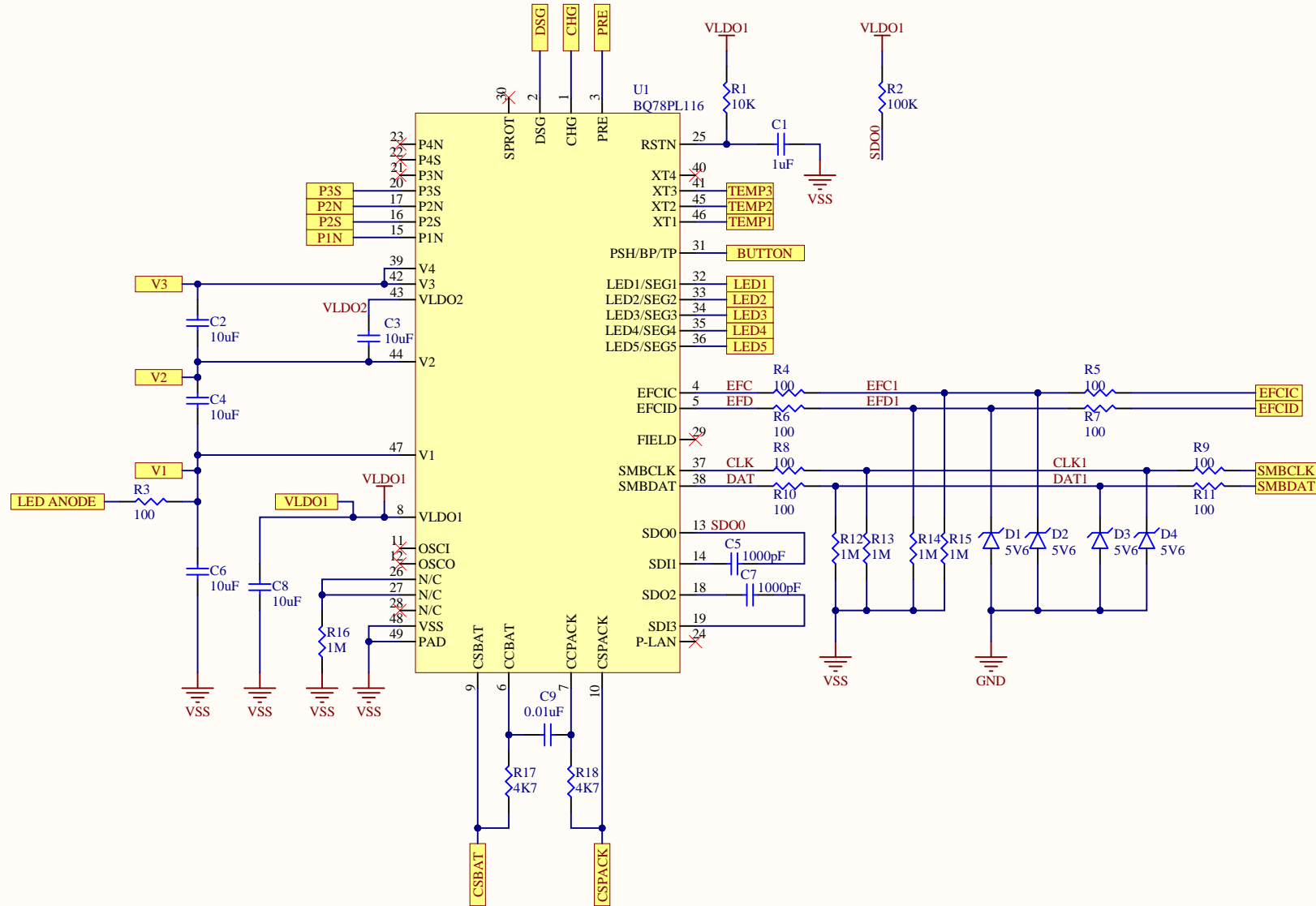
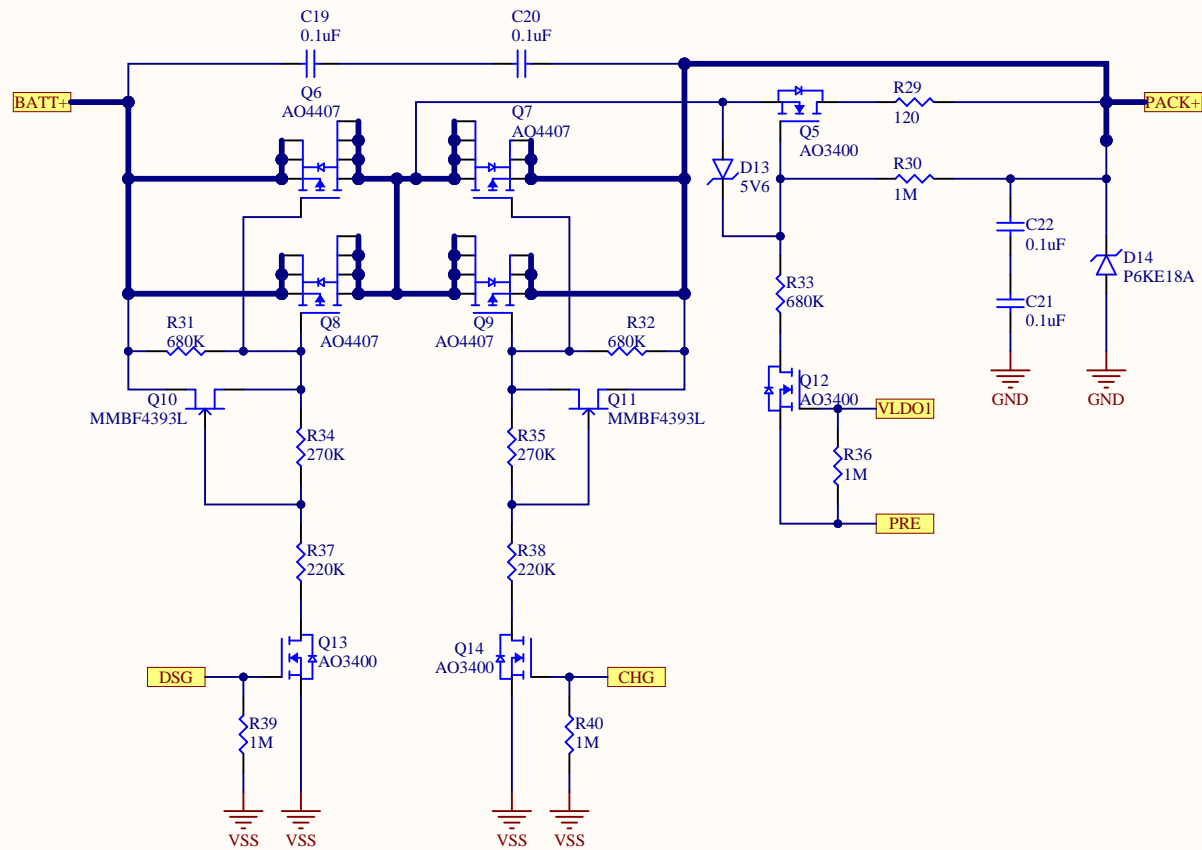
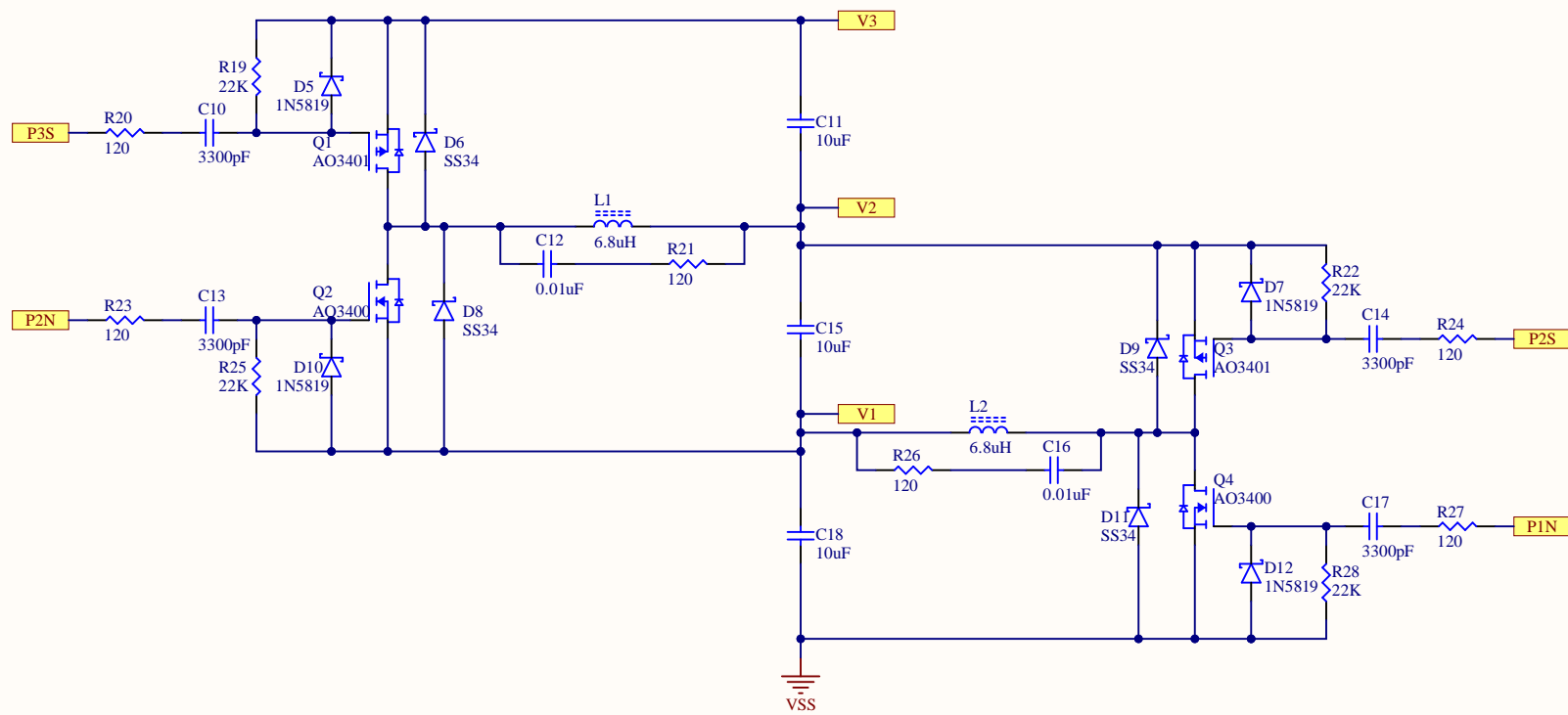


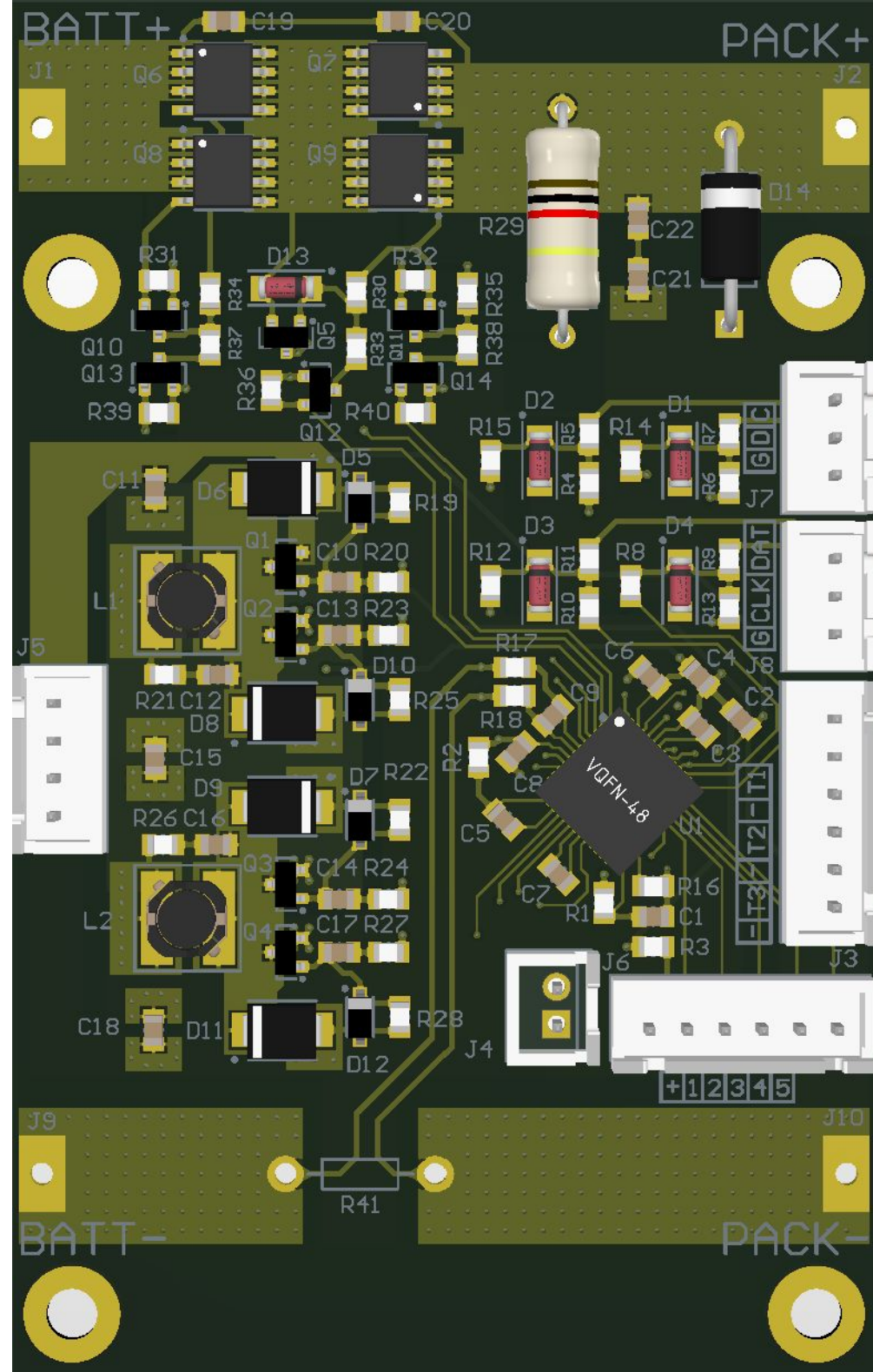
Project:	bq78pl116 BMS.PrjPcb	Variant:	[No Variations]
Page Contents:	BMS Schematic.SchDoc	Size:	A4
Date:	21/01/2023	Sheet	1 of 4

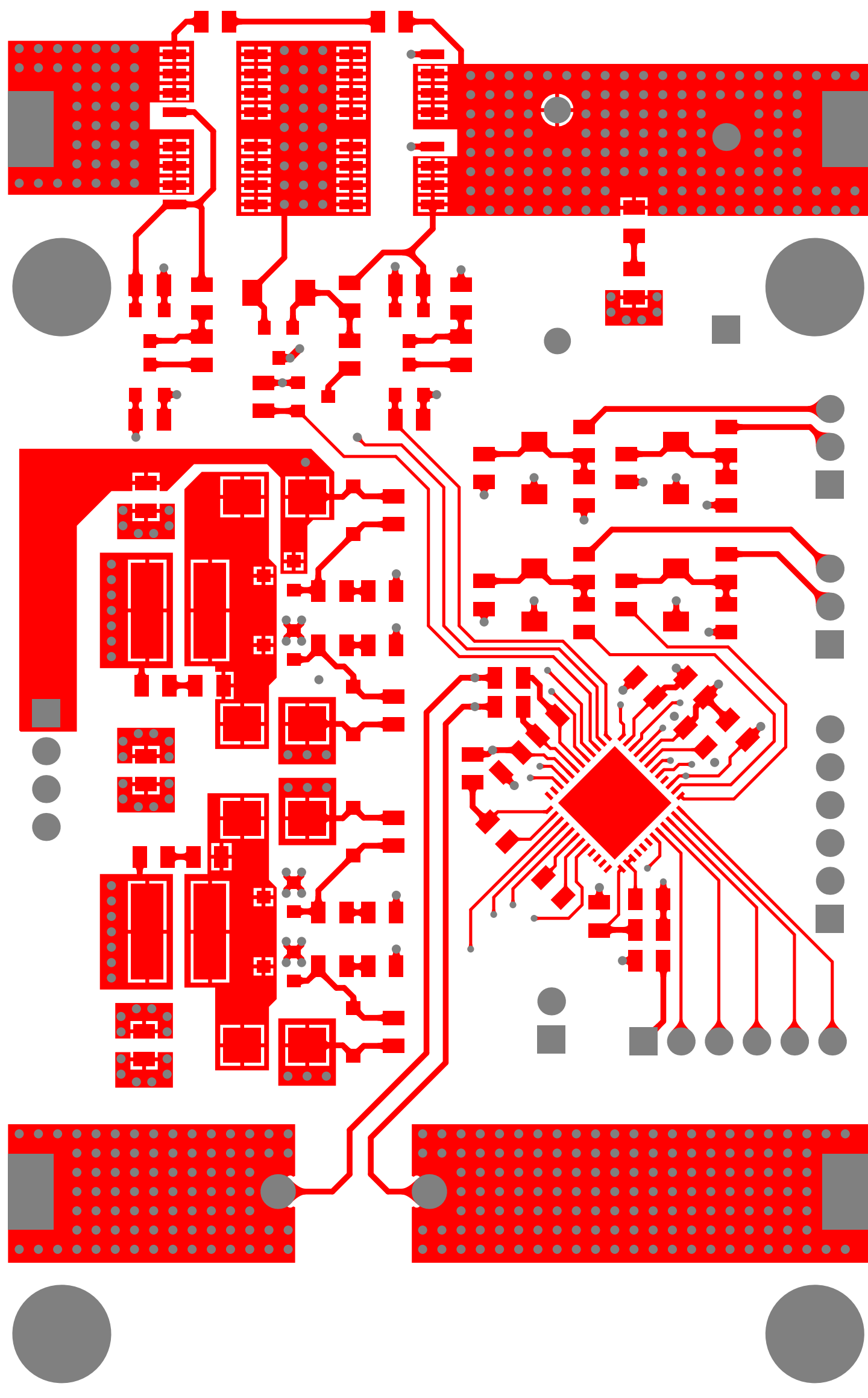


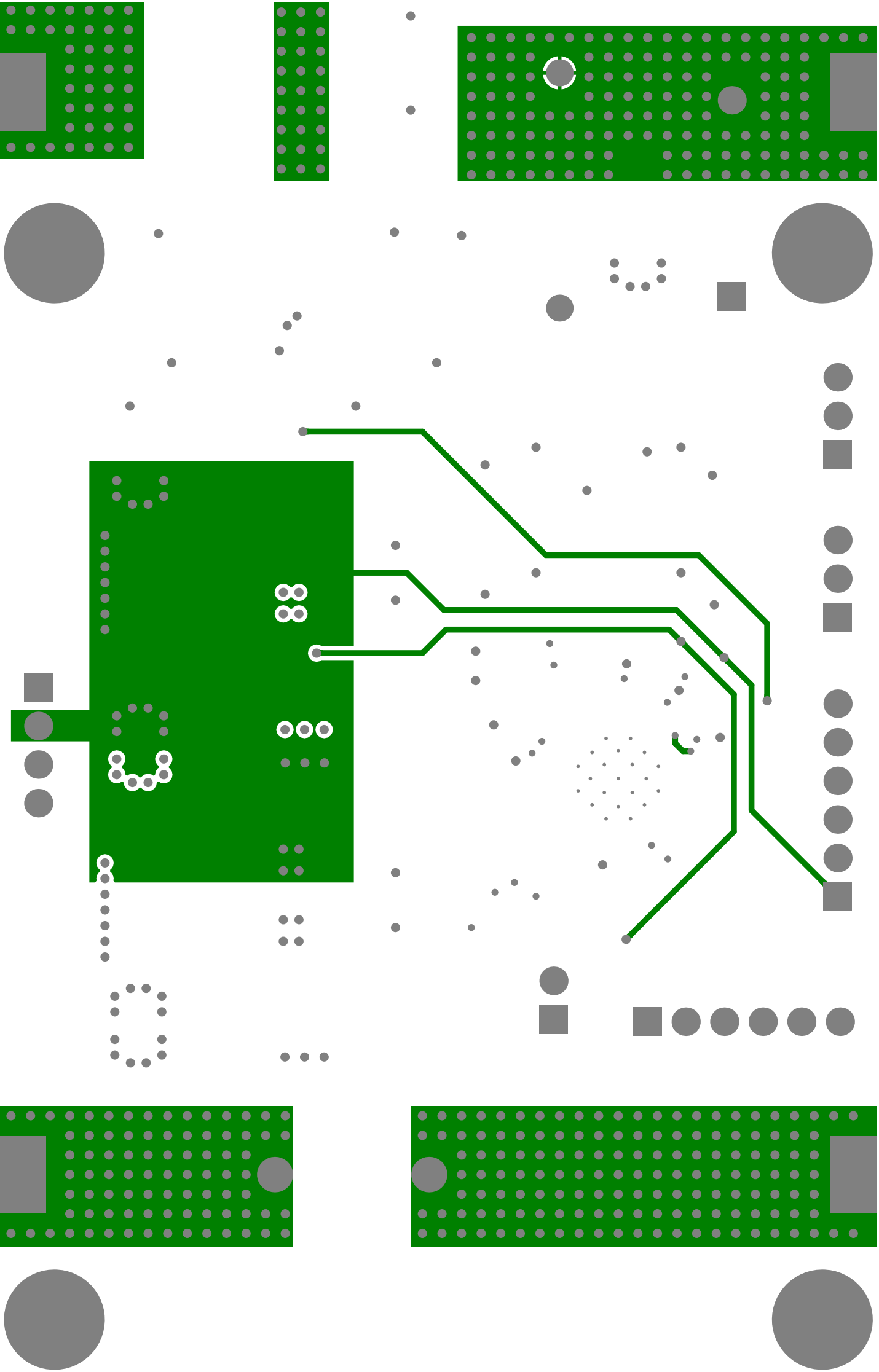


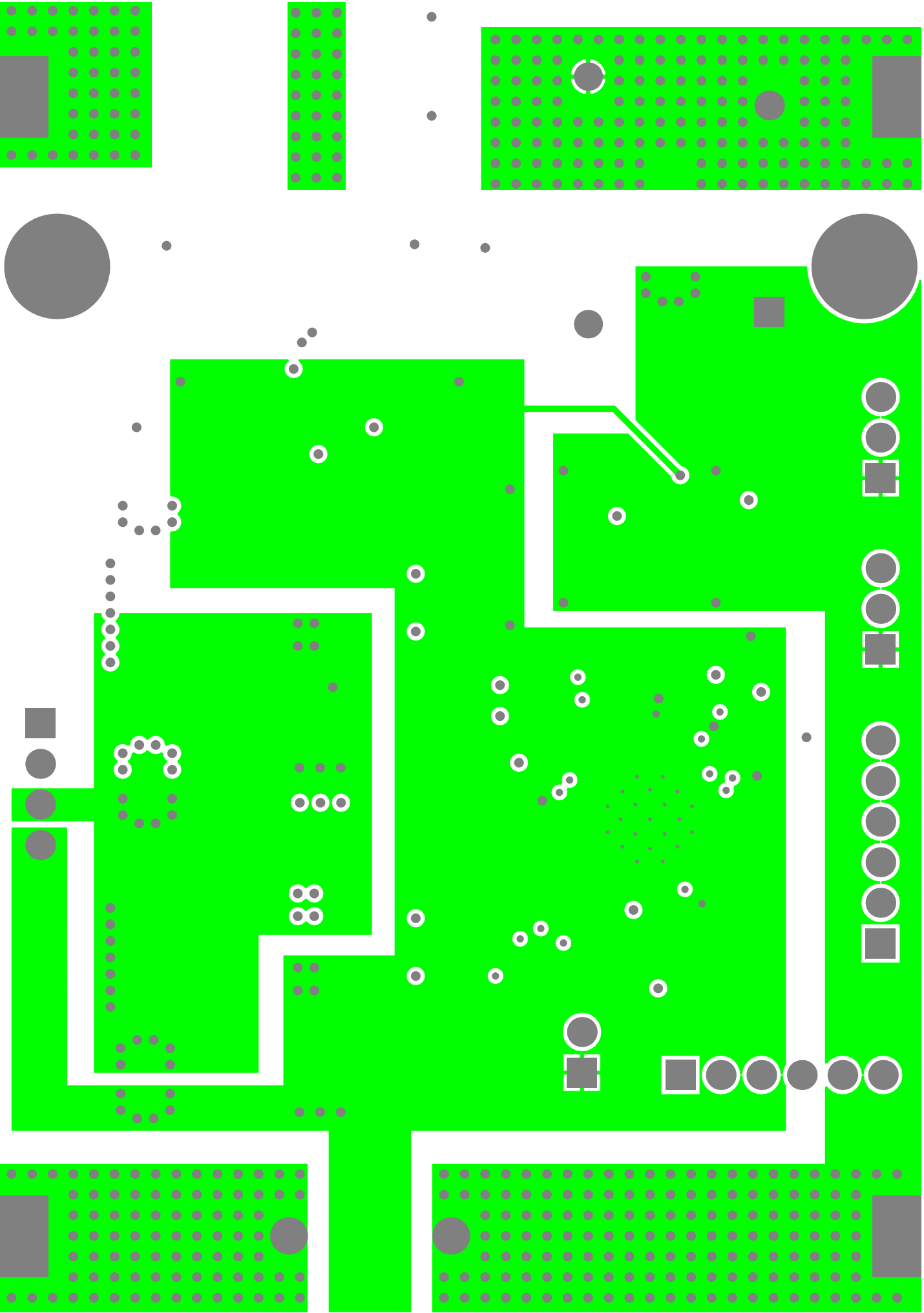
