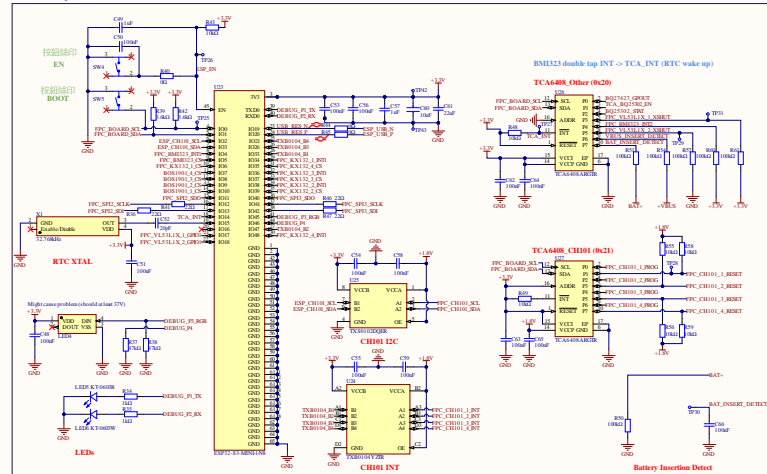
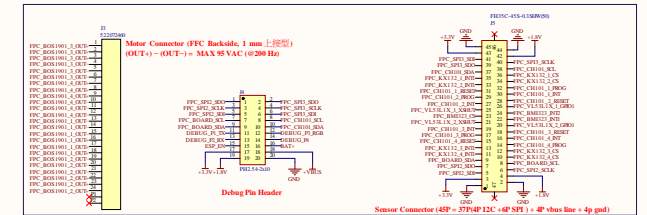
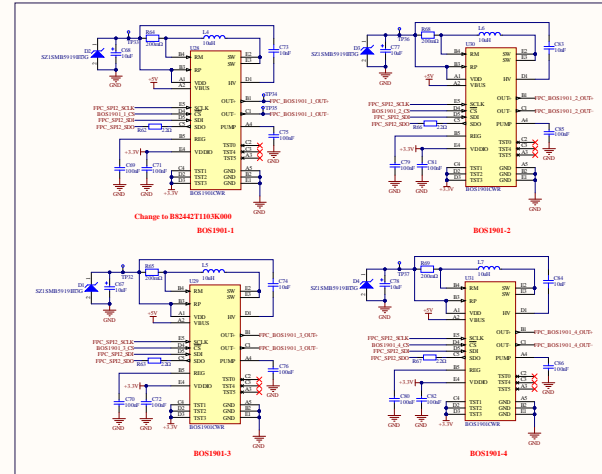


Main System - ESP32 S3 MINI



Main System - BOS1901 Group

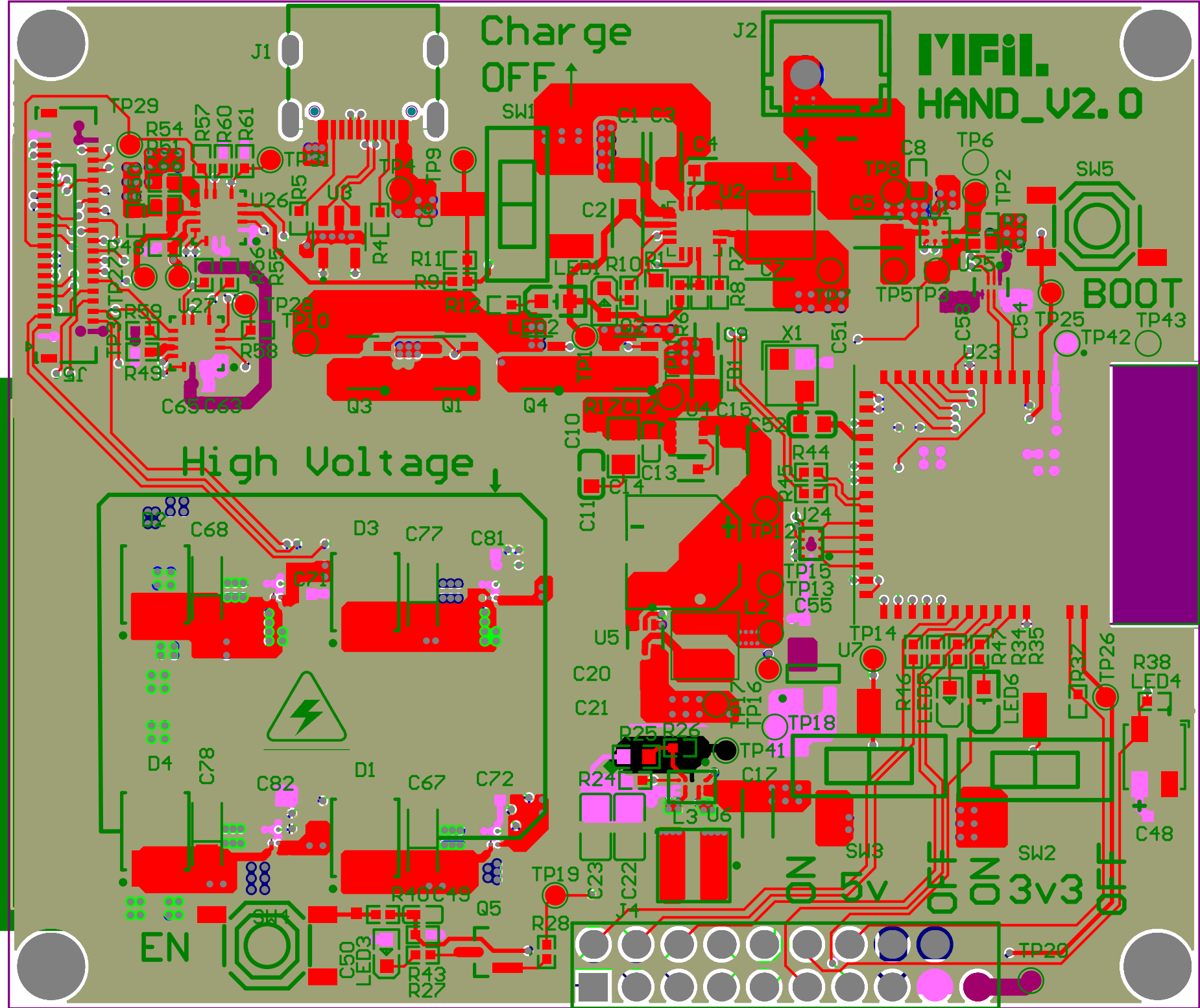


Main System - Connectors

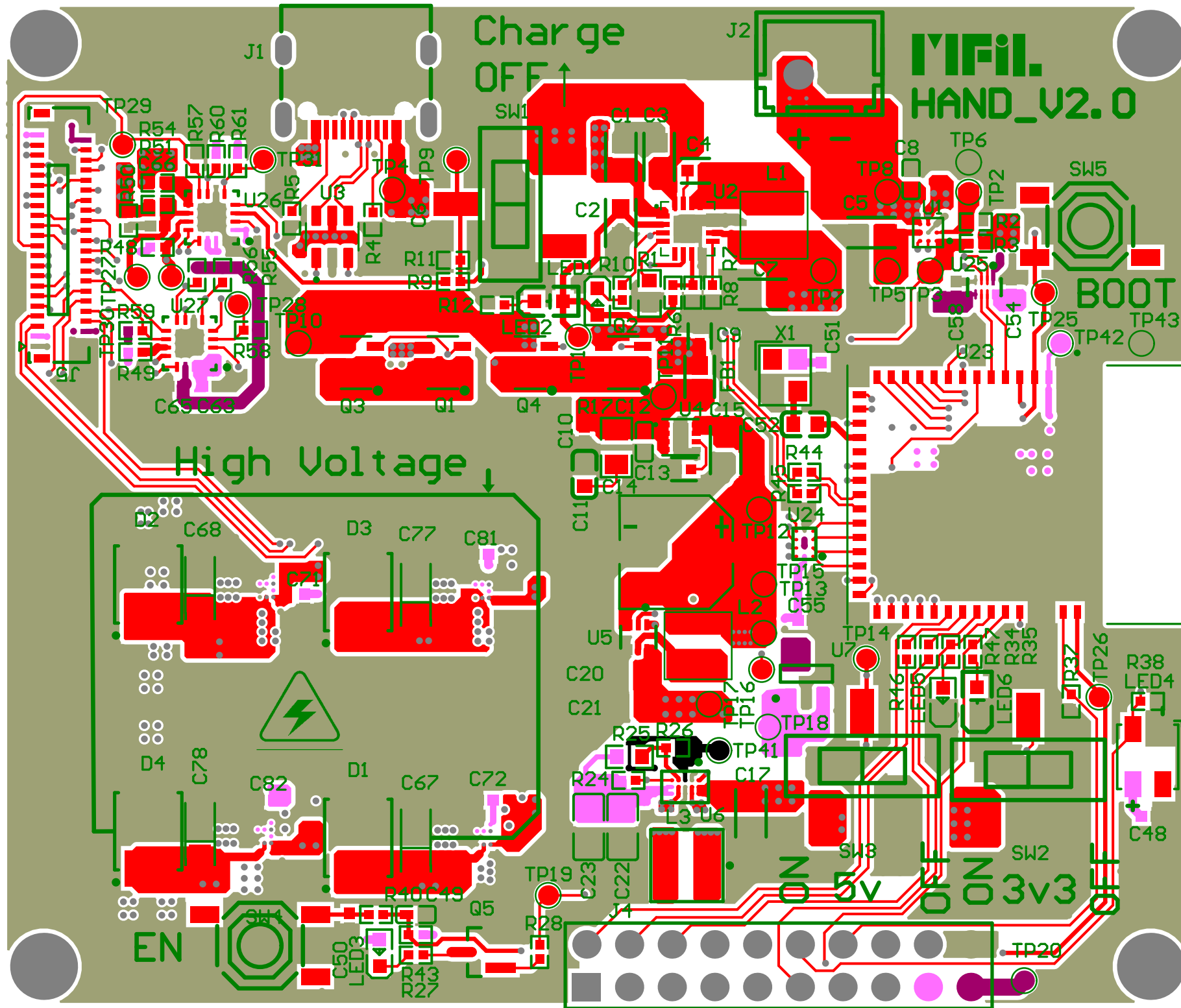
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1.4	1.4	1.4
1.5	1.5	1.5
1.6	1.6	1.6
1.7	1.7	1.7
1.8	1.8	1.8
1.9	1.9	1.9
2.0	2.0	2.0
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2.7	2.7	2.7
