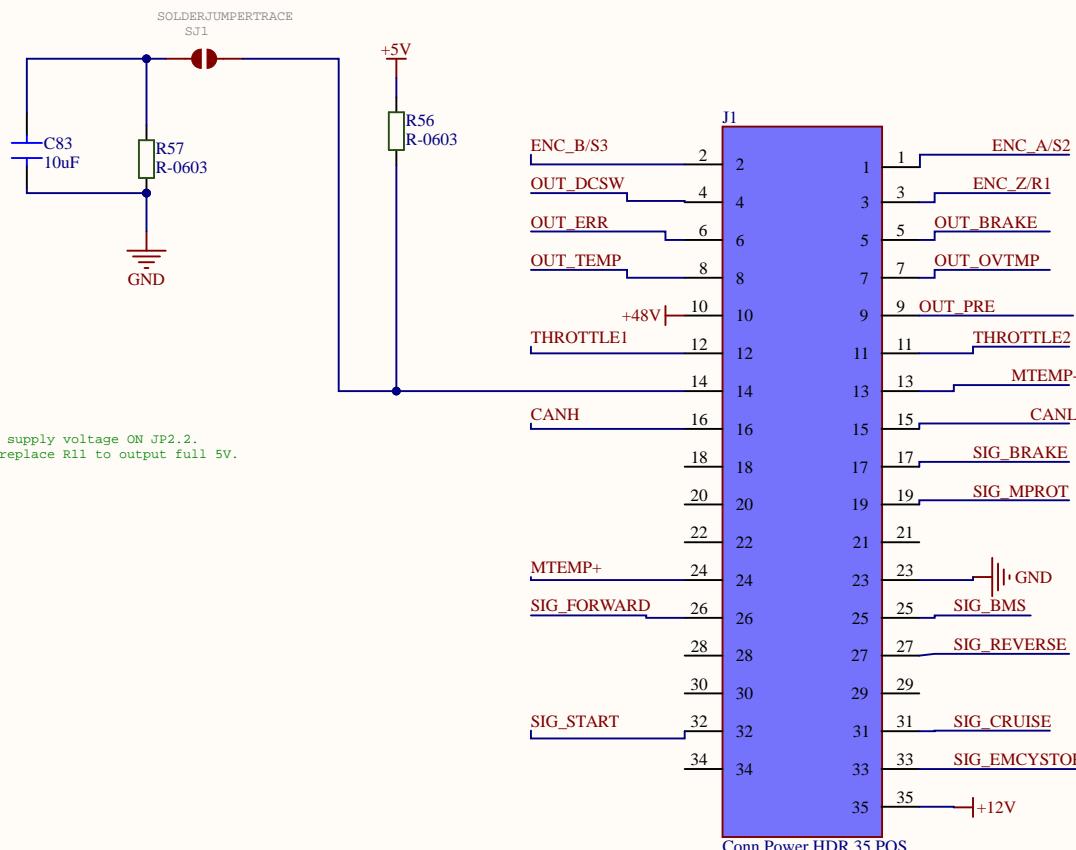


A

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External Header

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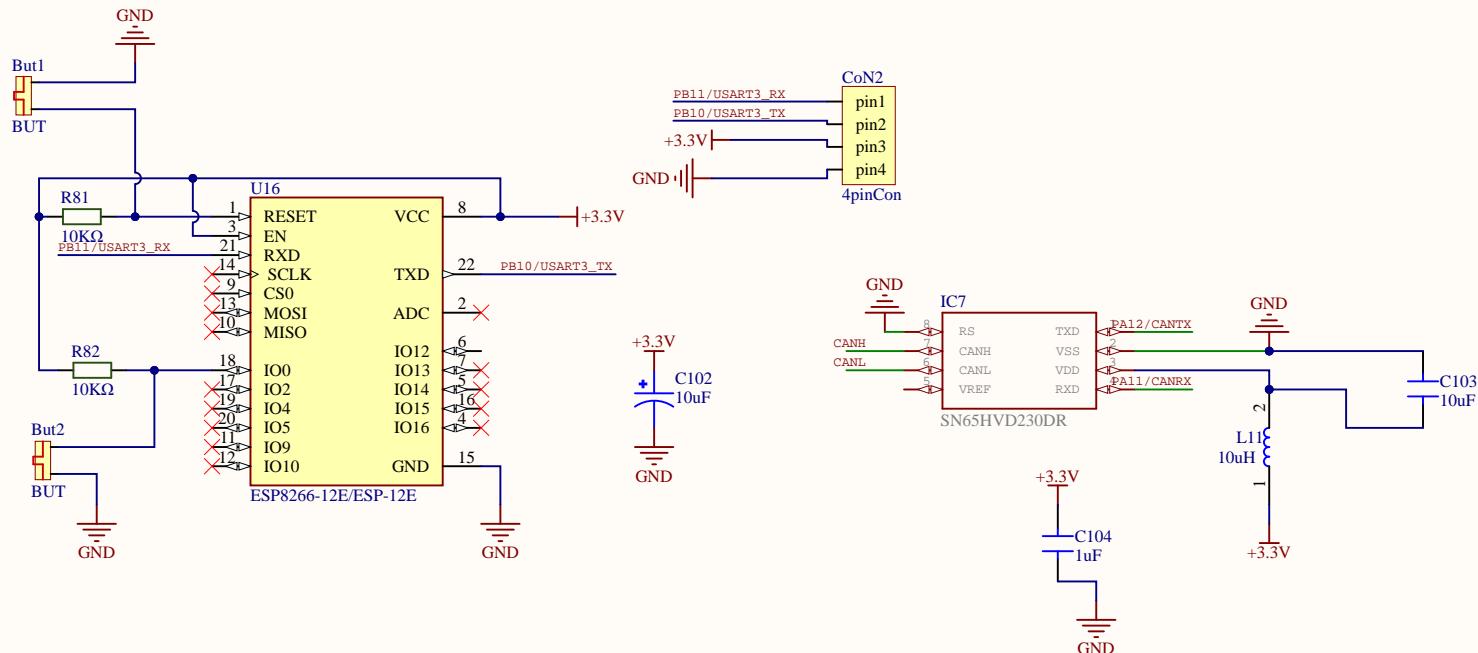
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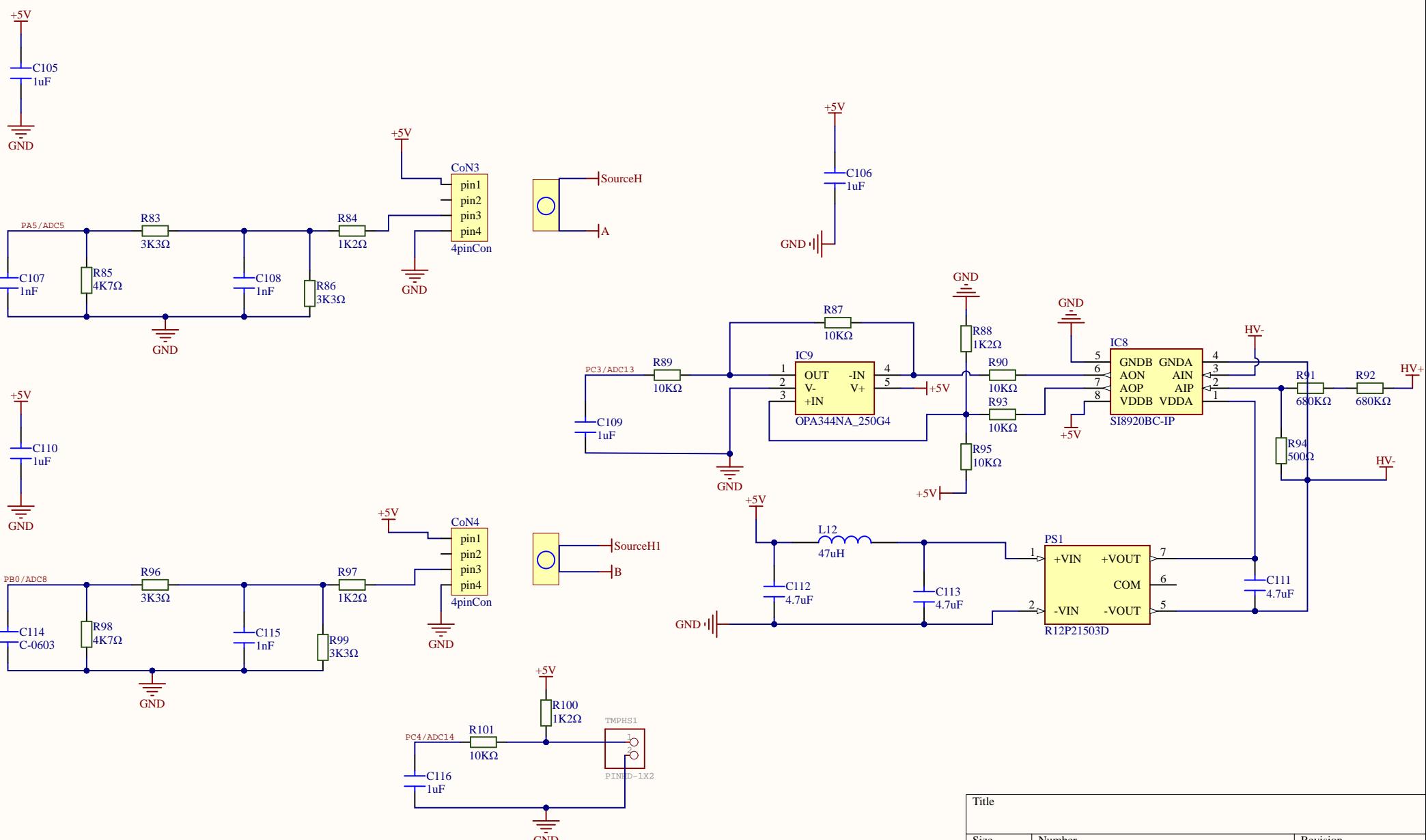