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Page Contents:	Pack Disconnect MOSFETs.SchDoc	Size:	A4
Date:	21/01/2023	Sheet	3 of 4



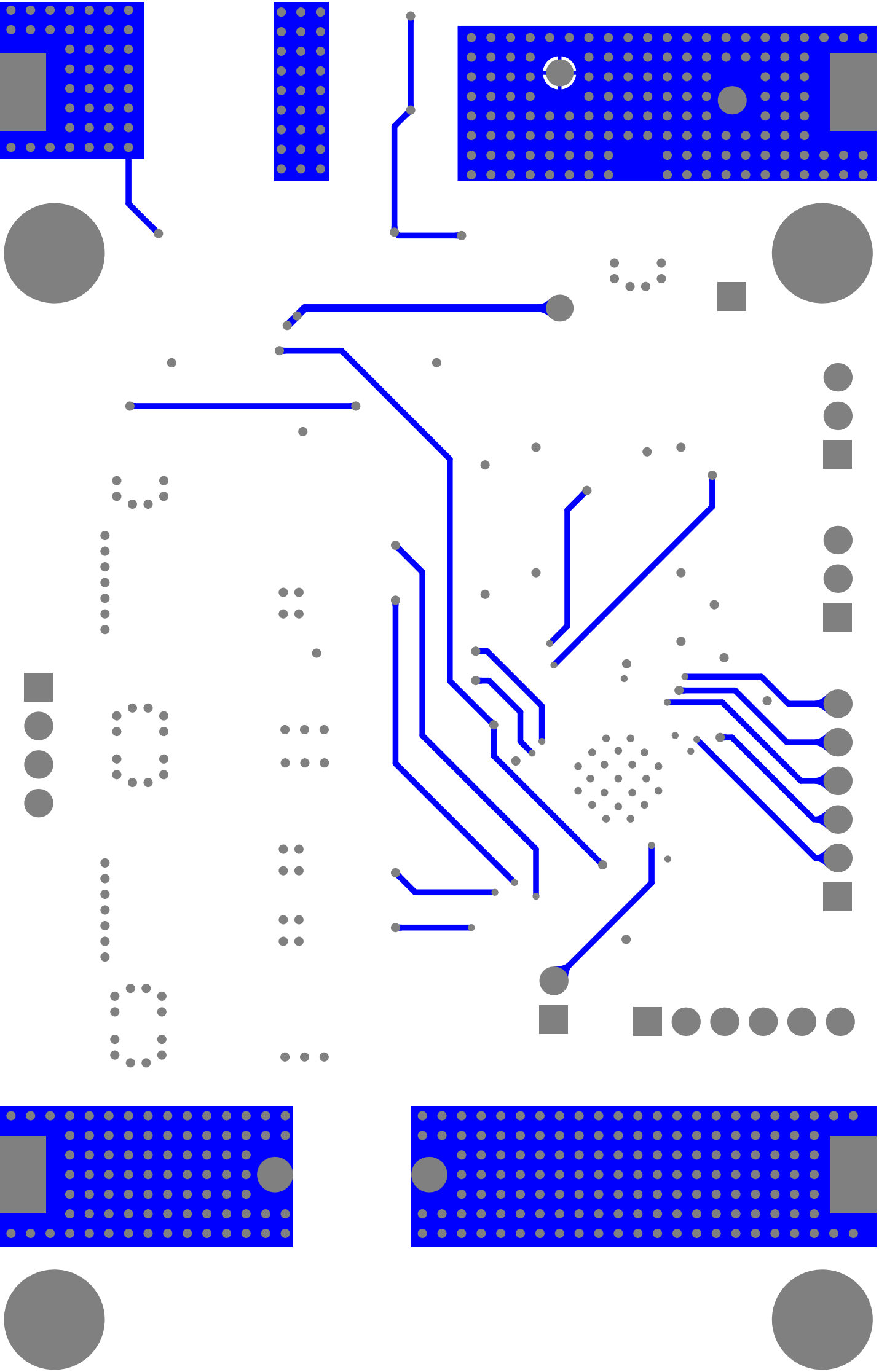


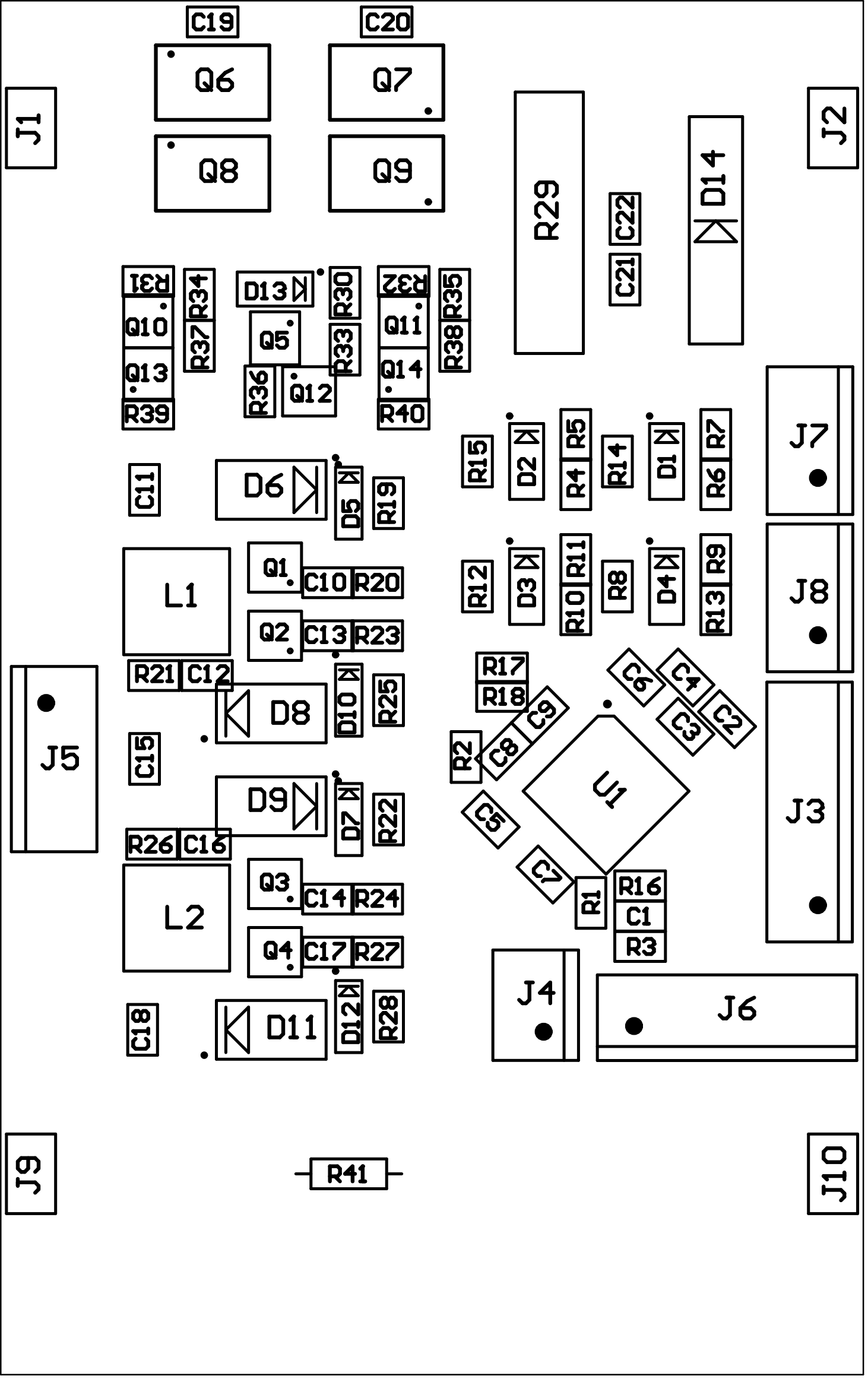












Quantity	Designator	Comment	Description	Manufacturer Part Number
1	C1	1uF	0805 C 1uF Ceramic Multilayer Capacitor, 50 V, +125degC, X7R Dielectric: +/-10%	C0805C105KSR ACTU
8	C2, C3, C4, C6, C8, C11, C15, C18	10uF	Cap Ceramic 10uF 10V XGR 10% SMD 0805 85C Plastic T/R	C0805L106K8PA CTU
