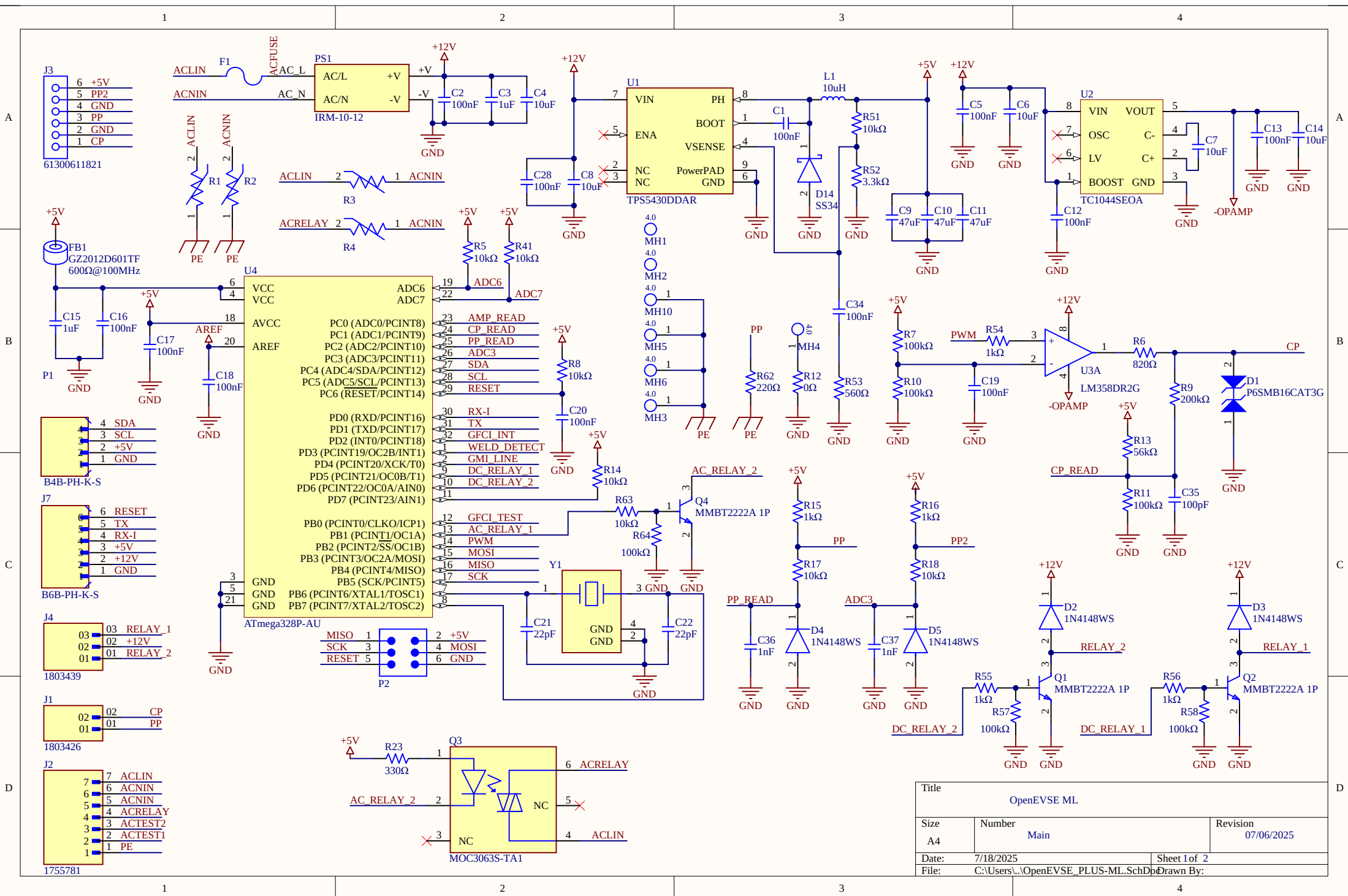
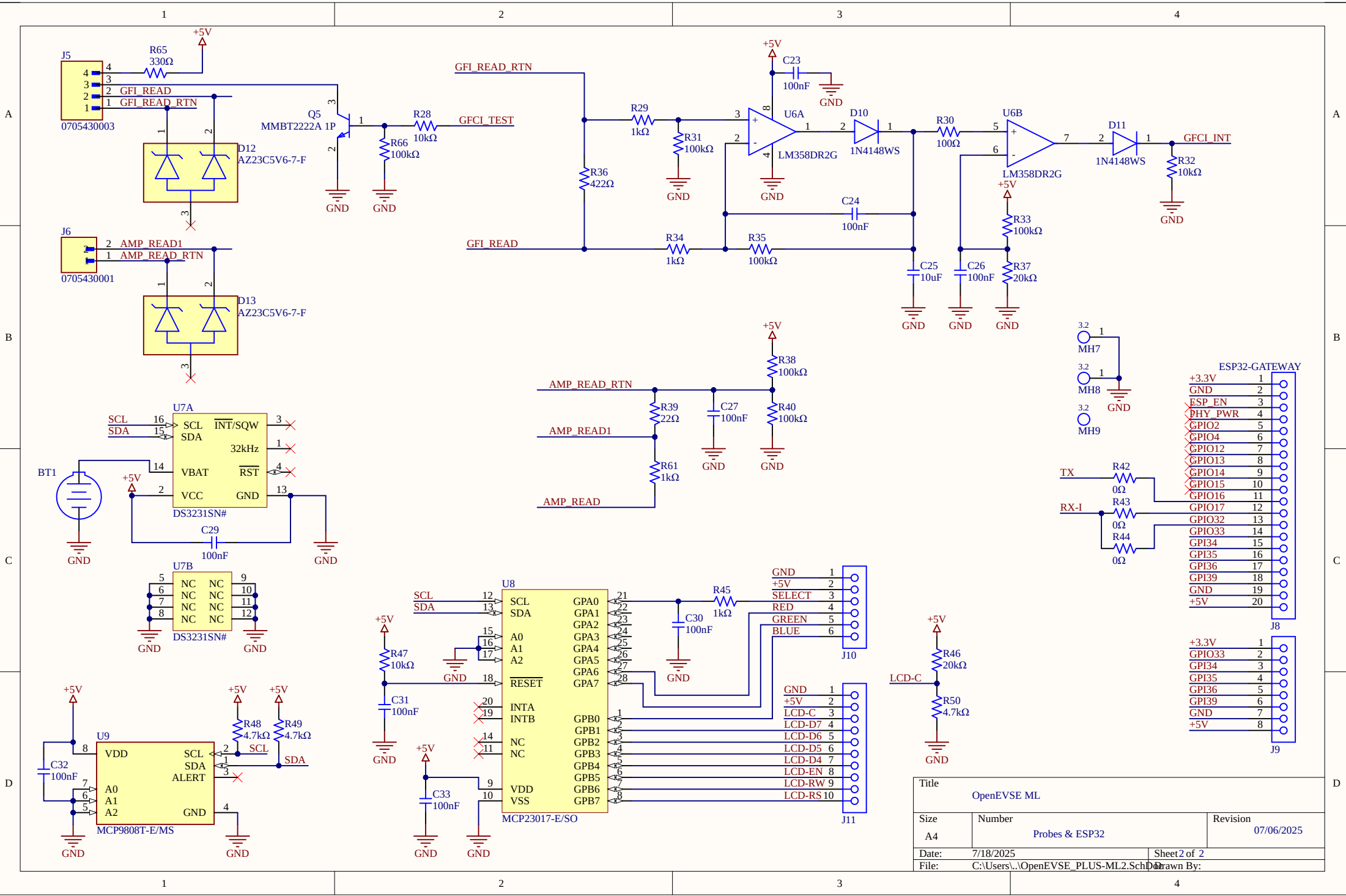
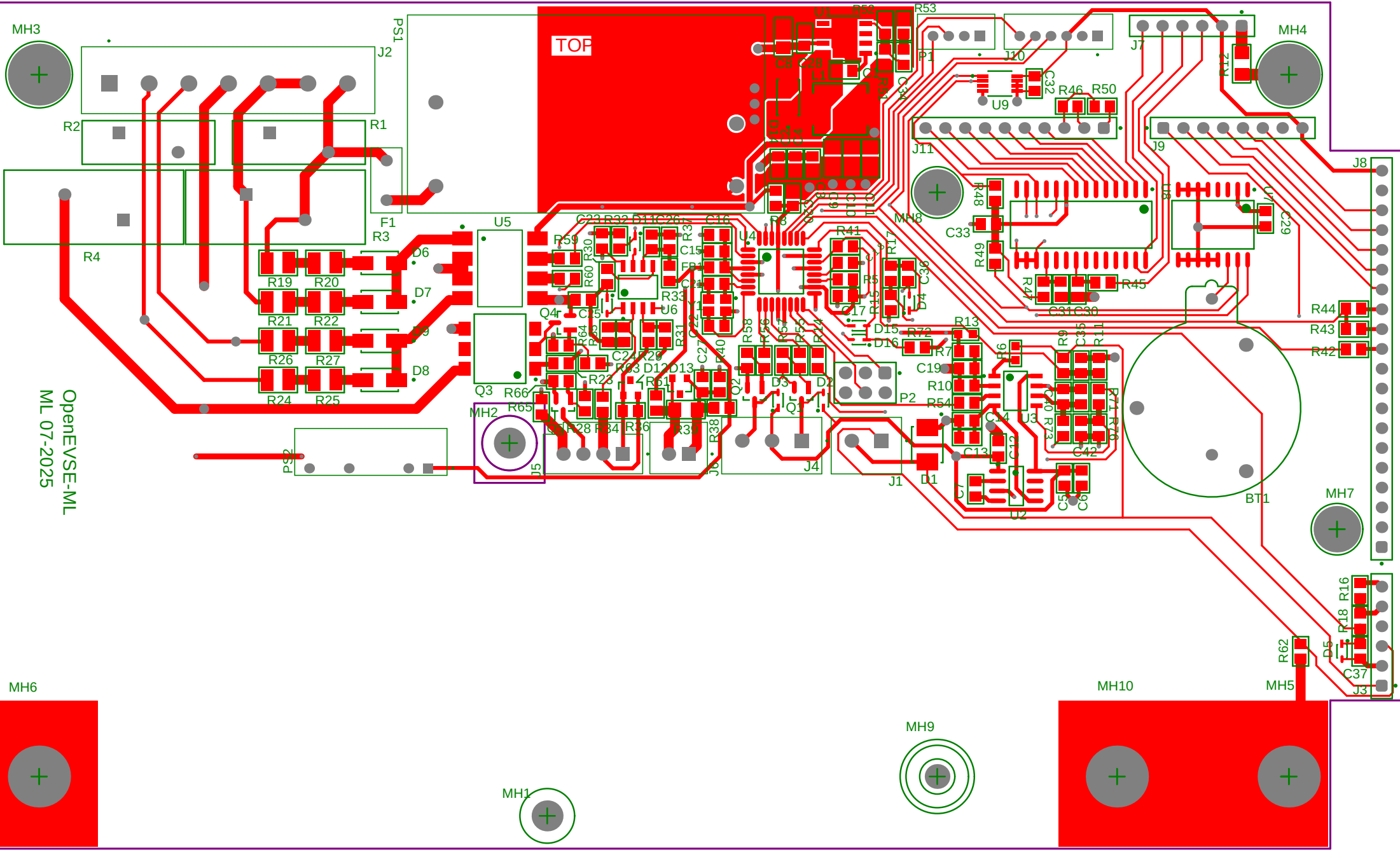
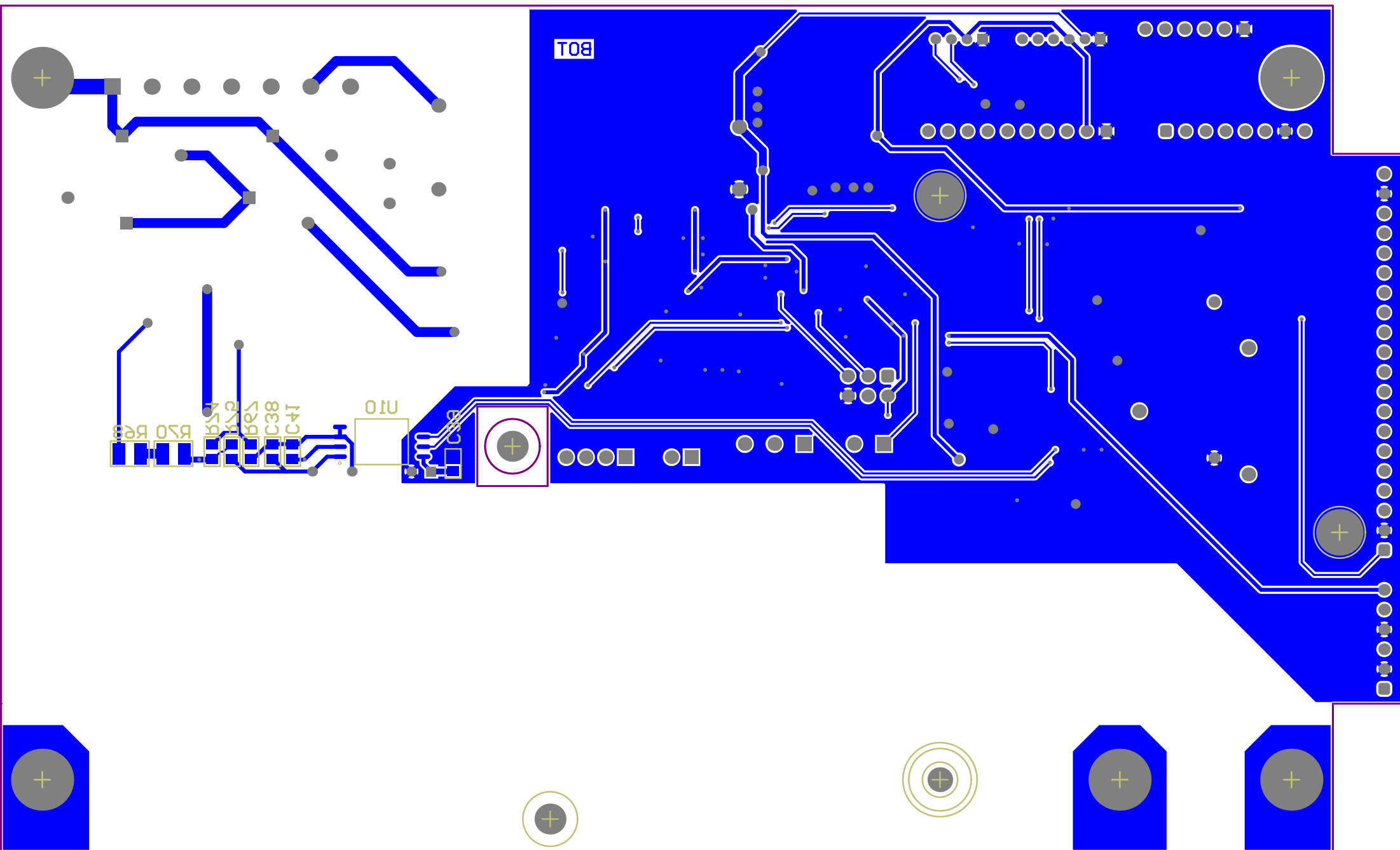
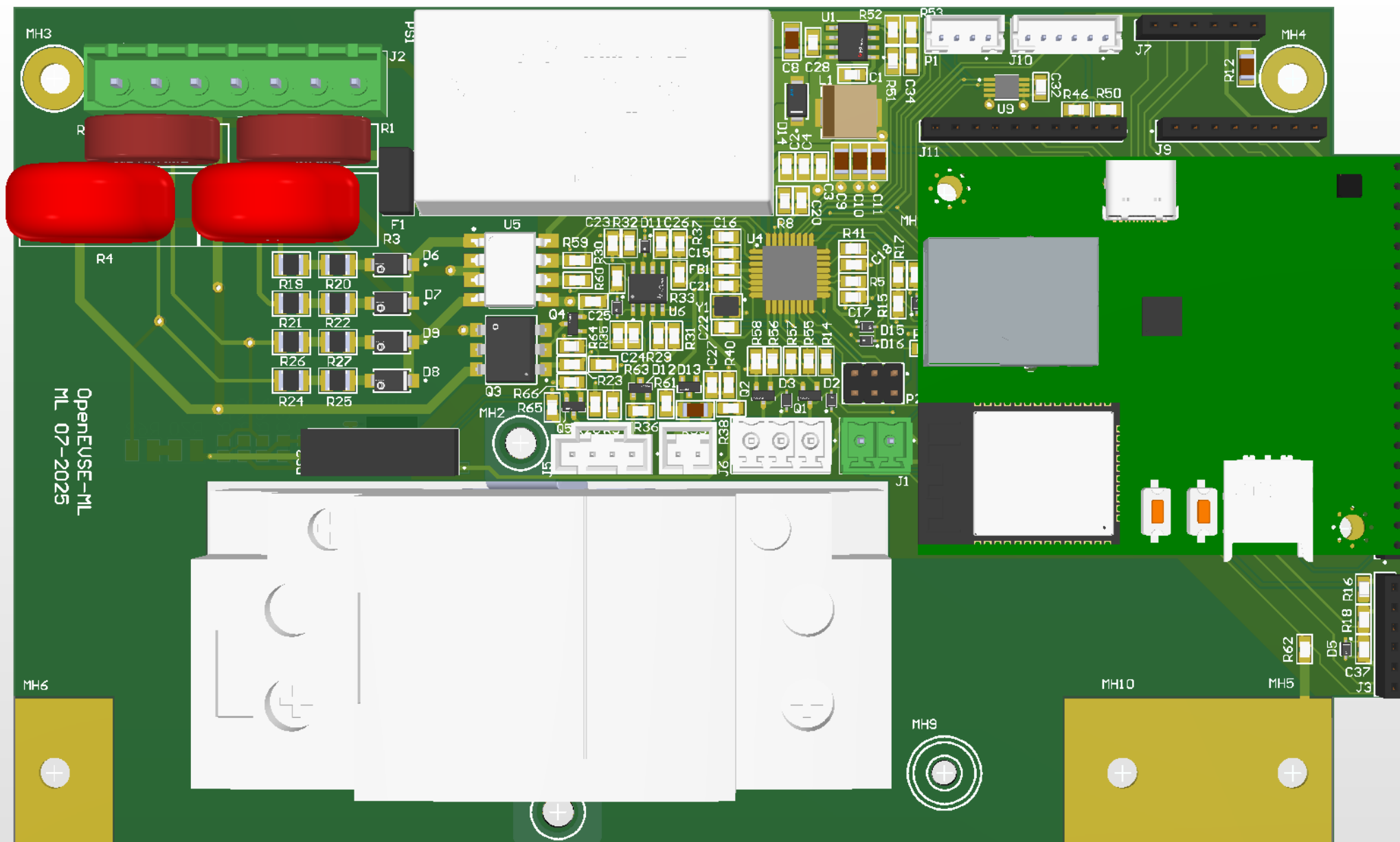






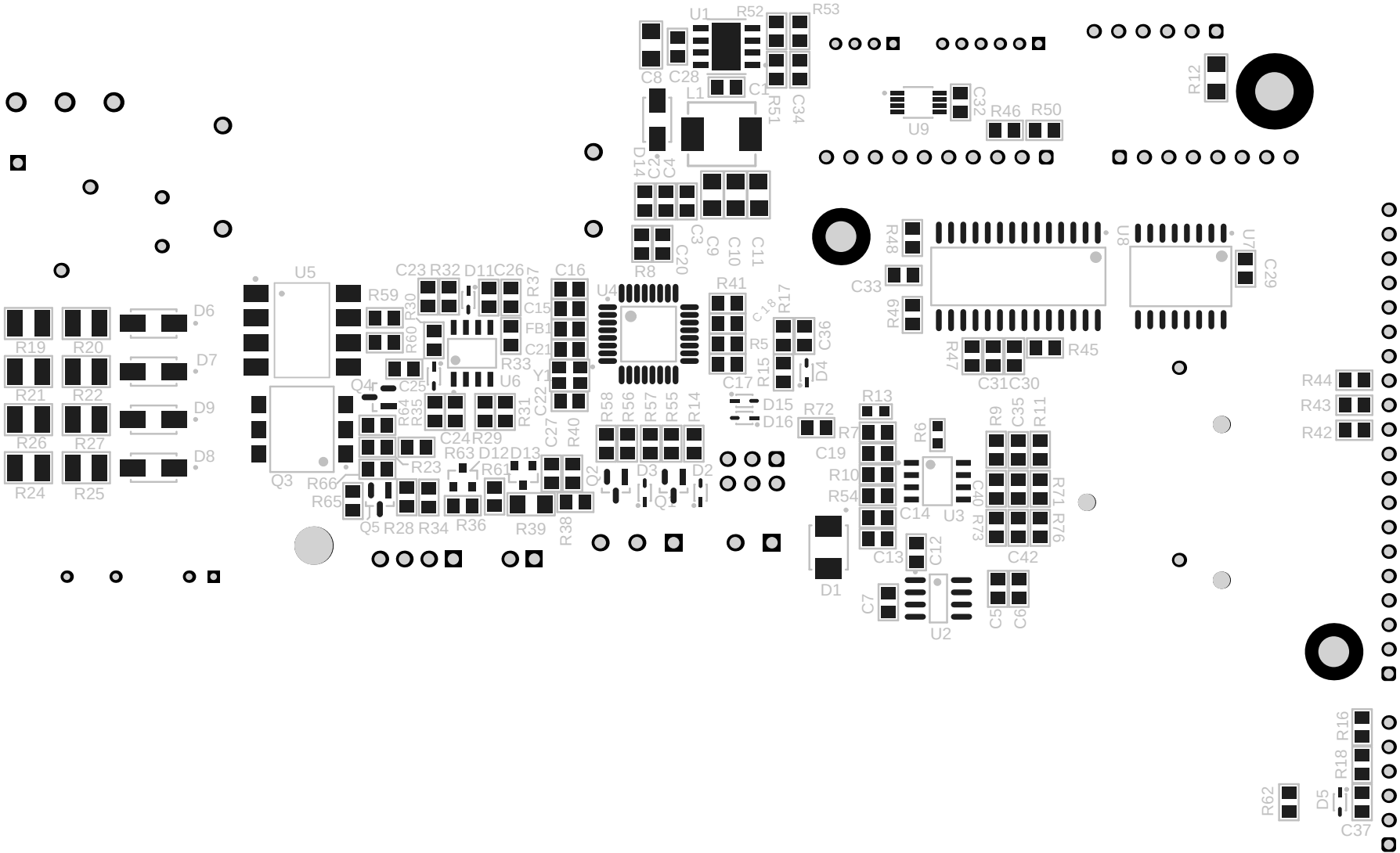


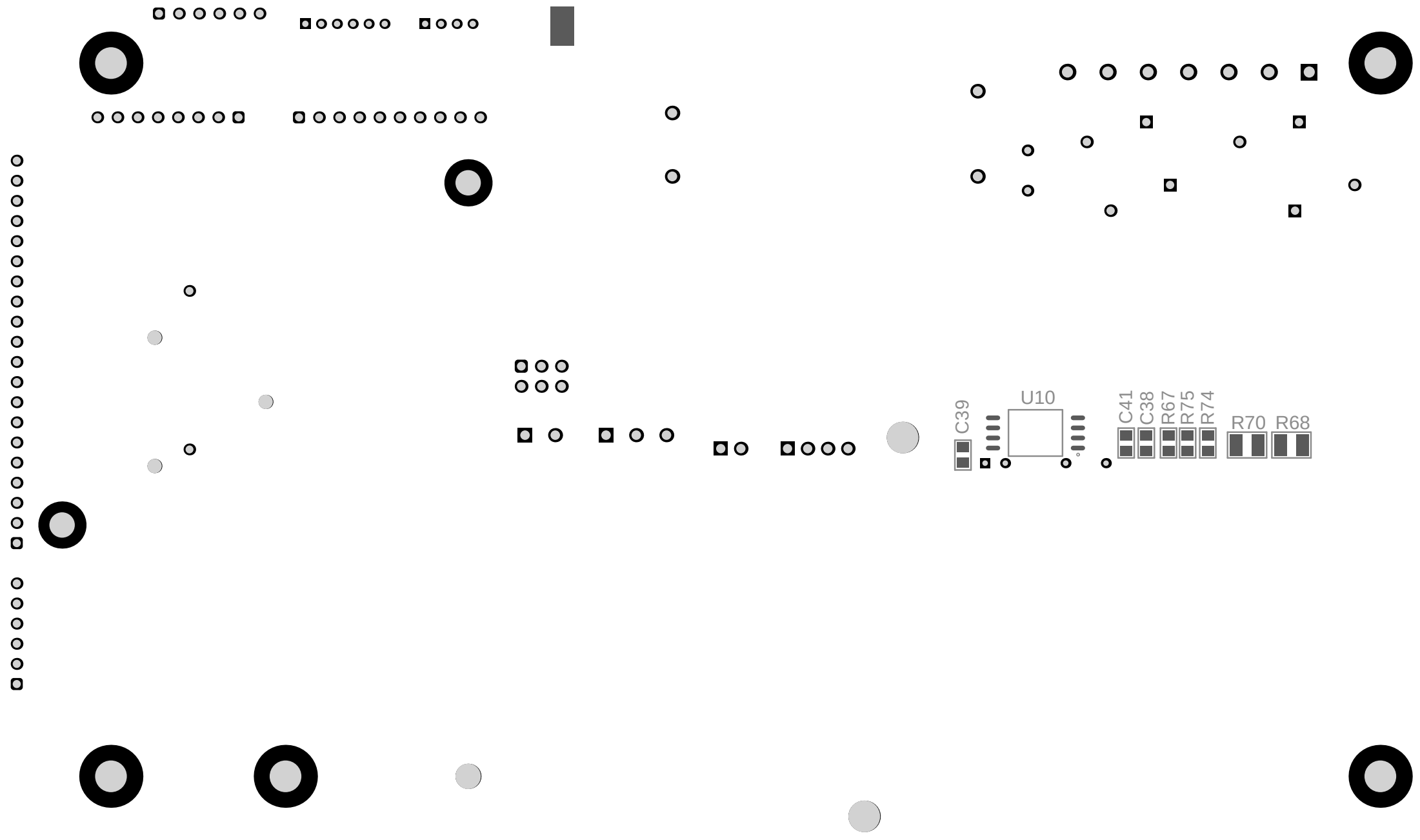






OpenEVSE-ML
ML 07-2025





Designator	Quantity	Description	Comment	Footprint	JLPCB Part Number	JLPCB Basic Part	JLPCB Part Class
C1, C2, C3, C12, C13, C16, C17, C18, C19, C20, C23, C24, C26, C27, C28, C29, C30, C31, C32, C33, C34	21	Capacitor, Ceramic (MLCC), 100nF, ±10%, 50V, X7R ±10%, SMD 0805	CC0805KRX7R9BB104	RC0805	C49678	Yes	
