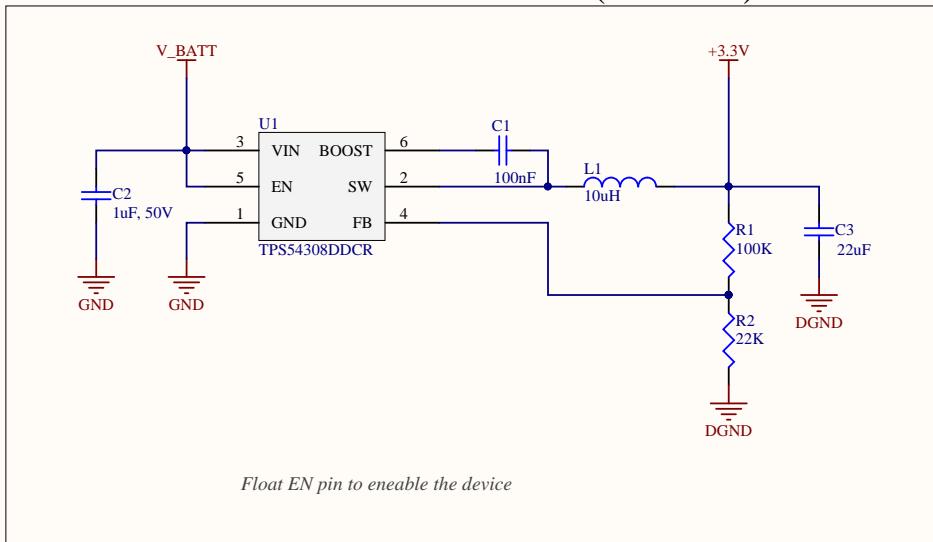


3.3V Regulator

24V to 3.3V @ 0.7A (Nominal)

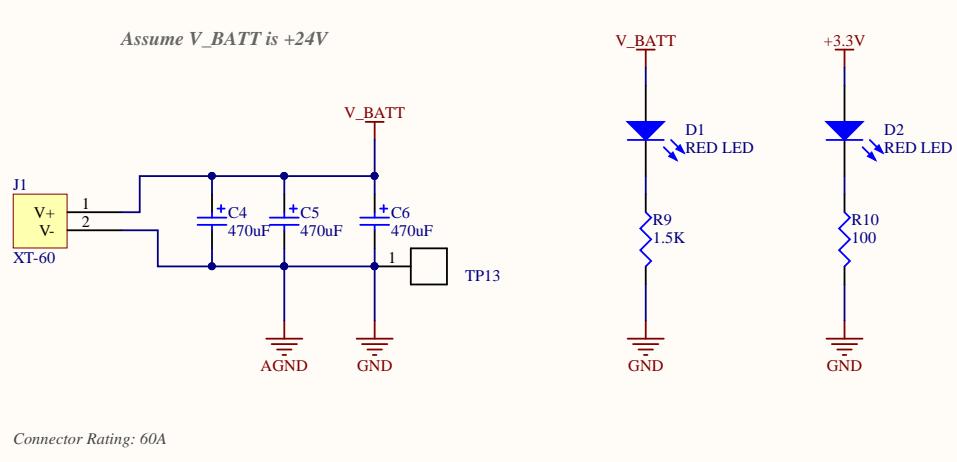


Title		
Size	Number	Revision
A4		
Date: 2/3/2019	Sheet of	
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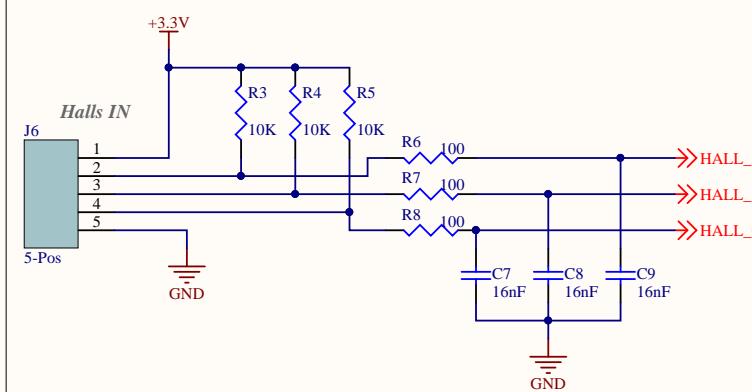
Connectors & LED Indicators

Battery Input & Power LEDs

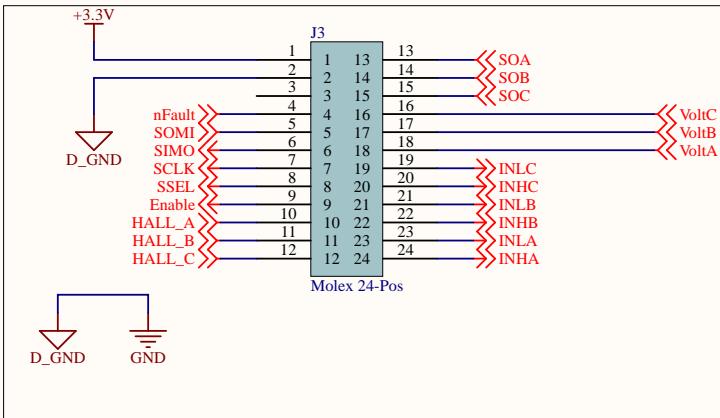
Assume V_BATT is +24V



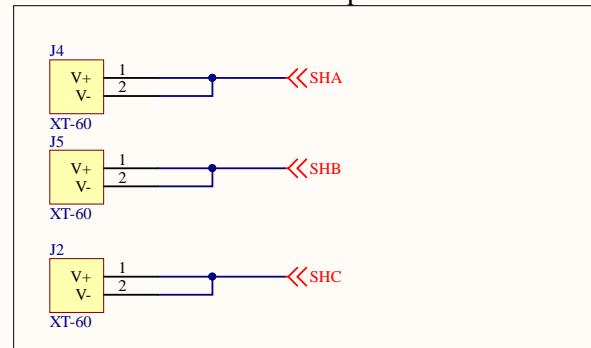
Hall Effect Sensor I/O



Control Board Interface Connector



Motor Output



Title

Size
A4

Number

Revision

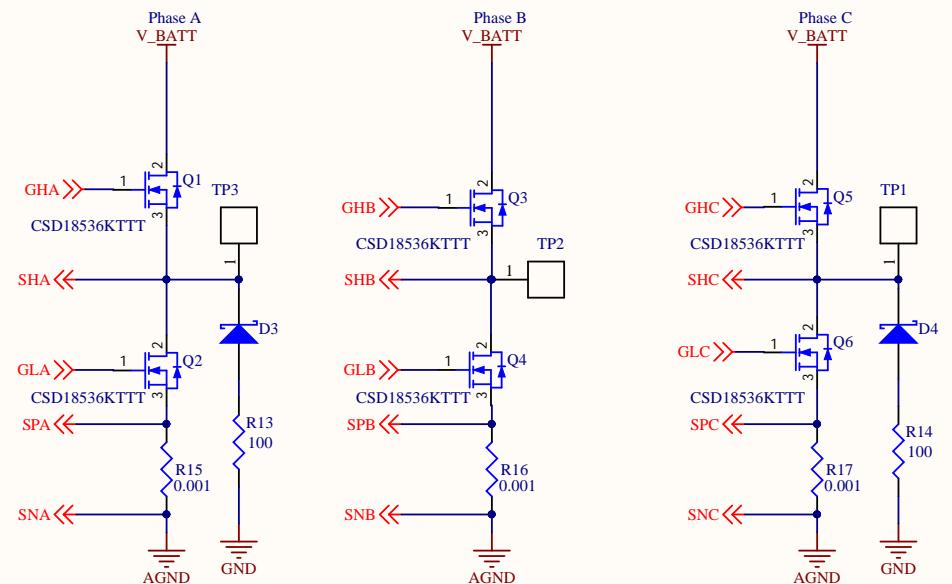
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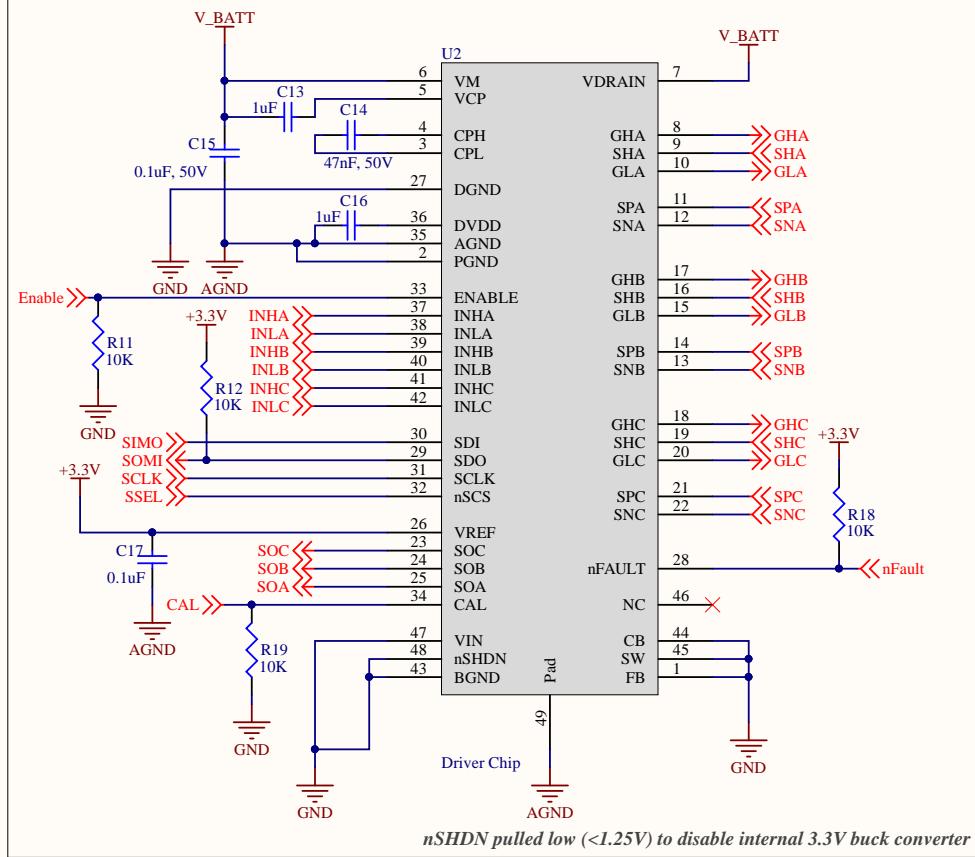
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Gate Driver & H-Bridge