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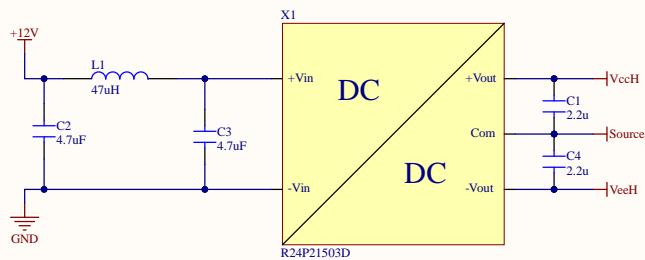
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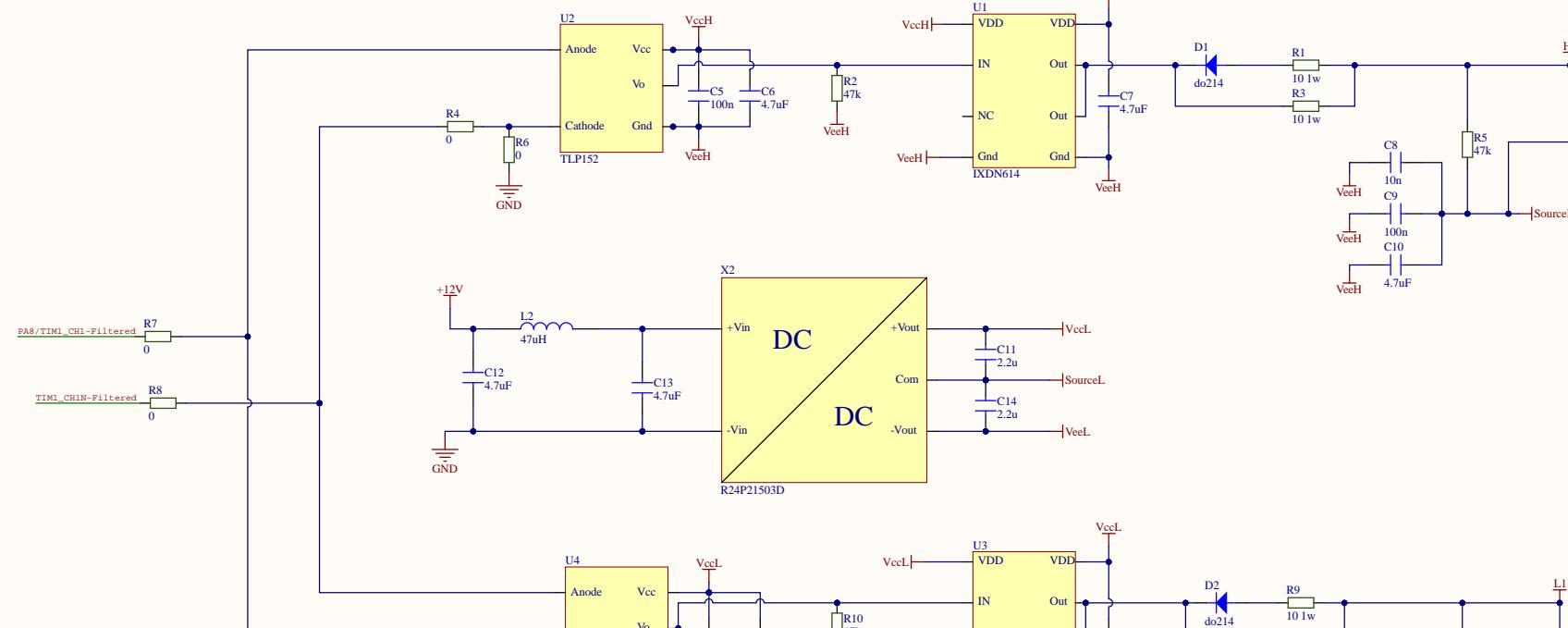
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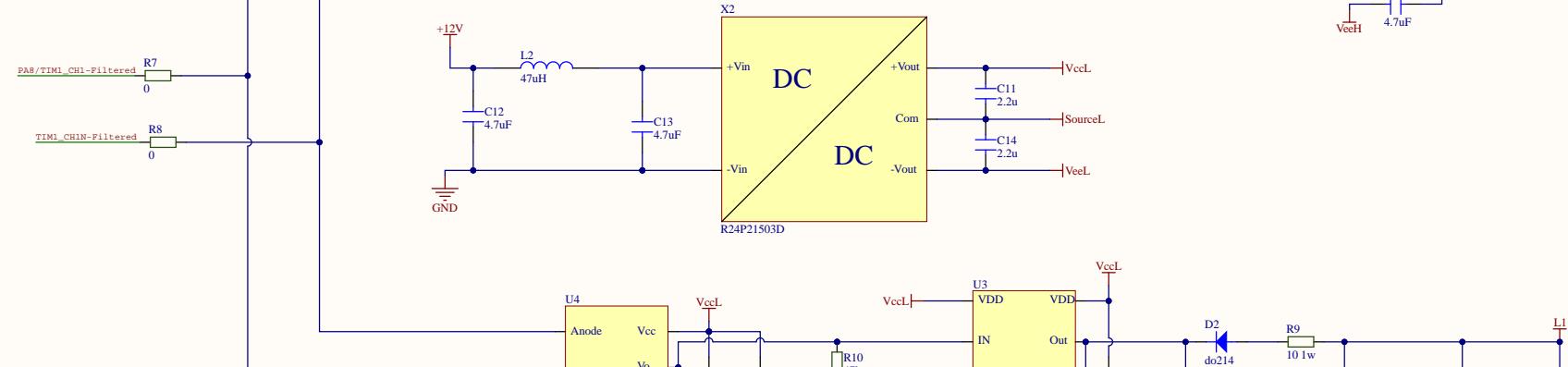
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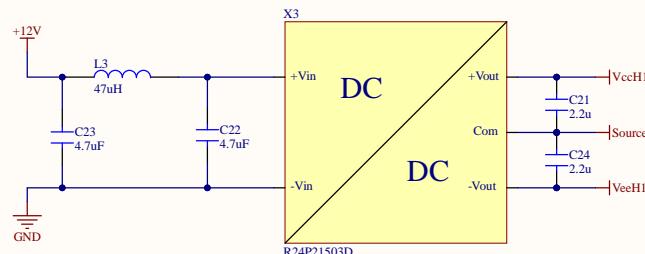


