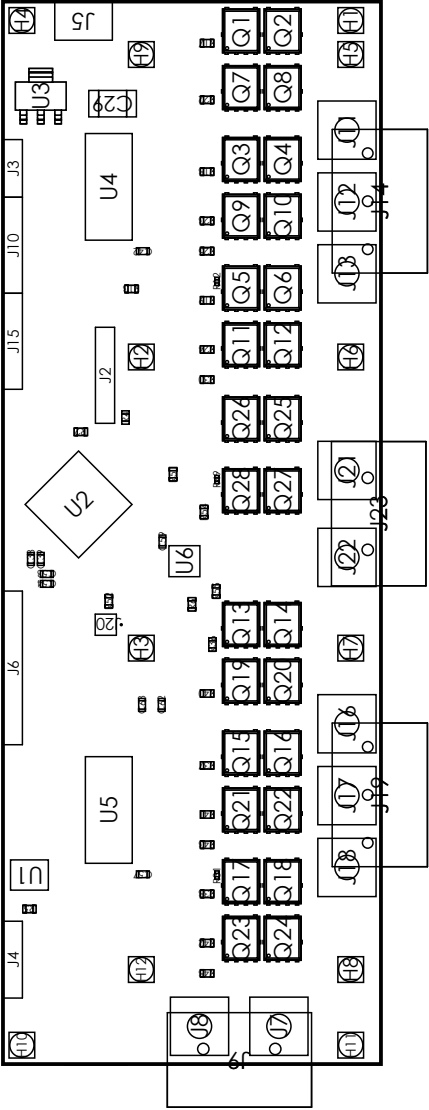


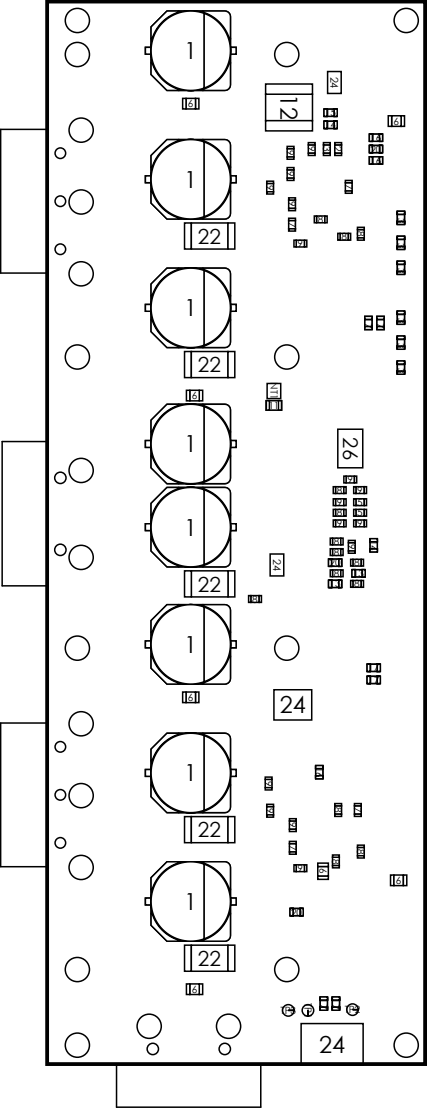
View from Top side (Scale 1:1)



Bill Of Materials - Top Layer

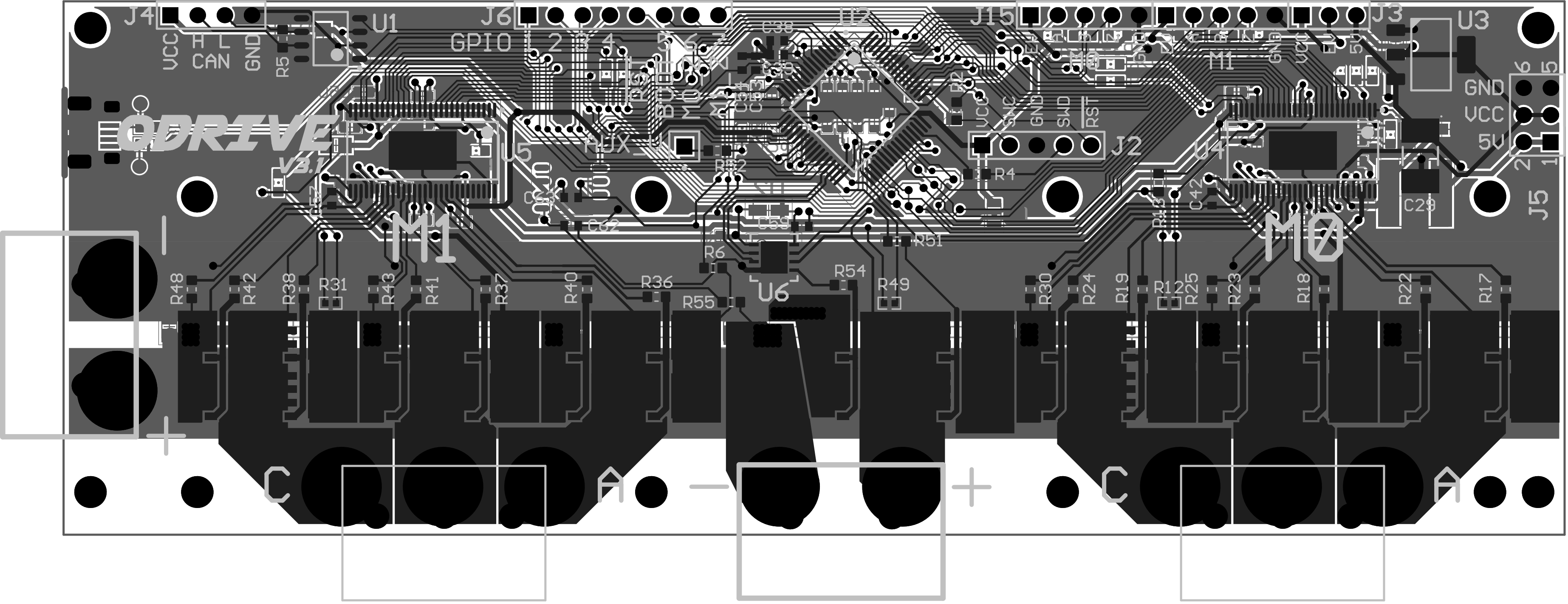
Item	Designator	Commen †	Quantity	Description
4	C29	68uF	1	CAP TANT 68UF 16V 20% 2312 250mOhm
7	C38, C39, C42, C53, C54, C57, C62	0.022µF	7	CAP CER 0.022UF 25V X7R 0603
9	C59, C63	0.10µF	2	CAP CER 0.1UF 25V X7R 0603