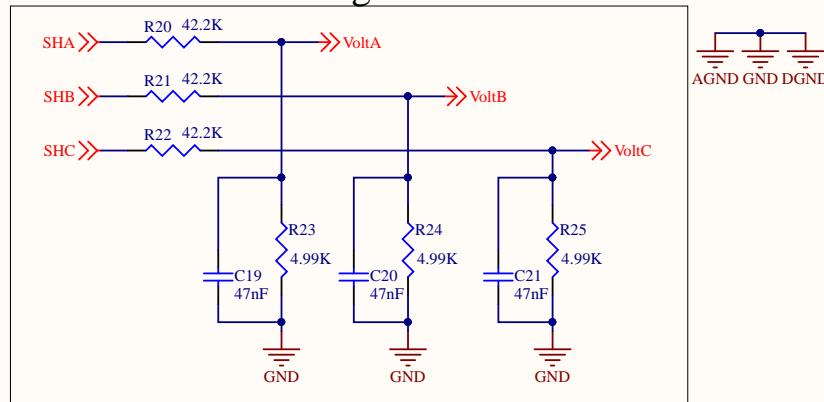
MOSFET Bridge



Gate Driver



Motor Voltage Feedback



Title

Size
A4

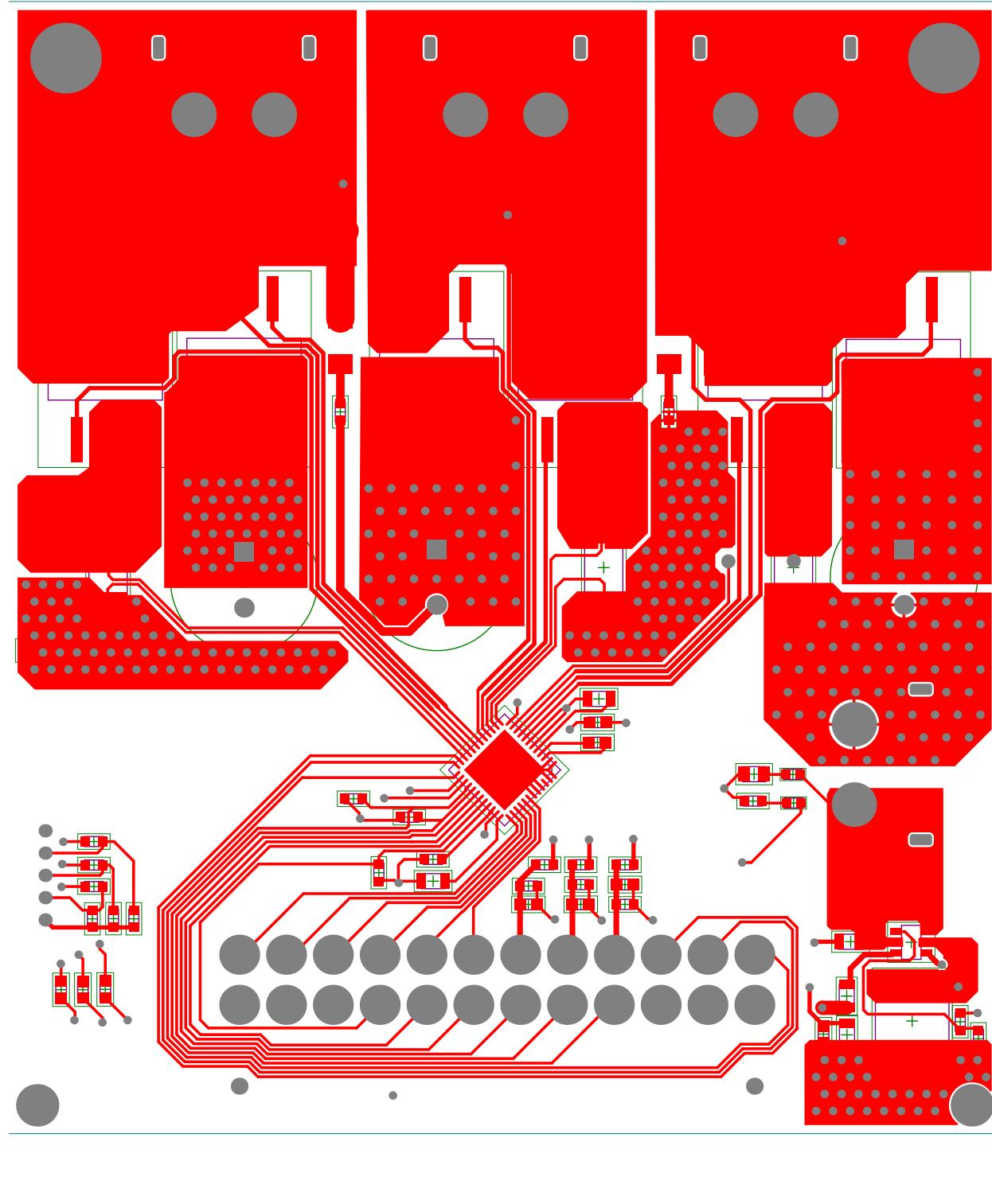
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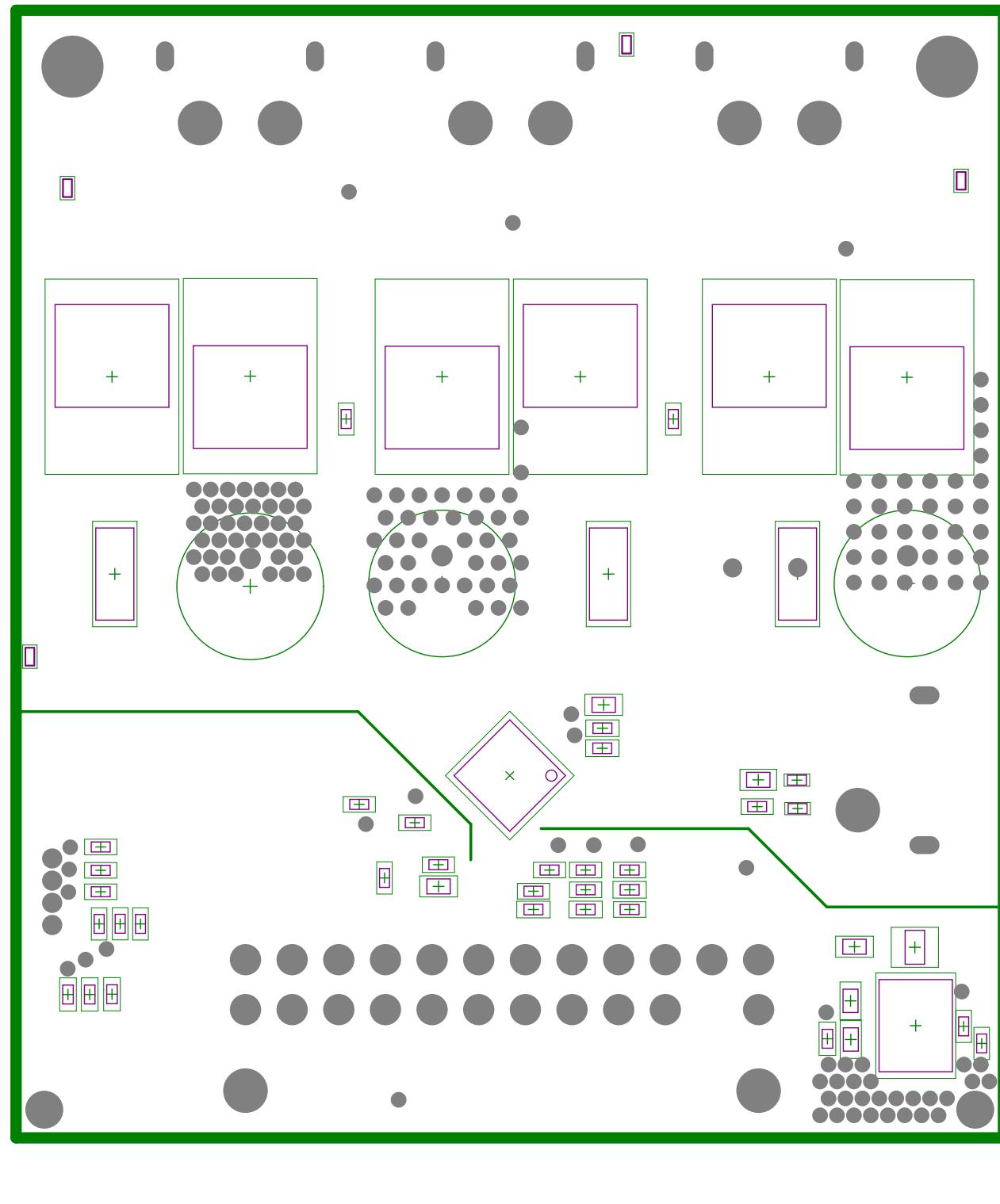
Revision