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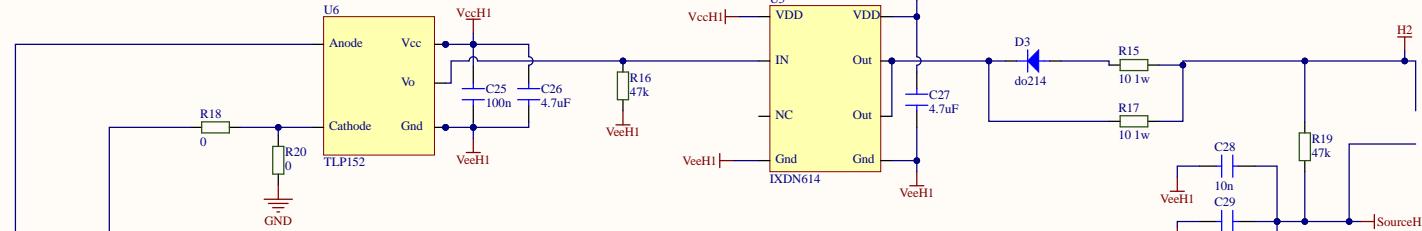
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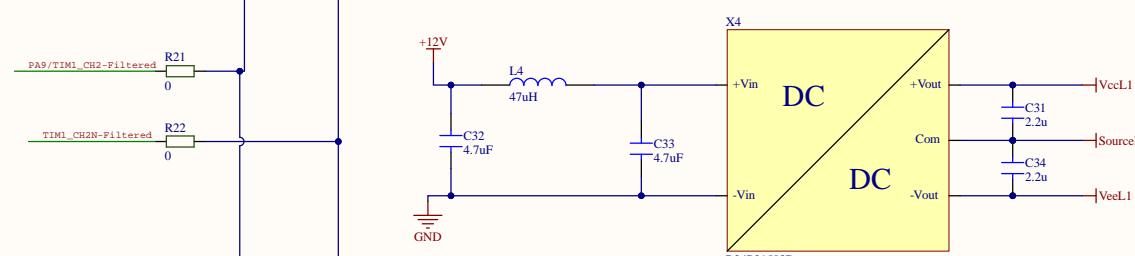
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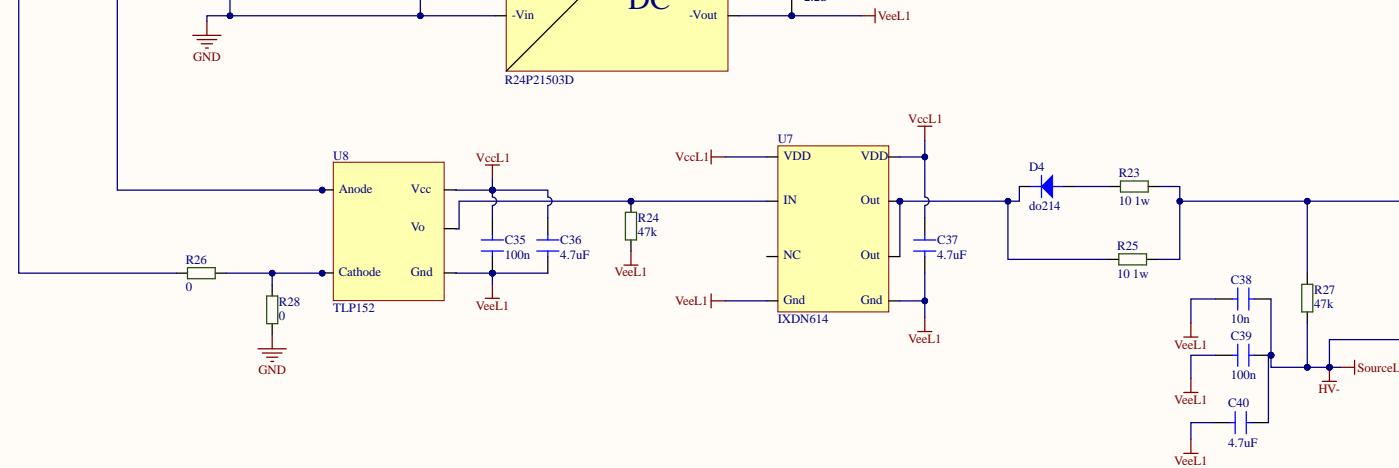
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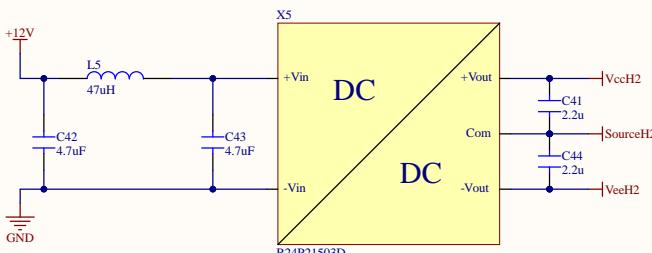
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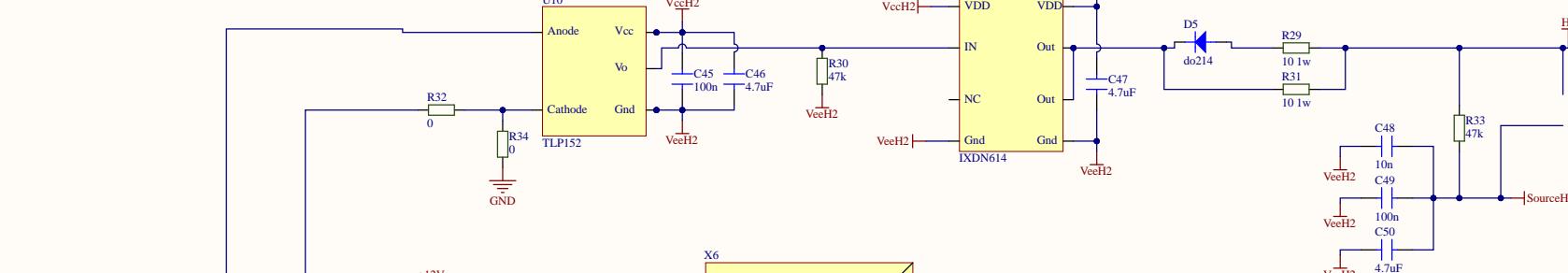
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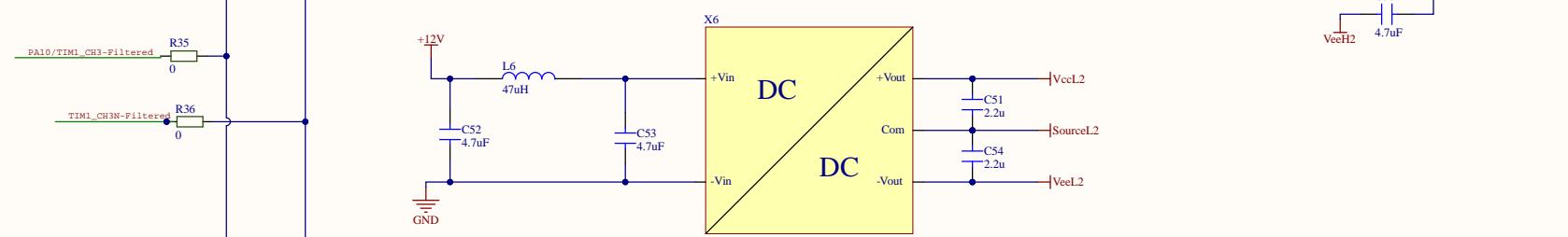
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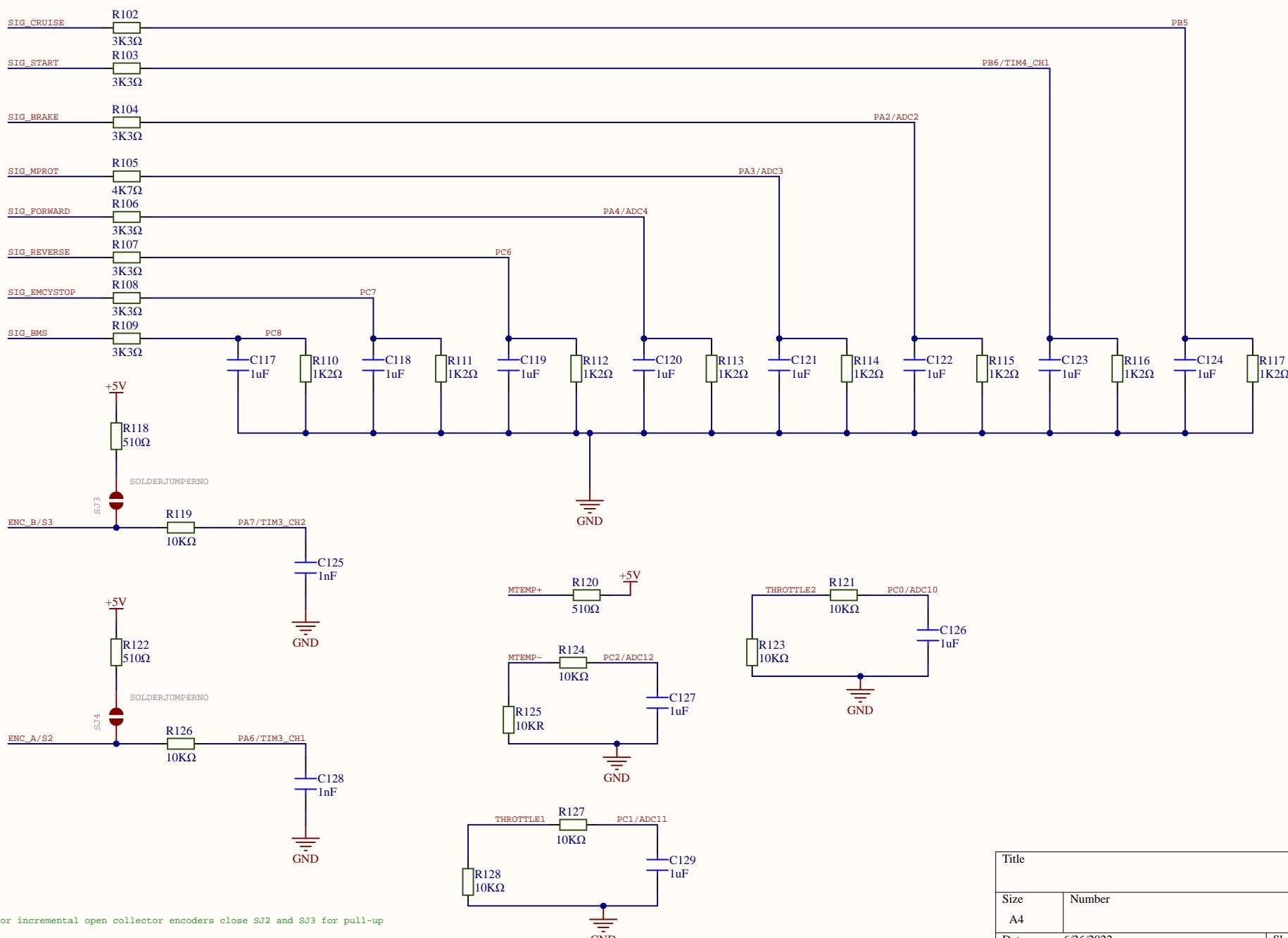