C3, C15	2	Capacitor, Ceramic (MLCC), 1uF, ±10%, 50V, X7R ±10%, SMD 0805	CL21B105KBFNNNE	RC0805	C28323	Yes	
C4, C6, C7, C14	4	Capacitor, Ceramic (MLCC), 10uF, ±10%, 50V, XSR ±10%, SMD 0805	GRM21BR61H100K543L	RC0805	C440198	Yes	
C8	1	Capacitor, Ceramic (MLCC), 10uF, ±10%, 50V, XSR ±10%, SMD 1206	CL31A106KBFNNNE	RC1206	C13585	Yes	
C9, C10, C11	3	Capacitor, Ceramic (MLCC), 47uF, ±20%, 10V, XSR ±20%, SMD 1206	CL31A476MPHNNNE	RC1206	C96123	Yes	
C21, C22	2	Capacitor, Ceramic (MLCC), 22pF, ±5%, 50V, C0G ±5%, SMD 0805	CL21C220BANNNNC	RC0805	C1804	Yes	
C25	1	Capacitor, Ceramic (MLCC), 10uF, ±10%, 25V, XSR ±10%, SMD 0805	CL21A106KAYNNNE	RC0805	C15850	Yes	
C35	1	Capacitor, Ceramic (MLCC), 100pF, ±5%, 50V, C0G ±5%, SMD 0805	CL21CL01BANNNNC	RC0805	C1790	Yes	