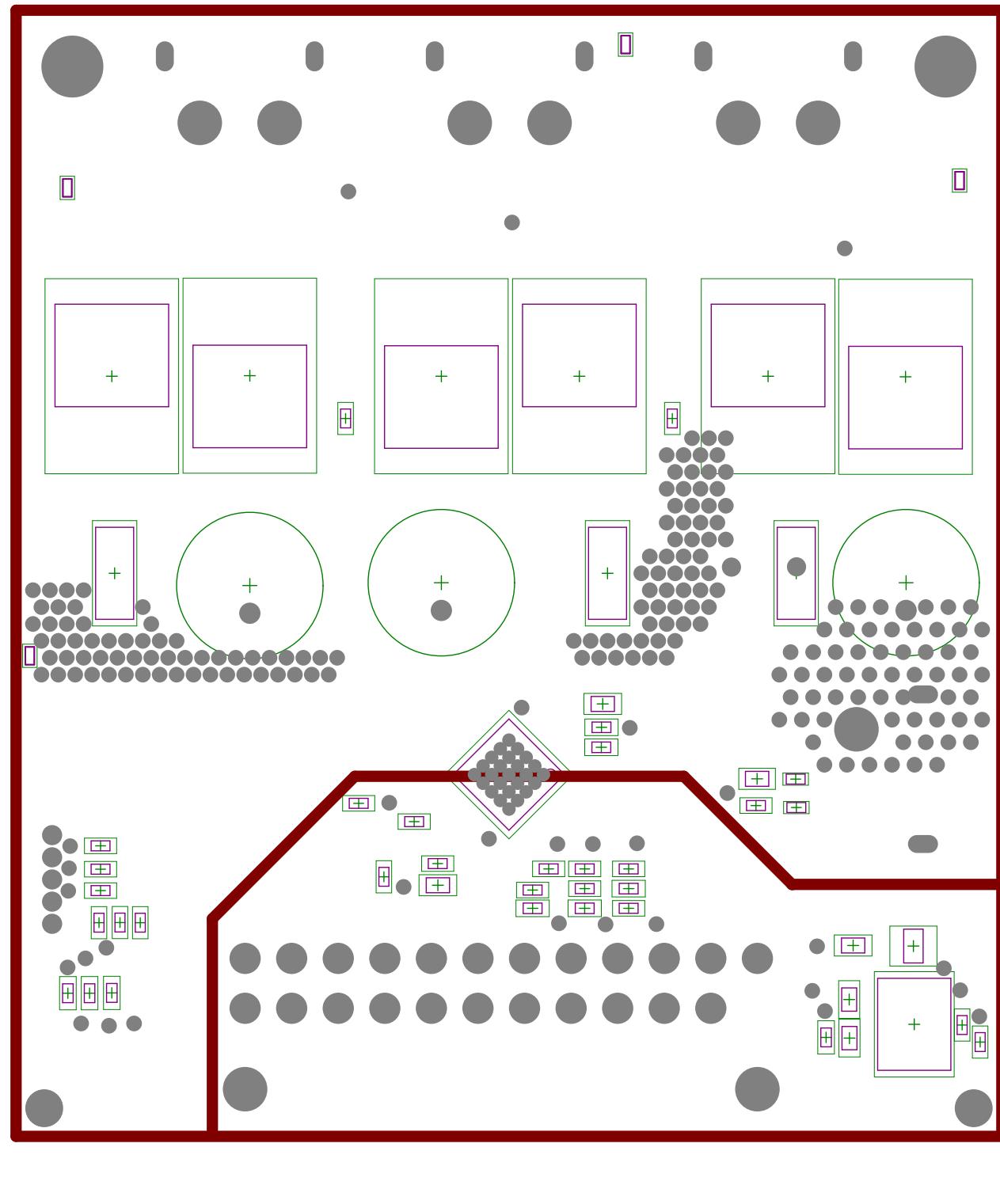
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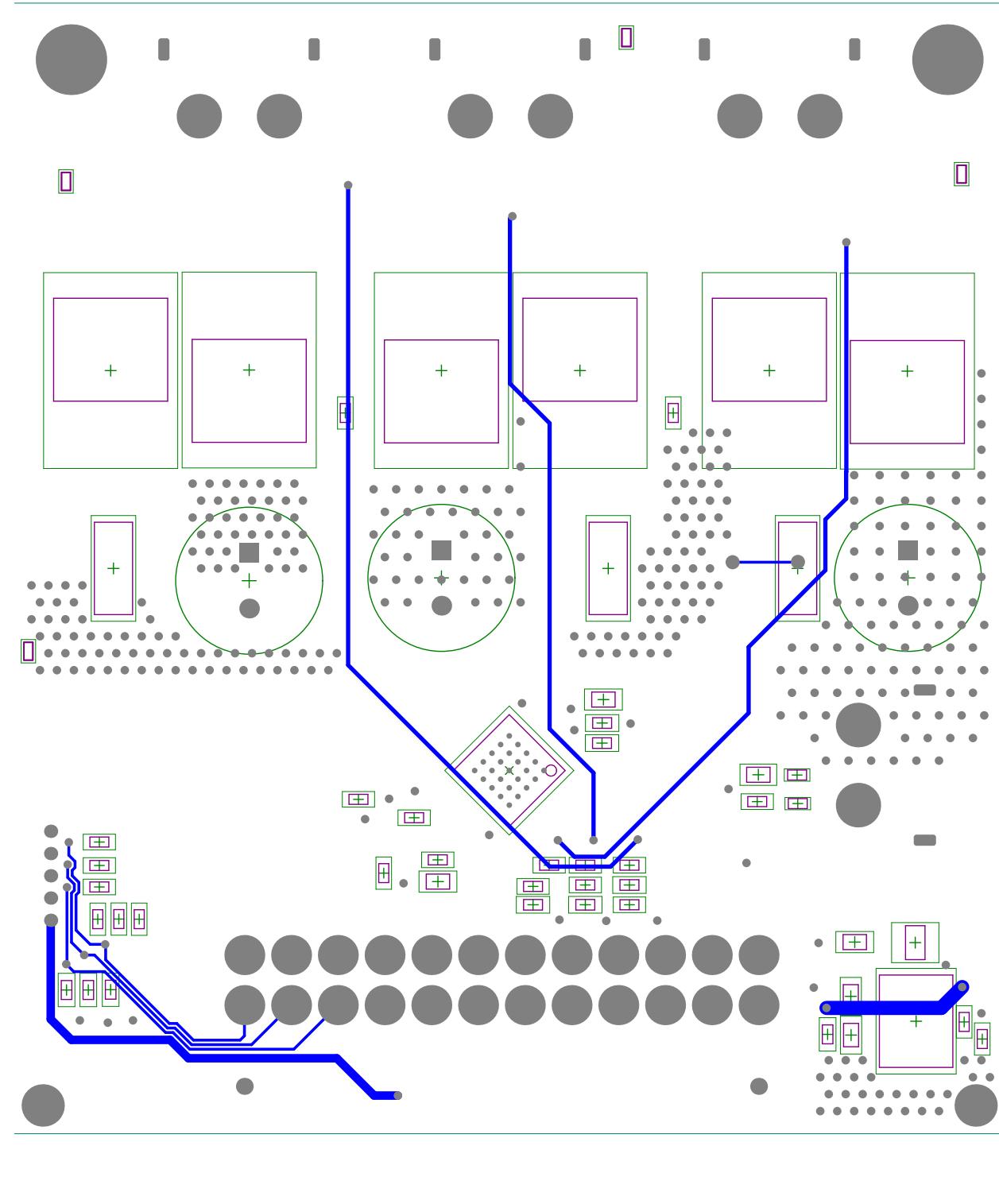
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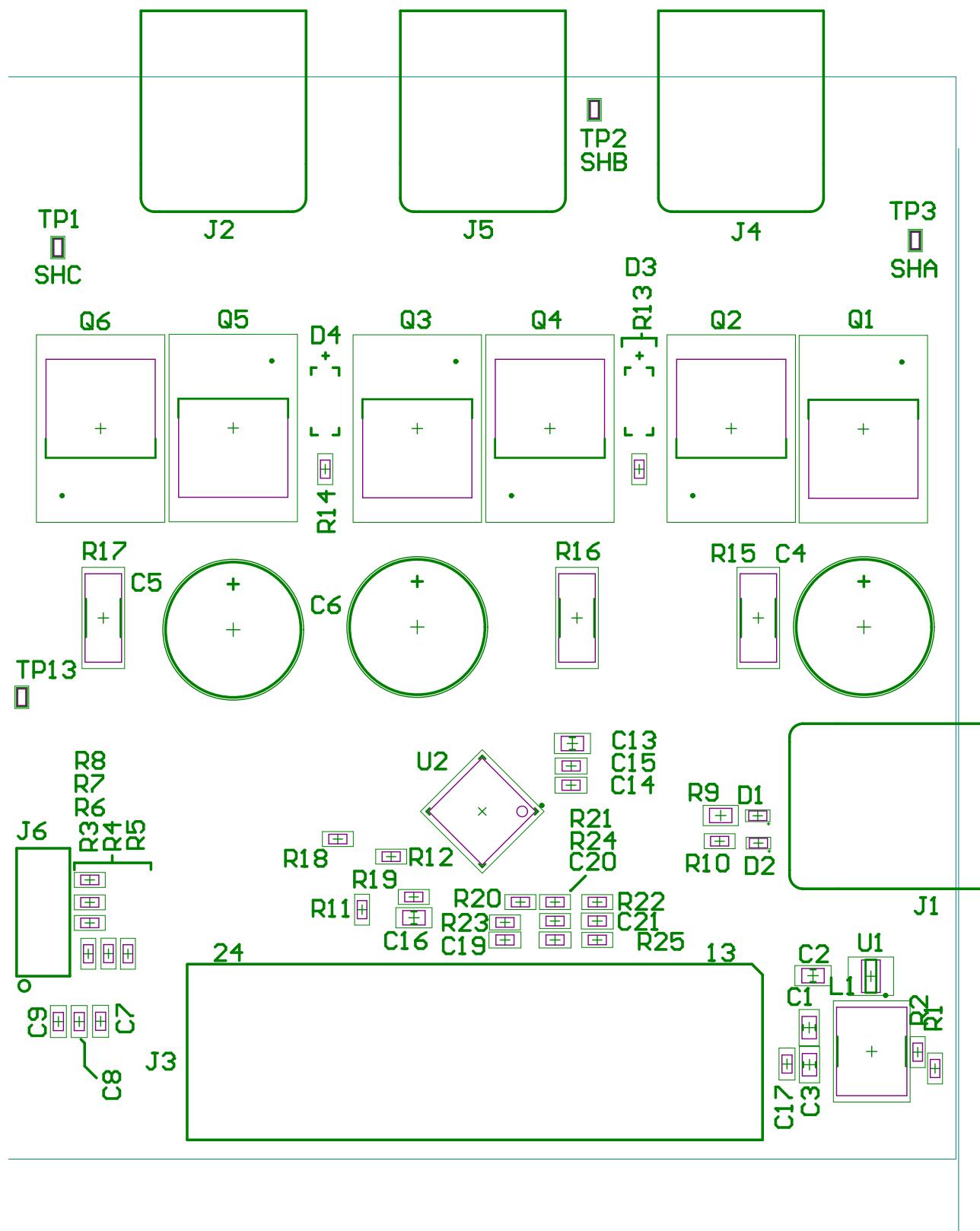
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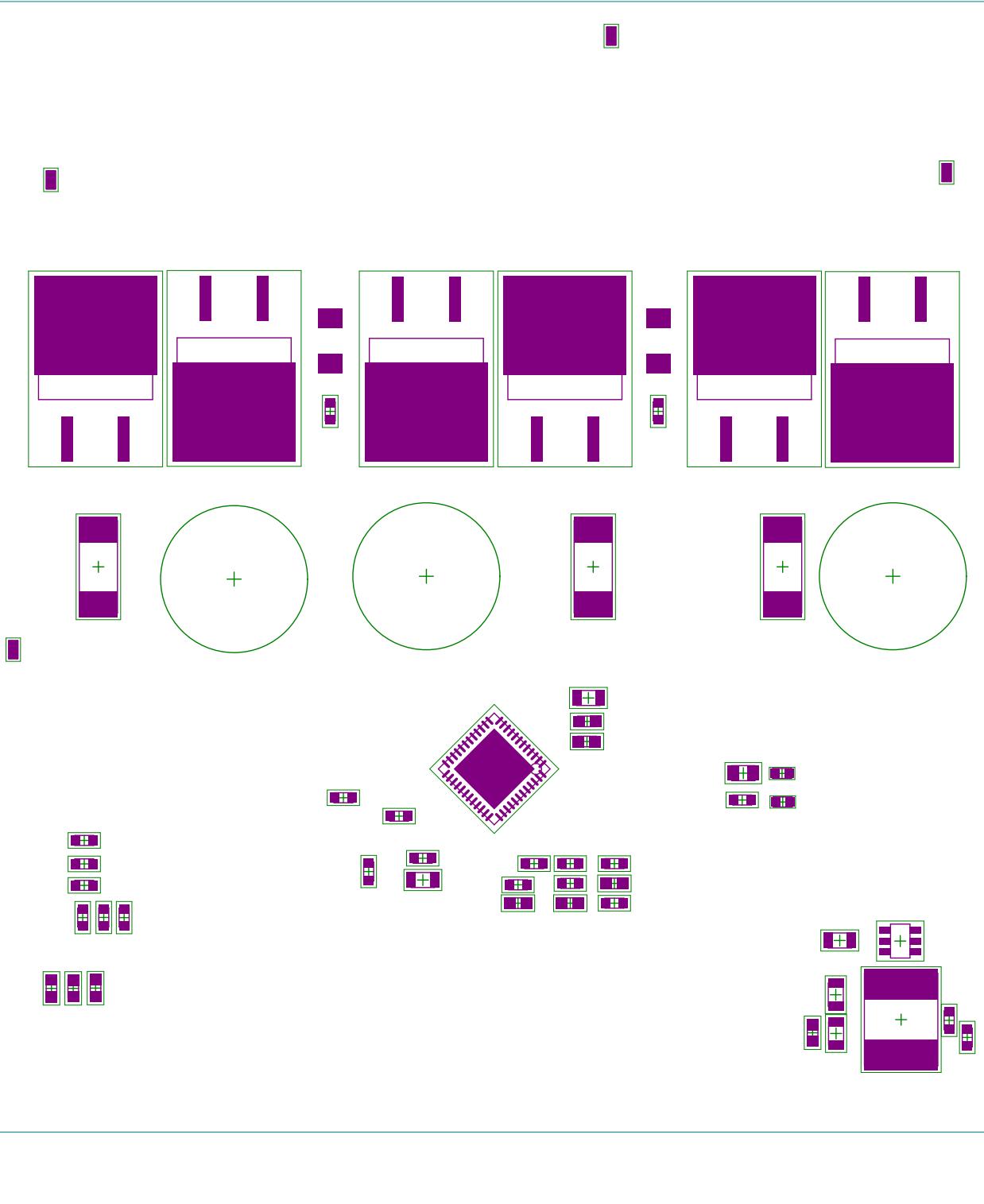


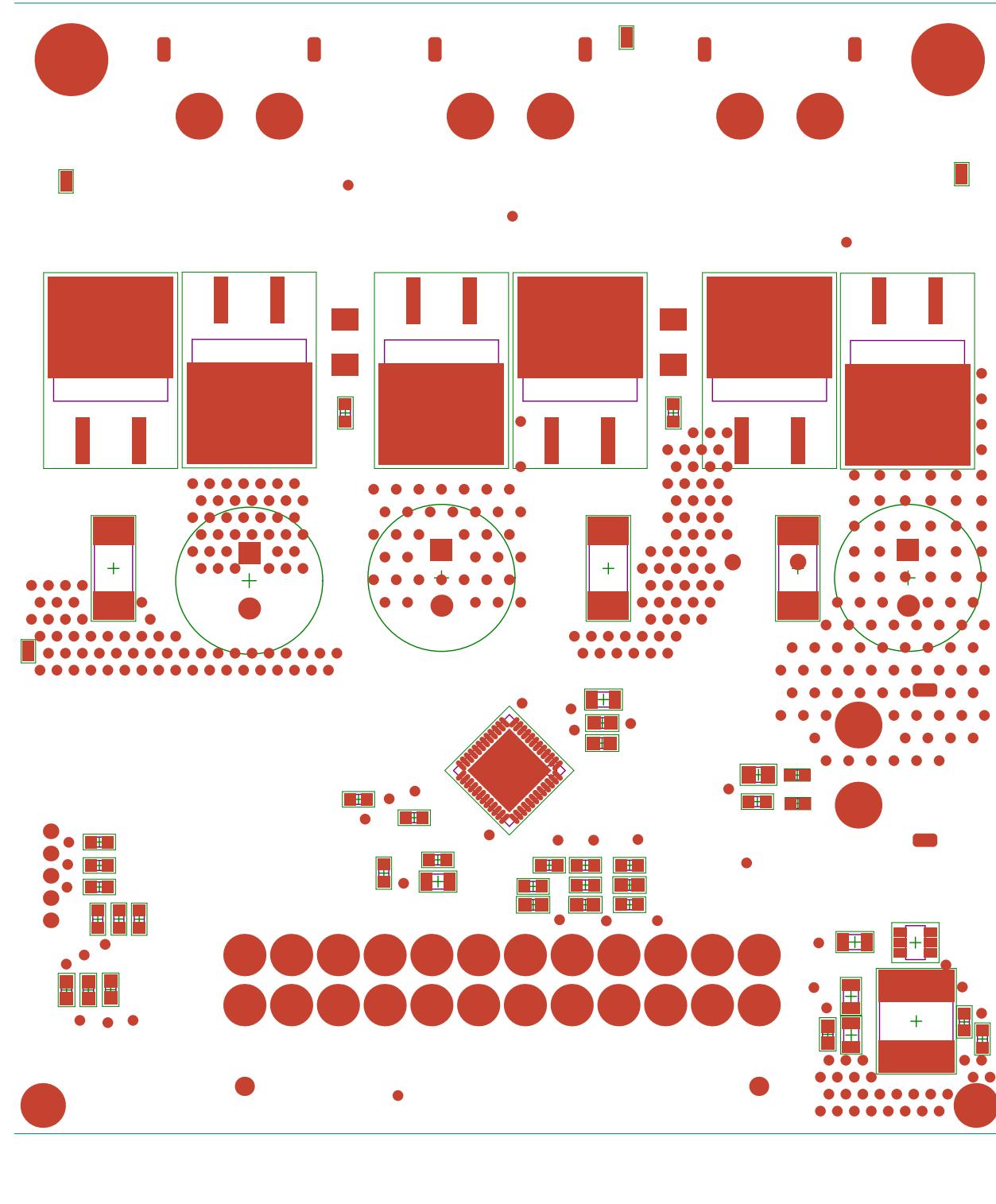


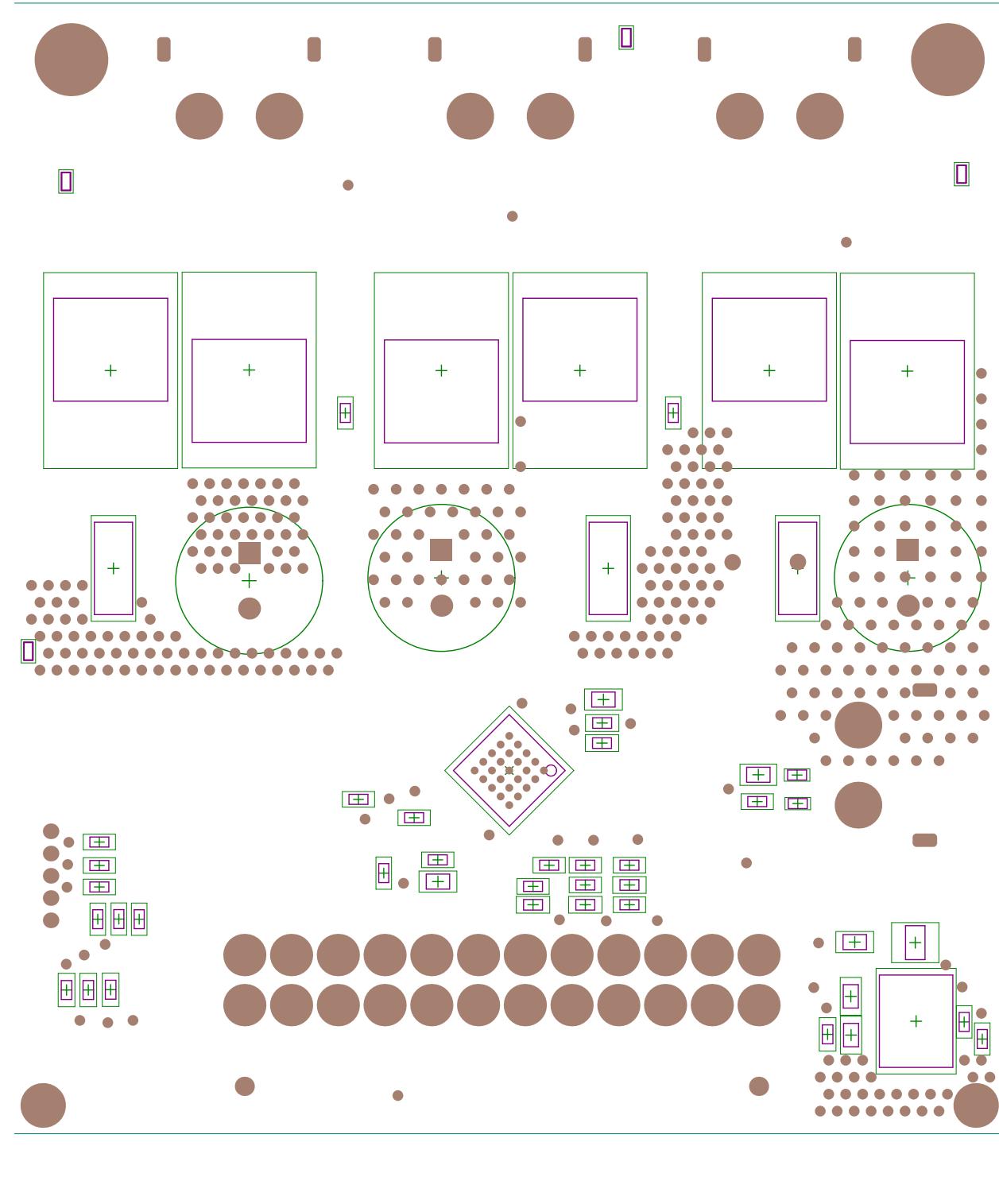


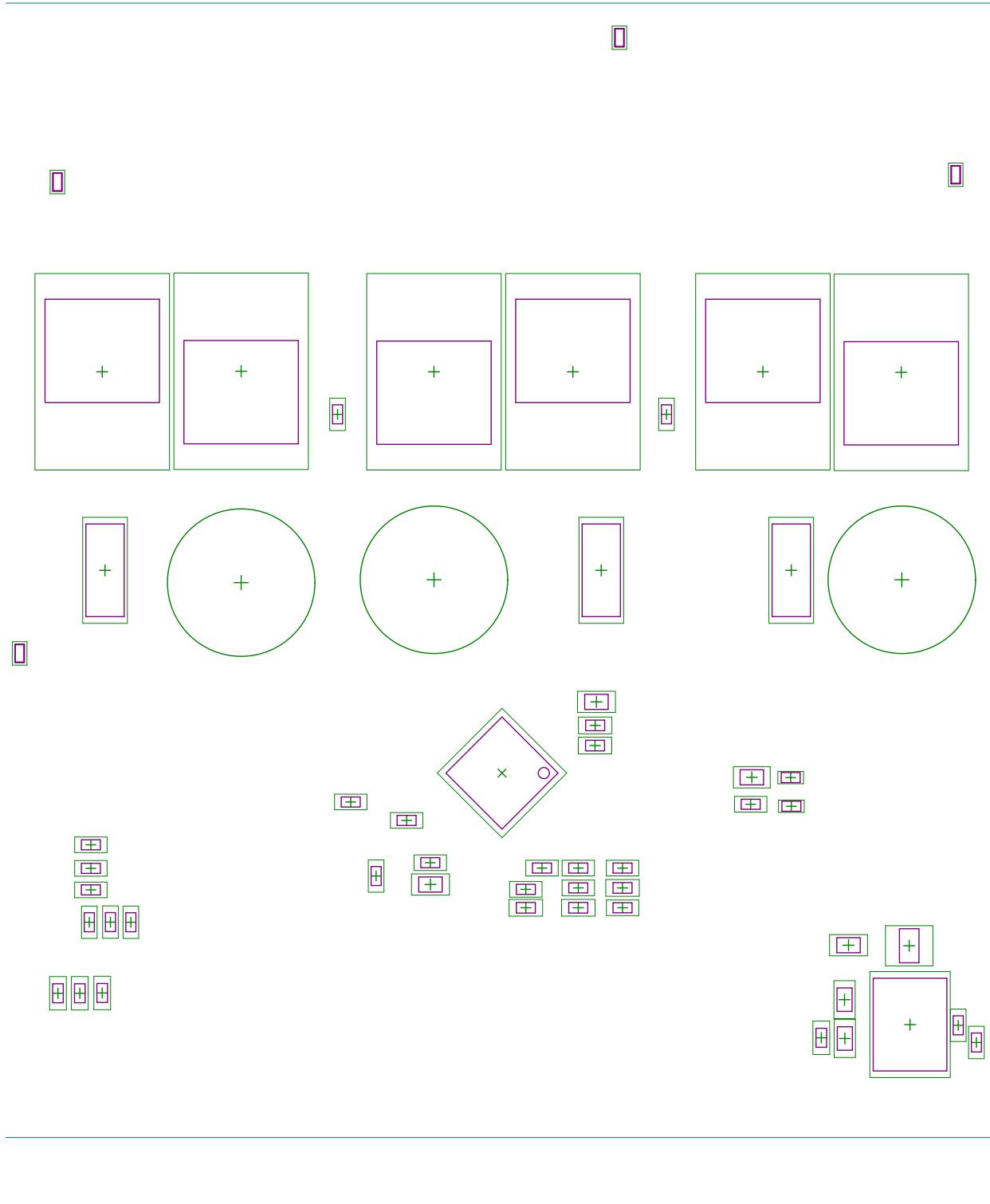


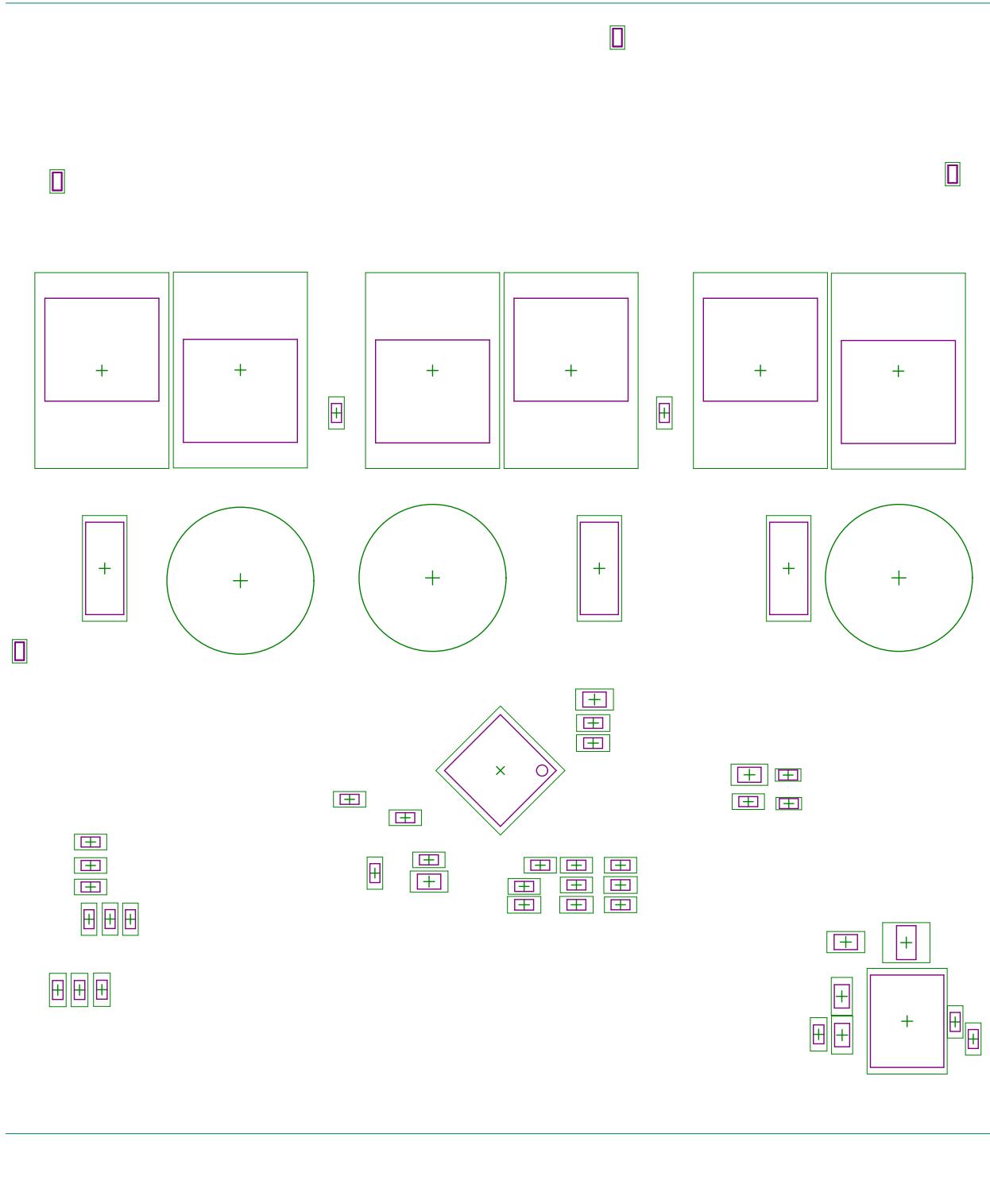


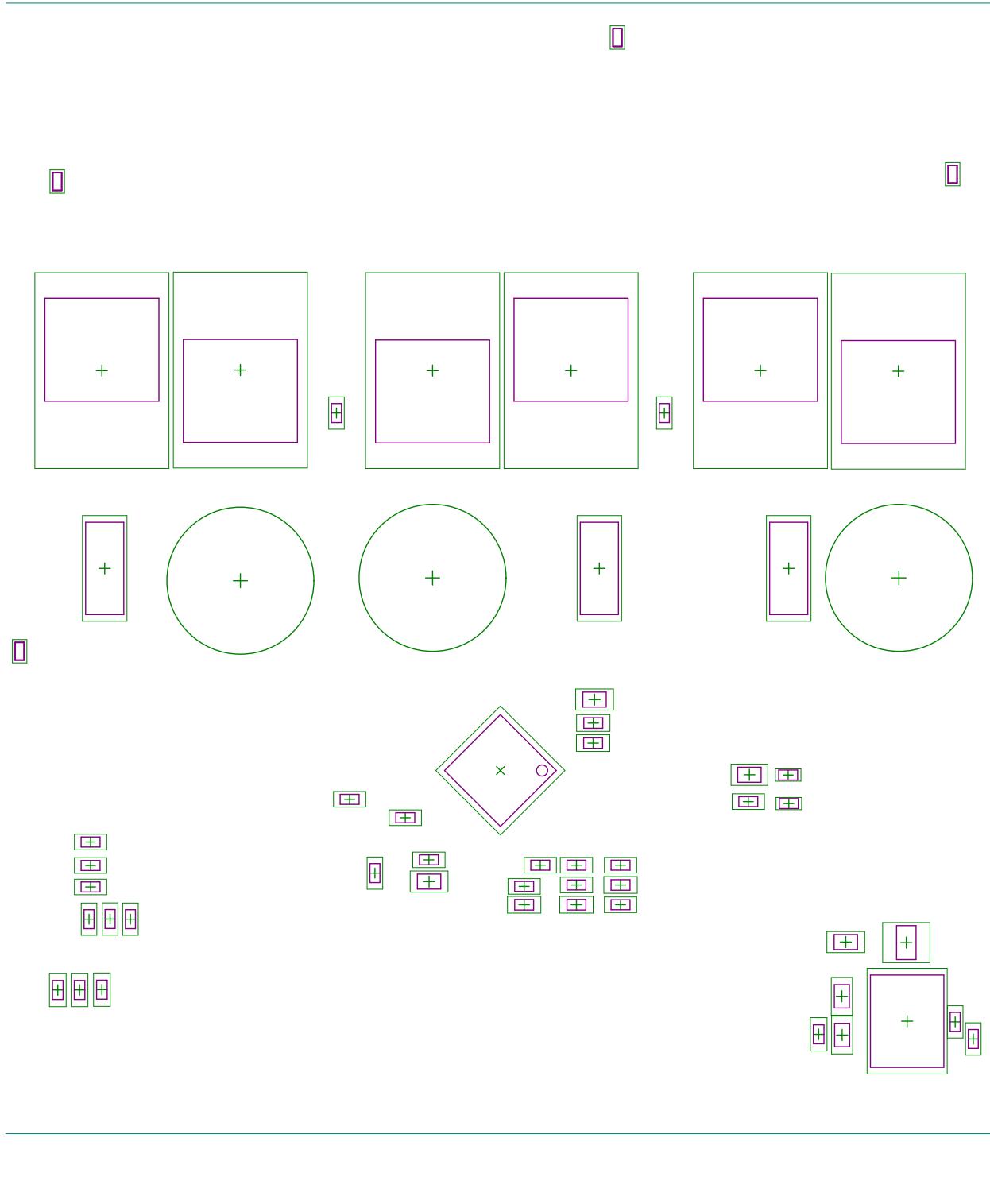


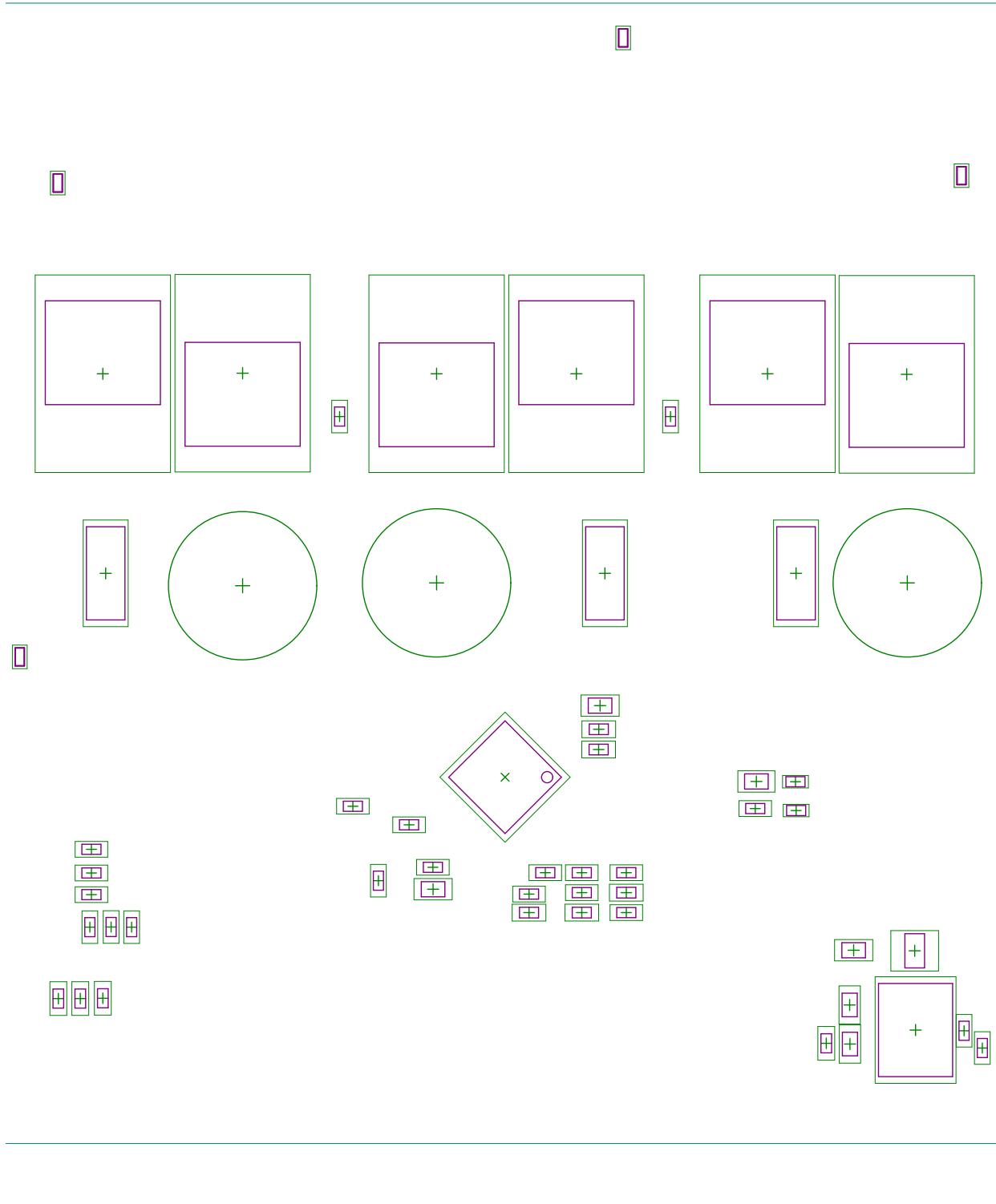


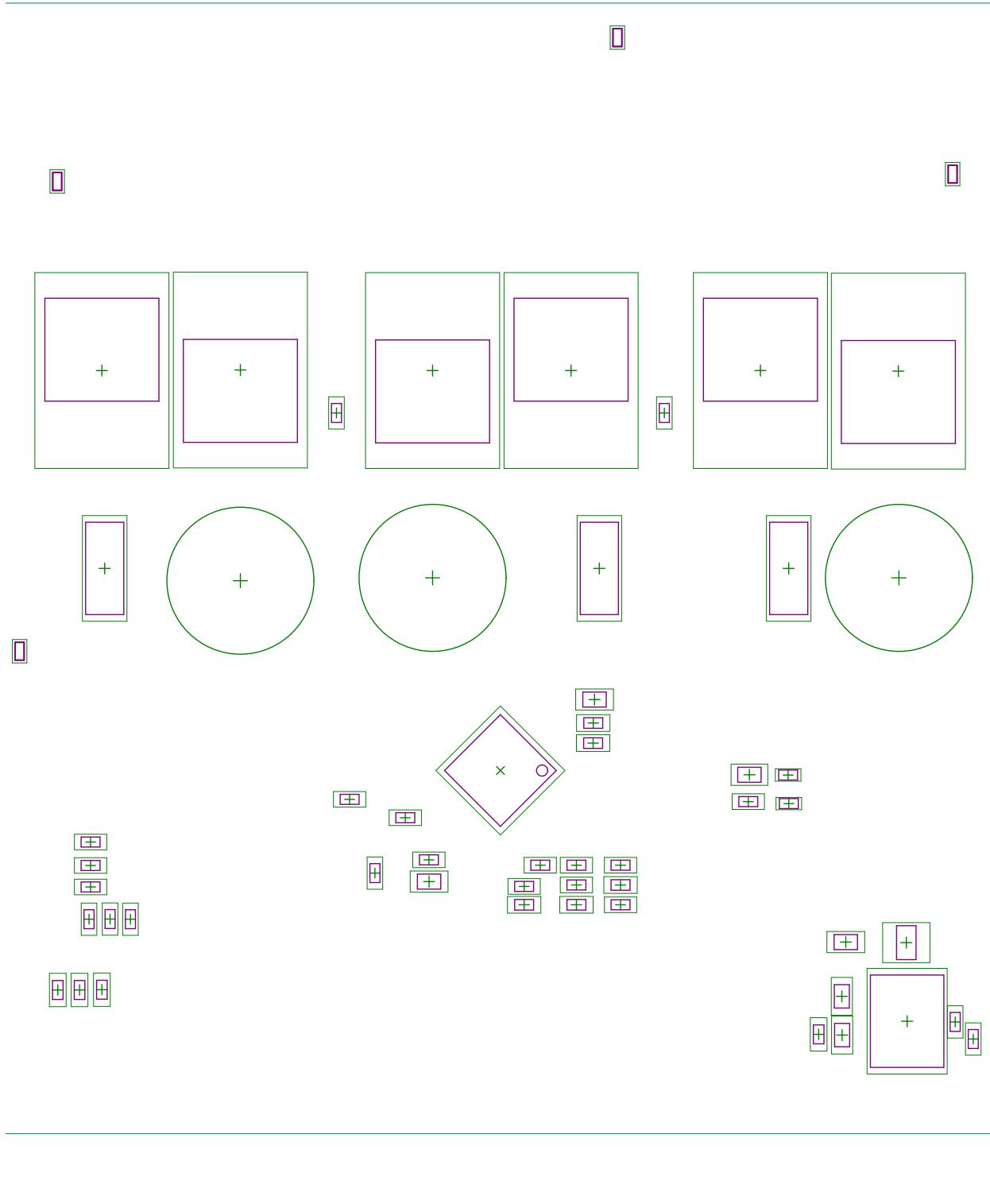


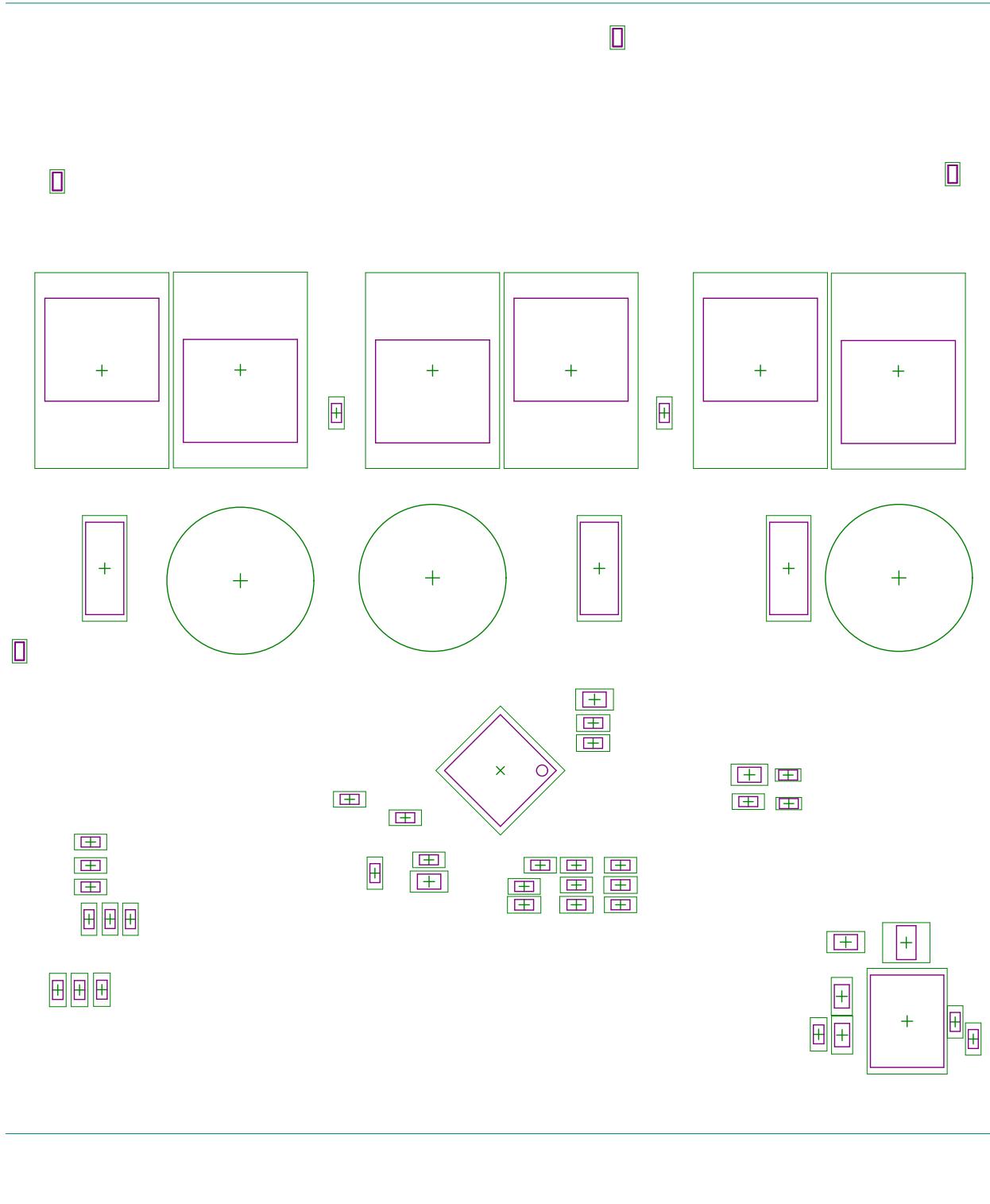