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Title		
Size	Number	Revision
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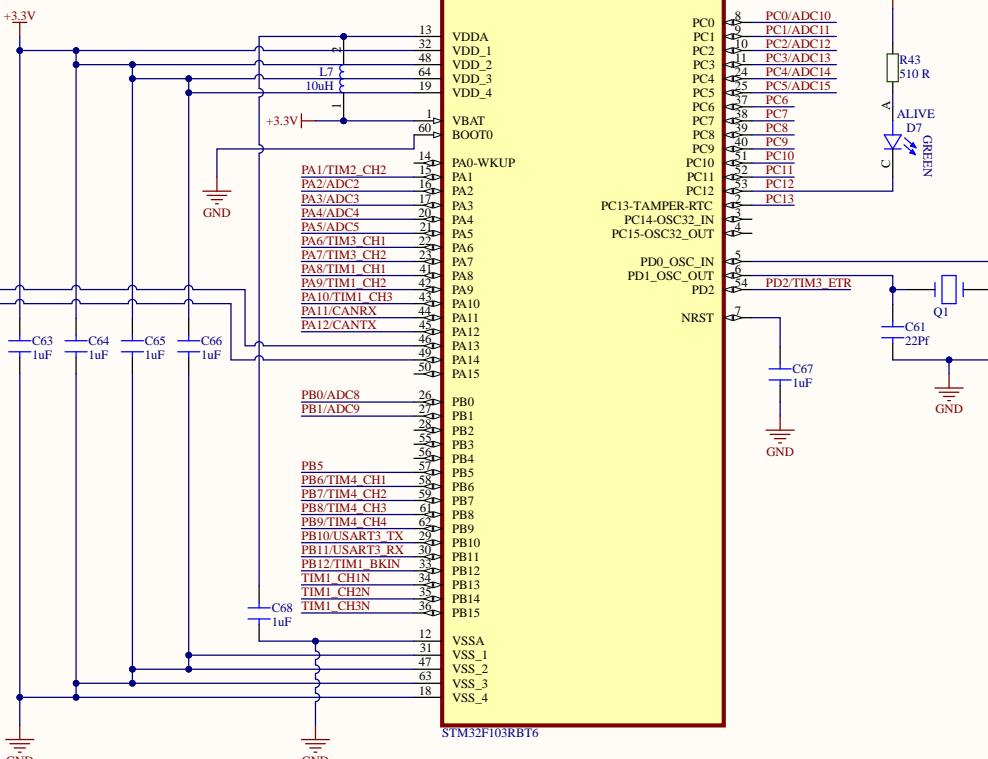
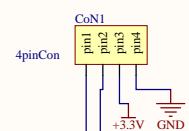
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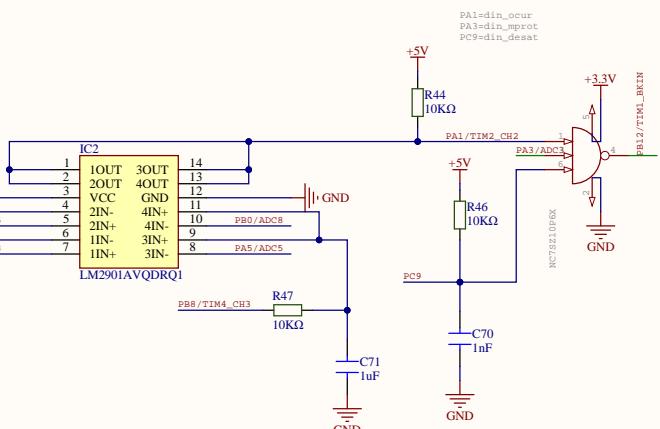
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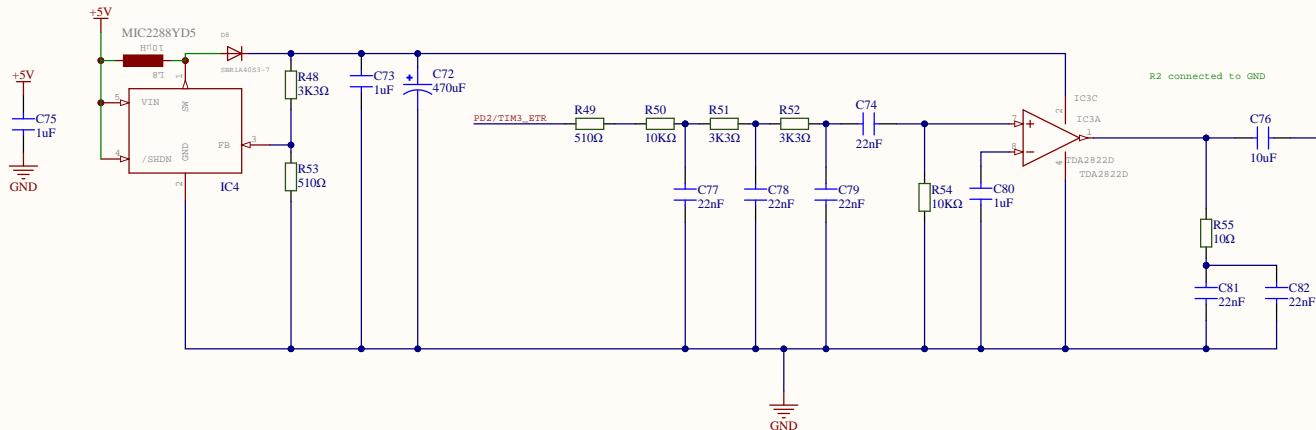
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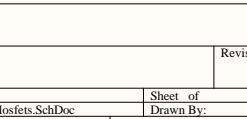
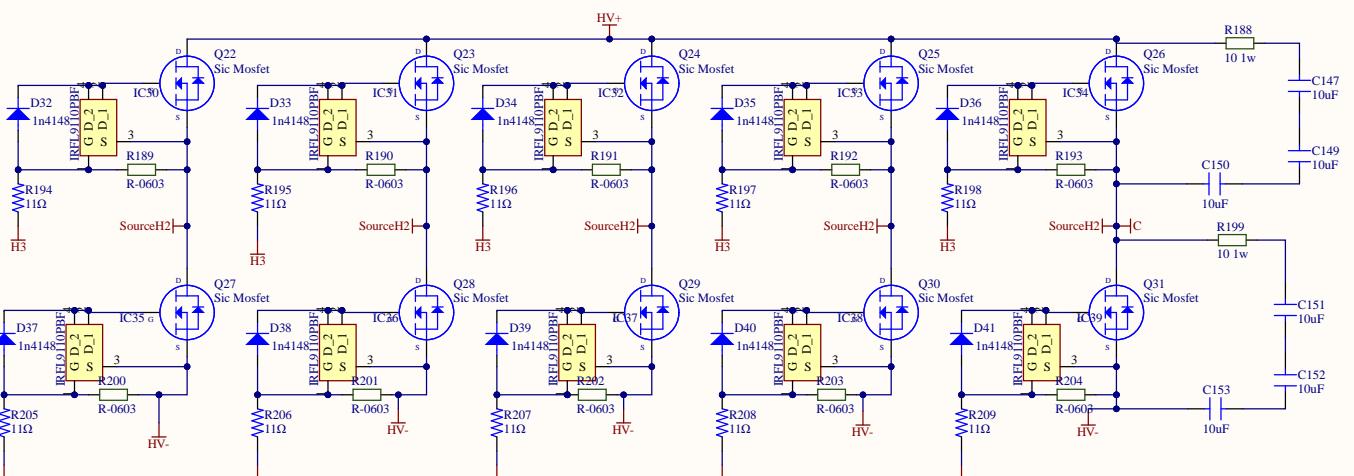
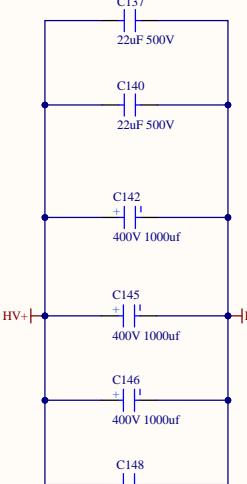
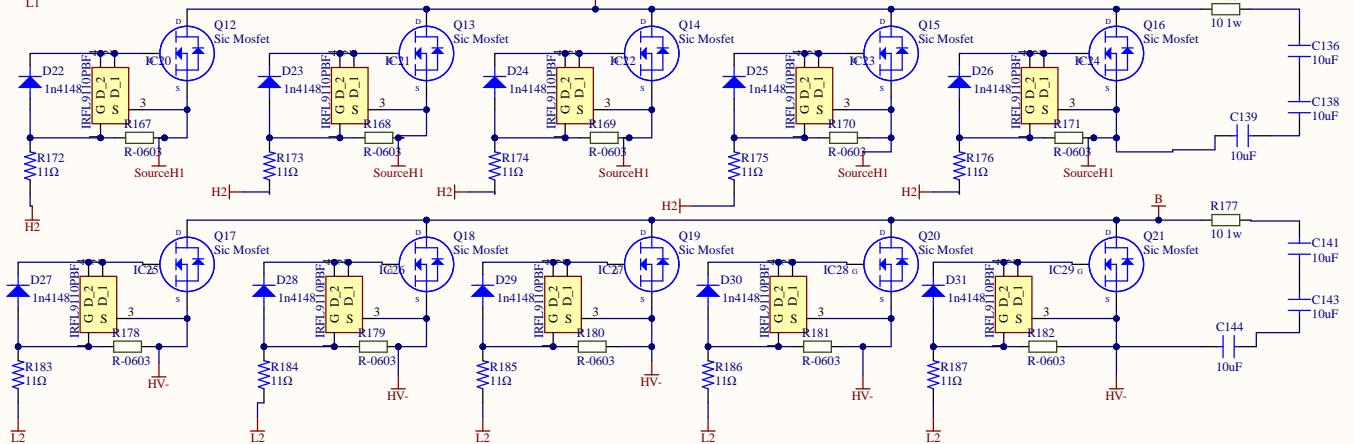
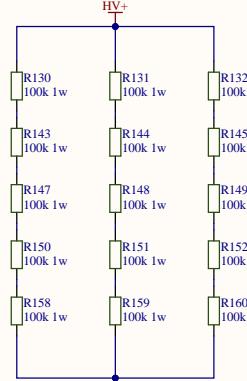
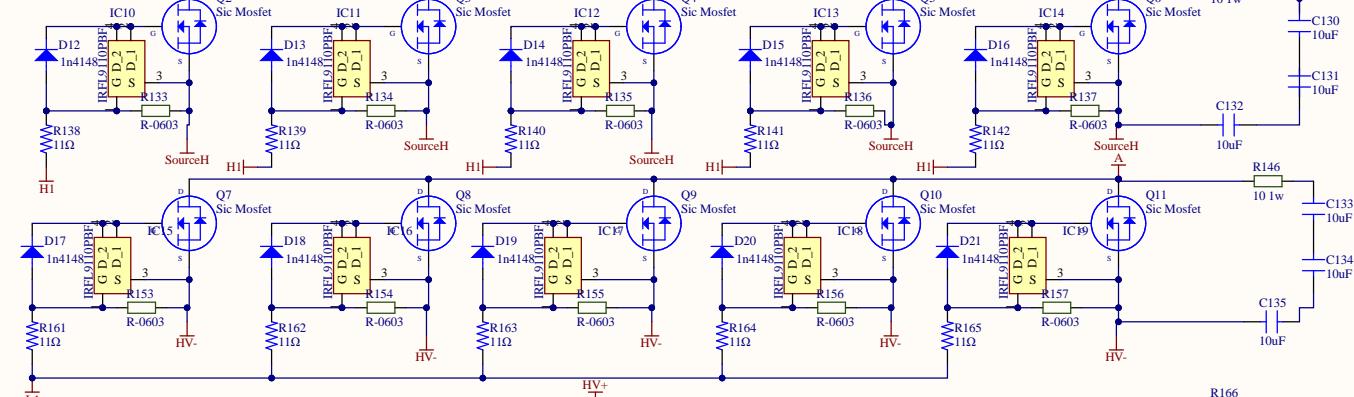


