

Title: **PPT Primary Side.SchDoc**

Desc:

Size: **Letter** Auth: **Andrew Katz**

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Date: 1/16/2026 2:24:52 AM AD Ver. 26.1.1.7 Doc. 3 Sheet 3 of 3

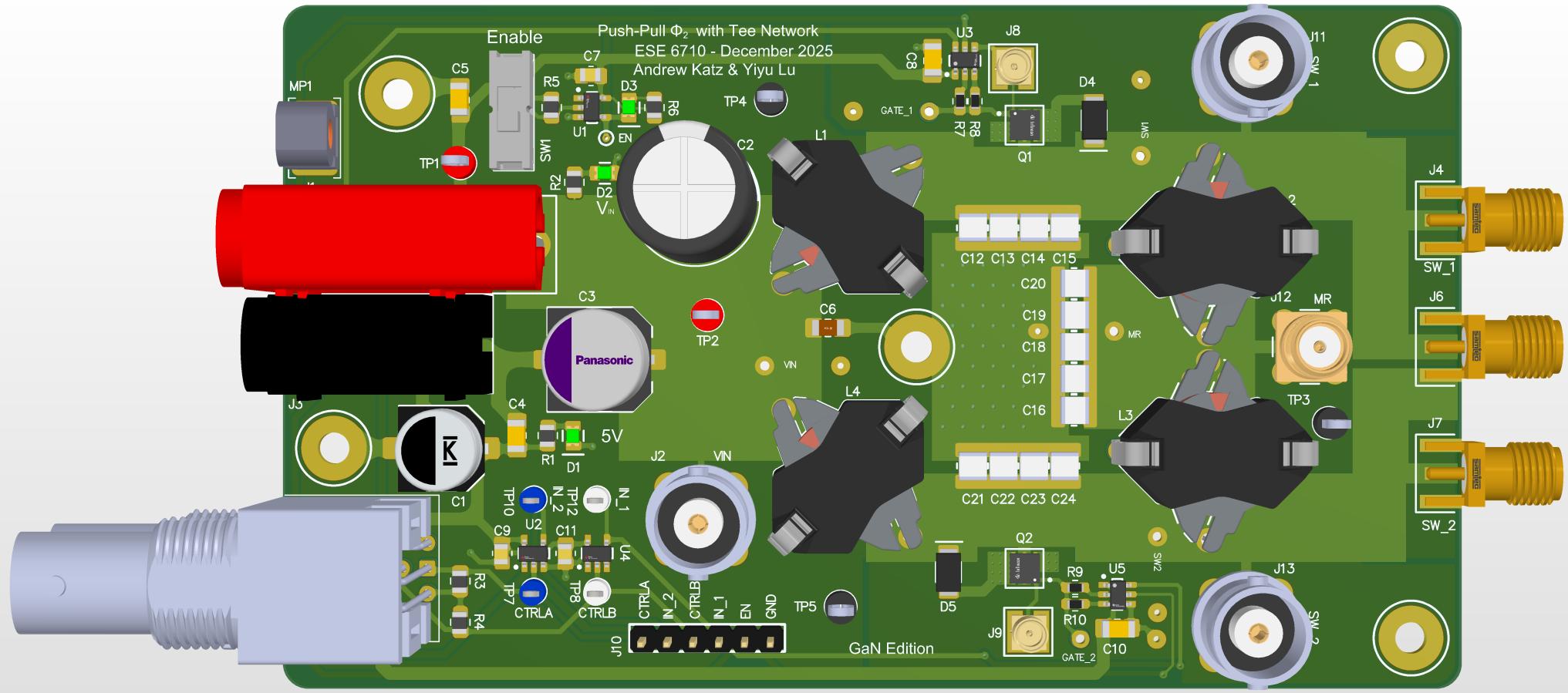
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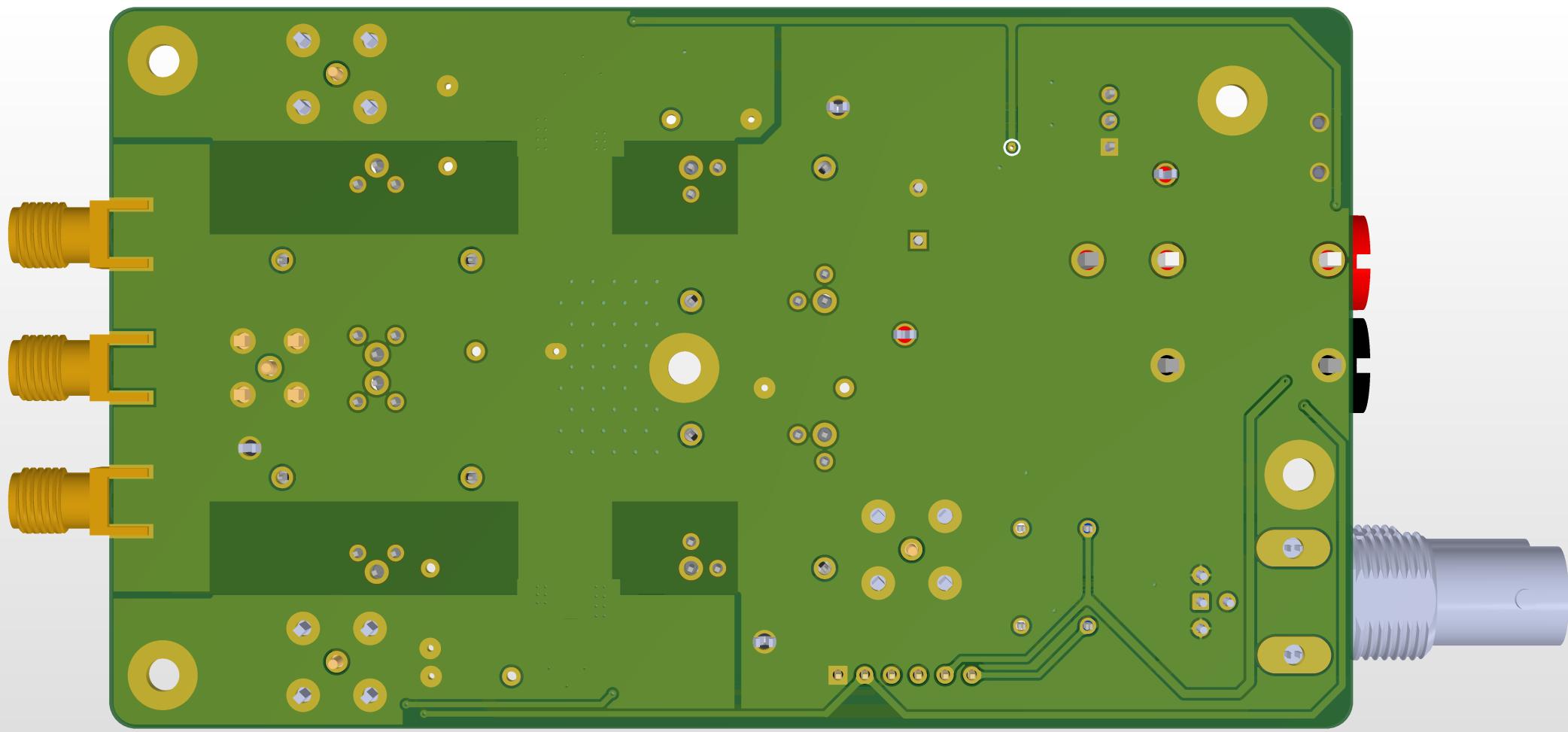


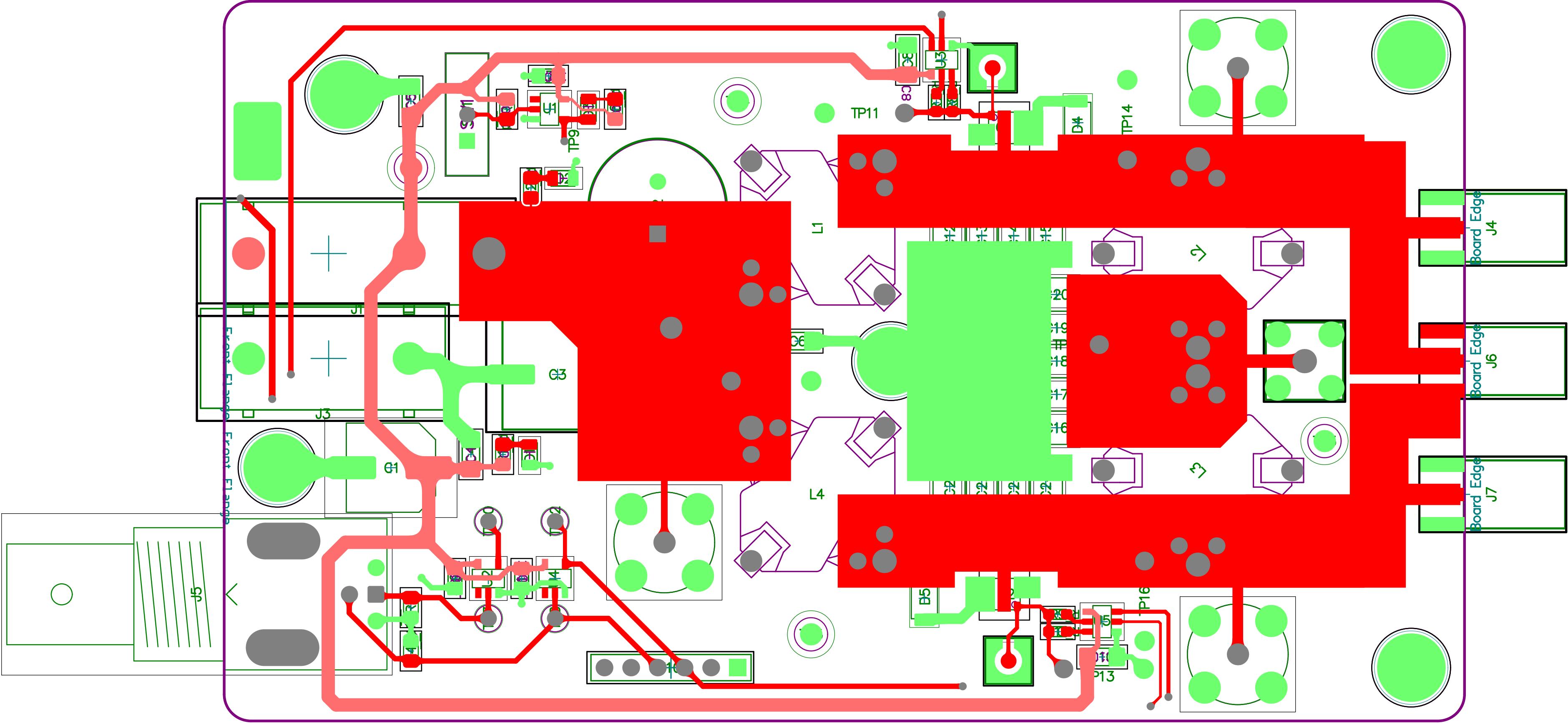
[www.seas.upenn.edu](http://www.seas.upenn.edu)

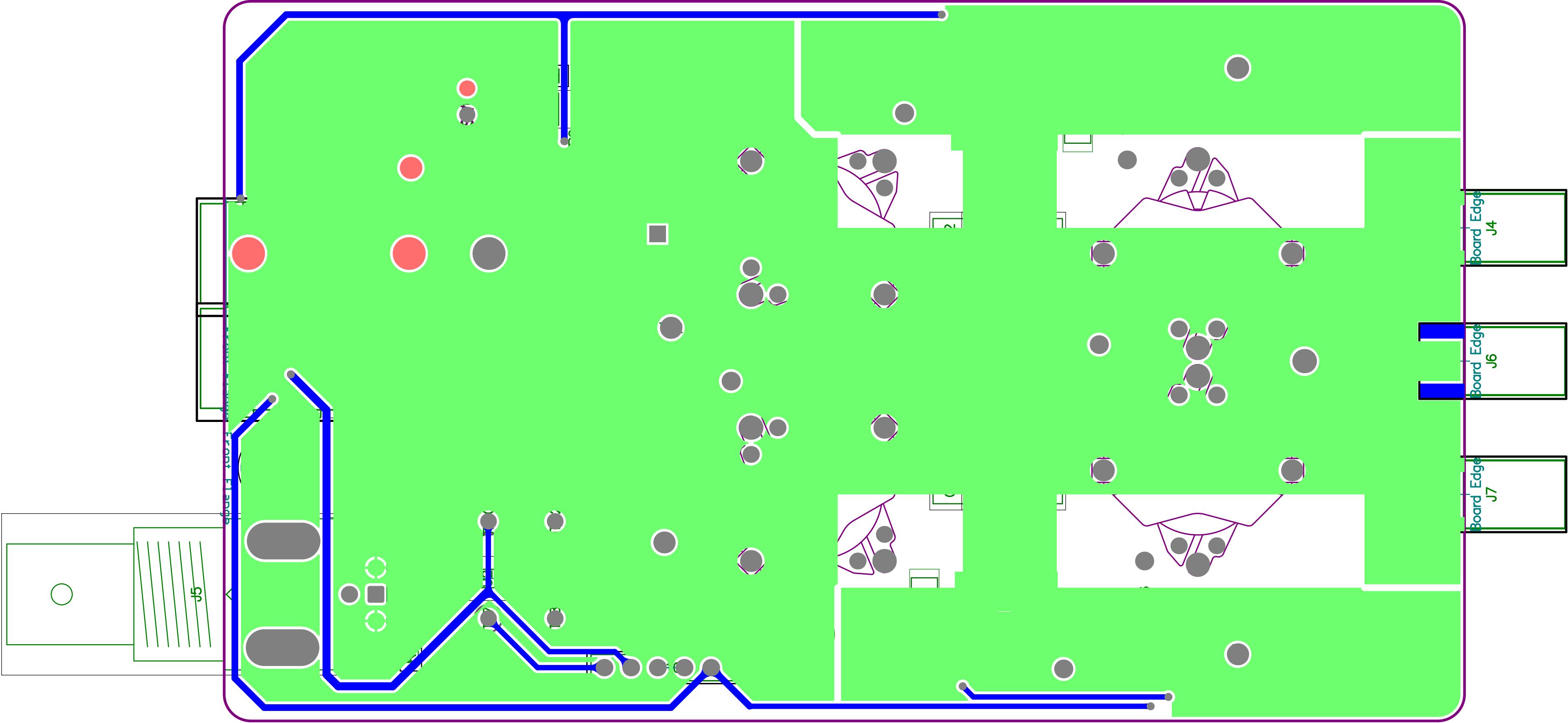
Electrical and Systems Engineering

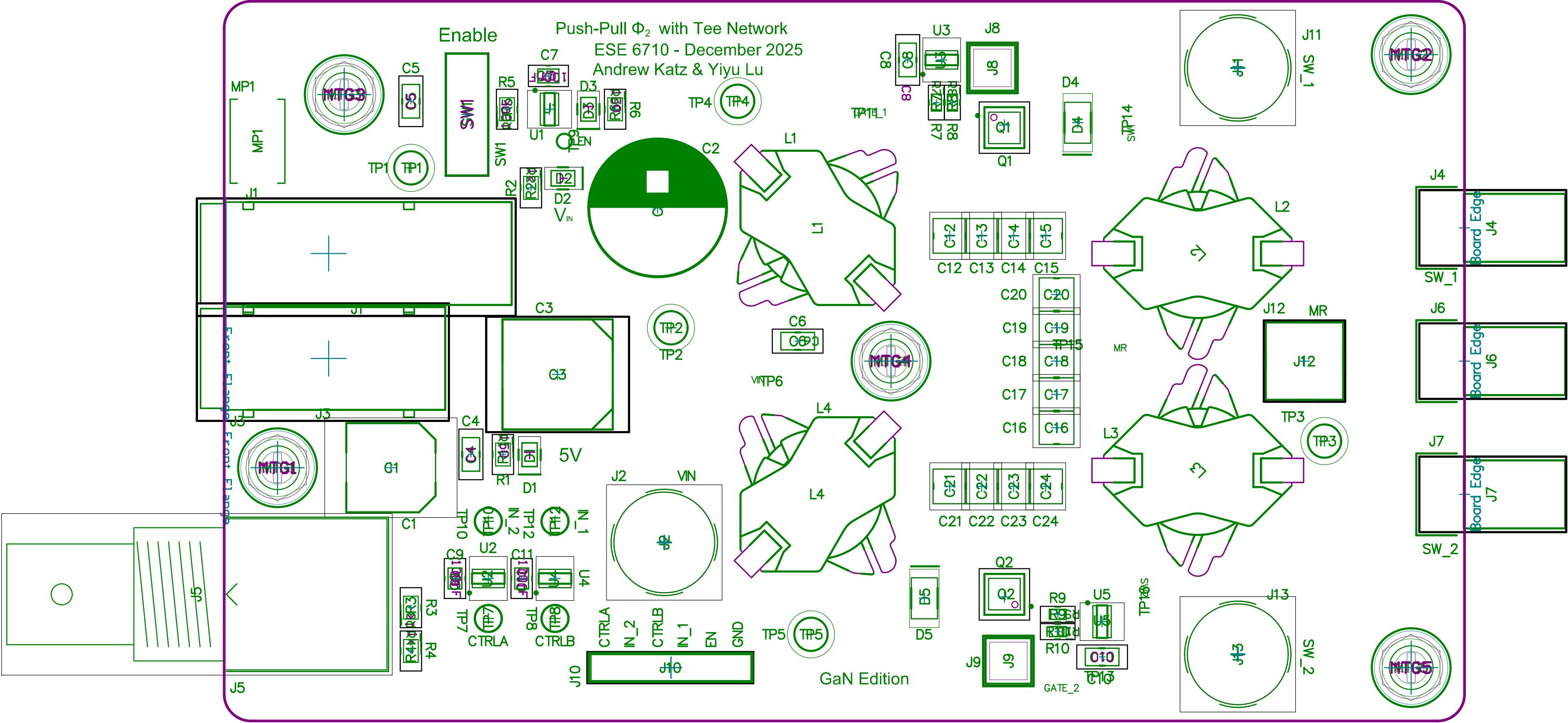
Proj: [aakatz ESE6710 Final Project.PrtPcb](#)

