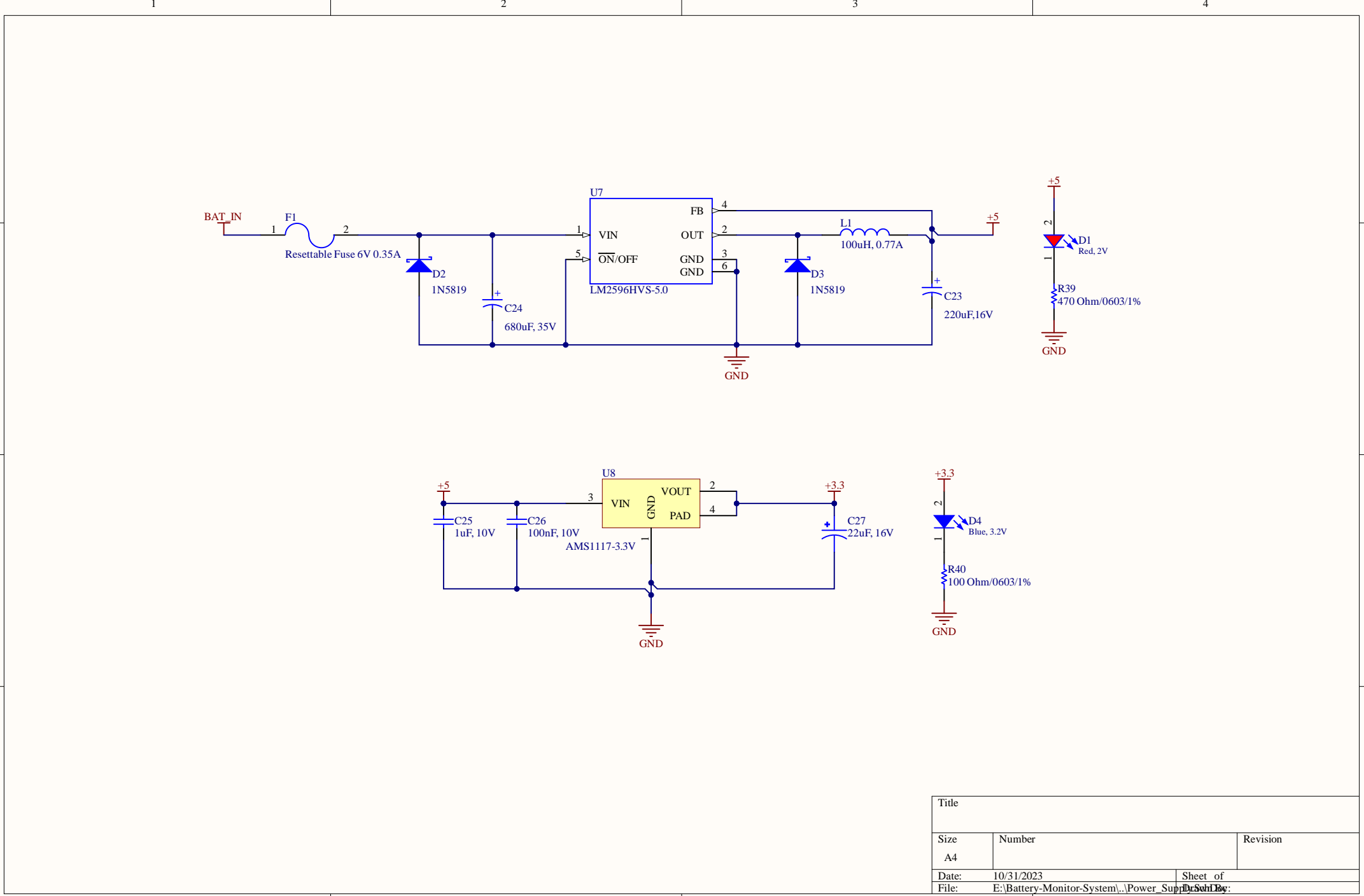
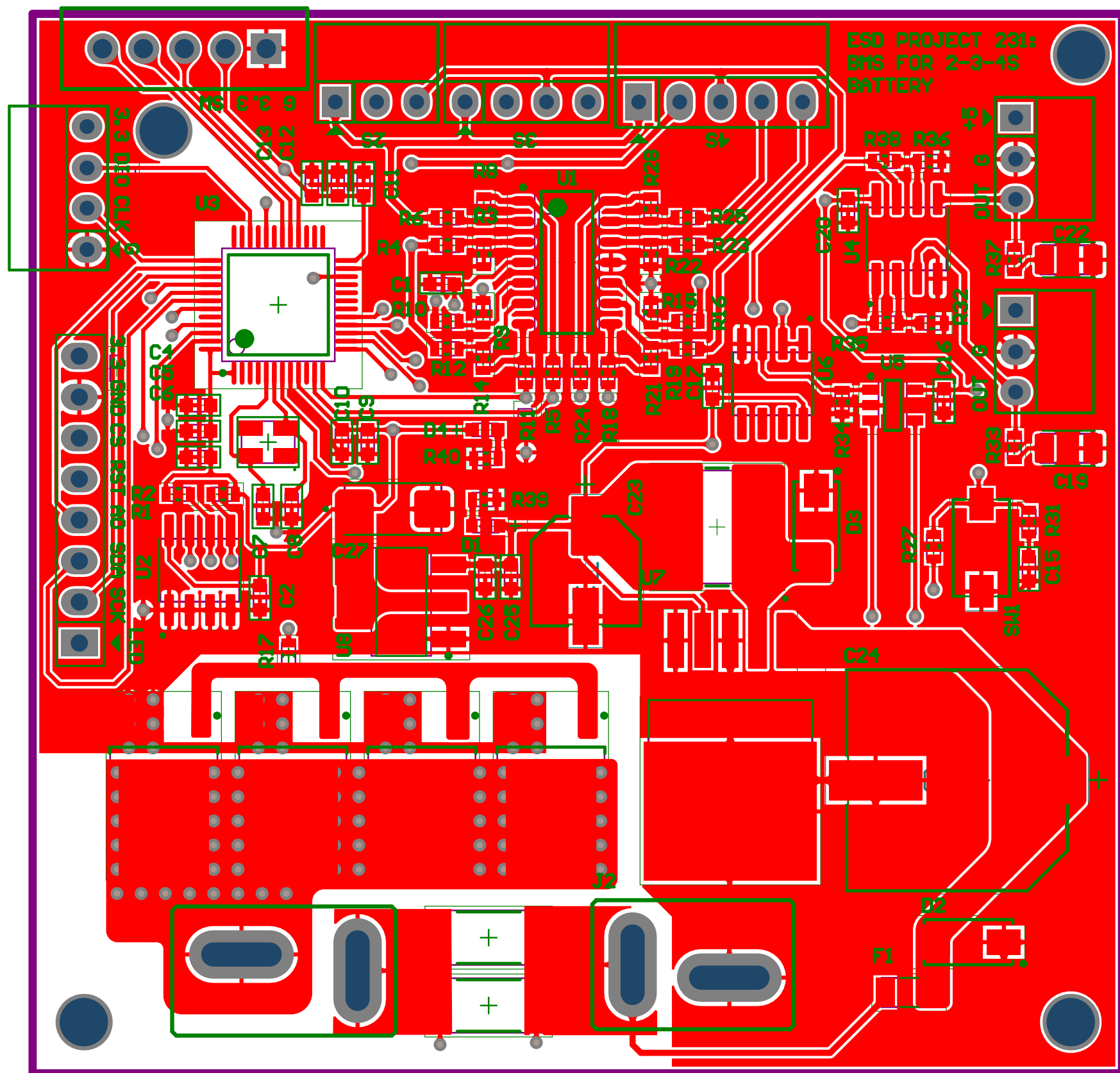
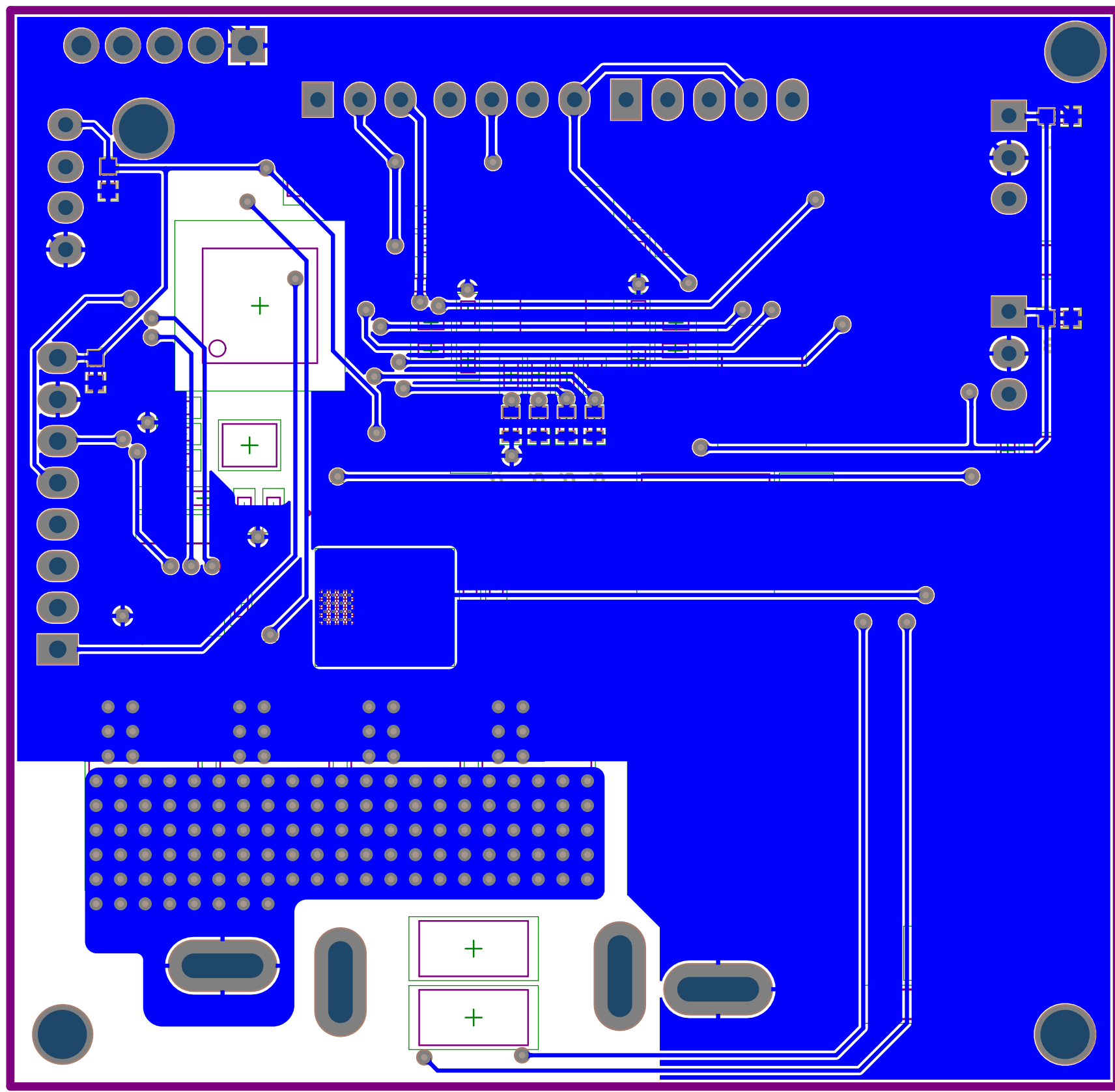


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Size	Number	Revision
A4		
Date:	10/31/2023	Sheet of
File:	E:\Battery-Monitor-System\Power_Diagram_SchDoc	Power_Diagram_SchDoc



Title		
Size	Number	Revision
A4		
Date:	10/31/2023	Sheet of
File:	E:\Battery-Monitor-System\Power_Supply	Dr.Sun By:





Designator	Comment	Description	Quantity
C25	1uF, 10V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X5R, 1uF, 10V	1
C9	1uF, 25V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X5R, 1uF, 25V	1
C4, C13	4.7uF, 10V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X5R, 4.7uF, 10V	2
C10	10nF, 16V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 10nF, 16V	1
