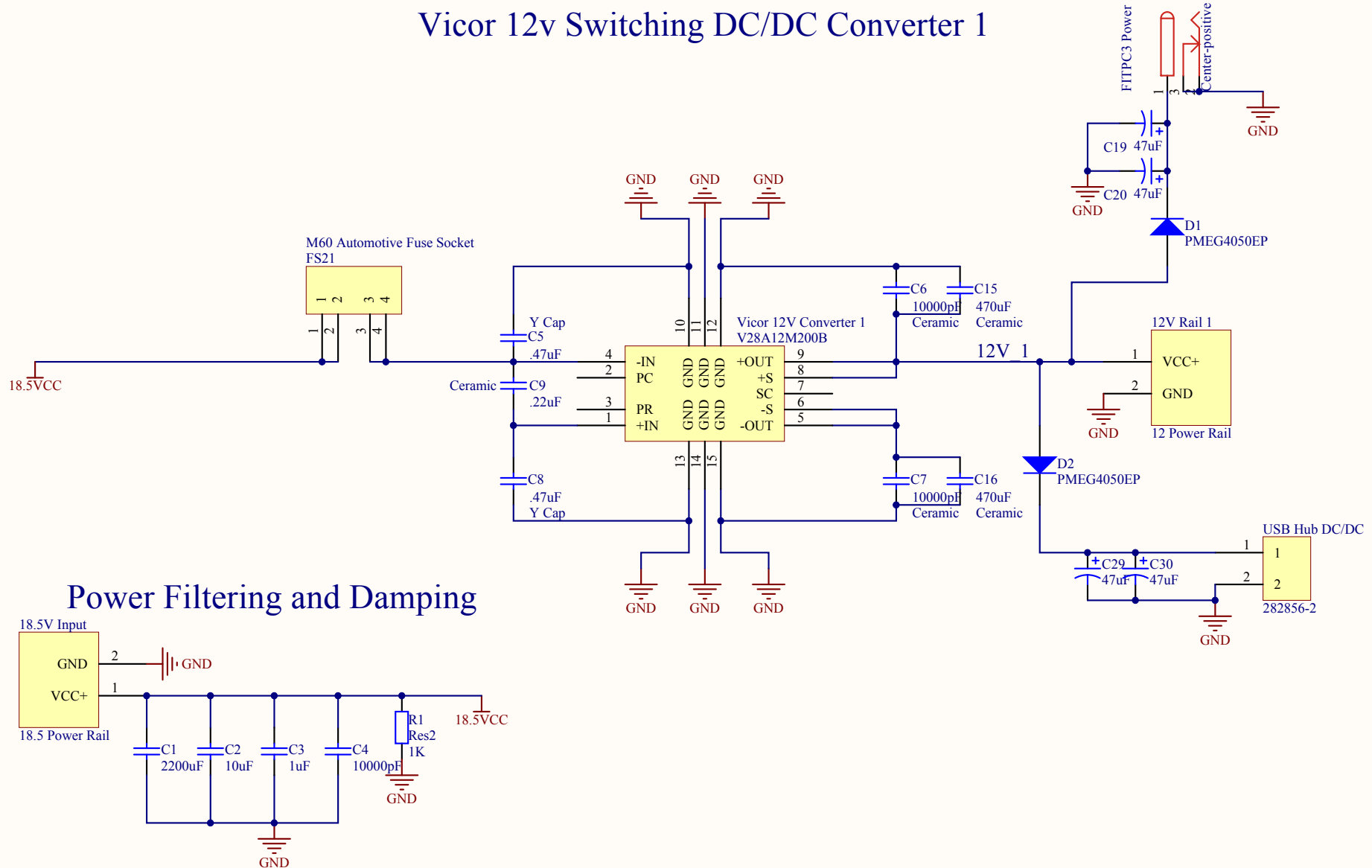


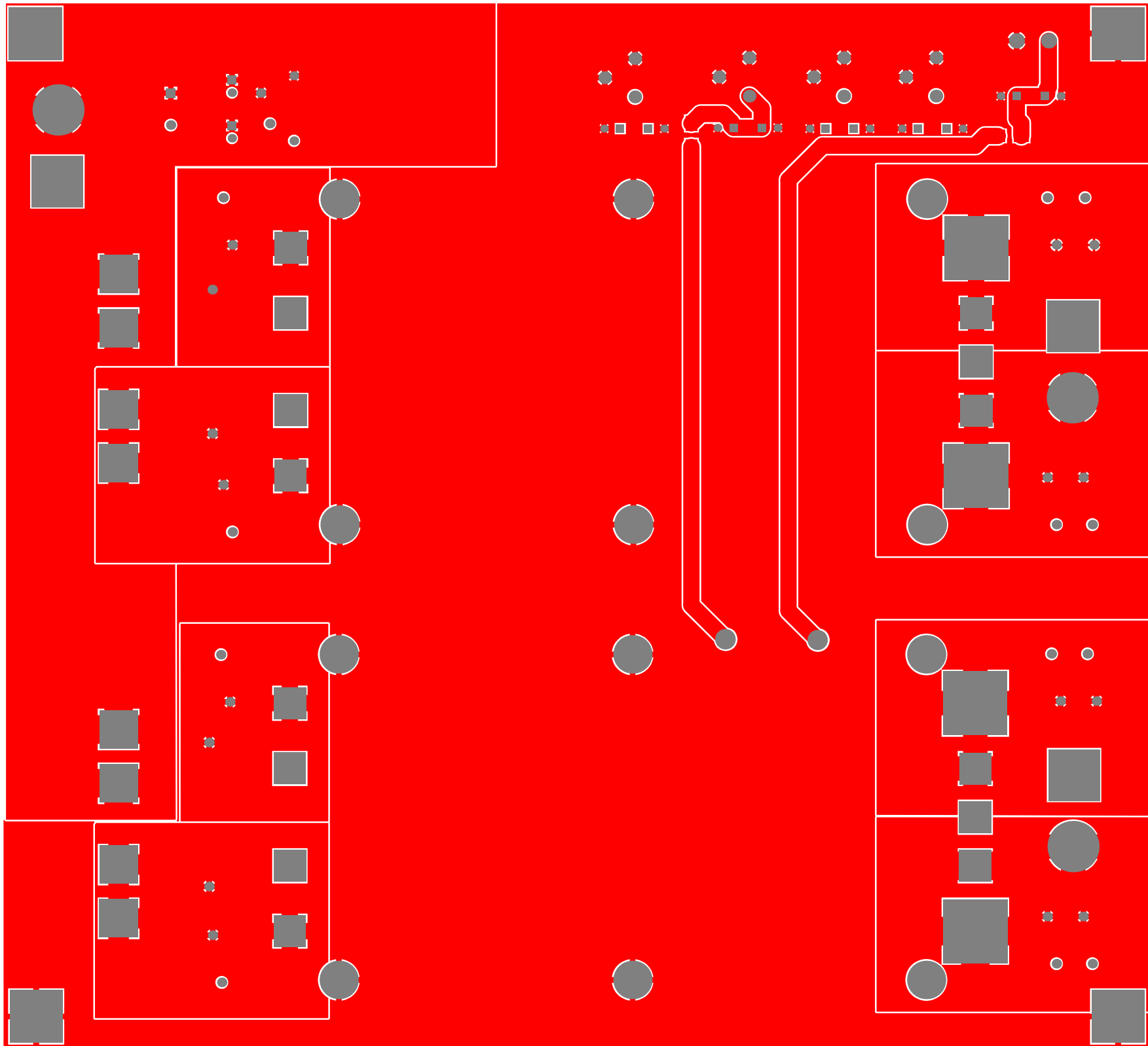
Vicor 12v Switching DC/DC Converter 1

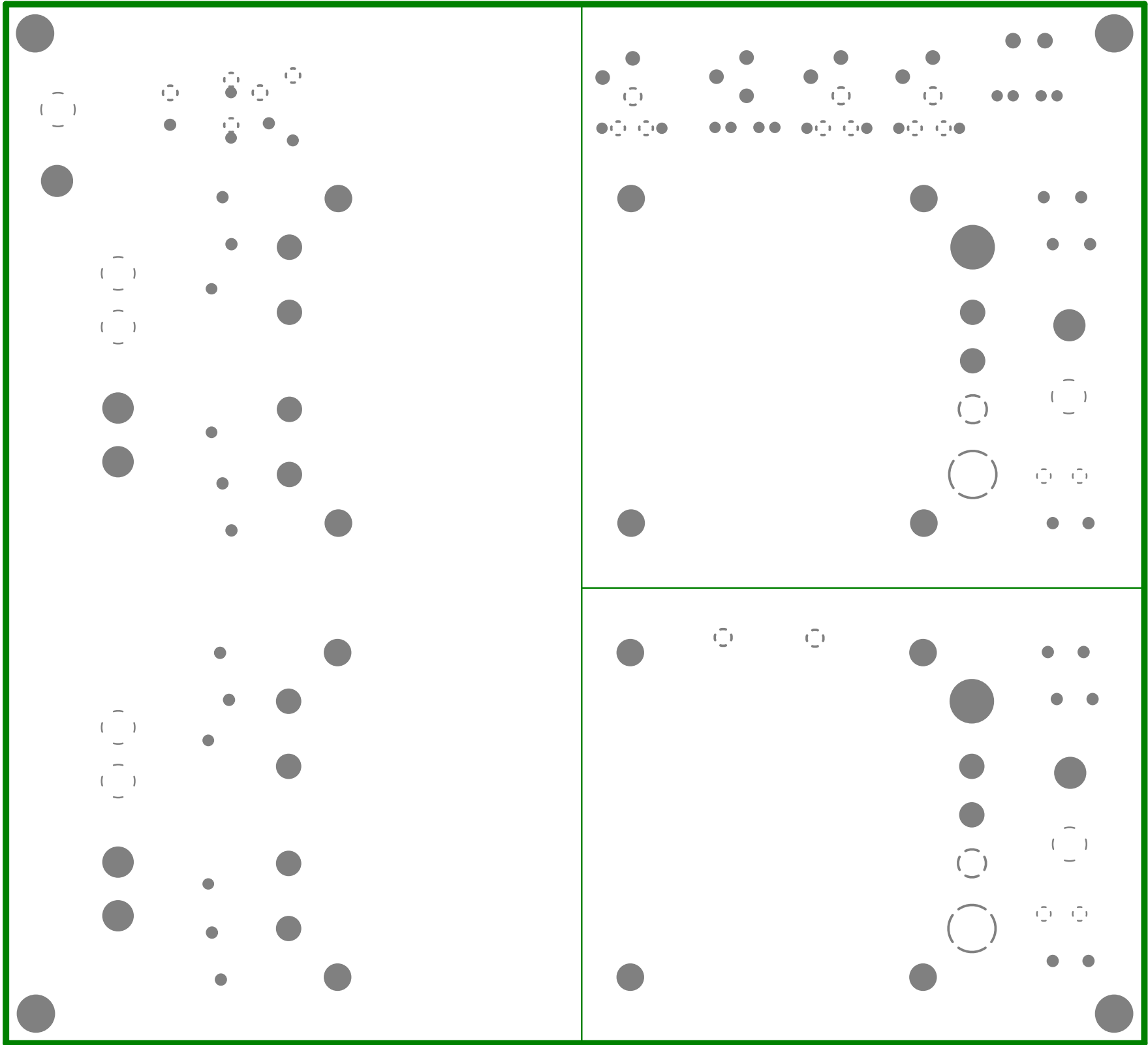


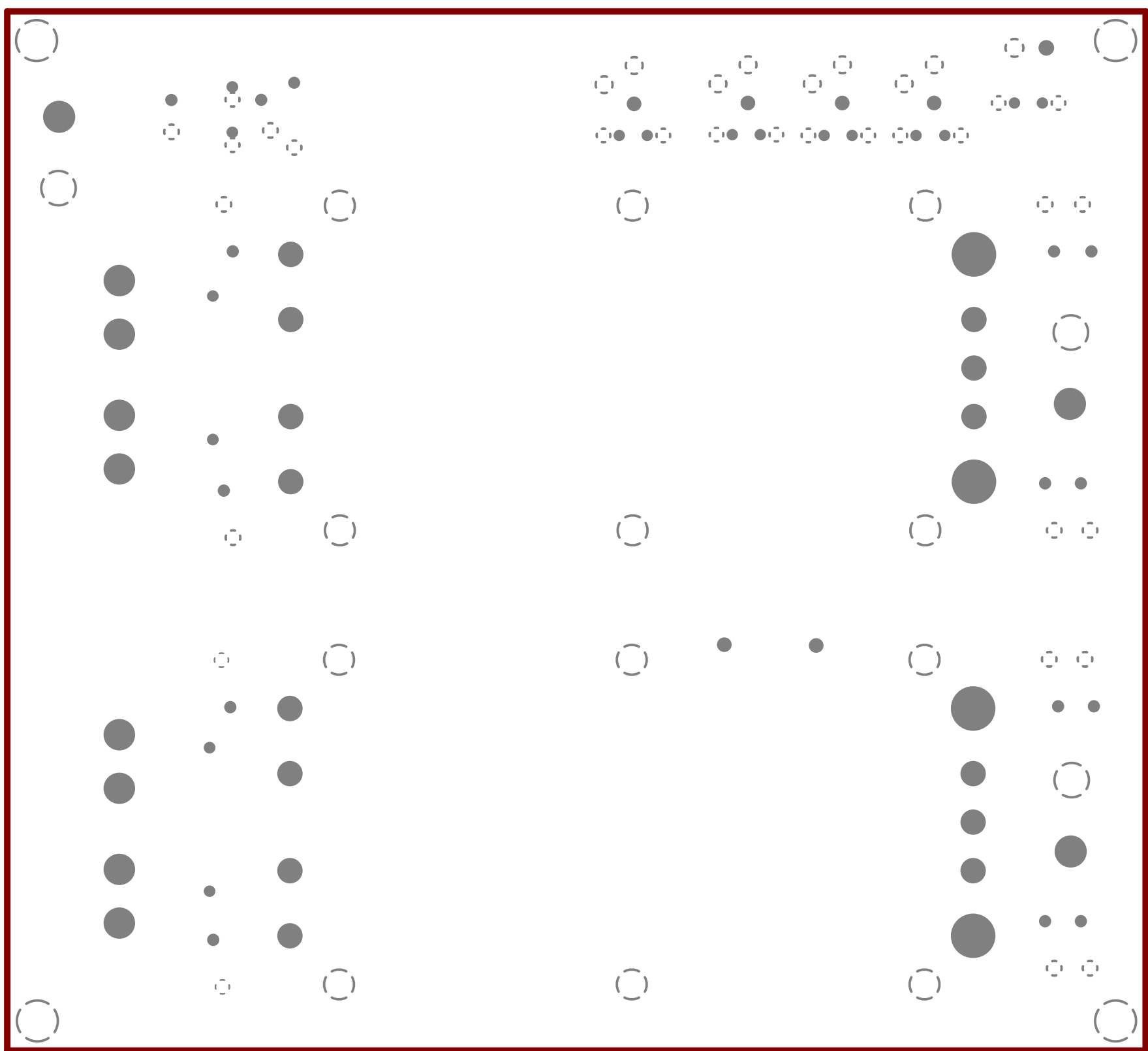
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