10	J20	AuxV	1	Socket
17	R2, R4, R25, R30, R43, R48, R55	22R	7	RES SMD 22 OHM 1% 1/10W 0603
18	R12, R31, R49	10k	3	THERMISTOR 10K OHM NTC 0402 SMD
19	R5	120R	1	RES SMD 120 OHM 1% 1/10W 0603
20	R13	3.3k	1	RES SMD 3.3K OHM 1% 1/10W 0603
21	R17-R19, R22-R24, R36-R38, R40-R42, R51, R54	2.2R	14	RES SMD 2.2 OHM 1% 1/10W 0603
23	R6, R52	10K	2	RES SMD 10K OHM 1% 1/10W 0603
24	U1, U2, U4-U6, H1-H12, Q1-Q28, J2-J19, J21-J23		66	3.3-V CAN Bus Transceiver
25	U3	3.3V	1	IC, LDO, REG, 3.3V, SOT223

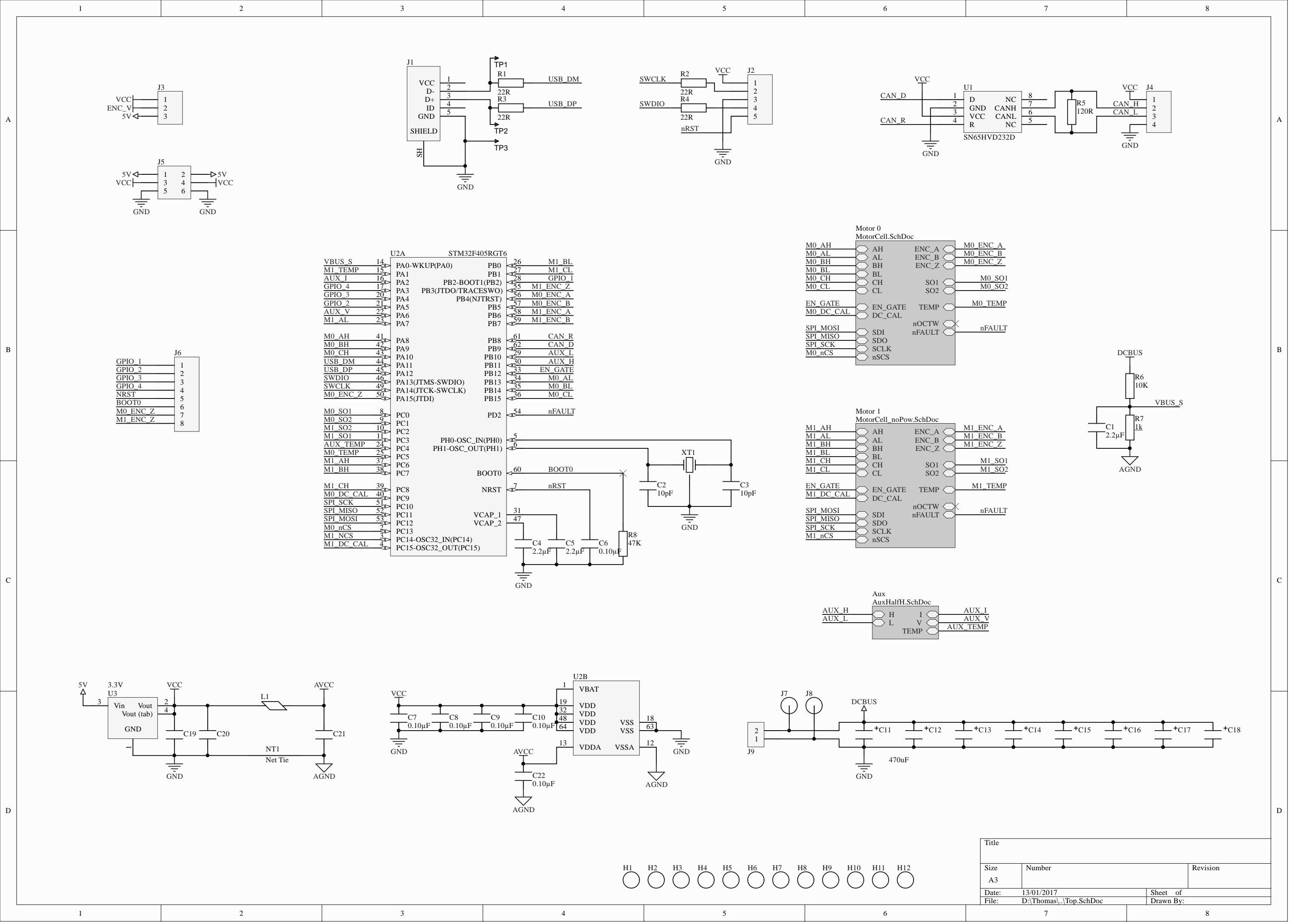
View from Bottom side (Scale 1:1)

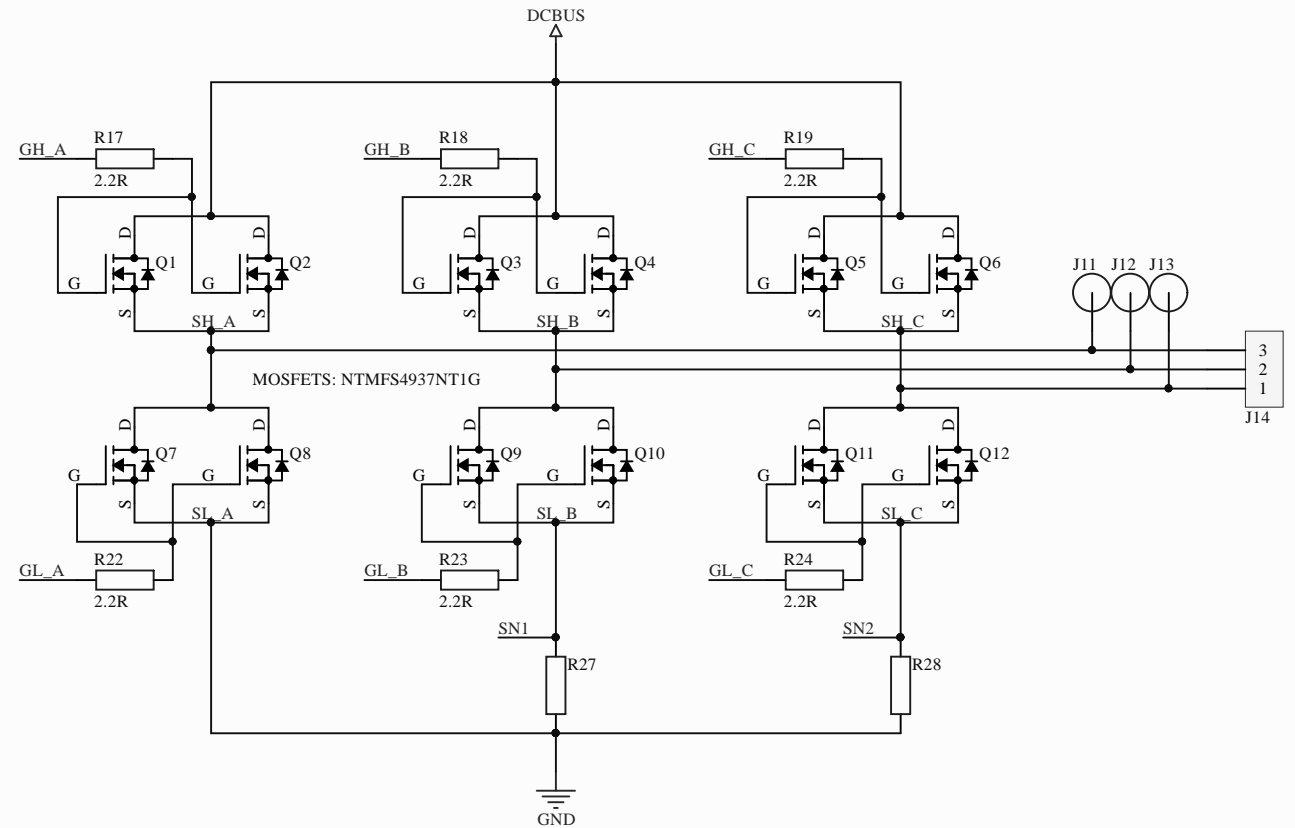
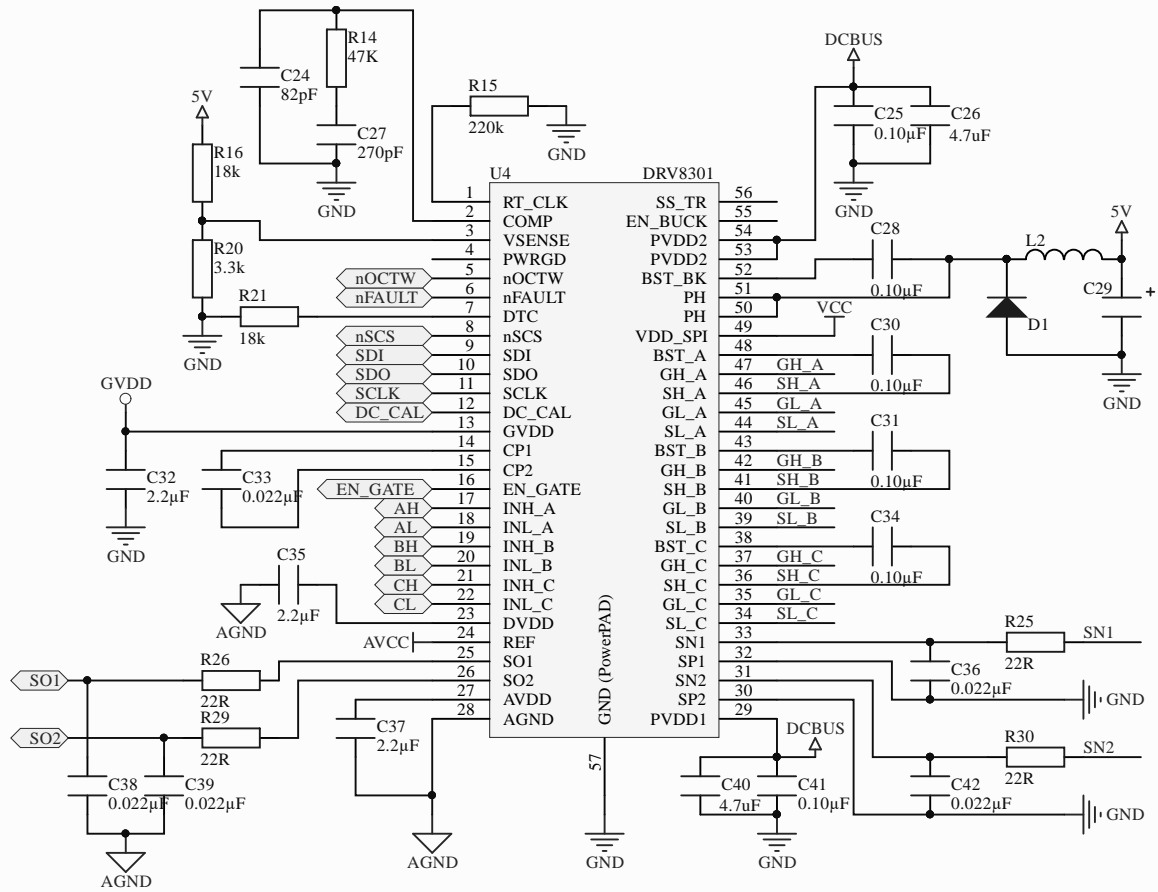
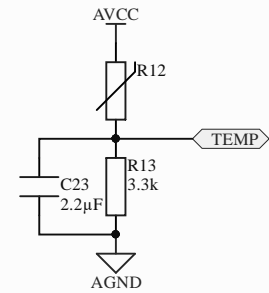
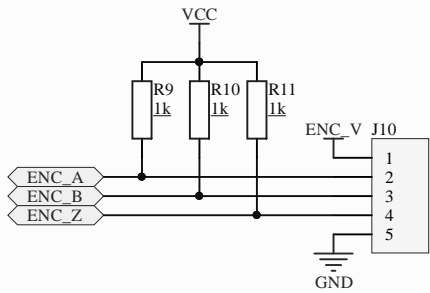


Bill Of Materials - Bottom Layer

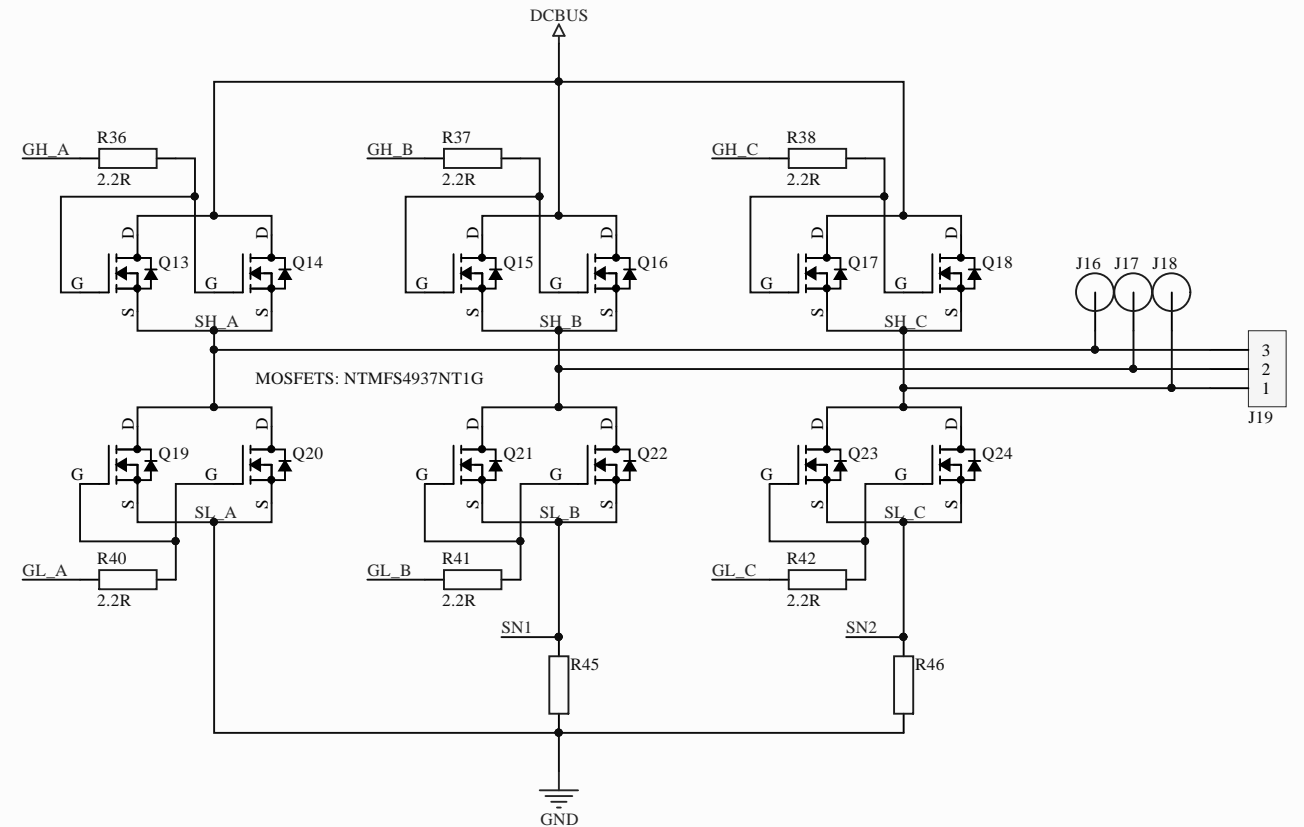