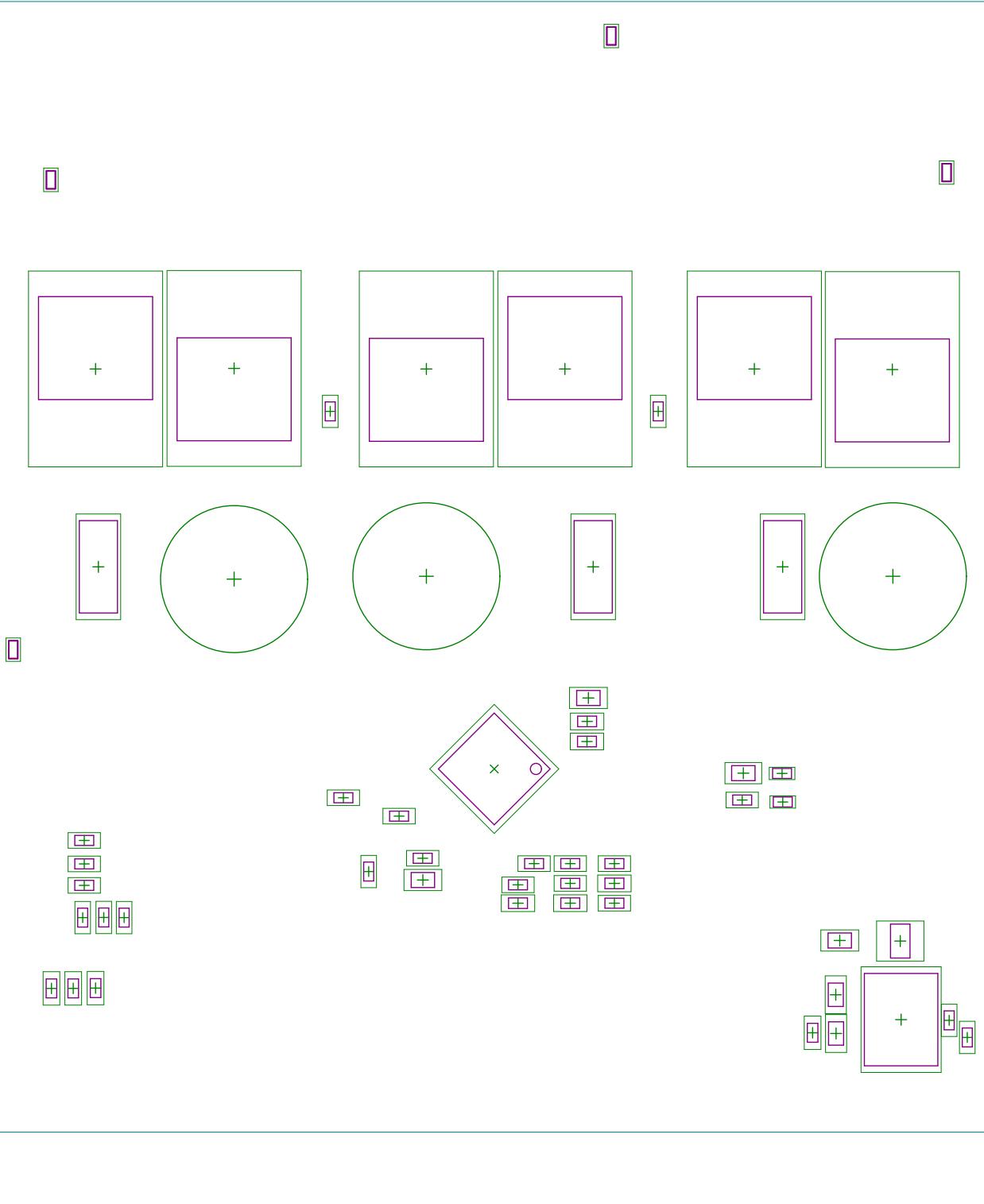


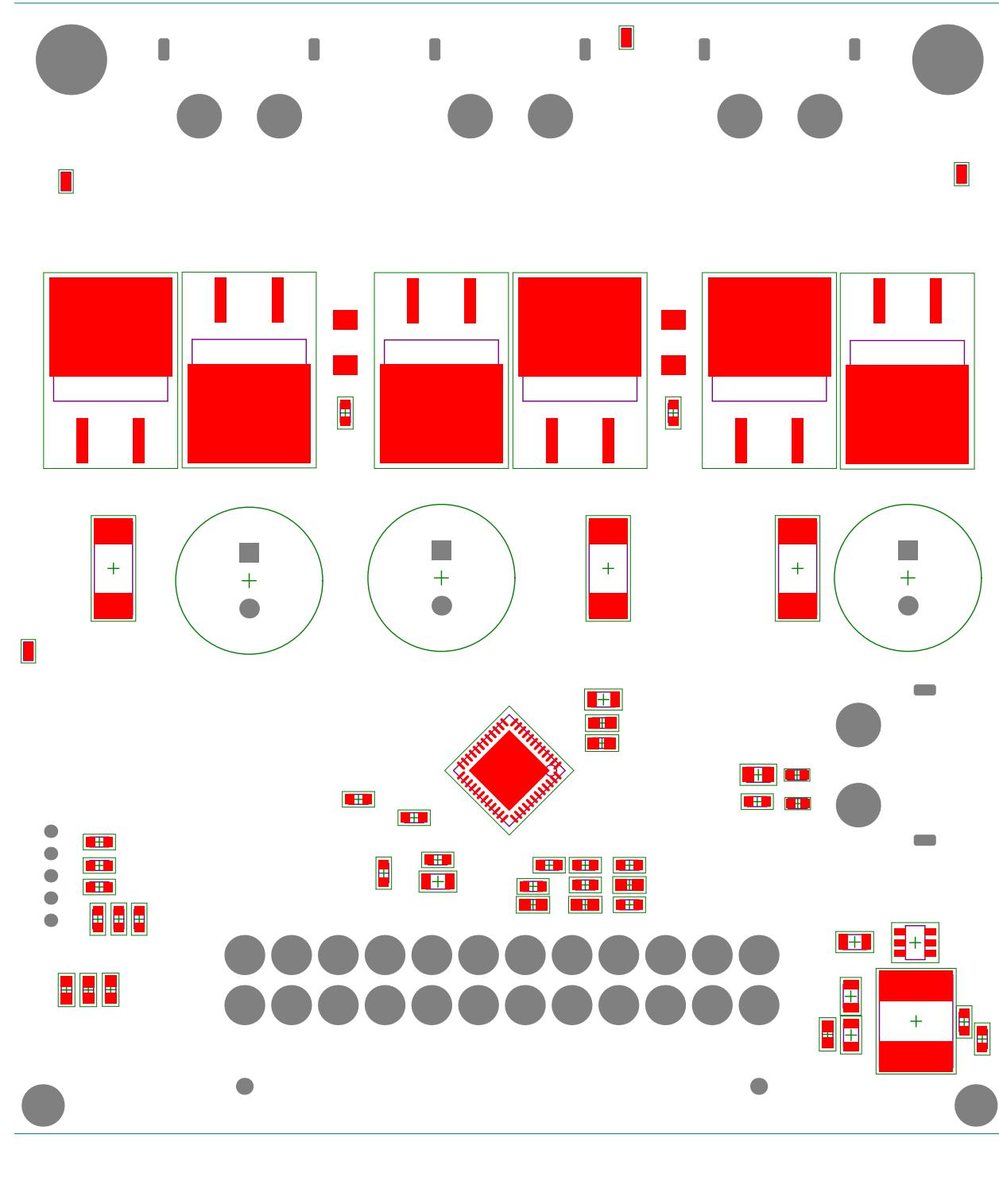


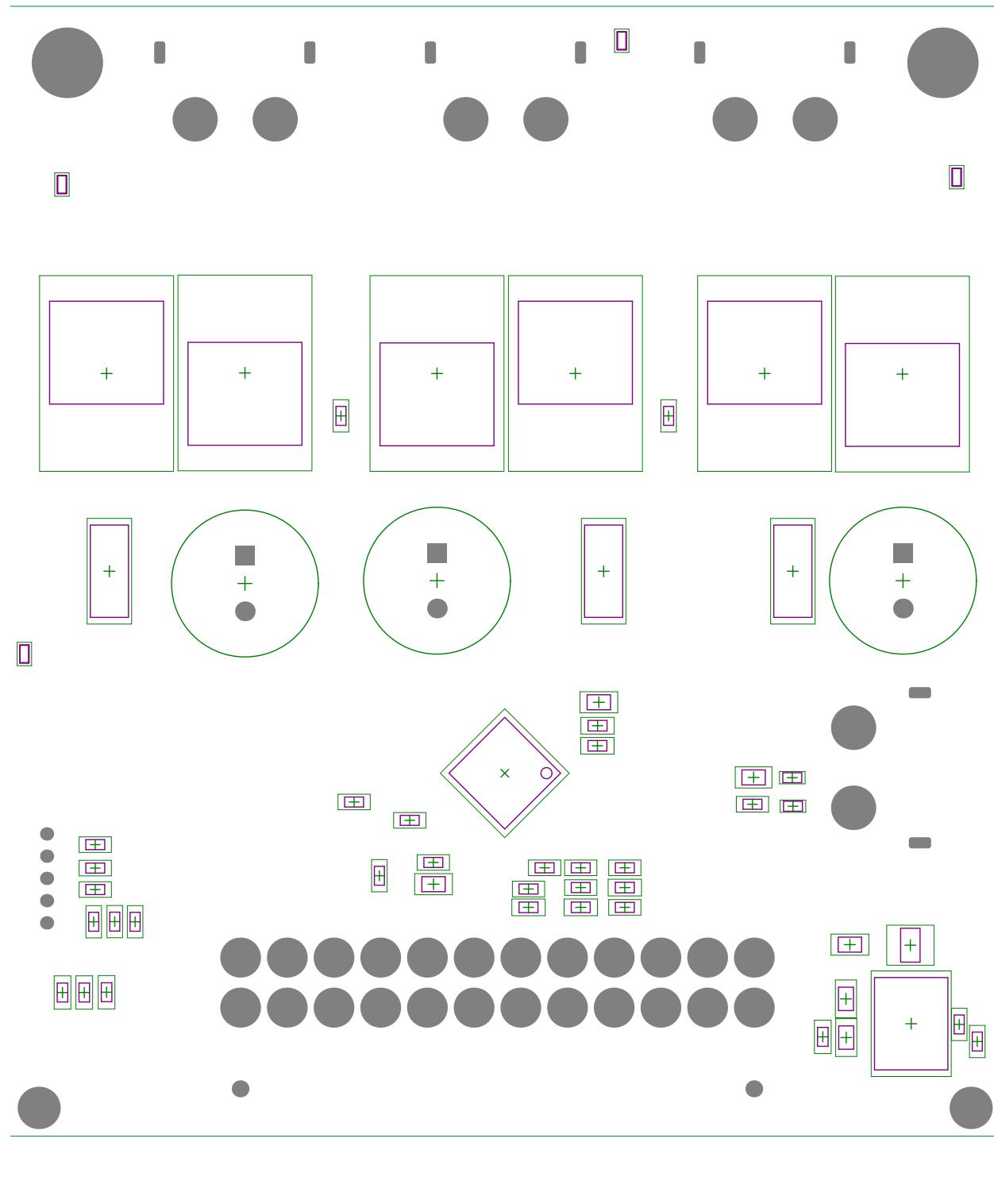


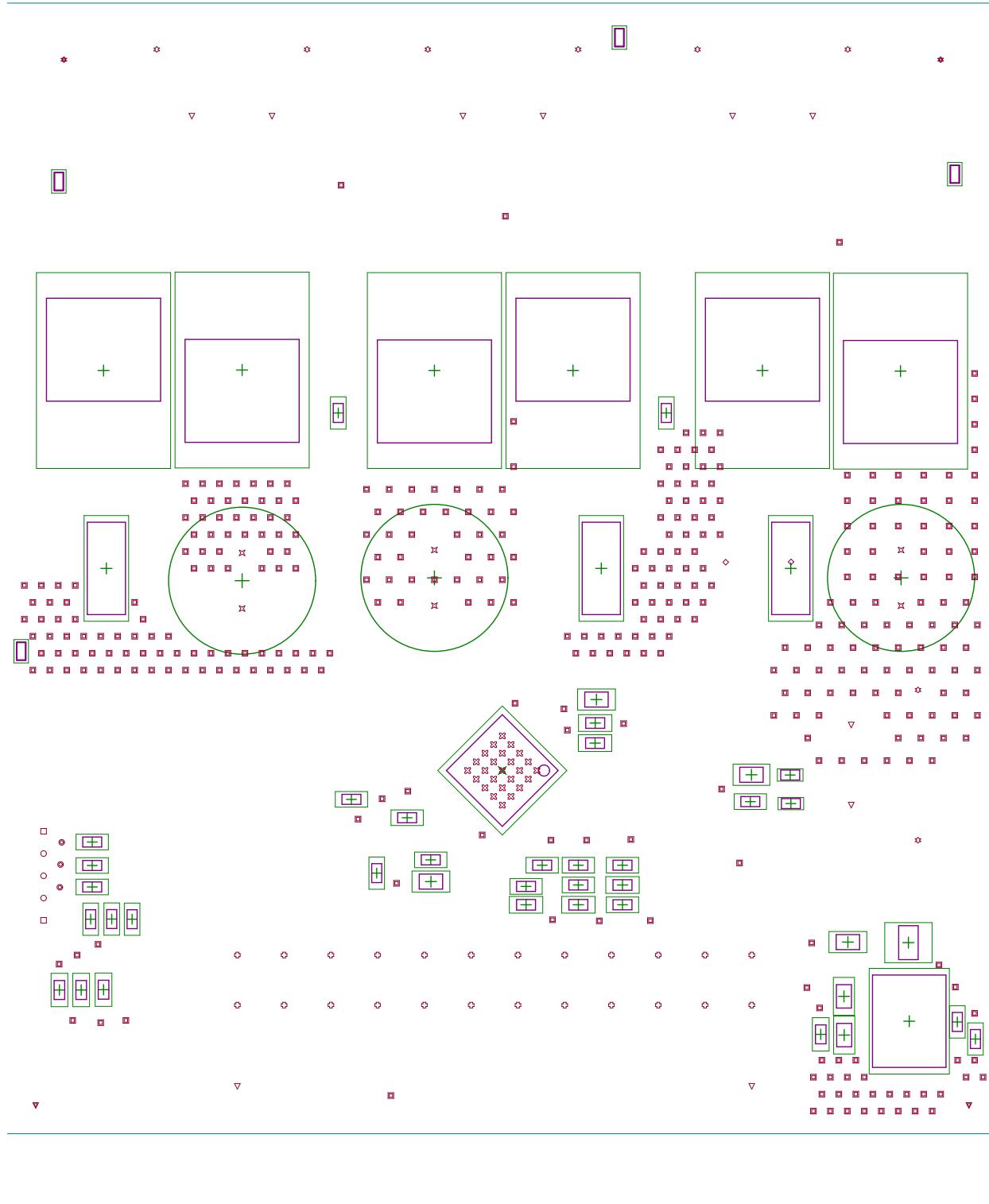


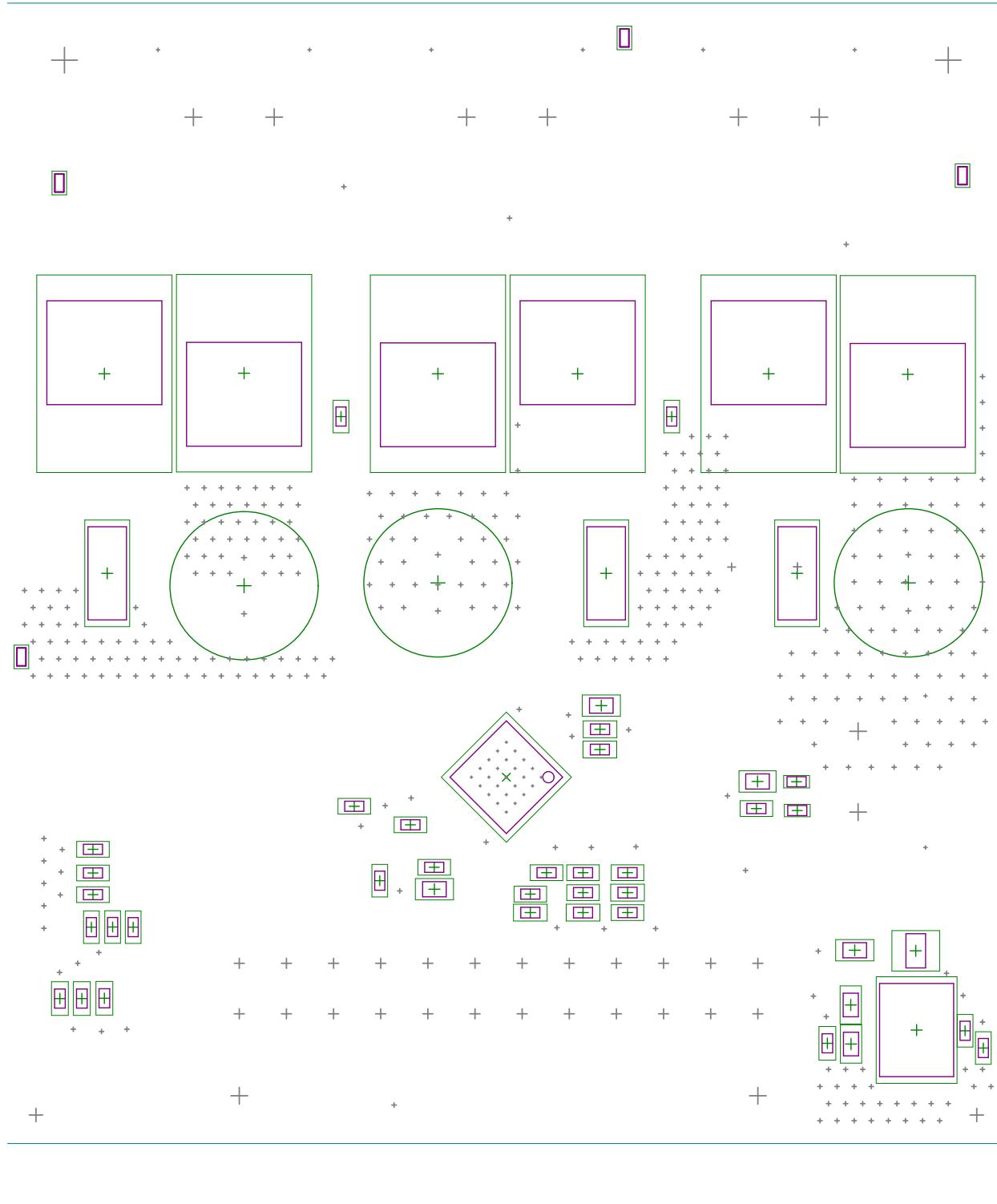












Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C3, C13, C16	CAPC2012X06N	Cap	5