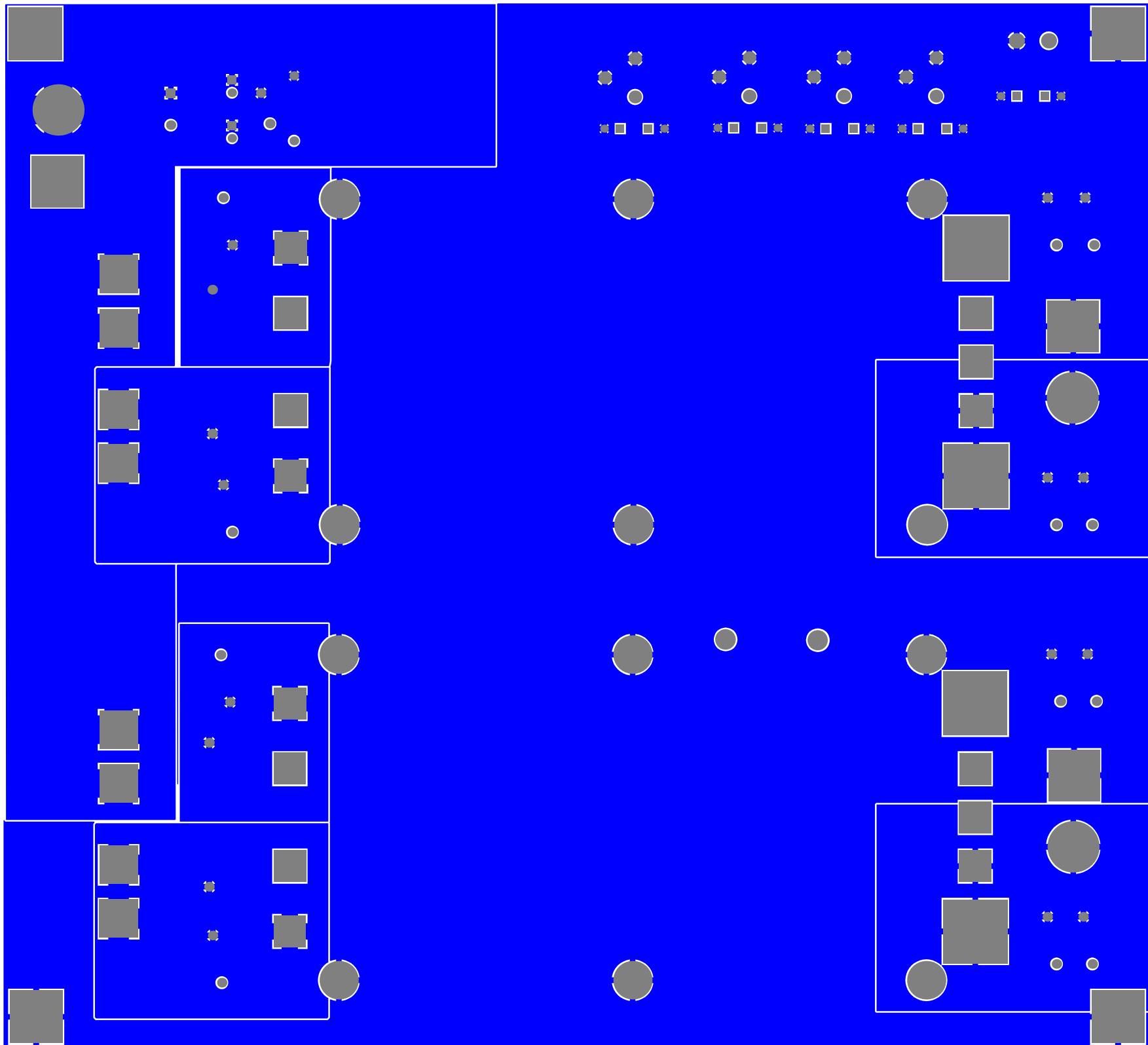
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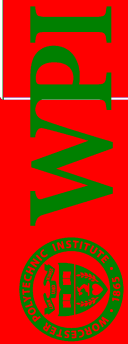
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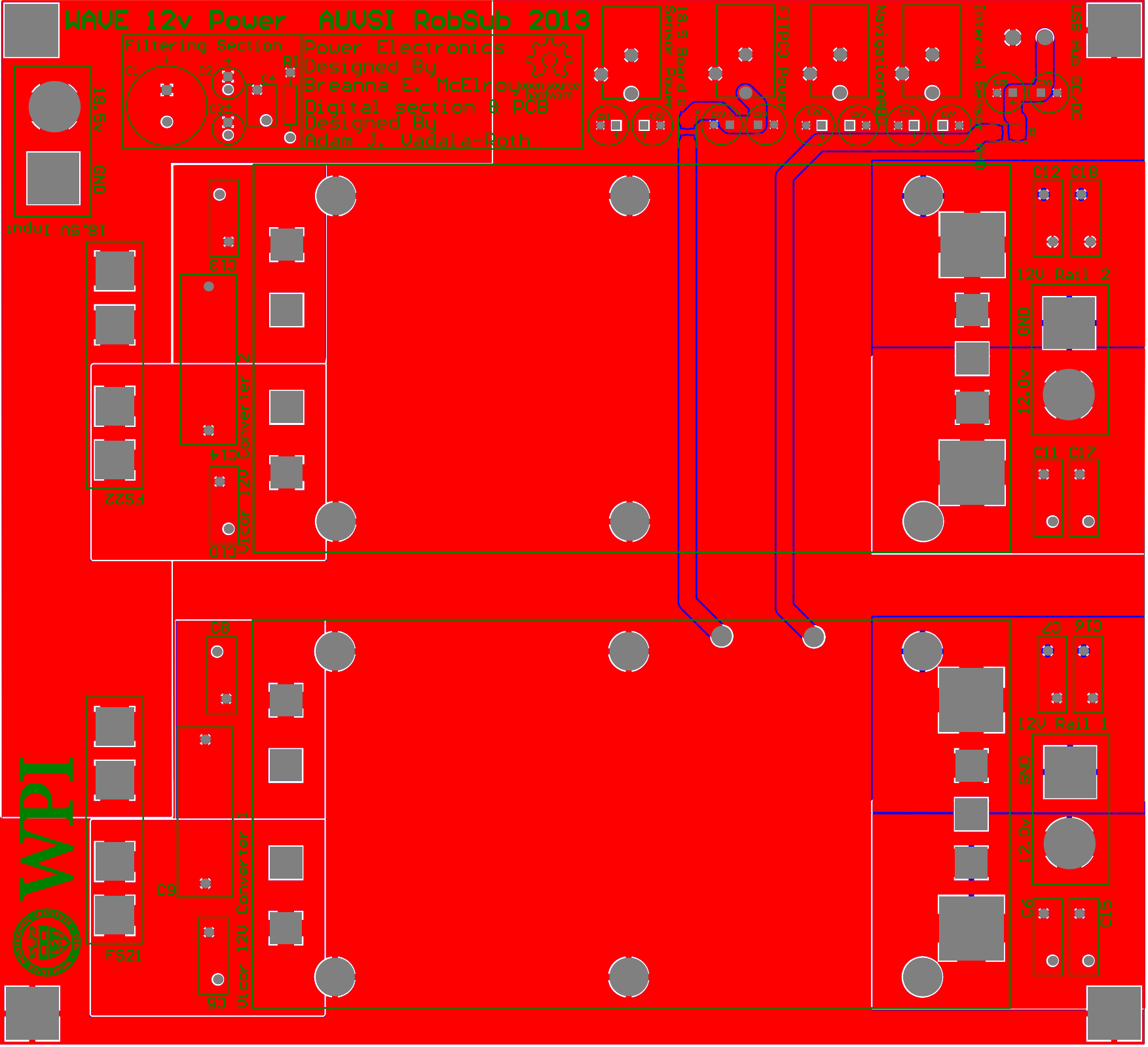
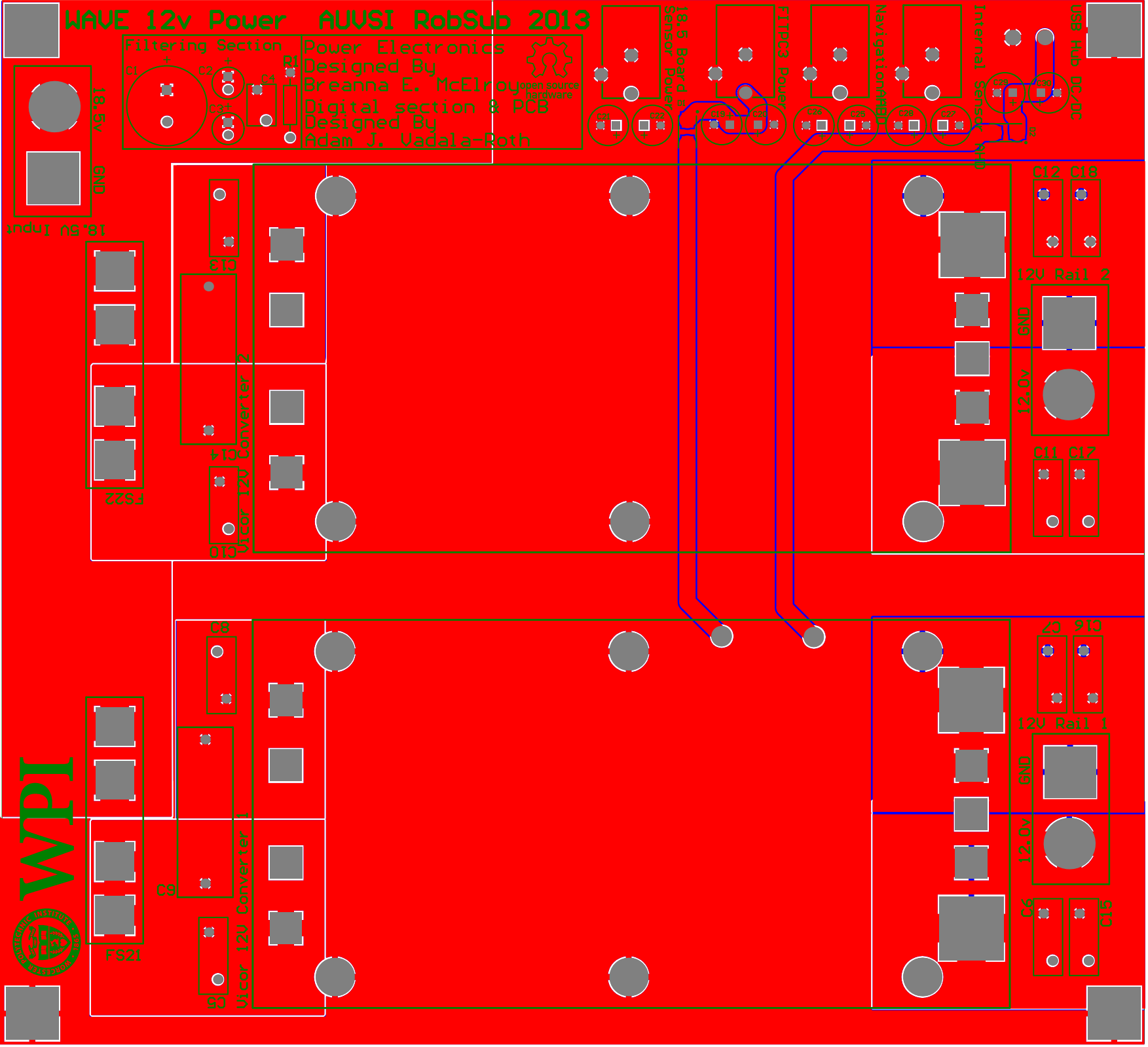