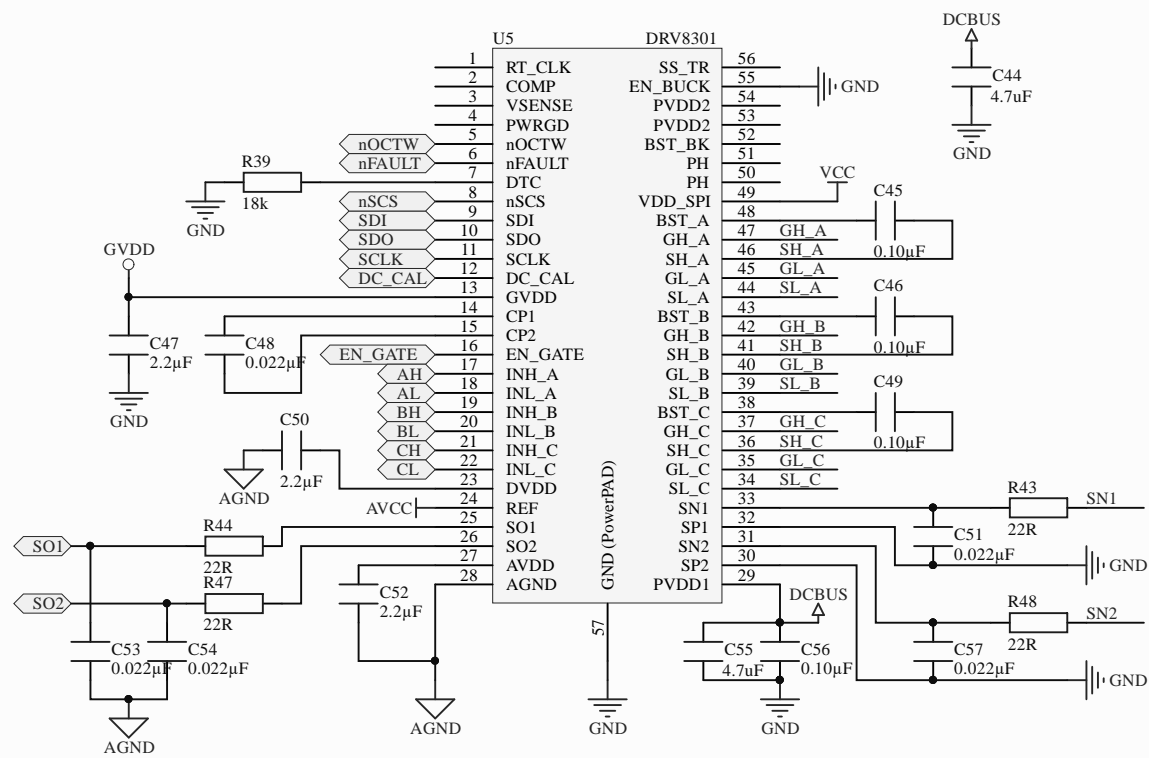
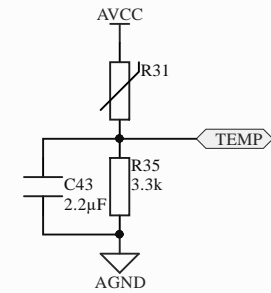
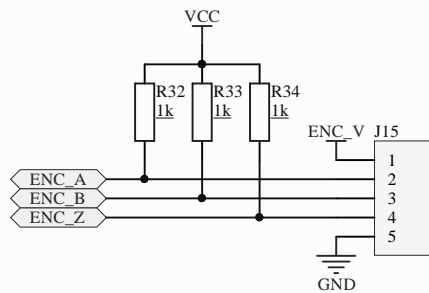
Item	Designator	Commen †	Quantity	Description
1	C11-C18	470uF	8	CAP, FP Series, 470 µF, 25 V, Radial Can - SMD, 10 mm
2	C24	82pF	1	CAP CER 82PF 100V NP0 0603
3	C27	270pF	1	CAP CER 270PF 50V NP0 0603
5	C2, C3	10pF	2	CAP CER 10PF 50V NP0 0603
6	C19-C21, C26, C40, C44, C55	4.7uF	7	CAP CER 4.7UF 35V X5R 0805