2.8	2.8	2.8
2.9	2.9	2.9
3.0	3.0	3.0
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3.6	3.6	3.6
3.7	3.7	3.7
3.8	3.8	3.8
3.9	3.9	3.9
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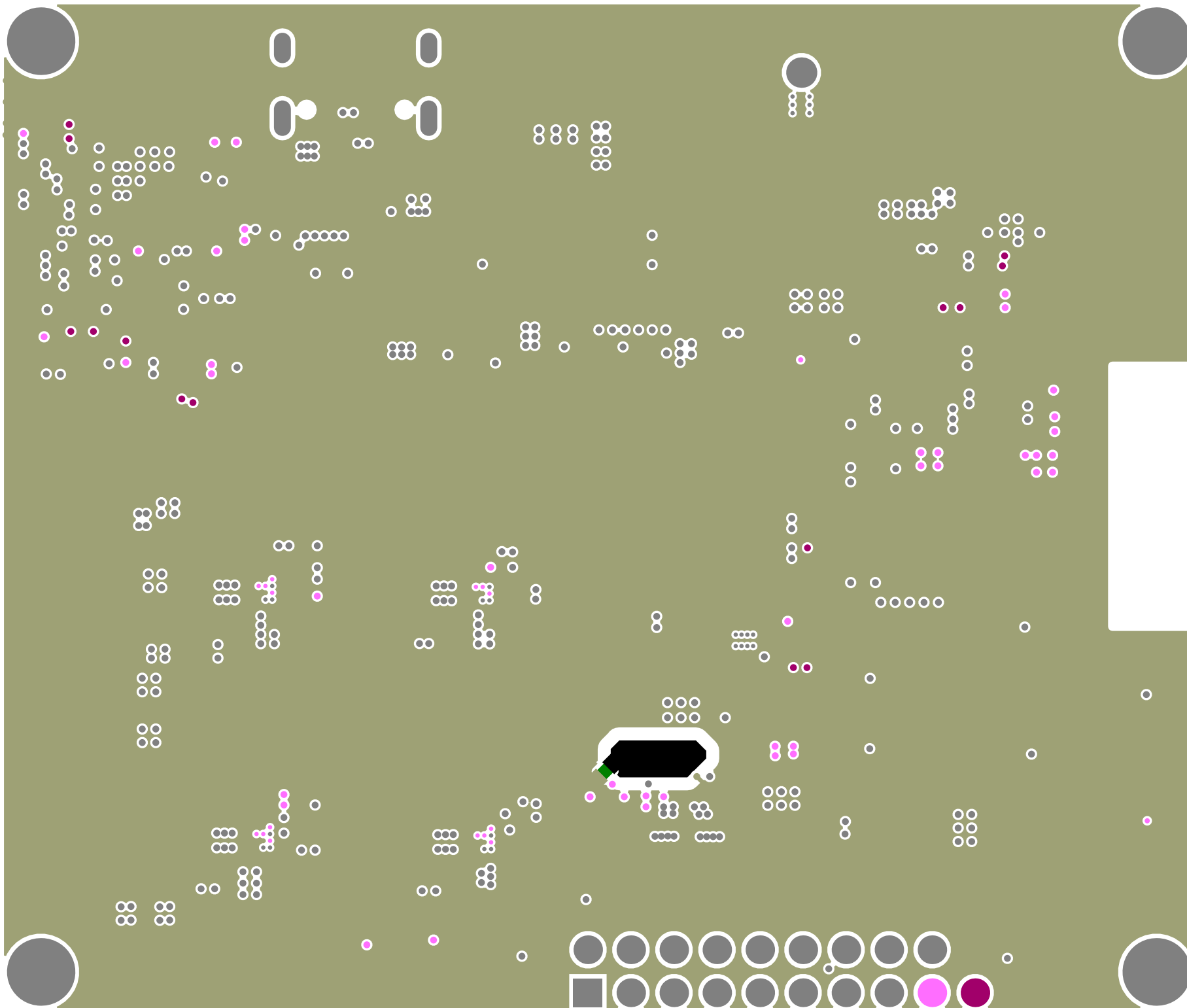
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Size A4	Number	Revision
Date 1/30/2025	Sheet of	
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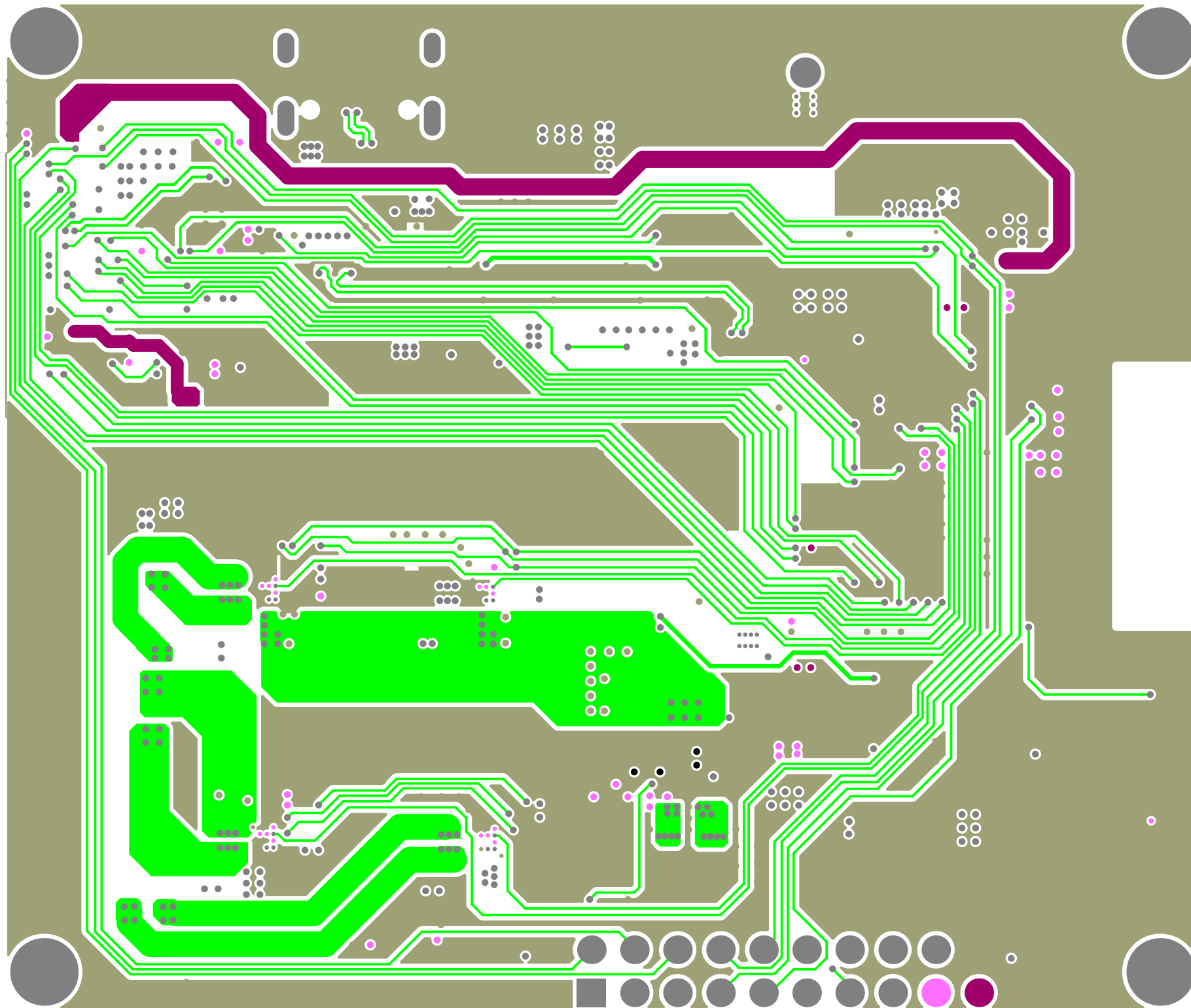


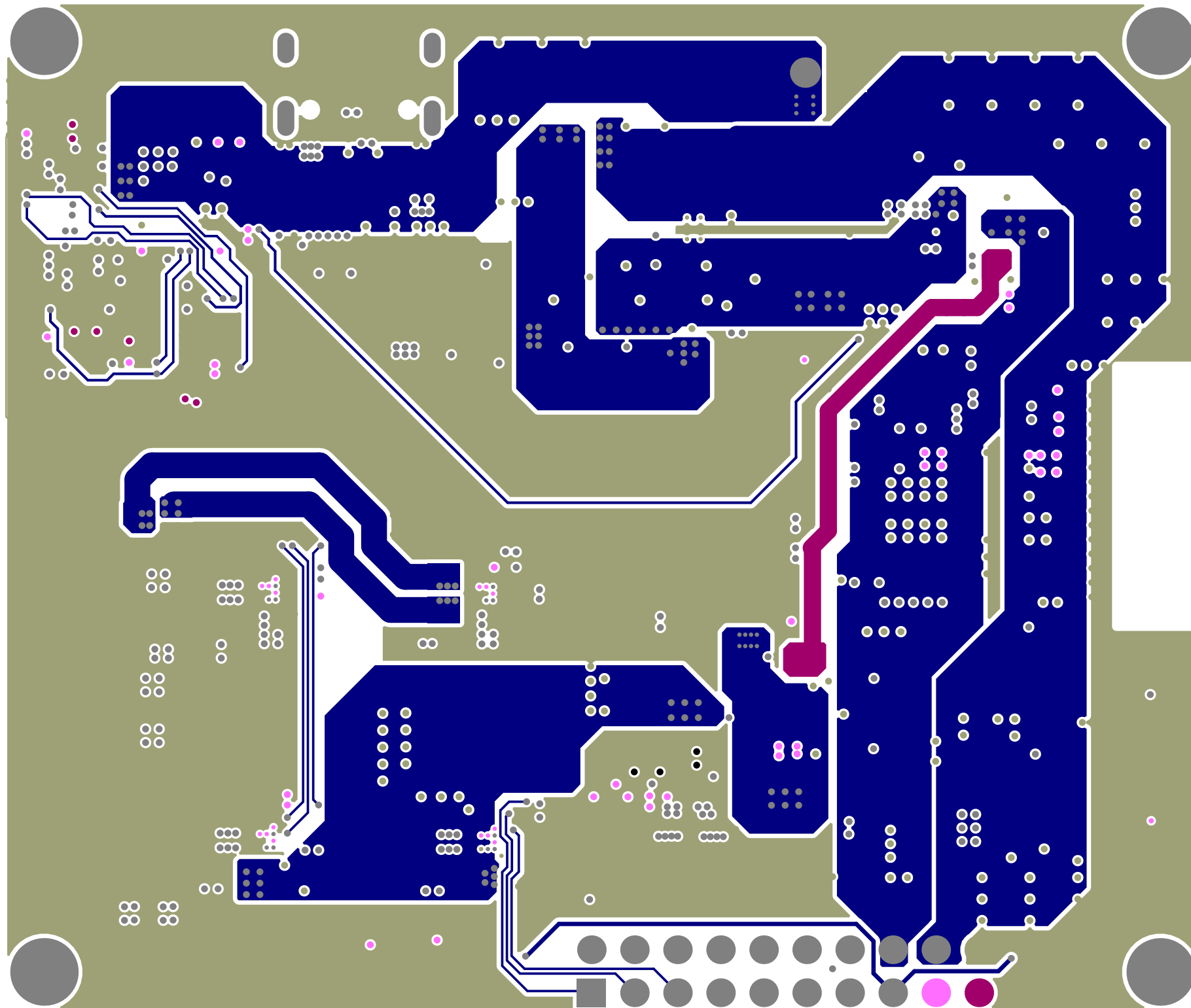
6mil/7.8mil 填树脂