2	C5, C7	1000pF	Cap Ceramic 0.001uF 50V X7R 10% SMD 0805 125C Plastic T/R	C0805C102KSR ACTU
3	C9, C12, C16	0.01uF	Cap Ceramic 0.01uF 16V X7R 10% SMD 0805 125°C Paper T/R	C0805C103K4R ACTU
4	C10, C13, C14, C17	3300pF	Cap Ceramic 0.0033uF 50V X7R 10% SMD 0805 125C Paper T/R	C0805C332KSR ACTU
4	C19, C20, C21, C22	0.1uF	Cap Ceramic 0.1uF 50V X7R 10% SMD 0805 125°C Paper T/R	C0805C104KSR AC7411
5	D1, D2, D3, D4, D13	5V6	Diode Zener Single 5.6V 7% 500mW Automotive 2-Pin Mini-MELF T/R	Z1M5.6
4	D5, D7, D10, D12	1N6819	VR=40V IF=1A 60pF P=450mW	1N5819HW-7-F
4	D6, D8, D9, D11	SS34	Diode Schottky 3A 40V Smb	SS34B-HF
1	D14	P6KE18A	TVS DIODE 15.3VWM 32.5VC DO15	P6KE18A
4	J1, J2, J5, J10	PAD 5X3MM		
2	J3, J6	CON XH 6P	CONN HEADER VERT 6POS 2.54MM	B6BXHA(LF)(SN)
1	J4	CON XH 2P	2 Position Dual Row 2.5 mm Pitch Through Hole Shrouded Header	B2B-XH-A-GU