C36, C37, C40, C42	4	Capacitor, Ceramic (MLCC), 1nF, ±10%, 50V, X7R ±10%, SMD 0805	CL21B102KBCNNNC	RC0805	C46653	Yes	
D1	1	600 W Peak Power Zener Transient Voltage Suppressor, Bidirectional, 2-Pin SMB, Pb-Free, Tape and Reel	P6SMB16CAT3G	ONSC-SMB-2-403A-03_H_V	C19077598	No	
D2, D3, D4, D5, D10, D11, D15, D16	8	DIODE GEN PURP 75V 150MA SOD323F	1N4148WS	FP-4774B-IPC_C	C2128	Yes	
D6, D7, D8, D9	4	1A Independent Type 1kV1.1V@1A SMD(DO-214AQ) Diodes - General Purpose ROHS	M7	FP-403AEMFG	C95872	No	
D12, D13	2	DIODE ZENER ARRAY 5.6V SOT23-3	AZ23CV6-7-F	FP-SOT23-MFG	C98737	No	
D14	1	DIODE SCHOTTKY 40V 3A SMA	SS34	FP-SMA-MFG	C9678	Yes	
FB1	1	Ferrite, 6000@100MHz, ±25%, 300mΩ, 500mA SMD 0805	CZ2012D601TF	RC0805	C1017	Yes	
L1	1	4.5A 10uH Integrated molded inductor ±20% 5.5A SMD 6.6x7mm Power Inductors ROHS	FXL0630-100-M	IND_SMD_L7.3-V6.8	C167223	No	
Q1, Q2, Q4, Q5	4	40V 300mW 600mA NPN SOT-23 Bipolar (BJT) ROHS	MMBT2222A1P	FP-SOT23-IPC_A	C9512	Yes	
Q3	1	OPTOISOLATOR 4.17kV TRIAC 6SMD	MOC3063S-TA1	FP-646BY-MFG	C77950	No	
R5, R8, R14, R17, R18, R28, R32, R41, R47, R51, R63, R72	12	Resistor, 10kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F1002T5E	RC0805	C17414	Yes	
R6	1	Resistor, 820Ω, ±1%, 100mW, 75V, ±100ppm/°C, -55°C→+155°C, SMD 0603	0603WAF820T5E	RC0603	C23253	Yes	