7	C33, C36, C48, C51	0.022µF	4	CAP CER 0.022UF 25V X7R 0603
8	C1, C4, C5, C23, C32, C35, C37, C43, C47, C50, C52, C58, C60, C61	2.2µF	14	CAP CER 2.2UF 16V X5R 0603
9	C6-C10, C22, C25, C28, C30, C31, C34, C41, C45, C46, C49, C56	0.10µF	16	CAP CER 0.1UF 25V X7R 0603
11	L1	Z = 600ohm	1	FERRITE BEAD, 0.1OHM, 2A, 0805
12	L2	22uH	1	INDUCTOR 22UH 1.4A 175.5 MOHM
13	R7, R9-R11, R32-R34, R53	1k	8	RES SMD 1K OHM 1% 1/10W 0603
14	R8, R14	47K	2	RES SMD 47K OHM 1% 1/10W 0603
15	R15	220k	1	RES SMD 220K OHM 1% 1/10W 0603
16	R16, R21, R39	18k	3	RES SMD 18K OHM 1% 1/10W 0603
17	R1, R3, R26, R29, R44, R47	22R	6	RES SMD 22 OHM 1% 1/10W 0603
20	R20, R35, R50	3.3k	3	RES SMD 3.3K OHM 1% 1/10W 0603
22	R27, R28, R45, R46, R56	500uOhm	5	RES SMD 0.0005 OHM 1% 3W 2512
24	U7, J1, D1, D2		4	ANALOG DEVICES Current Sense Amplifier, Bidirectional, 1, 130 µA, NSOIC
26	XT1	8 MHz	1	Crystal 8MHz ±10ppm 10pF 200 Ohm -10°C ~ 60°C Surface Mount 4-SMD, No Lead (DFN, LCC)







Title		
Size	Number	Revision
A3		
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File:	D:\Thomas\...\MotorCell.SchDoc	Drawn By:



Title		
Size	Number	Revision
A3		
Date:	13/01/2017	Sheet of
File:	D:\Thomas\...\MotorCell_noPow.SchDoc	Drawn By:

