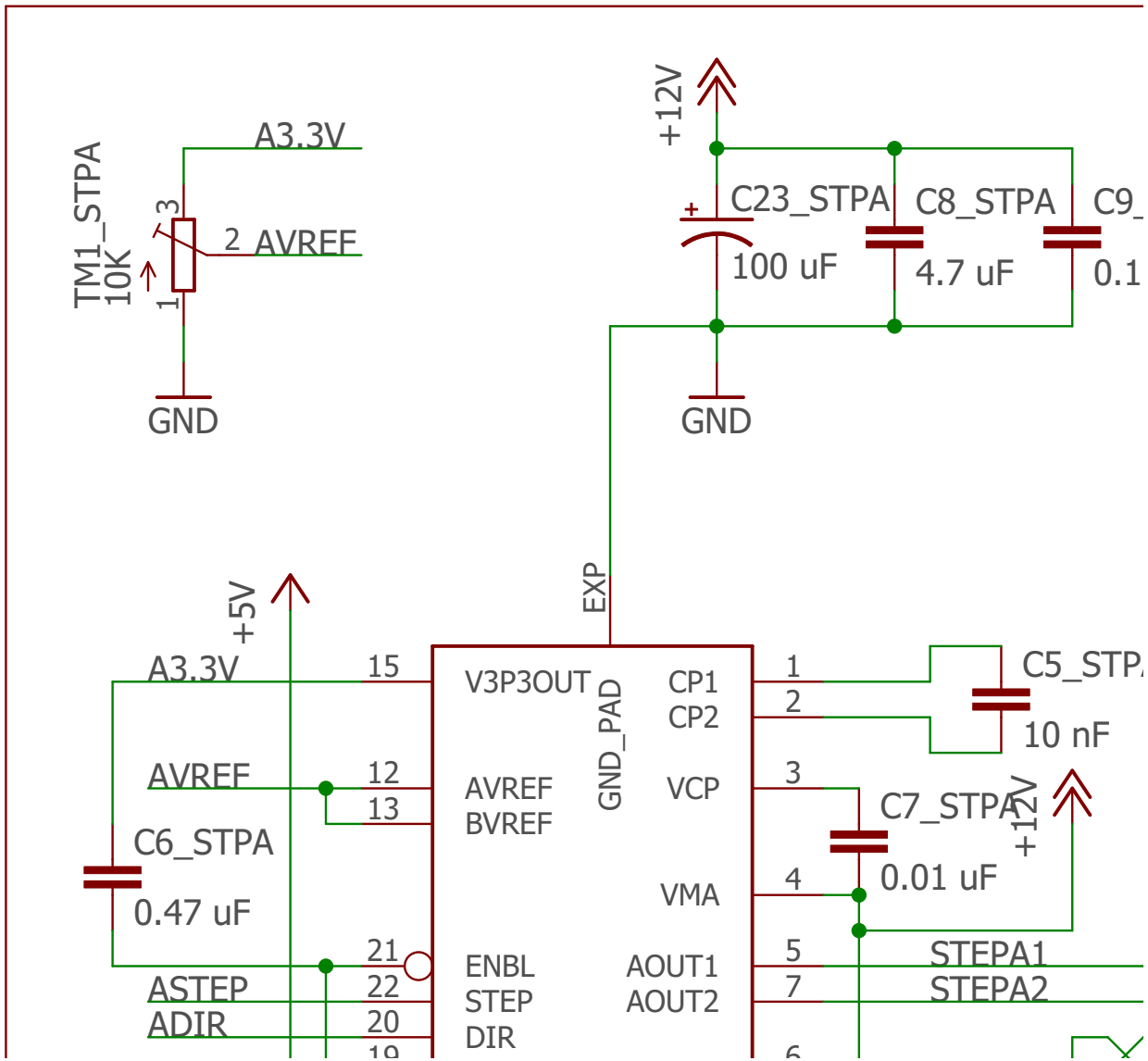

U2
PCA9685
GND
GND
GND
GND
GND
CH0
CH1
CH2
CH3
CH4
CH5
CH6
CH7
A0
A1
A2
A3
A4
CH0
CH1
CH2
CH3
CH4
CH5
CH6
CH7
VSS
VDD
SDA
SCL
EXTCLK
A5
OE
CH15
CH14
CH13
CH12
CH11
CH10
CH9
CH8
+5V
CH10
CH9
CH8
GND
220 Ω
R13_PWM_A
CH7
SERV7
220 Ω
GND
R14_PWM1
10K Ω
GND
+5V
SDA
R14_PWM
10K Ω
SCL
R15_PWM
10K Ω
SERV1
SERV2
SERV3
SERV0
SERV1
SERV2
SERV3
6V
GND
SERV5
SERV6
SERV7
SERV4
SERV5
SERV6
SERV7
GND


BMODE0
BMODE1
BMODE2
24
25
26
16
17
27
18
DECAY
MODE0
MODE1
MODE2
RESET
SLEEP
HOME
FAULT
GND_0
GND_1
ISENA
VMB
BOUT1
BOUT2
ISENB
11
10
8
9
R2
0.1OHM
STEPA3
STEPA4
R1
0.1OHM-1/2W-1%
GND
14
28
GND
+3V3
+5V
+12V
U1
VIN
5V@0
5V@1
5V@2
3.3V
AREF
RESET
A0
A1
POTA
POTB
POTC
A2
A3
A4
A5
A6
A7
A8
A9
A10
VIN
5V
5V
5V
3.3V
AREF
RESET
A0(RX0)
A1(TX0)
A2
A3
A4
A5
A6
A7
A8
A9
A10
13
14(TX3)
15(RX3)
16(TX2)
17(RX2)
18(TX1)
19(RX1)
20(SDA)
21(SCL)
22
23
24
25
26
27
28
29
30
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
SDA
SCL
DIRA
DIRA
DIRB
DIRB
ADIR
BDIR
CDIR