R7, R10, R11, R31, R33, R35, R38, R40, R57, R58, R64, R66	12	Resistor, 100kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F1003T5E	RC0805	C149504	Yes	
R9	1	Resistor, 200kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F2003T5E	RC0805	C17539	Yes	
R12	1	Resistor, 0Ω, ±1%, 250mW, 200V, ±800ppm/°C, -55°C→+155°C, SMD 1206	1206WAF0000T5E	RC1206	C17888	Yes	
R13	1	Resistor, 56kΩ, ±1%, 100mW, 75V, ±100ppm/°C, -55°C→+155°C, SMD 0603	0603WAF5602T5E	RC0603	C23206	Yes	
R15, R16, R29, R34, R45, R54, R55, R56, R61	9	Resistor, 1kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F1001T5E	RC0805	C17513	Yes	
R19, R20, R21, R22, R24, R25, R26, R27	8	Resistor, 180kΩ, ±1%, 500mW, 200V, ±100ppm/°C, -55°C→+155°C, SMD 1210	CRI210F180KP05Z	RC1210	C146903	Yes	
R23, R59, R60, R65	4	Resistor, 330Ω, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F3300T5E	RC0805	C17630	Yes	
R30	1	Resistor, 100Ω, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F1000T5E	RC0805	C17408	Yes	
R36	1	Resistor, 422Ω, ±1%, 125mW, 100V, ±25ppm/°C, -55°C→+155°C, SMD 0805	AFG05FTC4220	RC0805	C218572	Yes	
R37, R46	2	Resistor, 20kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F2002T5E	RC0805	C4328	Yes	
R39	1	Resistor, 22Ω, ±1%, 250mW, 200V, ±100ppm/°C, -55°C→+155°C, SMD 1206	1206WAF220T5E	RC1206	C17958	Yes	
R42, R44	2	Resistor, 0Ω, ±1%, 125mW, 150V, ±800ppm/°C, -55°C→+155°C, SMD 0805	0805W8F0000T5E	RC0805	C17477	Yes	