Over Current Protection & HW Shutdown



Resolver Excitation





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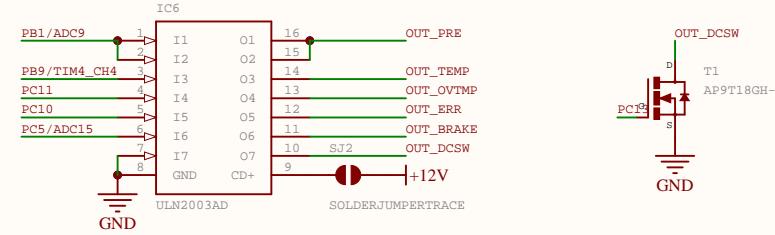
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Output driver



Title

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Revision

Date: 6/26/2022

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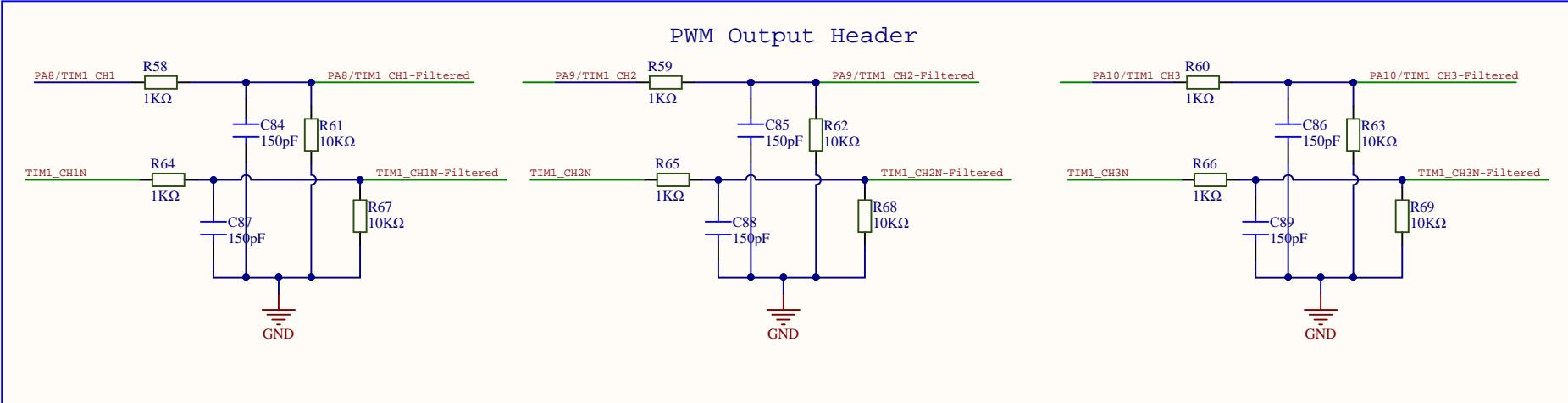
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PWM Output Header



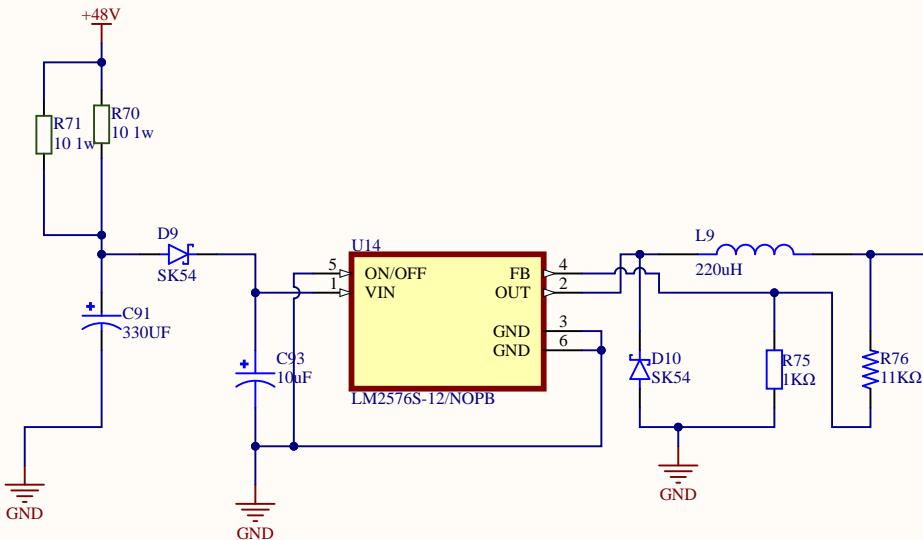
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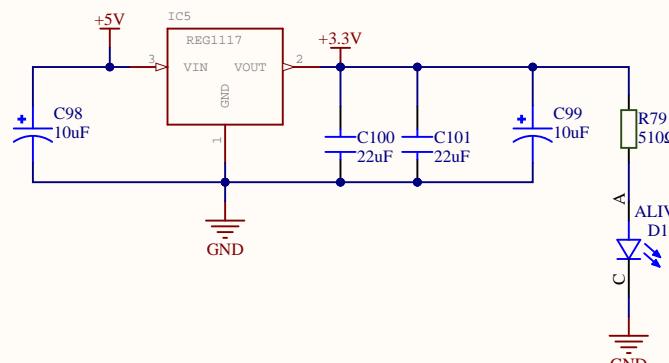
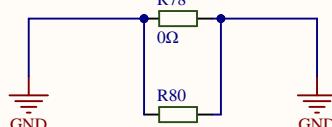
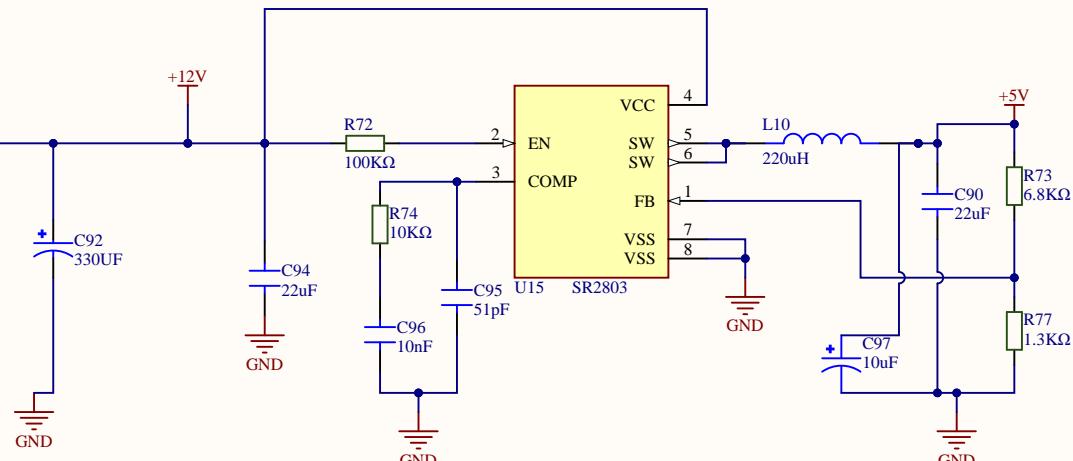
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Regulator



Title

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Revision

Date:

6/26/2022

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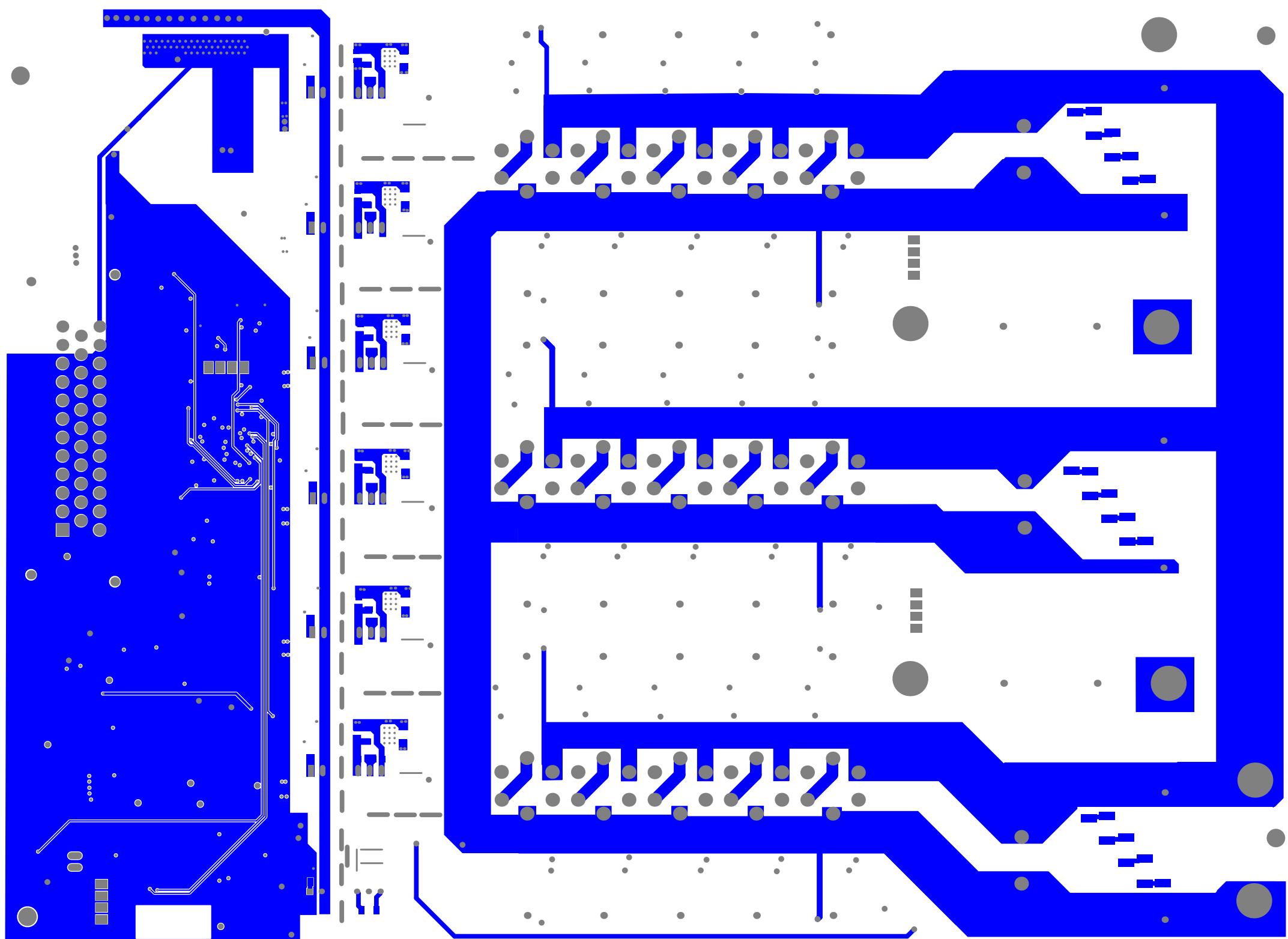
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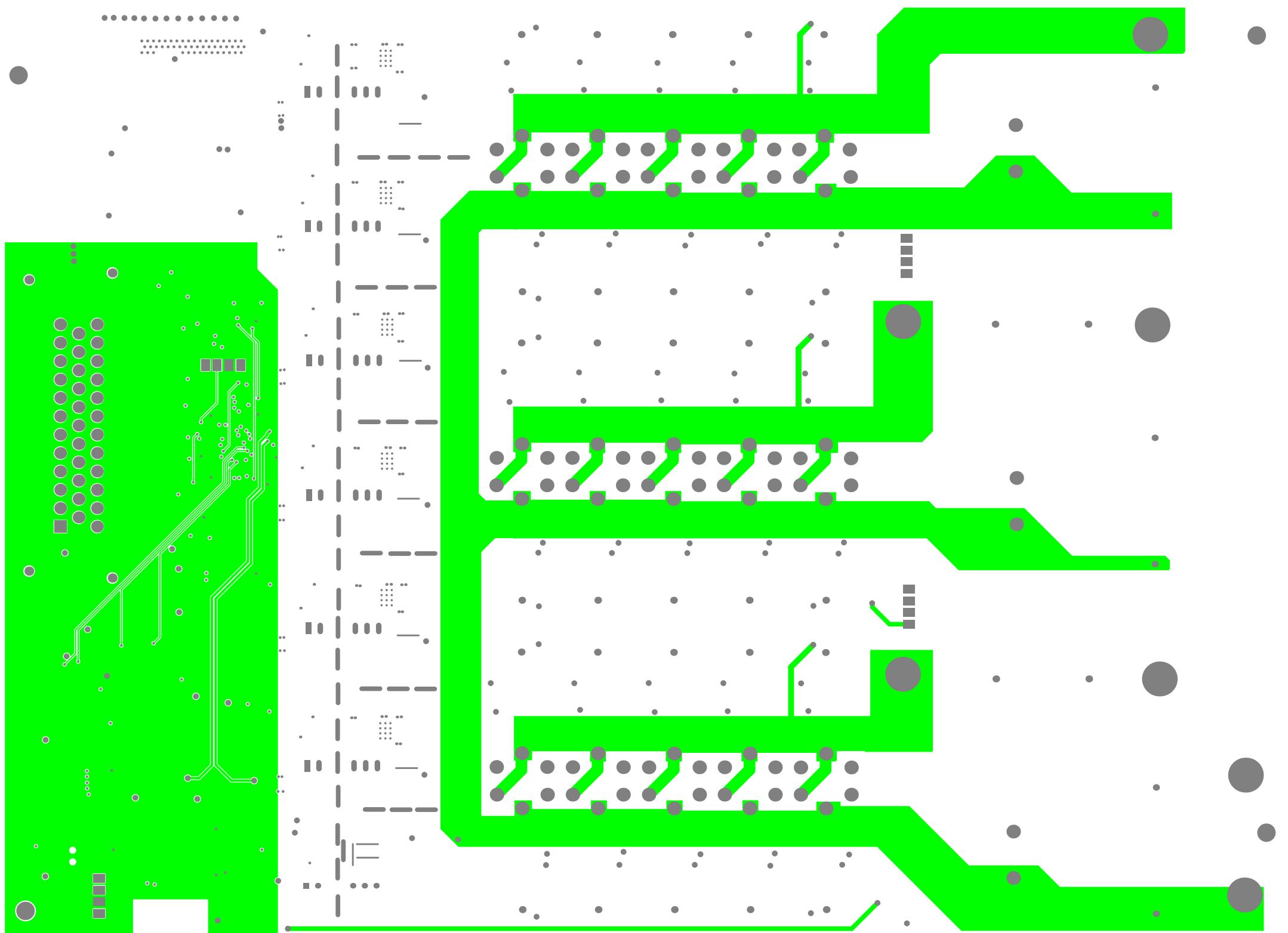
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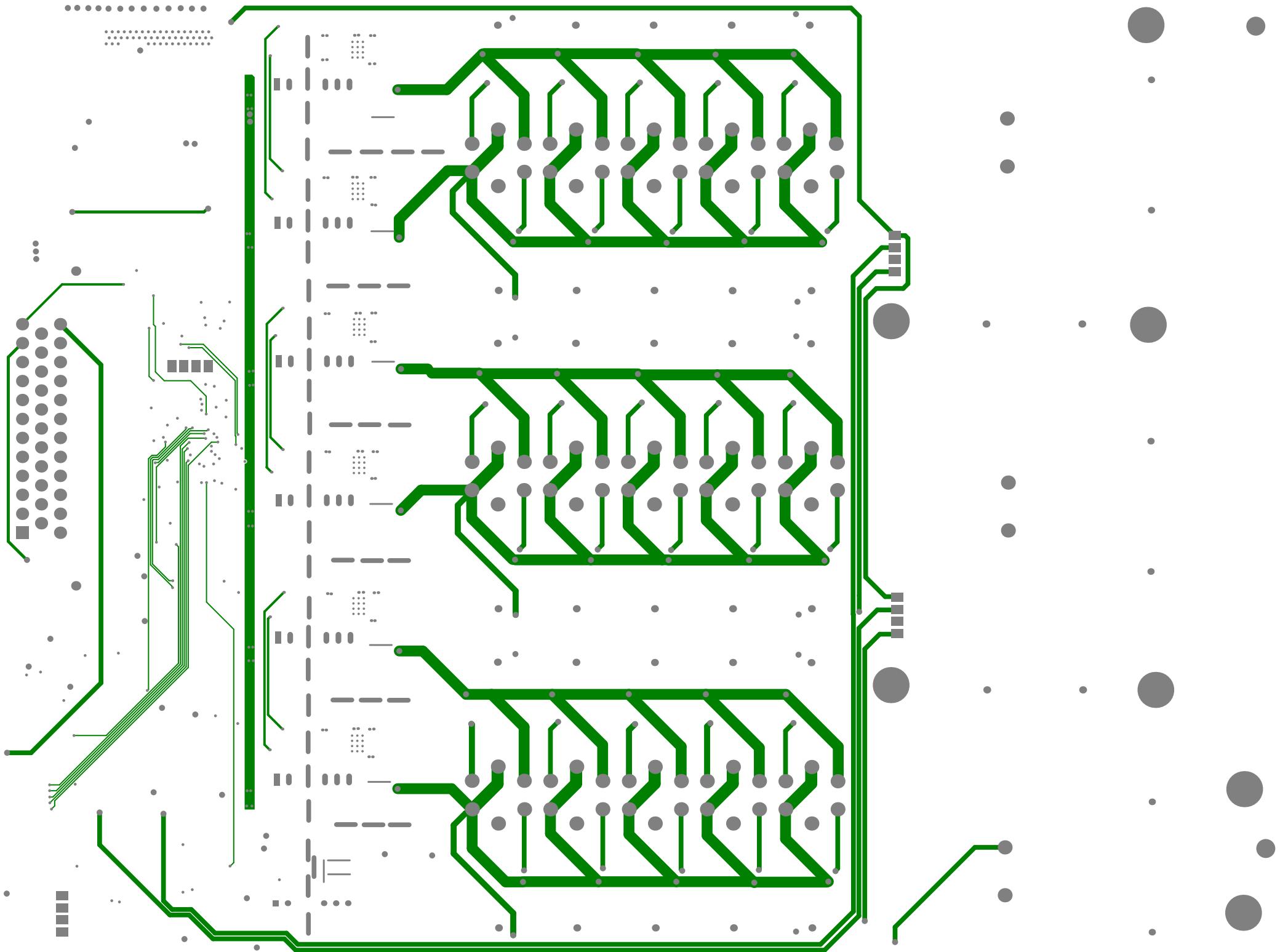
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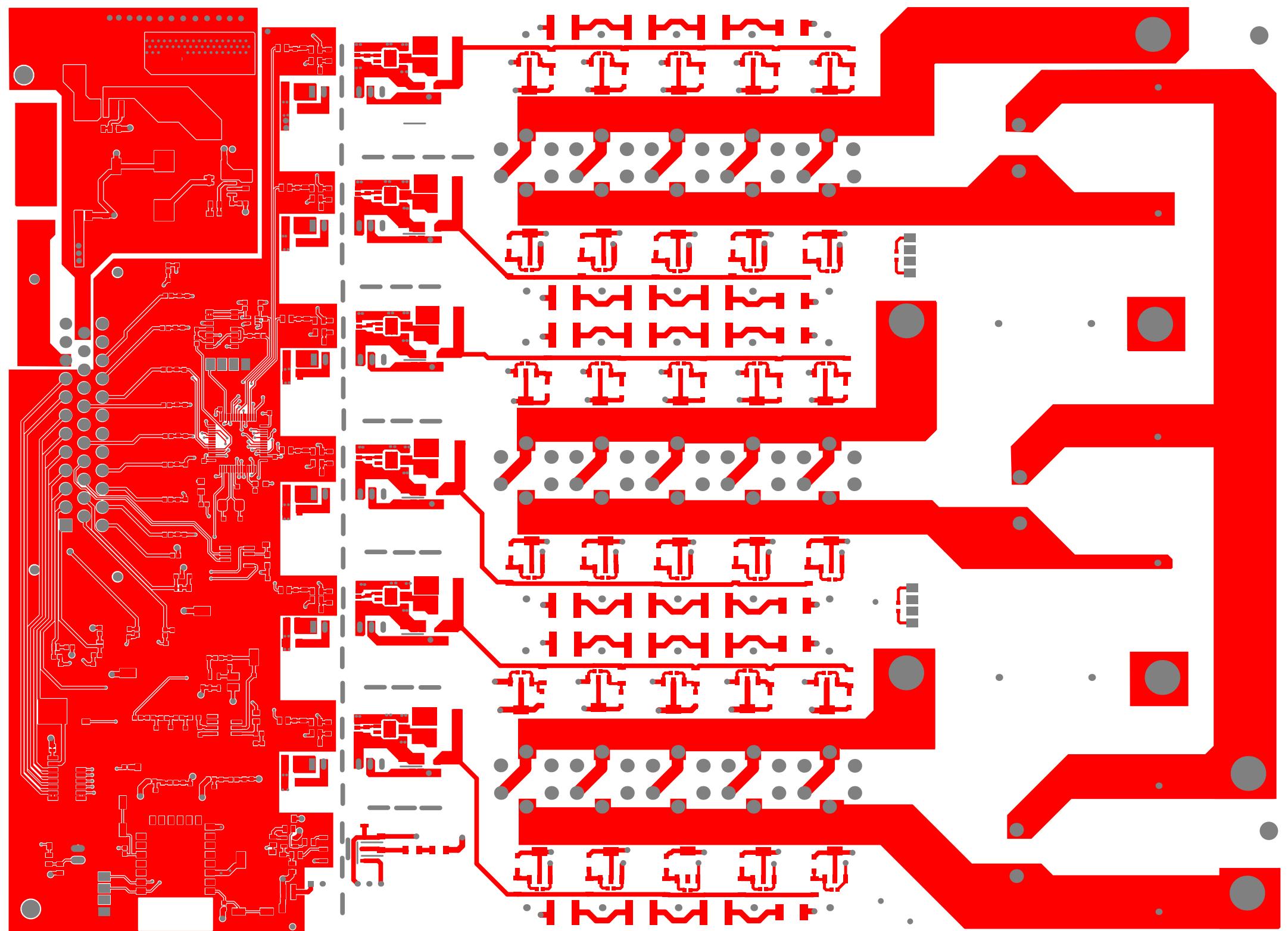
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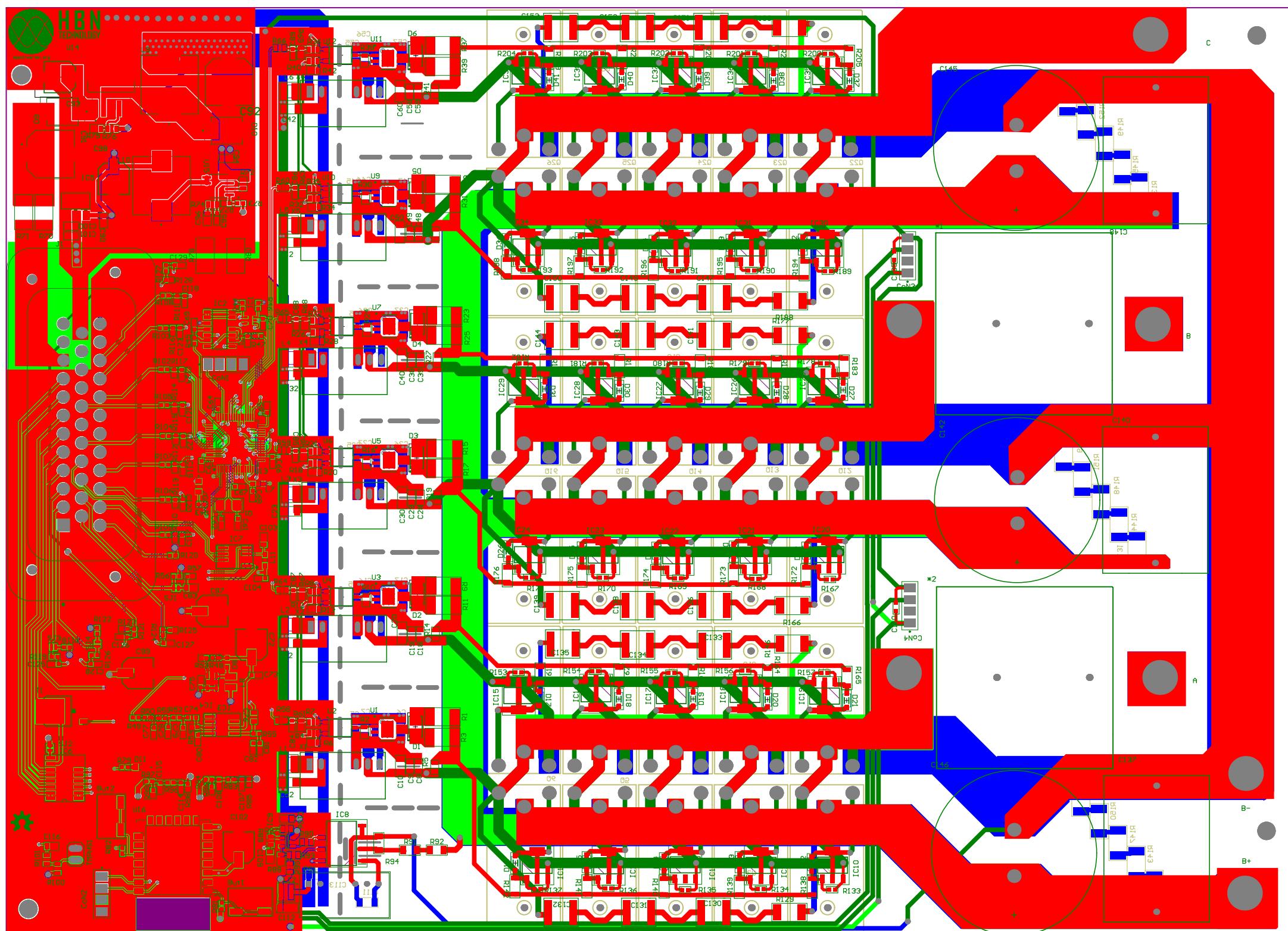
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Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
1	current transducer		'11, '21		Not managed		2							
1.2u			B2, B22		Not managed									
1.3u			C1, C4, C11, C14, C21, C31, C31, C34, C41, C44, C51, C54		Not managed		12							
4.7uF	Cap1206 4.7uF		C2, C3, C10, C12, C13, C20, C22, C23, C30, C32, C33, C40, C42, C43, C50, C52, C53, C60, C112, C113		Not managed		20							
100n			C5, C9, C15, C19, C25, C29, C35, C39, C45, C49, C55, C59		Not managed		12							
4.7uF	Cap1206 4.7uF		C6, C7, C16, C17, C26, C27, C36, C37, C46, C47, C56, C57		Not managed		12							
10n			C8, C18, C28, C38, C46, C58		Not managed		6							
22pH			C9		Not managed		2							
1uF			C63, C64, C65, C46, C57, C58, C66, C71, C73, C75, C80, C104, C105, C110, C117, C118, C119, C120, C121, C122, C123, C124, C125, C127, C129		Not managed		25							
1nf			C70, C107, C108, C115, C125, C128		Not managed		6							
470uF			C72		Not managed		1							
22nF			C74, C77, C78, C79, C81, C82		Not managed		6							
1uF			C84, C85, C86, C87, C88, C89		Not managed		6							
22uF			C90, C94, C100, C101		Not managed		4							
330uF	CAP ALUM 330uF 20% 16V SMD		C91, C92		Not managed		2							
10uF			C93, C97, C98, C99, C102		Not managed		5							
10uF			C99		Not managed		1							
10uF			C106, C109, C116		Not managed		3							
4.7uF			C111		Not managed		1							
C-0603			C114		Not managed		1							
10uF	2220		C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C127, C129		Not managed		18							
2200 500V			C127, C128		Not managed		3							
600V 1000uF			C142, C145, C146		Not managed		3	Nichicon	LKS1472M/SZ	Volume Production	Mouser	647-LKS1472M/SZ		
4pinCon			CoN1, CoN2, CoN3, CoN4		Not managed		4							
dc0214	DIODE FAST SWITCHING Single 150mA 75V SMT SOD323	D1, D2, D3, D4, D5, D6			Not managed		6							
ALIVE	Green LED Indication - Discrete 1.7V 0805 (2012 Metric)	D7, D11			Not managed		2							
Diode-Schottky 40V 5A Surface Mount DO-214AA (SMD)														
1n4148	Diode Small Signal Switching 100V 0.15A 2-Pin SOD-123 T/R	D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34,	D9, D10		Not managed		2							
NC75210PDX	3-Input NAND gate	IC1			Not managed		1							
LM324N-ND	Integrated Circuit	IC2			Not managed		1							
TA74S22D	OP-AMP	IC3			Not managed		1							