C7, C8	22pF, 50V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, NPO, 22pF, 50V	2
U2	24LCxx	EEPROM	1
C26	100nF, 10V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 100nF, 10V	1
C1, C2, C3, C5, C6, C11, C12, C14, C15, C16, C17, C18, C20, C21	100nF, 25V	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 100nF, 25V	14
L1	100uH, 0.77A	WE-PD2A SMT Power Inductor, size 7850, 100uH, 0.77A	1
C23	220uF	WCAP-ASLI Aluminum Electrolytic Capacitor, V-Chip, D6.3 x H7.7mm, 220uF, 16V	1
C24	680uF	WCAP-ASLI Aluminum Electrolytic Capacitor, V-Chip, D12.5 x H14mm, 680uF, 35V	1
SW1	434123050816	WS-TASV J-Bend SMT Tact Switch, 12VDC, 50mA, 160g, height 5mm	1
UB	AMS1117-3.3V		1
M1, M2, M3, M4	AOD472	MOSFET 25V 55A N- Channel	4
D4	Blue, 3.2V	WL-SMCW SMT Mono color Chip LED Waterclear, size 0603, Blue, 3.2V, 140deg	1
J2	BMS INPUT	Jack T 120A	1
J1	BMS OUTPUT	Jack T 120A	1
R29, R30	Current Sense Resistor	Shunt Resistor	2
D2, D3	D Schottky	Schottky Diode	2
P3, P7, P8	Header 3H	Header, 3-Pin, Right Angle	3
P4, P5	Header 4H	Header, 4-Pin, Right Angle	2
P6	Header 5H	Header, 5-Pin, Right Angle	1
H1, H2, H3, H4	Hole	Hole 3mm	4
U5	INA139	High-Side Measurement Current Shunt Monitor	1
U1	LM324	OPAMP General Purpose Amplifier 4 Circuit 1.2MHz	1
U4, U6	LM358	General Purpose Amplifier 2 Circuit 1.1MHz	2
U7	LM2596	Simple Switcher Power Converter 150- kHz 4V to 60V, 3A Step-Down Voltage Regulator	1
D1	Red, 2V	WL-SMCW SMT Mono color Chip LED Waterclear, size 0603 dome, Red, 2V, 60deg	1
F1	RESETTABLE FUSE 1206	Polymeric PTC Resettable Fuse 6V 350mA 1h Surface Mount 1206_3216 Metric, Concave	1