R48, R49, R50	3	Resistor, 4.7kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F4701T5E	RC0805	C17673	Yes	
R52	1	Resistor, 3.3kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F3301T5E	RC0805	C26010	Yes	
R53	1	Resistor, 560Ω, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F5600T5E	RC0805	C28636	Yes	
R62	1	Resistor, 220Ω, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F2200T5E	RC0805	C17557	Yes	
R69, R76	2	Resistor, 30kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F3002T5E	rc0805	C17621	Yes	
R71, R73	2	Resistor, 12kΩ, ±1%, 125mW, 150V, ±100ppm/°C, -55°C→+155°C, SMD 0805	0805W8F1202T5E	RC0805	C17444	Yes	
U1	1	IC REG BUCK ADJUSTABLE 3A 8SO8MR	TPS5430DDAR	FP-DDA00083-MFG	C9864	Yes	
U2	1	Charge Pump DC-TO-DC Voltage Converter, 8-Pin SOIC 150mil, Industrial Temperature	TC1044SEQA	SOIC-0A8_N	C201974	No	
U3, U6	2	Dual 45nA 1MHz SOIC-8 Operational Amplifier ROHS	LM358DR2G	FP-D0008A-MFG	C7950	Yes	
U4	1	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin TQFP, Industrial Grade (-40°C to 85°C)	ATmega328P-AU	32A_M	C14877	No	
U8	1	16-Bit I/O Expander with Serial Interface, 28-Pin SOIC, Extended Temperature	MCP23017-E/SO	SOIC-SO28_N	C47023	No	
U9	1	SENSOR DIGITAL -40C-125C 8MSOP	MCP9808T-E/MS	FP-C04-111-MFG	C129490	No	
Y1	1	CRYSTAL 16.0000MHz 8PFSMD	NX3225GA-16.000M-STD-CRG-2	FP-NX3225GA-MFG	C156247	No	