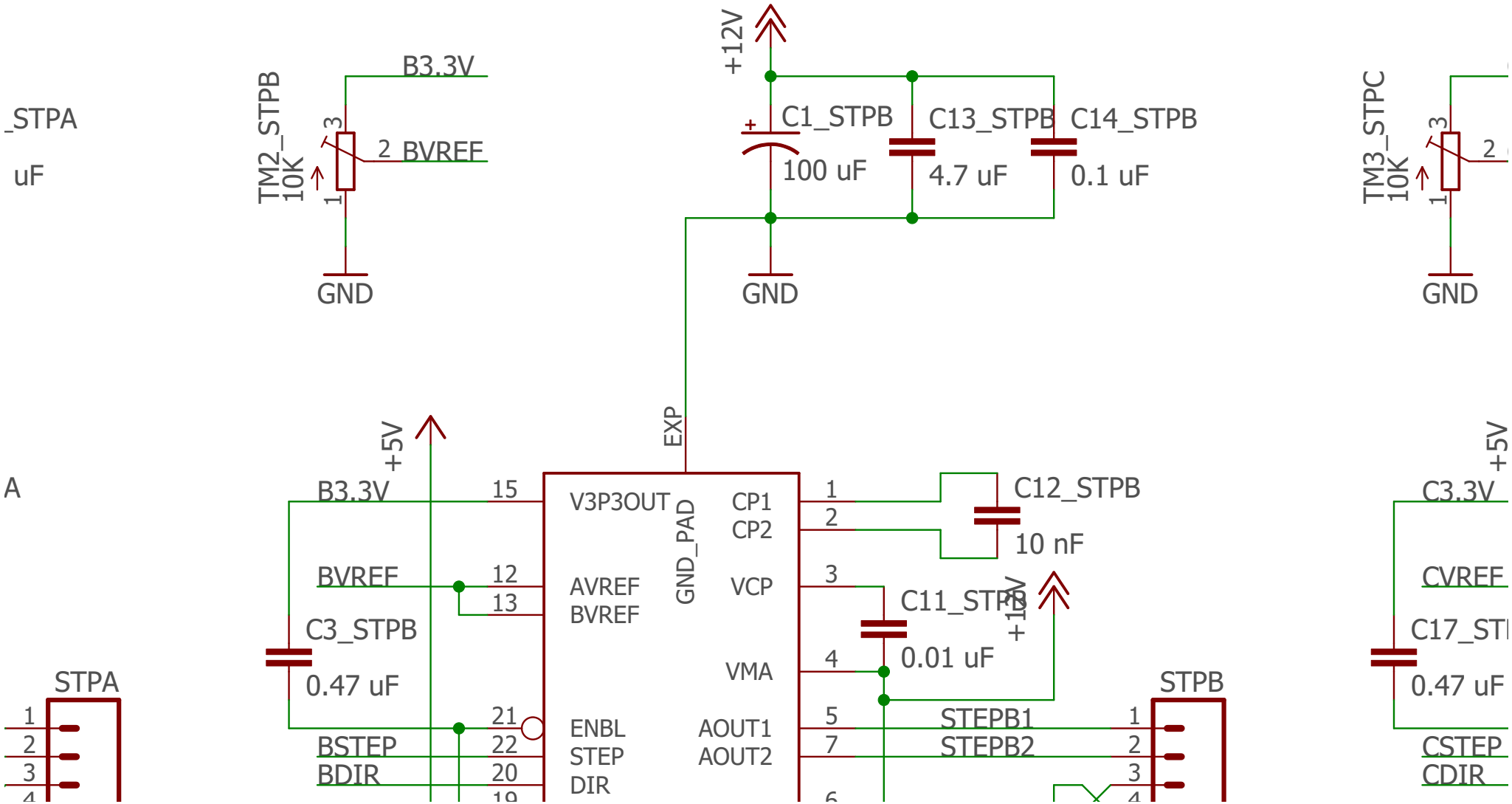