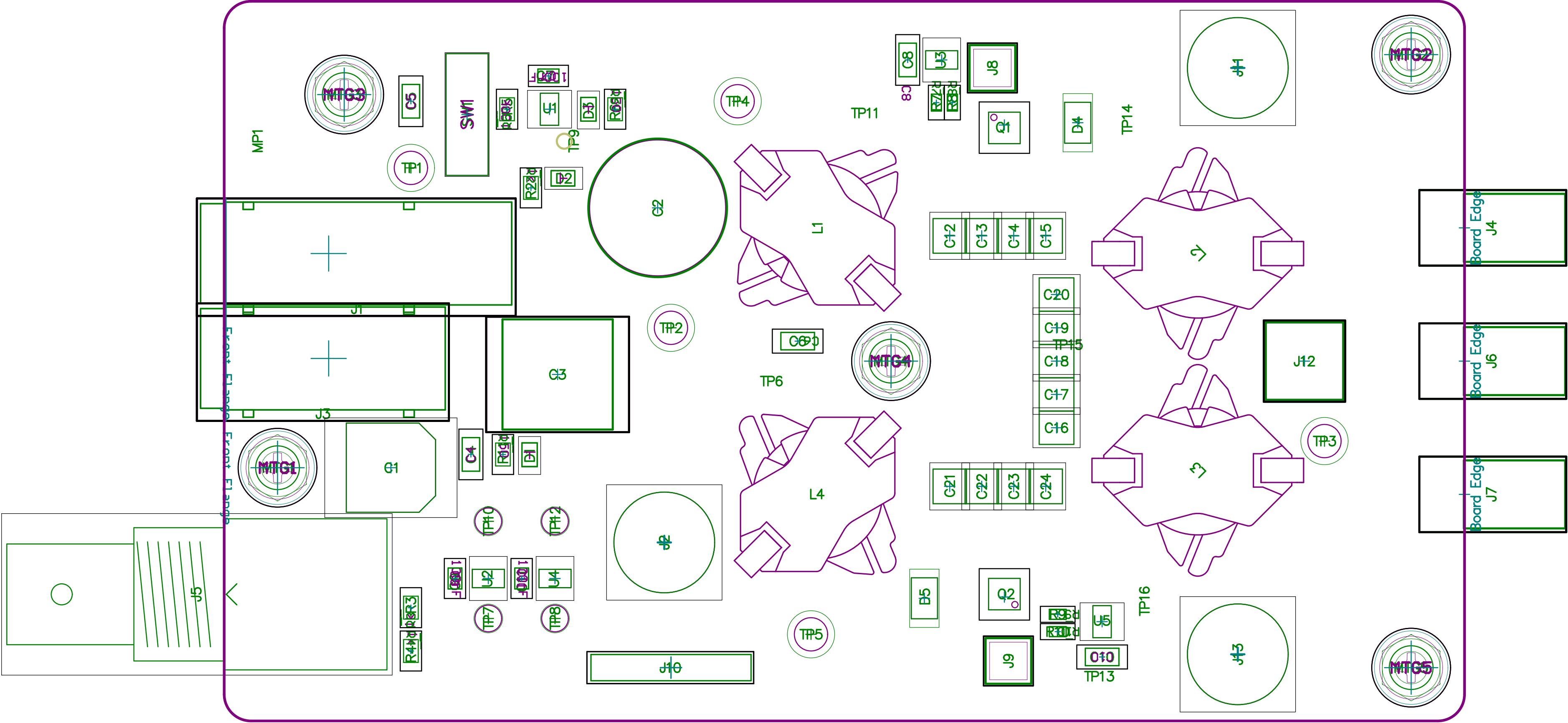


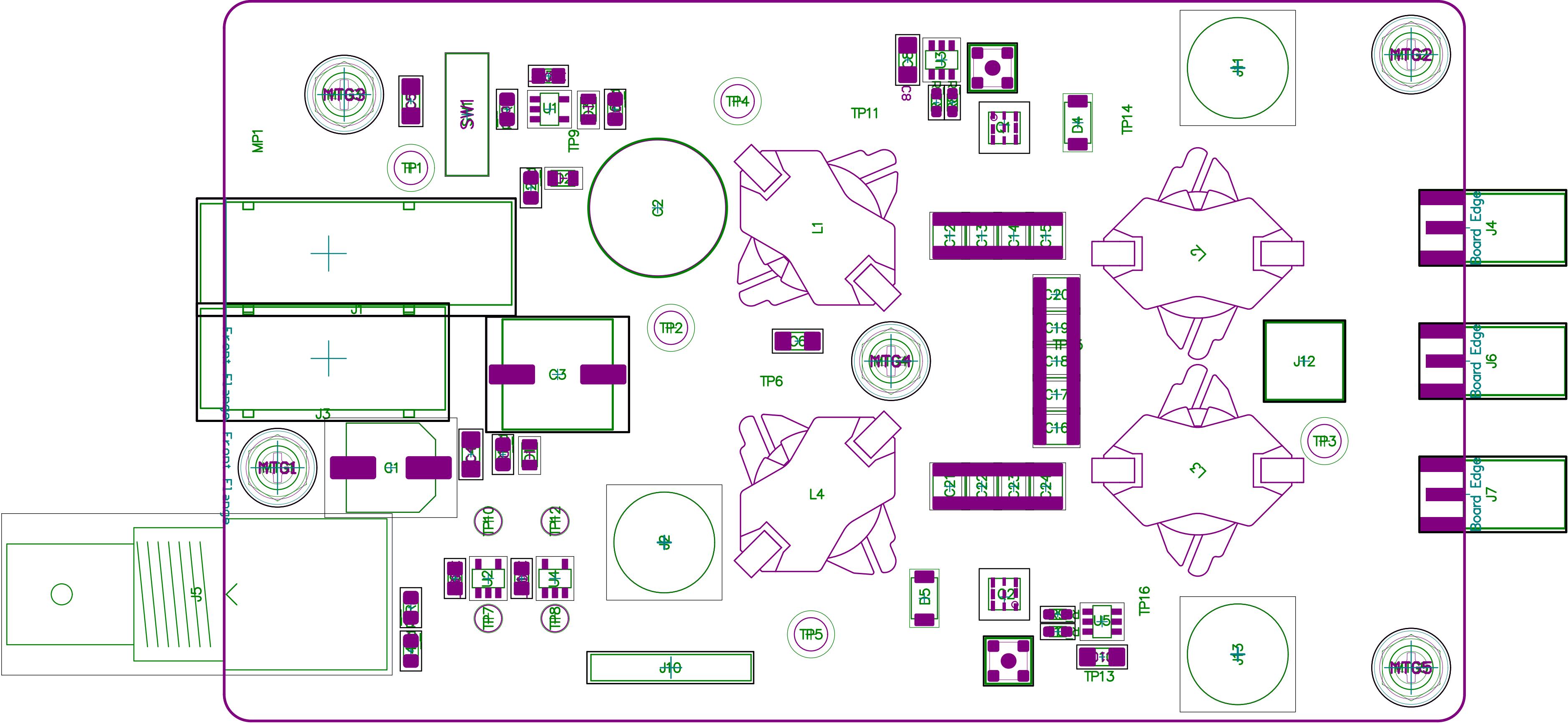


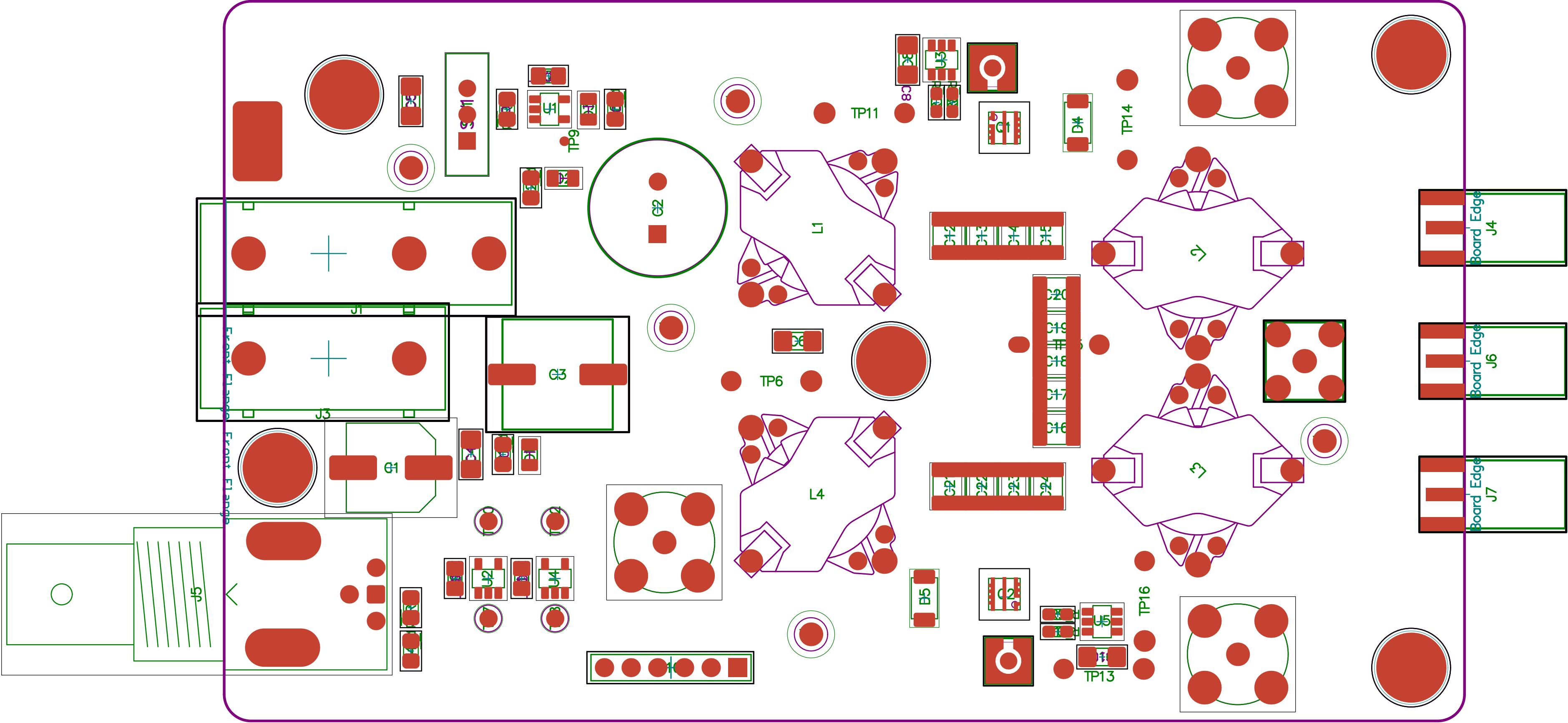


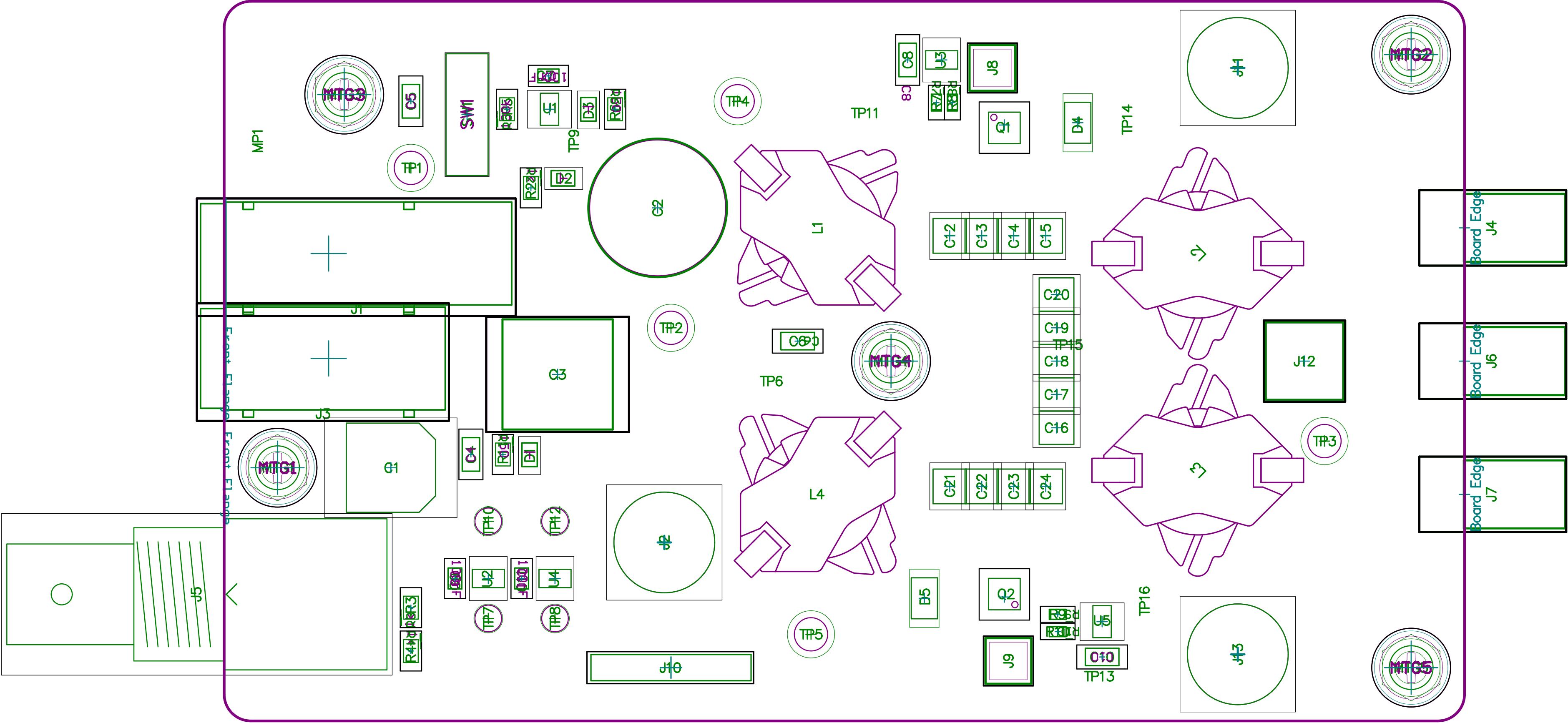


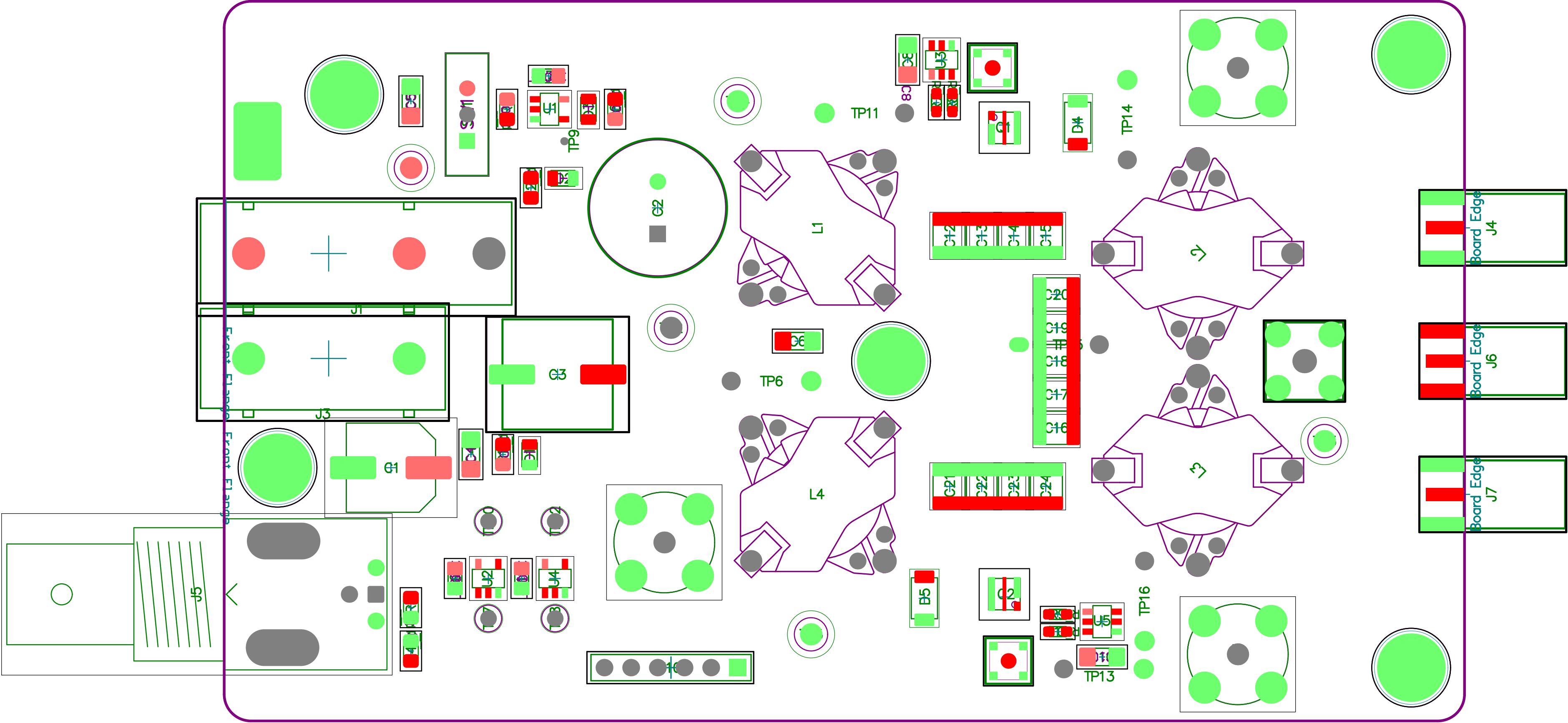


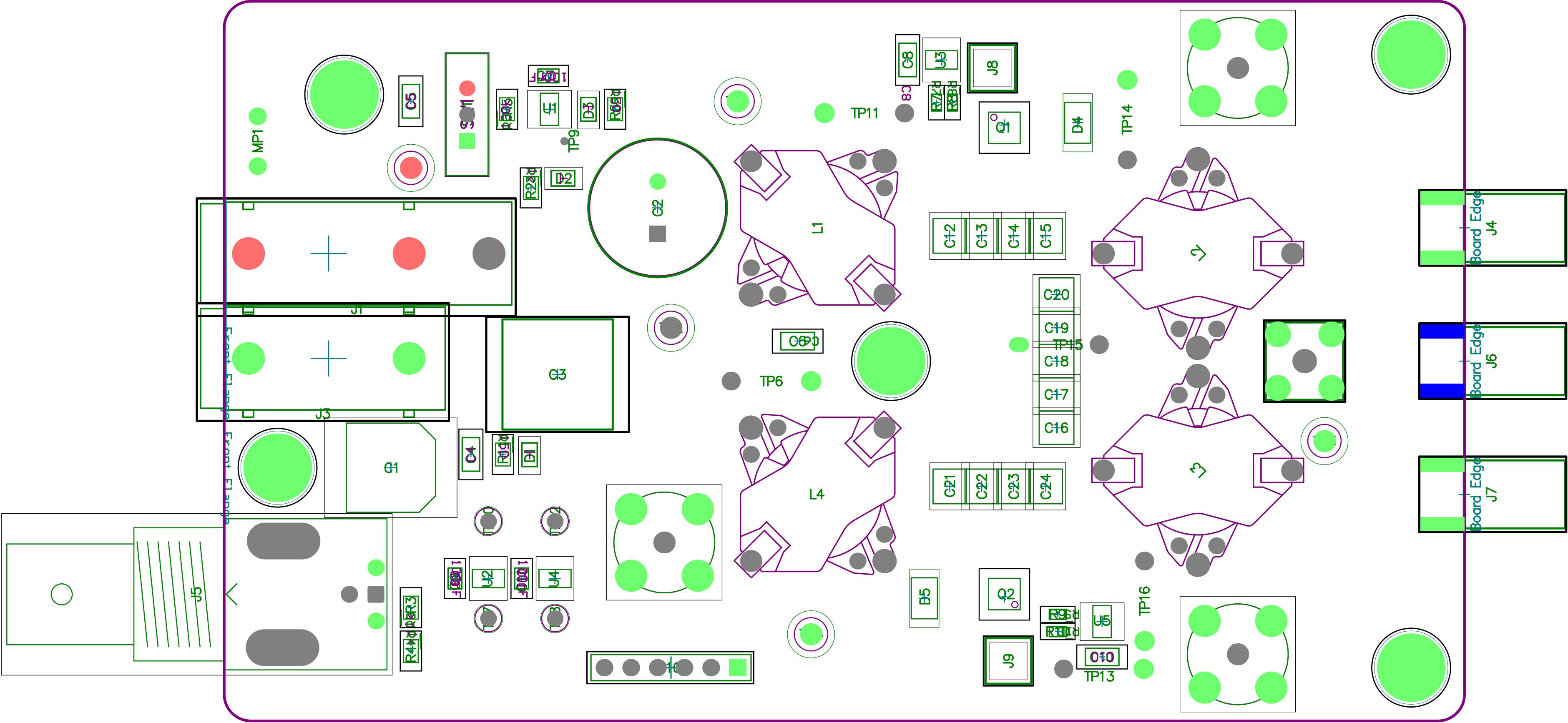


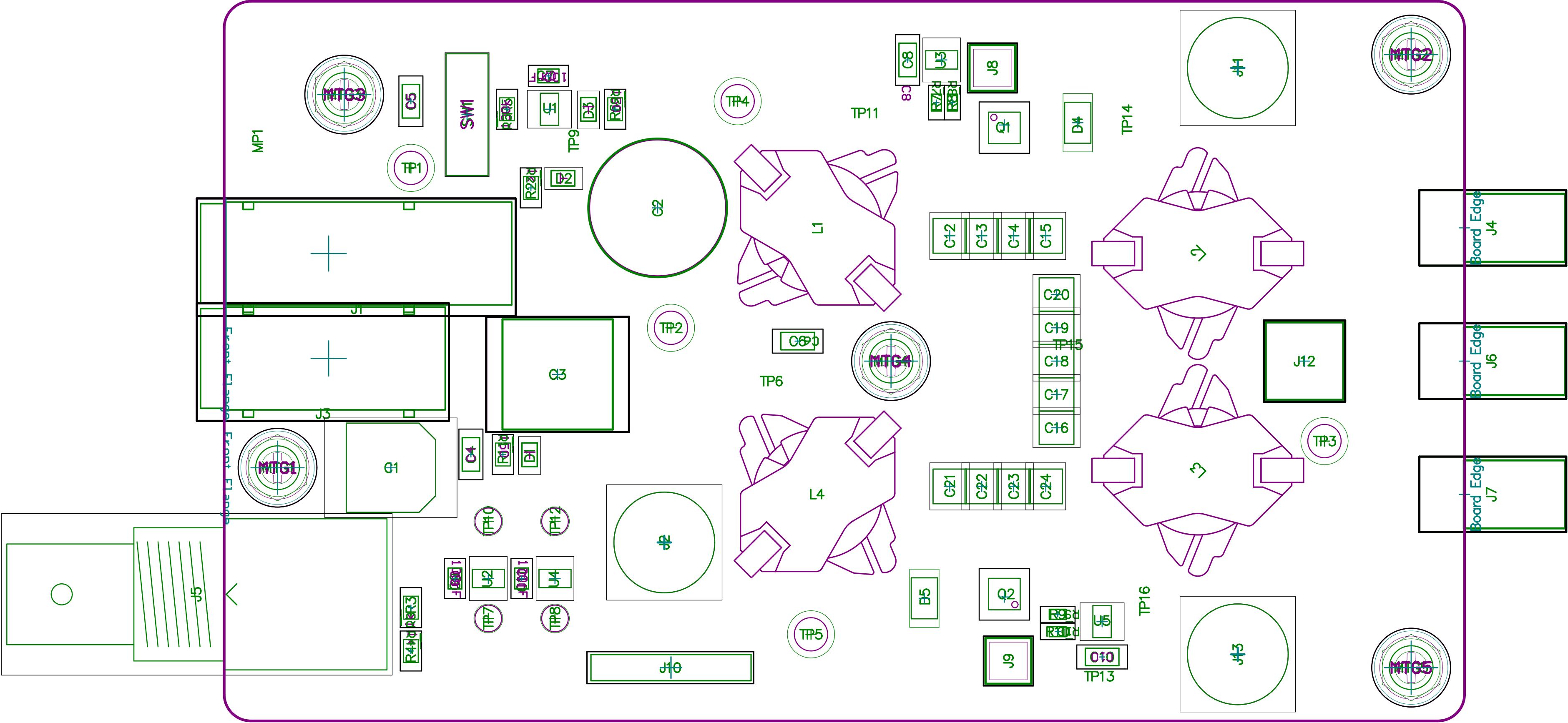


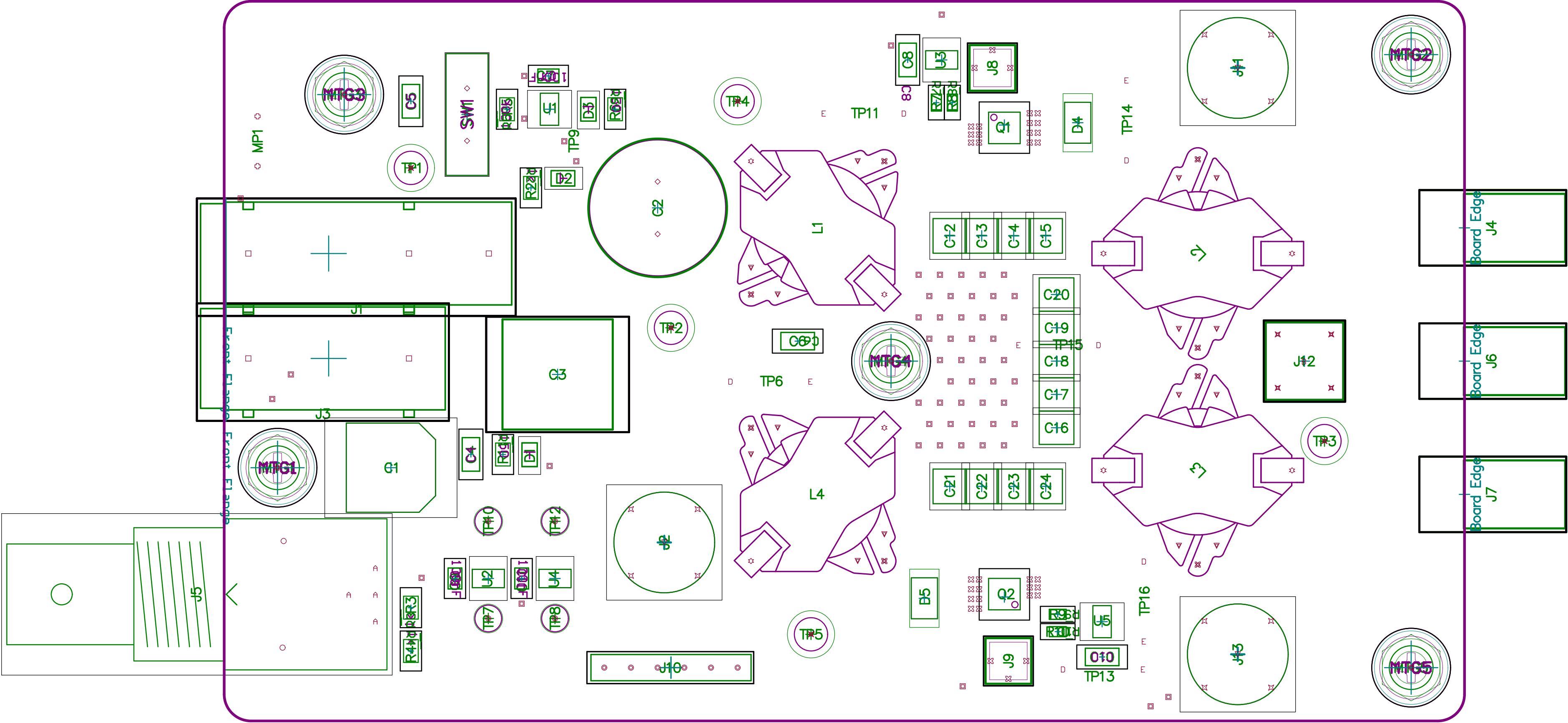


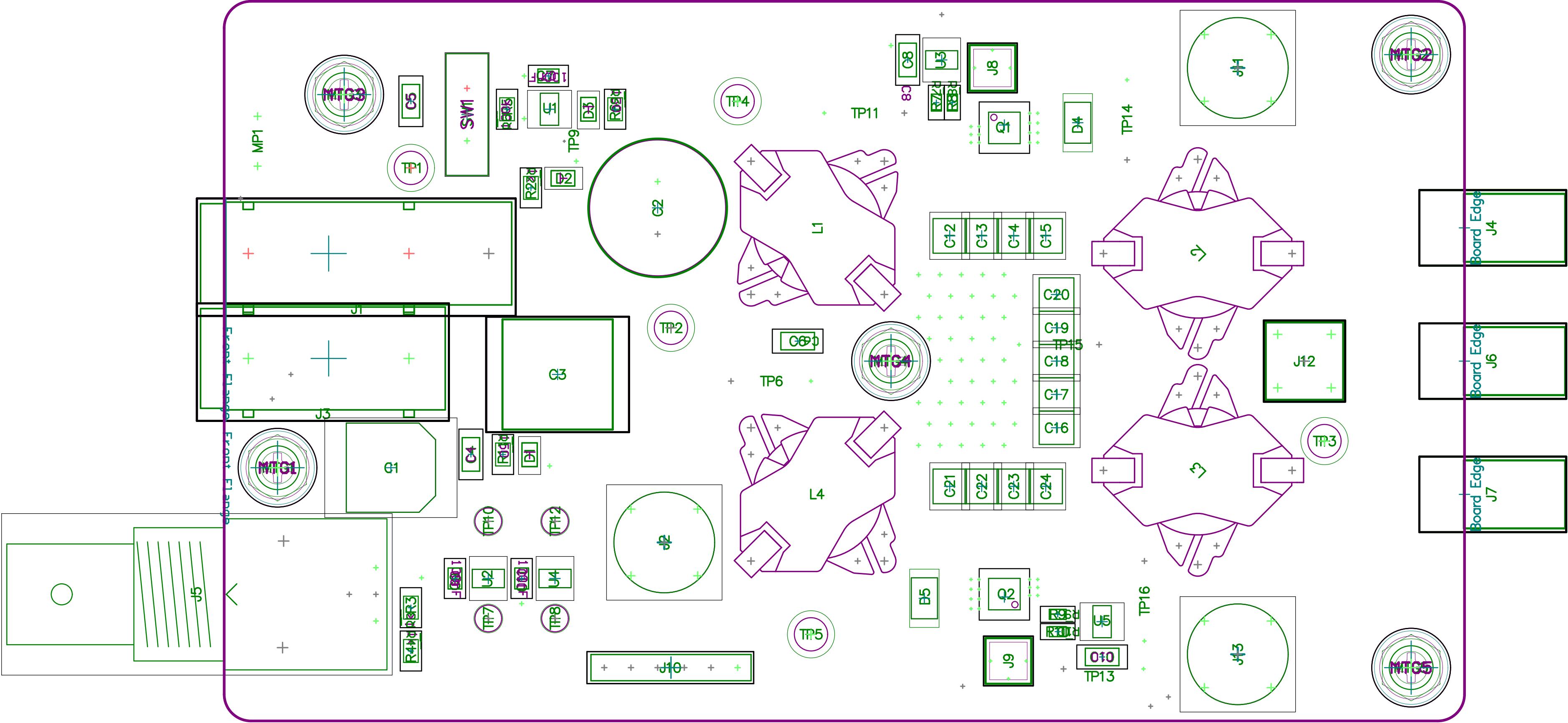












A

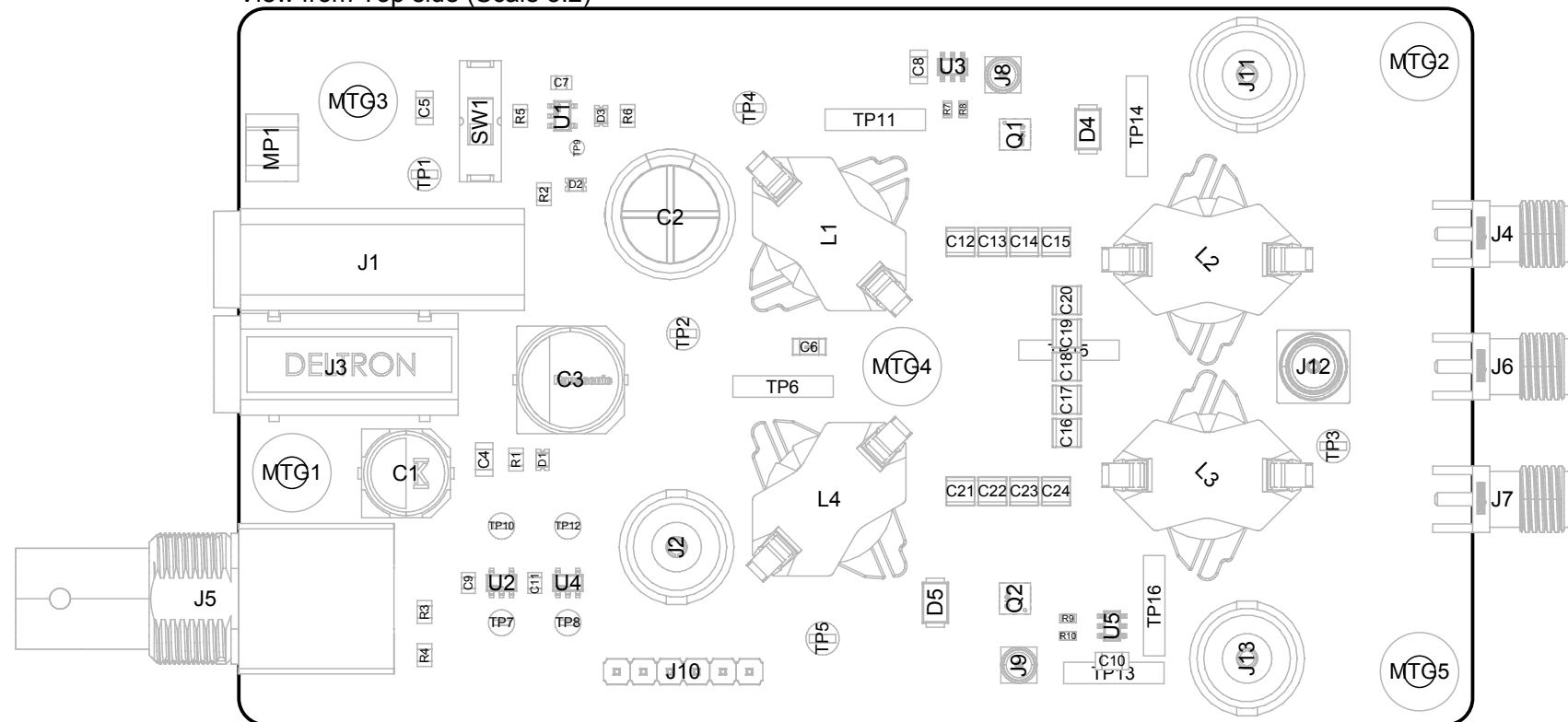
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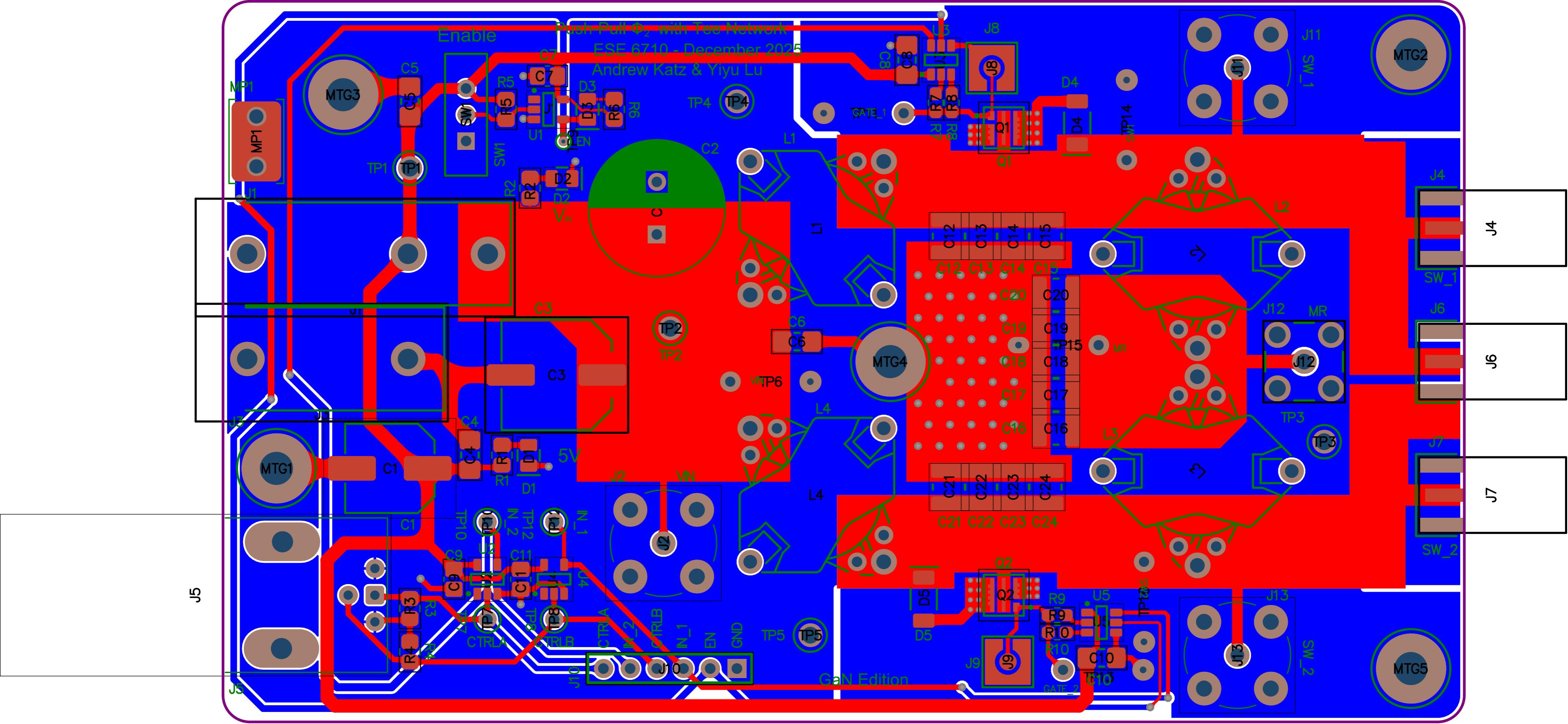
C

D

E

