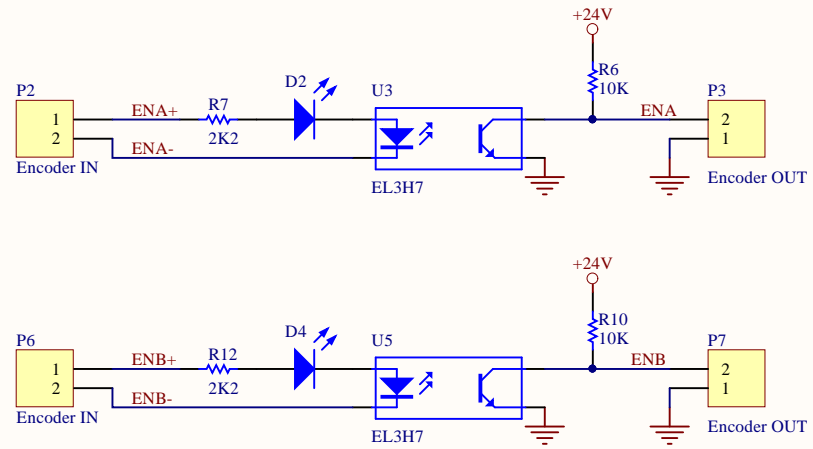
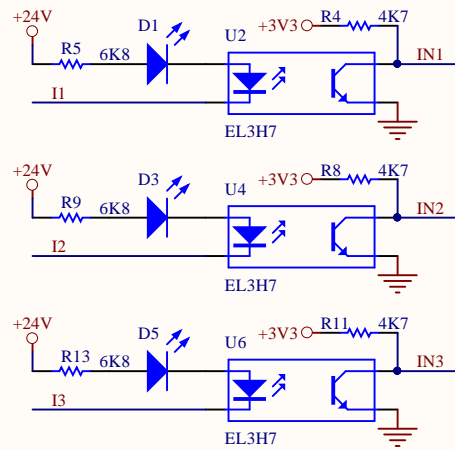
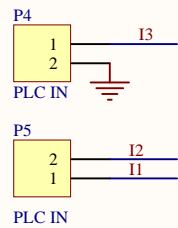


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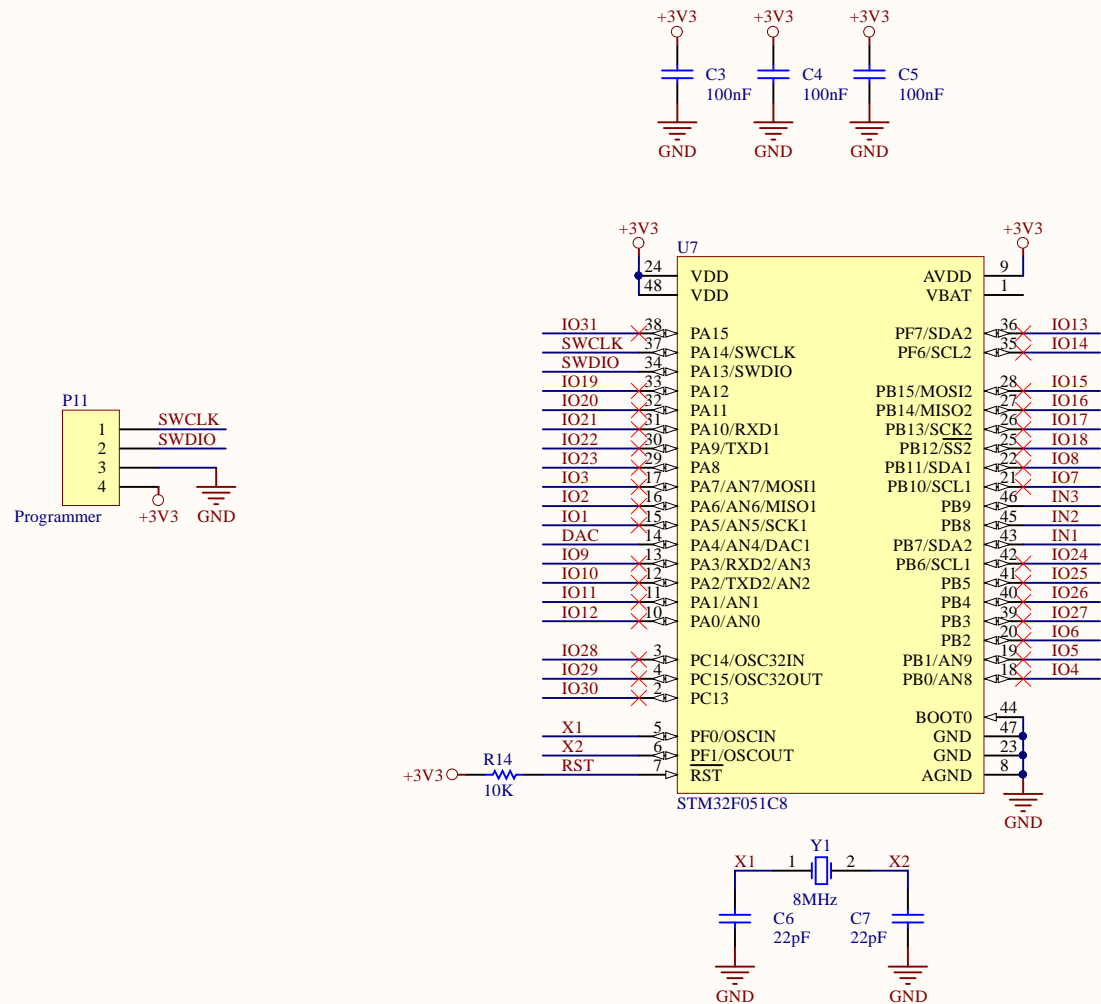
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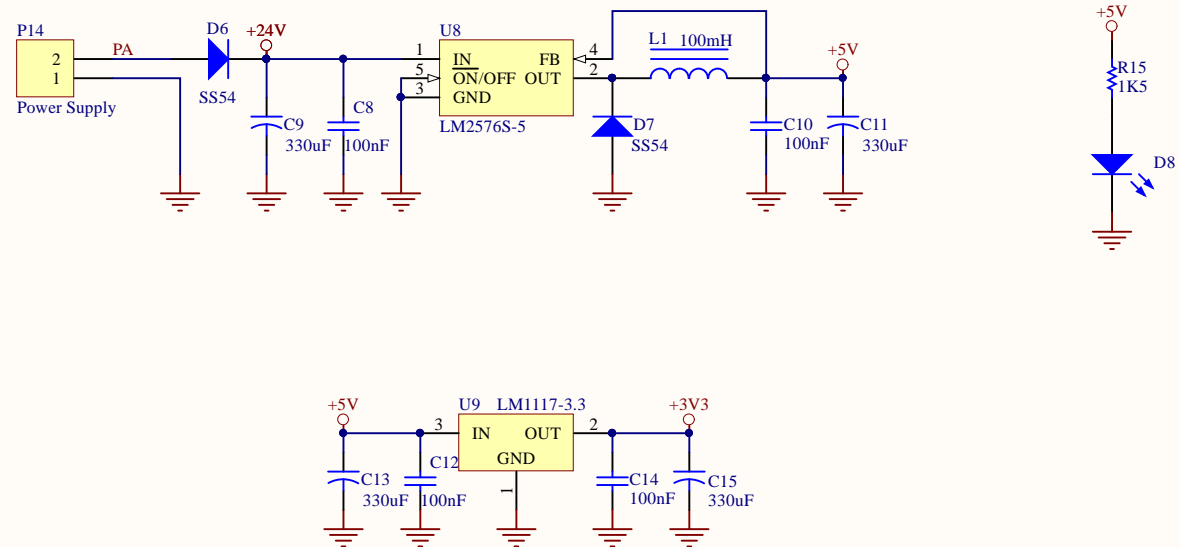
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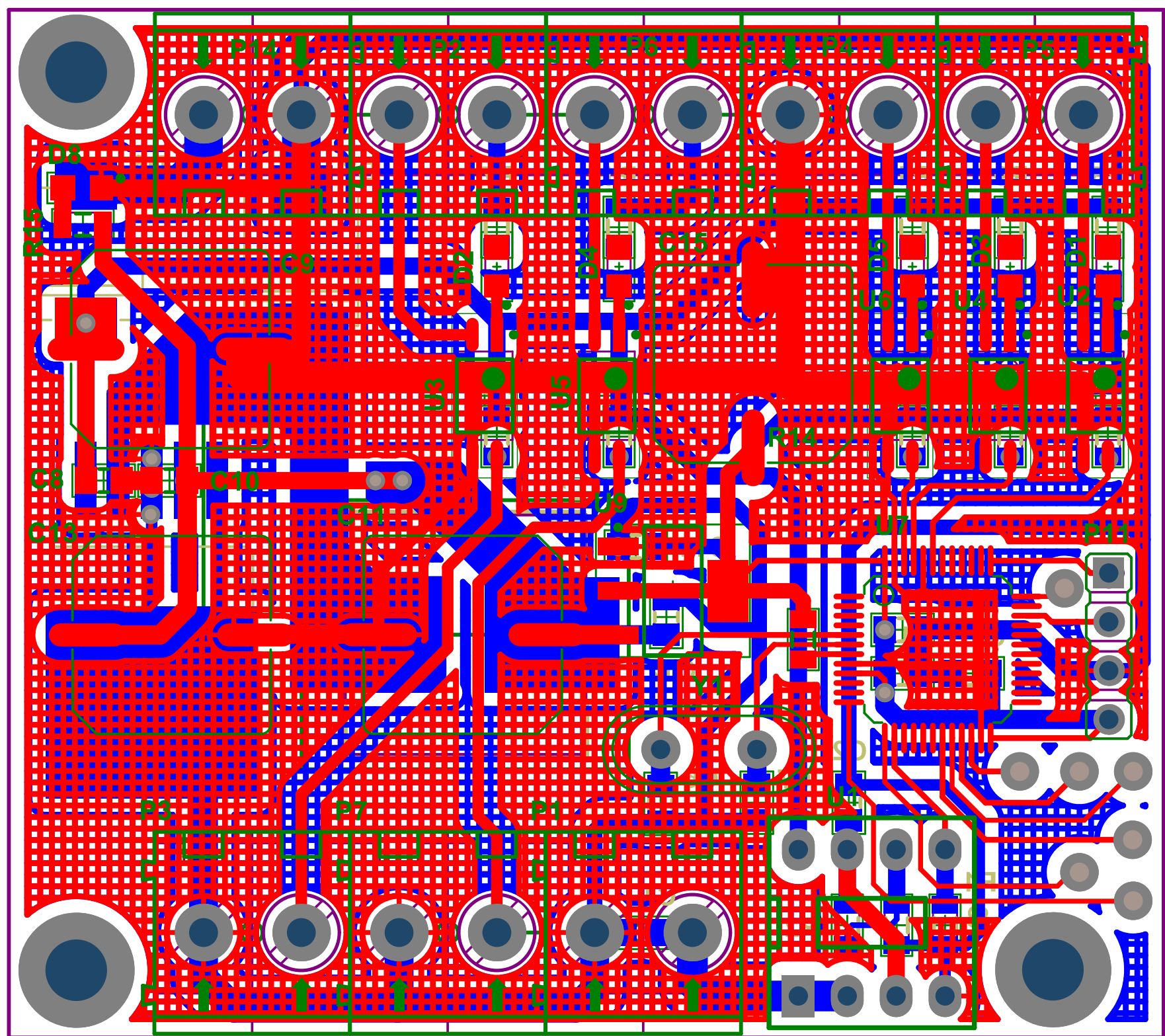
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Comment	Description	Designator	Footprint	LibRef	Quantity
104	Capacitor	C1, C2, C3, C4, C5, C8, C10, C12, C14	C-0805	Cap	9