470uF	Cap Aluminum Lytic 470uF	C4, C5, C6	ECA1JHG471	ECA-1JHG471	3
16nF	Multilayer Ceramic Capacitor 16nF	C7, C8, C9	0603 CAP Medium	06035C163KAT2A	3
Cap	Capacitor	C14, C15, C17, C19, C20	0603 CAP Medium	Cap	6
RED LED	LED RED CLEAR 0603 SMD	D1, D2	CAPC1608X05L - Polar	LTST-C191KRKT	2
Diode 11DQ03	Schottky Rectifier	D3, D4	Zener	Diode 11DQ03	2
XT-60	XT-60 Power Connector	J1, J2, J4, J5	XTC60PW-M	XT-60	4
Molex 24-Pos		J3	PCBComponent_1	Molex 24-Pos (003930)	1
5-Pos		J6	Hirose 5-pos	5 pos	1
Inductor	PN: SRR6038-100Y	L1	INDC8063X52N	Inductor	1
CSD18536KTTT	TEXAS INSTRUMENTS	Q1, Q2, Q3, Q4, Q5, Q6	DPAK254P1510X470-3	CSD18536KTTT	6
Res3	Resistor	R1, R2, R3, R4, R5, R6	RES 0603 MEDIUM	Res3	21
Res3	Resistor	R9	0805 Res	Res3	1
Res3	Resistor	R15, R16, R17	RESC8032X08N	Res3	3
1625854-3	0603 PROBE PAD	TP1, TP2, TP3, TP13	TE_RCU-OC	RCU-OC	4
TPS54308DDCR	Buck Switching Regulator	U1	SOT95P280X110-6N	TPS54308DDCR	1
Driver Chip		U2	QFN50P700X700X100	Driver Chip	1