View from Top side (Scale 3:2)





LineNo	Name	Designator	Value	Quantity	Manufacturer	ManufacturerPartNumber
1	A768KE226M1JLAE054	C1	22µF	1	KEMET	A768KE226M1JLAE054
2	EEU-FC1H681L	C2	680µF	1	Panasonic	EEUFC1H681L
3	50SVPF68M	C3	68µF	1	Panasonic	50SVPF68M
4	CAP 1206 10UF 50V 10% X5R	C4, C5	10µF	2	Samsung Electro-Mechanics	CL31A106KBHNNNE
5	CAP 1206 0.1UF 100V 5% COG	C6	100nF	1	TDK	C3216C0G2A104J160AC
6	CAP 0805 0.1UF 50V 10% X7R	C7, C9, C11	100nF	3	Yageo Group	CC0805KRX7R9BB104
7	CAP 1206 1.0UF 50V 10% X7R	C8, C10	1µF	2	Samsung Electro-Mechanics	CL31B105KBHNNNE
8	800B271JT200XT	C13, C22	270pF	2	KYOCERA AVX	800B271JT200XT
9	800B471JT200XT1K	C17	470pF	1	KYOCERA AVX	800B471JT200XT1K
10	JR500HV	C18	8pF-50pF	1	Voltronics	JR500HV
11	800B5R6CT500XT	C23	5.6pF	1	KYOCERA AVX	800B5R6CT500XT
12	LSM0805452V	D1, D2, D3		3	VCC	LSM0805452V
13	RB058LAM100TFR	D4, D5		2	ROHM	RB058LAM100TFR
14	572-0500	J1		1	Deltron	572-0500
15	BNCTHT Vertical	J2, J11, J13	50Ω	3	Amphenol RF	B6251C1-NT3G-50
16	571-0100	J3		1	Deltron	571-0100
17	031-6575	J5		1	Amphenol RF	031-6575
18	CON-SMA-EDGE-S	J6		1	RF Solutions	CON-SMA-EDGE-S