MC2289YD		IC4			Not managed		1							
REG1117	800mA and 1A Low Dropout (LDO) Positive Regulator 1.8V, 2.5V, 2.85V, 3.3V, 5V, and Adj	IC5			Not managed		1							
UN1203AD	DRIVER ARRAY	IC6			Not managed		1							
LM324N-ND	Op-Amp	IC7			Not managed		1							
S8970C-IP	Integrated Circuit	IC8			Not managed		1							
OPA344NA_25004	Integrated Circuit	IC9			Not managed		1							
IRFL9110PBF	Integrated Circuit	IC10, IC11, IC12, IC13, IC14, IC15, IC16, IC17, IC18, IC19, IC20, IC21, IC22, IC23, IC24, IC25, IC26, IC27, IC28, IC29, IC30, IC31, IC32, IC33, IC34, IC35, IC36, IC37, IC38, IC39			Not managed		30							
Conn Power HDR 35 POS	Conn Power HDR 35 POS 4mm Solder ST Thru-Hole 35 Terminal 1 Part Automotive Looose	J1			Not managed		1							
4.7uH		J1, L1, L2, L3, L4, L5, L6, L7, L12			Not managed		7							
10uH	FIXED IND 10uH 300MA 800MHZ	J7, L11			Not managed		2							
INDUCTOR European symbol		L8			Not managed		1							
220uH	Inductor Power Shielded Wirewound 220uH 20% 100KHz Ferrite 1.0A 0.250mm DCR 5049 Automotive 1/R	L9, L10			Not managed		2							
R12P21503D	2W DC/DC Converter ECONOLINE SIP 7.0x4.4mm	PS1			Not managed		1							
Crystal 8MHz	32MHz As20ppm Crystal 18pf 40 Ohms HC-49/U	Q1			Not managed		1							
Sic Mosfet	Sic Mosfet Toz47	Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31			Not managed		30							
10Jw	R 2512 10R 1W	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R20, R21, R22, R26, R28, R32, R34, R35, R36, R40, R42			Not managed		8							
0.7k	Res0805 0.7k	R2, R5, R8, R14			Not managed		4							
0	Res0805 0R	R4, R6, R7, R8, R12, R13, R18, R20, R21, R22, R26, R28, R32, R34, R35, R36, R40, R42			Not managed		18							
47k	R15.(2012) 0805 47k Ohms 5% 1W 80PPM	R1, R19, R24, R27, R30, R33, R38, R41			Not managed		8							
10Jw	R19	R29, R31, R32, R37, R39, R70, R71, R72, R146, R166, R177, R188, R199			Not managed		12							
1.6k		R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40			Not managed		1							
10kO		R44, R45, R46, R47, R50, R54, R81, R82, R119, R121, R122, R124, R126, R127, R128			Not managed		15							
93kO		R48, R51, R52, R83, R96, R99, R102, R103, R104, R105, R107, R108, R109			Not managed		14							
5100		R49, R53, R79, R118, R120, R122			Not managed		6							
100		R55			Not managed		1							
R-0603		R56, R57, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R170, R171, R172, R179, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R200, R201, R202, R203, R204			Not managed		32							
SKO		R58, R59, R60, R64, R65, R66			Not managed		6							
10kO		R61, R62, R63, R67, R68, R69, R74, R87, R89, R90, R93, R95, R101			Not managed		13							
100kO		R72			Not managed		1							
6.8kO		R73			Not managed		1							