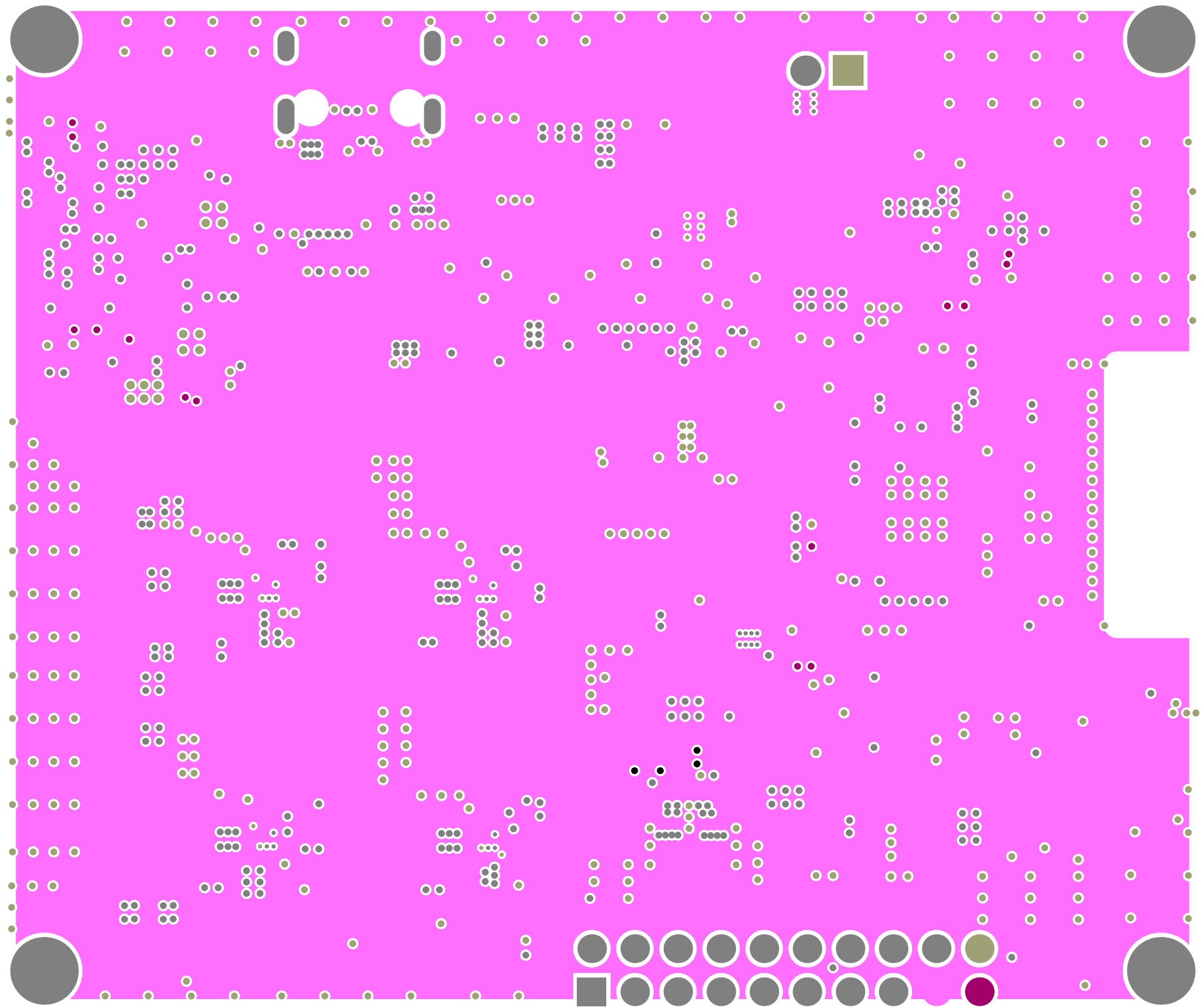


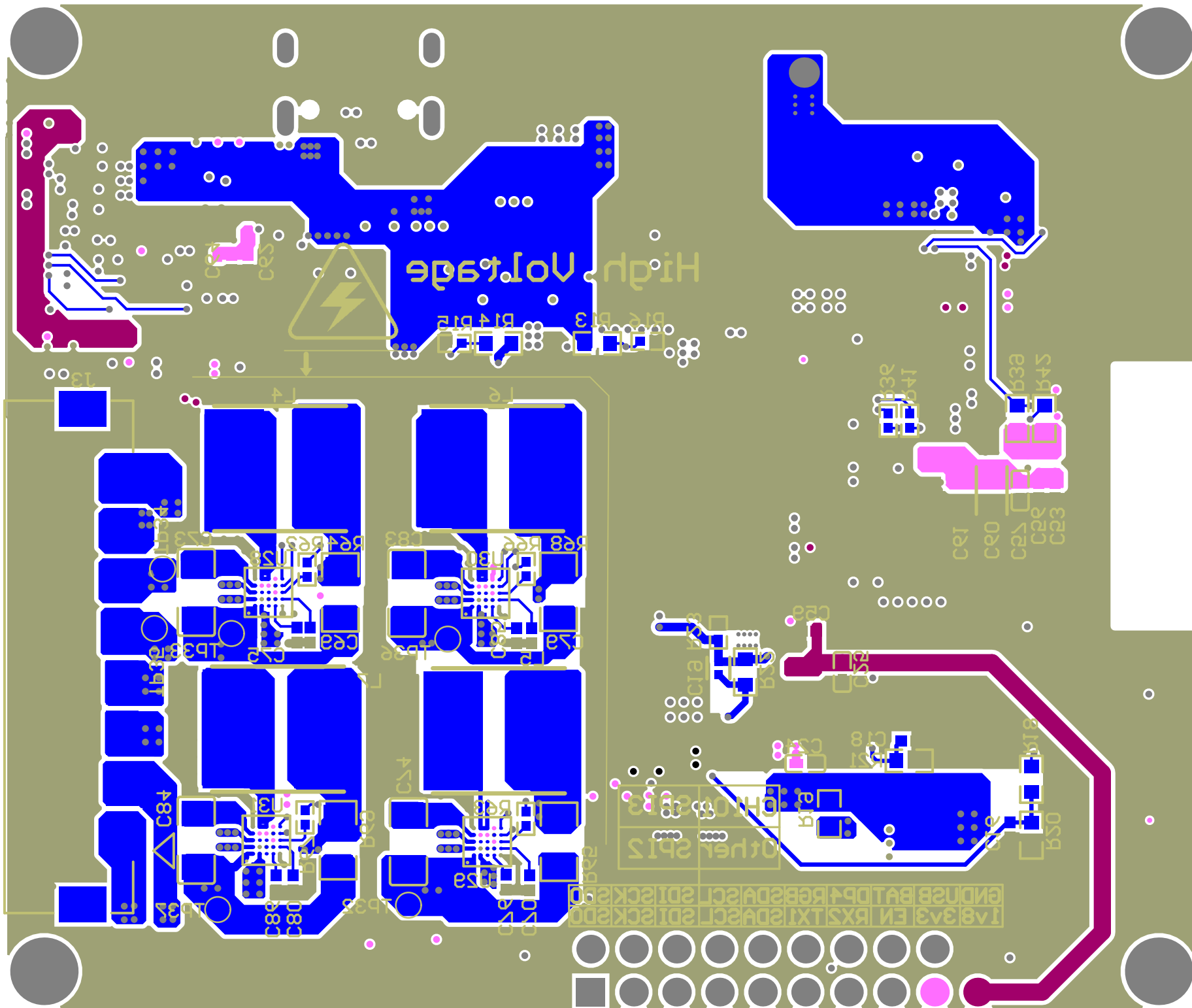
6mil/7.8mil 填树脂











Board Stack Report

Comment	Designator	Footprint	Supplier Part
2.2uF	C1, C2, C3	FP-CL10-IPC_A	
10uF	C3, C7, C15, C17, C60	FP-CL10-IPC_A	
47nF	C4	FP-CL579-IPC_A	
100nF	C6, C10, C16, C18, C48, C50, C51, C53, C54, C55, C56, C58, C59, C62, C63, C64, C65, C66, C69, C70, C71, C72, C75, C76, C79, C80, C81, C82, C85, C86	CAPC1050X55X23NL05 T13	
1uF	C8, C12, C24, C25, C49, C57	C0402	C52923