1	J5	CON XH 4P	XH Series 4 Position 2.5 mm Pitch Through Hole Crimp Top Entry Shrouded Header	B4B-XH- A(LF)(SN)
2	J7, J8	CON XH 3P	Connector Header, XH Series, 3 Position, 2.50mm Through Hole, Press Fit, Solder, Natural	B3B-XH- A(LF)(SN)
2	L1, L2	6.8uH	Ind Power 6.8uH 25% Ferrite Drum Core T/R	CDRH5D28RH-P NP-6R8NC
2	Q1, Q3	AO3401	Trans Mosfet P-ch 30V 4A 3-PIN SOT- 23 T/R	AO3401A
6	Q2, Q4, Q5, Q12, Q13, Q14	AO3400	Trans MOSFET N- CH 30V 5.7A 3-Pin SOT-23	AO3400A
4	Q6, Q7, Q8, Q9	AO4407	MOSFET P-CH 30V 12A 8SOIC	AO4407A
2	Q10, Q11	MMBF4393L	Trans Jfet N-ch 30V 3-PIN SOT-23 T/r	MMBF4393L T3G
1	R1	10K	Res Thick Film 0805 10K Ohm 5% 1/8W ±200ppm/°C Molded SMD Paper T/R	CRCW080510K JUNEAC
1	R2	100K	RES SMD 100K 01M 5% 1/8W 0805	CRCW0805100 JUNEAC
9	R3, R4, R5, R6, R7, R8, R9, R10, R11	100	Res Thick Film 0805 100 Ohm 5% 1/8W ±200ppm/°C Molded SMD Paper T/R	CRCW0805100 JUNEAC
9	R12, R13, R14, R15, R16, R30, R36, R39, R40	1M	Res Thick Film 0805 1M Ohm 5% 0.125W(1/8W) ±200ppm/°C Pad SMD T/R	CRCW08051M0 JUNEAC