1.6k OHM 0.125W 1.6W Chip Resistor 0805 (2012 Metric) Melamine Resistant Thick Film		R75			Not managed		1							
1.1kO	THICK FILM RESISTOR, 11kOHM, 125mW, 5%	R76			Not managed		1							
1.3kO		R77			Not managed		1							
0	10Jw	R78, R80			Not managed		2							
TC2D		R84, R97, R110, R111, R112, R113, R114, R115, R116, R117			Not managed		10							
TC2D		R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128			Not managed		3							
TC2D		R129			Not managed		2							
6800K	Res1206	R91, R92			Not managed		2							
5000	Res1206	R94			Not managed		1							
10k		R125			Not managed		1							
10k 1w	10Jw	R126, R127, R128, R129, R130, R131, R132, R142, R144, R145, R147, R148, R149, R150, R151, R152, R158, R159, R160			Not managed		15							
110	CRG1206 1% 11R	R138, R139, R140, R141, R142, R143, R145, R146, R147, R148, R149, R150, R151, R152, R158, R159, R160, R187, R194, R195, R196, R197, R198, R209, R209, R209, R209			Not managed		30							
SOLDERJUMPERTRACE	Solder Jumper Standard SMD solder jumper. Used to automate production. Two variants - Normally Open and Normally Closed are the same, but have different paste layers. NC will have a large amount of paste and should jumper during reflow.	S1			Not managed		1							
SOLDERJUMPERTRACE	Solder Jumper Standard SMD solder jumper. Used to automate production. Two variants - Normally Open and Normally Closed are the same, but have different paste layers. NC will have a large amount of paste and should jumper during reflow.	S2			Not managed		1							
SOLDERJUMPERNO	Solder Jumper Standard SMD solder jumper. Used to automate production. Two variants - Normally Open and Normally Closed are the same, but have different paste layers. NC will have a large amount of paste and should jumper during reflow.	S3, S4			Not managed		2							
AP918GH-4WF		T1			Not managed		1							
PIN1ID-142	PIN HEADER	TMPIHS1			Not managed		1							
IDN614	14A 850IC EXP MT1 NON INVERTING	U1, U3, U5, U7, U9, U11			Not managed		6	Ikeyz Clare	IDN614SITR	Volume Production	Mouser	B49-IDN614SITR		
TL1P152	OPTIO503.3 75VKE CAFE DRIVER 650-5	U2, U4, U6, U8, U10, U12			Not managed		6	Toshiba	TL1P152TLE	Volume Production	Mouser	757-TLP152TLE		
STM32F103RB16	ARM® Cortex®-M3 STM32F1 Microcontroller IC 32-Bit 72MHz 128KBx128KB x 8 FLASH	U3			Not managed		1							
LM2576S-12/NOPB	SIMPLE SWITCHER-Kreig 40V, 3A Low Component Count Step-Down Regulator 5-DOPPAK-TO-263-40 to 125	U4			Not managed		1							
SR2803	330kOHM 3A SYNCHRONOUS Buck converter	U5			Not managed		1							
ESPB266-12E/ESB-12E	This WIC module has a 32 bit MCPU micro and clock speeds supporting 80 MHz or 160 MHz. Supports the RTOS and integrated Wi-Fi MAC/BB/RF/P/LNA, and has an on-board antenna.	U6			Not managed		1							
R24P21503D	X1, X2, X3, X4, X5, X6				Not managed		6	Recom	R24P21503D	Digi-Key	945-30715-ND			