19	135-3711-201	J8, J9		2	Cinch Connectivity Solutions	135-3711-201
20	MHDR 1X6	J10		1	Adam Tech	PH1-06-UA
21	RF2-04A-T-00-50-G	J12		1	Adam Tech	RF2-04A-T-00-50-G
22	RM6 Custom Inductor	L1, L4	2.754µH, 2.7857µH	2	EPCOS	B65808N1006D001
23	Custom Inductor, T106-0 Core	L2, L3	564.97nH, 566.72nH	2	Micrometals	T106-0
24	SMTRAM3-7-5ET	MP1		1	PennEngineering	SMTRAM3-7-5ET
25	IGB110S101XTMA1	Q1, Q2		2	Infineon	IGB110S101XTMA1
26	RES 0805 150 1%	R1, R6	150	2	Stackpole Electronics	RMCF0805FT150R
27	RES 0805 1K 1%	R2, R3, R4	1k	3	Stackpole Electronics	RMCF0805FT1K00
28	RES 0805 100K 1%	R5	100k	1	TE Connectivity	CRG0805F100K
29	RES 0603 0 5%	R7, R9	0	2	Stackpole Electronics	RMCF0603ZT0R00
30	RES 0603 1.5 1%	R8, R10	1.5	2	Stackpole Electronics	RMCF0603FT1R50
31	EG1218	SW1		1	E-Switch	EG1218
32	5280	TP1, TP2		2	Keystone	5280
33	5281	TP3, TP4, TP5		3	Keystone	5281
34	5117	TP7, TP10		2	Keystone	5117
35	5002	TP8, TP12		2	Keystone	5002
36	SN74LVC1G04DBVR	U1		1	Texas Instruments	SN74LVC1G04DBVR
37	SN74LVC1G34DBVR	U2, U4		2	Texas Instruments	SN74LVC1G34DBVR
38	LM5114AMF/NOPB	U3, U5	310mΩ	2	Texas Instruments	LM5114AMF/NOPB