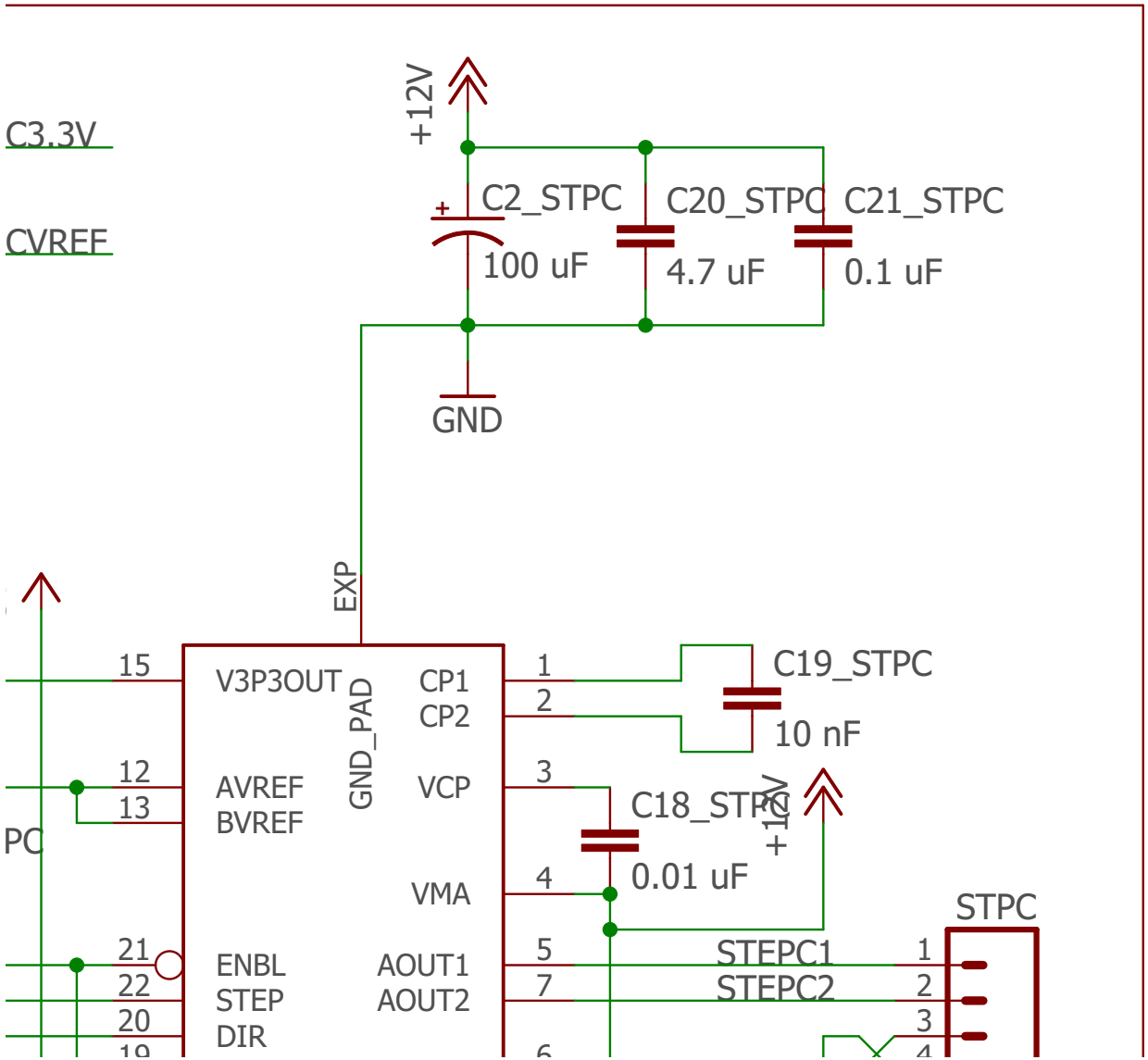