10nF	C9, C13	FP-CL165-IPC_B	
4.7uF	C11	C0603	C19666
100uF	C14	CAP-SMD_BD6.3+L6.6-W6.6-L57.2-FD	C2904878
3pF	C19	FP-GIM155-0_05-IPC_C	
22uF	C20, C21, C61	CAPC2013X140X45ML1 5T25	
47uF	C22, C23	C0805	C16780
20pF	C52	C0603	C1648
10uF	C67, C68, C77, C78	CAP-SMD_L3.2-W1.6-RD-C7171	C7171
10nF	C73, C74, C83, C84	C1206	C1021645
SZ15MB59198T3G	D1, D2, D3, D4	ONSC-SMB-2-403A-03_H_V	
70Ω	FB1	FP-BLM18-0_15-10_5-d1_2-IPC_B	
TYPE-C16PIN	J1	USB-C-SMD_TYPE-C16PIN	C393939
ZX-XH2.54-2PZZ	J2	CONN-TH_2P-P2.50_HX25003-2A	C7429632
522072460	J3	CON_522072460_MOD	
PH2.54-2x10	J4	HDR-TH_20P-P2.54-V-M-R2-CL0-S2.54	C5116480
FH35C-45S-0.35HW(SD)	J5	FPC-SMD_FH35C-45S-0.35HW-50	C424664
1uH	L1, L2	XEL4030101MED	
0.47uH	L3	FP-WP4015-MFG	
10uH	L4, L5, L6, L7	IND-SMD_L7.8-W7.0-A	C171577
KT-0603R	LED1, LED5	LED0603-RD	C2286
KT-0603W	LED2, LED6	LED0603-R-RD_WHITE	C2290
19-213/Y2C-CQ2R2L/3T(CY)	LED3	LED0603-RD-YELLOW	C72038
WS2812B-MINI-V3/W	LED4	LED-SMD_4P-L3.5-W3.5-TL_WS2812B	C527089