22	Capacitor	C6, C7	C-0805	Cap	2
330uF/50V	100UF 50V 10x10.2MM	C9, C11, C13, C15	C-ALU-10x10.2mm	Cap2	4
SMD0805-RED	Typical INFRARED GaAs LED	D1, D2, D3, D4, D5, D8	LED-0805	LED0	6
SS54-SMA	1 Amp General Purpose Rectifier	D6, D7	D-DO214-AB	Diode 1N4004	2
100mH/3A	Magnetic-Core Inductor	L1	L-SMD-12.5x12.5	Inductor Iron	1
KF128-2P	Header, 2-Pin	P1, P2, P3, P4, P5, P6 P7, P14	TER-KF128-2P	Header 2	8
JP2.54-M-4P	Header, 4-Pin	P11	JP2.54-M-1x04A	Header 4	1
1K	Resistor	R1	R-0805	Res1	1
4K7	Resistor	R2, R4, R8, R11	R-0805	Res1	4
10K	Resistor	R3, R6, R10, R14	R-0805	Res1	4
6K8	Resistor	R5, R9, R13	R-0805	Res1	3
2K2	Resistor	R7, R12	R-0805	Res1	2
1K5	Resistor	R15	R-0805	Res1	1
LM358	JFET-Input Operational Amplifier	U1	SK-DIP8-300	TL082D	1
EL3H7	4-Pin Phototransistor Optocoupler	U2, U3, U4, U5, U6	SSOP-4	Optoisolator1	5
STM32F051C8	Core: ARM® 32-bit Cortex® -M0 CPU, frequency up to 48 MHz	U7	LQFP-48	STM32F051C8	1
LM2576S-5	Simple Switcher 3A Step Down Voltage Regulator	U8	TO-263-5L	LM2576S-5.0	1
LM1117-3.3	800mA Low-Dropout Linear Regulator, 3- pin TO-252	U9	SOT-223-3	LM1117DT-3.3	1
8MHz	Crystal Oscillator	Y1	XTAL-49S	XTAL	1