2	R17, R18	4K7	Res Thick Film 0805 4.7K Ohm 5% 1/8W ±200ppm/°C Molded SMD Paper T/R	CRCW08054K7 JUNEAC
4	R19, R22, R25, R28	22K	CRCW Series 0805 0.125 W 22 KOhm ±5 % ±200 ppm/K SMT Thick Film Chip Resistor	CRCW080522K JUNEAC
6	R20, R21, R23, R24, R26, R27	120	Res 120 Ohm 5% 1/8W 0805	CRCW0805120 JUNEAC
1	R29	120	Ultra Miniature Style Metal Film Resistor 120Ohm 1W 5% Axial T/R	FMP100JR-S2- 120R
3	R31, R32, R33	680K	Res Thick Film 0805 680K Ohm 5% 1/8W ±200ppm/°C Molded SMD SMD Paper T/R	CRCW0805680 JUNEAC
2	R34, R35	270K	Res Thick Film 0805 270K Ohm 5% 1/8W ±200ppm/°C Molded SMD SMD Paper T/R	CRCW0805270 JUNEAC
2	R37, R38	220K	Res Thick Film 0805 220K Ohm 5% 1/8W ±200ppm/°C Molded SMD SMD Paper T/R	CRCW0805220 JUNEAC
1	R41	0.01		
1	U1	BQ78PL116	PowerLAN Master gateway controller with PowerPump cell Balancing technology 48- VQFN-40 to 85	BQ78PL116RGZ T