WAVE 12v Power AUUSI RobSub 2013

Filtering Section
C1 C2 C3 C4 R1
Power Electronics
Designed By
Breanna E. McElroy
Digital section & PCB
Designed By
Adam J. Vadala-Roth

Open source hardware



Comment	Description	Designator	Footprint	LibRef	Quantity
12 Power Rail		12V Rail 1, 12V Rail 2	Power Rail 12	12 Power Rail	2
Center-positive 2.1 mm power jack	Power jack	18.5 Board Sensor Power, FITPC3 Power, Internal Sensor AHD, Navigation AHD	PJ-102AH	PWR2.5	4
18.5 Power Rail		18.5V Input	Power Rail Pad	18.5 Power Rail	1
	Capacitor	C1	CAPPR5-12.5x40	Cap	1
	Capacitor	C2, C3	CAPPR2-5x11	Cap	2
	Capacitor	C4	CAPRD5-6.5x4.5	Cap	1
Cap	Capacitor	C5, C6, C7, C10, C11, C12, C13, C15, C16, C17, C18	CAPRD7.5-12x4.5	Cap	11
	Capacitor	C8	CAPRD7.5-12x4.5	Cap	1
Cap	Capacitor	C9, C14	VICOR AC CAP 0.22uF 250VAC	Cap	2
Cap Pol1	Polarized Capacitor (Radial)	C19, C20, C21, C22, C25, C26, C27, C28, C29, C30	CAPPR2.5-6.3x5	Cap Pol1	10
PMEG4050EP	Default Diode	D1, D2	NXP Schottkey reverse	Diode	2
M60 Automotive Fuse Socket	Automotive Fuse Socket	FS21, FS22	M60	M60 Automotive Fuse	2
Res2	Resistor	R1	AXIAL-0.4	Res2	1
282856-2	Two pole screw terminal	USB Hub DC/ DC	282856-2	282856-2	1
V28A12M200B	V28A12M200B 12V DC/D	Vicor 12V Converter 1, Vic	Vicor Maxi DC DC Conver	V28A12M200B	2