J2_STPA
BMODE0
BMODE1
BMODE2
DECAY
MODE0
MODE1
MODE2
RESET
SLEEP
HOME
FAULT
GND_0
GND_1
ISENA
VMB
BOUT1
BOUT2
ISENB
STEPB3
STEPB4
R3
0.1OHM
R4
0.1OHM-1/2W-1%(1210)
J9
GND
%(1210)
+12V
MBRA140
D1
D2
D3
D4
J13
DCMOT
OUT1
OUT2
OUT4
OUT3
C4_MOT
100 uF
D5
D6
D7
D8
U$5
SENSE_A
SENSE_B
+5V


DECAY
MODE0
MODE1
MODE2
RESET
SLEEP
HOME
FAULT
GND_0
GND_1
ISENA
VMB
BOUT1
BOUT2
ISENB
STEPC3
STEPC4
R5
0.1OHM
R6
0.1OHM
J4
GND
GND


CH0
R12_PWM_D
SERV0
220 Ω
CH1
R12_PWM_C
SERV1
220 Ω
CH2
R12_PWM_B
SERV2
220 Ω
CH3
R12_PWM_A
SERV3
220 Ω
CH4
R13_PWM_D
SERV4
220 Ω
CH5
R13_PWM_C
SERV5
220 Ω
CH6
R13_PWM_B
SERV6


A3.3V
TM1_STPA
10K
3
2 AVREF
1
GND
+12V
C23_STPA
100 uF
C8_STPA
4.7 uF
C9_
0.1
GND
EXP
+5V
A3.3V
15
V3P3OUT
GND_PAD
CP1
CP2
1
2
C5_STP
10 nF
AVREF
12
13
AVREF
BVREF
VCP
3
C7_STPA
0.01 uF
+12V
C6_STPA
0.47 uF
VMA
4
21
ENBL
AOUT1
5
STEPA1
ASTEP
22
STEP
AOUT2
7
STEPA2
ADIR
20
DIR

(C) 20


_STPA
uF
A
B3.3V
TM2_STPB
10K
BVREF
GND
+12V
C1_STPB
100 uF
C13_STPB
4.7 uF
C14_STPB
0.1 uF
GND
TM3_STPC
10K
GND
EXP
+5V
B3.3V
BVREF
C3_STPB
0.47 uF
STPA
V3P3OUT
GND_PAD
AVREF
BVREF
ENBL
STEP
DIR
CP1
CP2
VCP
VMA
AOUT1
AOUT2
C12_STPB
10 nF
C11_STPB
0.01 uF
+12V
STEPB1
STEPB2
STPB
+5V
C3.3V
CVREF
C17_STI
0.47 uF
CSTEP
CDIR

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