R5, R7, R11, R13, R18, R20, R24, R26	Resistor 0 Ohm 0603 5%	Code 0R, 1/10W	8
R1, R2, R27, R32, R36	Resistor 10 KOhm 0603 1%	Code 103, 1/10W	5
R34	Resistor 20 KOhm 0603 1%	Code 203, 1/10W	1
R35, R38	Resistor 49 9 KOhm 0603 1%	Code (4992, 68C), 1/10W	2
R3, R8, R9, R14, R15, R21, R22, R28	Resistor 60 KOhm 0603 1%	Code 603, 1/10W	8
R33, R37	Resistor 75 Ohm 0603 1%	Code 750, 1/10W	2
R4, R6, R10, R12, R16, R19, R23, R25	Resistor 100 KOhm 0603 1%	Code 104, 1/10W	8
R31, R40	Resistor 100 Ohm 0603 1%	Code 1000, 1/10W	2
R17	Resistor 200 Ohm 0603 5%	Code 201, 1/10W	1
R39	Resistor 470 Ohm 0603 1%	Code 471, 1/10W	1
P1	Rotary Encoder	KY-040	1
U3	STM32F030C8T6		1
C19, C22	Tantalum Capacitor	Code 105 10%, 1206 (3216 Metric)	2
C27	Tantalum Capacitor	Code 226 10%, 2312 (6032 Metric)	1
P2	1FT 1.8" ST7735	LCD 1.8inch 160x128 TFT ST7735	1
X1	XTAL		1