DMP2035UVT-7	Q1, Q2, Q3, Q4	SOT-26_L3.0-W1.6-P0.95-L52.8-BL	C260934
AQ3400A	Q5	FP-SOT23-IPC_A	
27kΩ	R1	R0603	C22967
10kΩ	R2, R3, R6, R7, R9, R43, R48, R49, R55, R56, R58, R59	R0402	C25744
5.1kΩ	R4, R5	R0402	C25905
330kΩ	R8	R0402	C25104
1.5kΩ	R10, R12, R27	R0402	C25867
100kΩ	R11, R15, R16, R23, R24, R50, R51, R54, R57, R60, R61	R0402	C25741
100Ω	R13, R14	R0603	C22775
1Ω	R17	R0805	C25271
75kΩ	R18, R19	R0603	C23242
49.9kΩ	R20, R21	R0603	C23184
732kΩ	R22	R0603	C246003
511kΩ	R25	R0603	C188257
91kΩ	R26	R0402	C144733
1kΩ	R28, R34, R35	R0402	C11702
22Ω	R36, R41, R46, R47, R62, R63, R66, R67	R0402	C25092
47kΩ	R37, R38	R0402	C25792
3.6kΩ	R39, R42	R0603	C22980
0Ω	R40, R44, R45	R0402	C17168
200mΩ	R64, R65, R68, R69	R1206	C2932839
MST-22D18G2 3J	SW1, SW2, SW3	SW-SMD_SHOUHAN_MST-22D18G23J_C2875122	C2875122
TS-1187A-B-A-B	SW4, SW5	SW-SMD_4P-L5.1-W5.1-P3.70-L56.5-TL-2	C318884
Test point	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP41, TP42, TP43	Test_Point	
BQ27427YZFR	U1	DSBGA-9_L1.6-W1.6-R3-C3-P0.50-TL	C6075475
BQ25302RTER	U2	WQFN-16_L3.0-W3.0-P0.50-BL-EP1.7	C2761617
USBLC6-25C6	U3	SOT95P280X145-6N	
TPS22965DSGR	U4	UDFN-8_L2.0-W2.0-P0.50-TL-EP	C122837
TPS61023DRLR	U5	FP-DRL0006A-MFG	
TPS63806YFRR	U6	FP-YFF0015-MFG	
TLV70218DBVR	U7	DBV0005A_M	
ESP32-S3-MINI-1-N8	U23	XCVR_ESP32-S3-MINI-1-N8	
TXB0104YZTR	U24	FP-YZT0012-IPC_B	
TXS0102DQER	U25	FP-DQE0008A-IPC_C	
TCA6408ARGTR	U26, U27	RGTO016A_V	
BOS1901CWR	U28, U29, U30, U31	BOS1901_BGA25C40PS XS_212X224X66	
32.768kHz	X1	OSC-SMD_4P-L2.5-W2.0-BL	C669098