

1

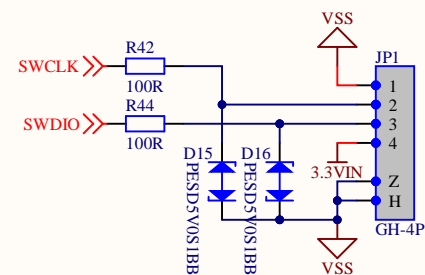
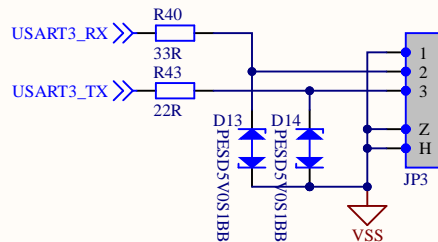
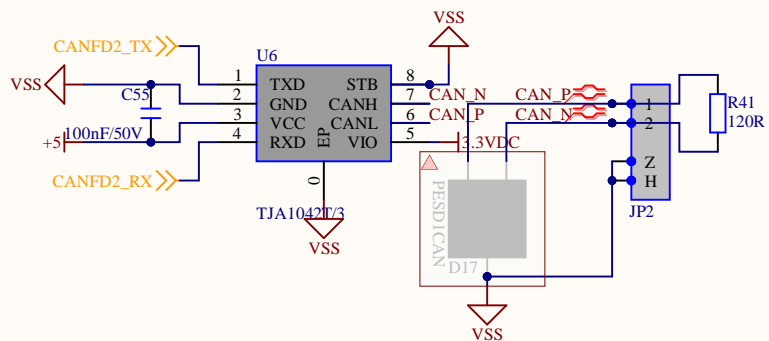
2

3

4

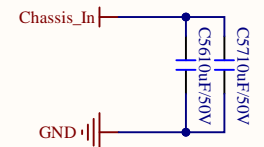
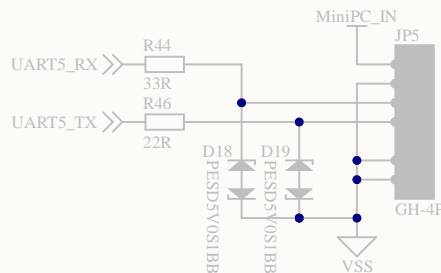
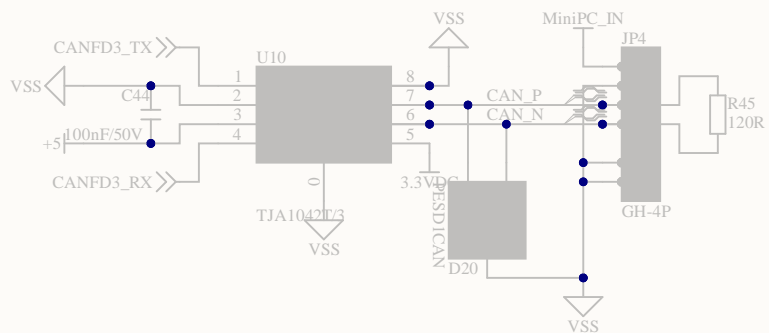
A

A



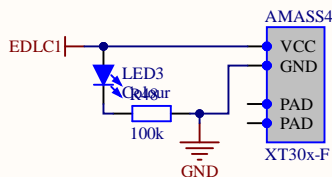
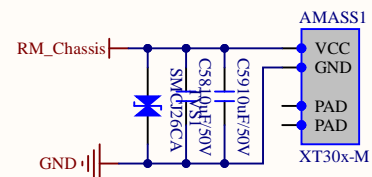
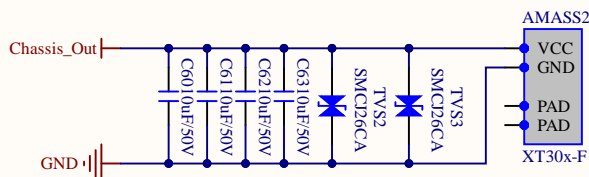
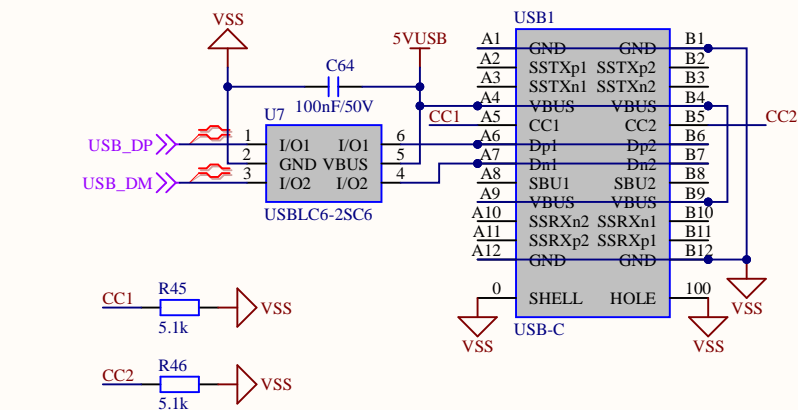
B

B

SP1
M3铜柱SP2
M3铜柱SP3
M3铜柱SP4
M3铜柱

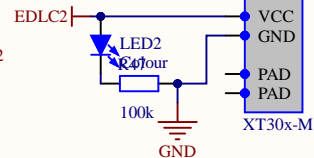
C

C



EDLC1

EDLC2



D

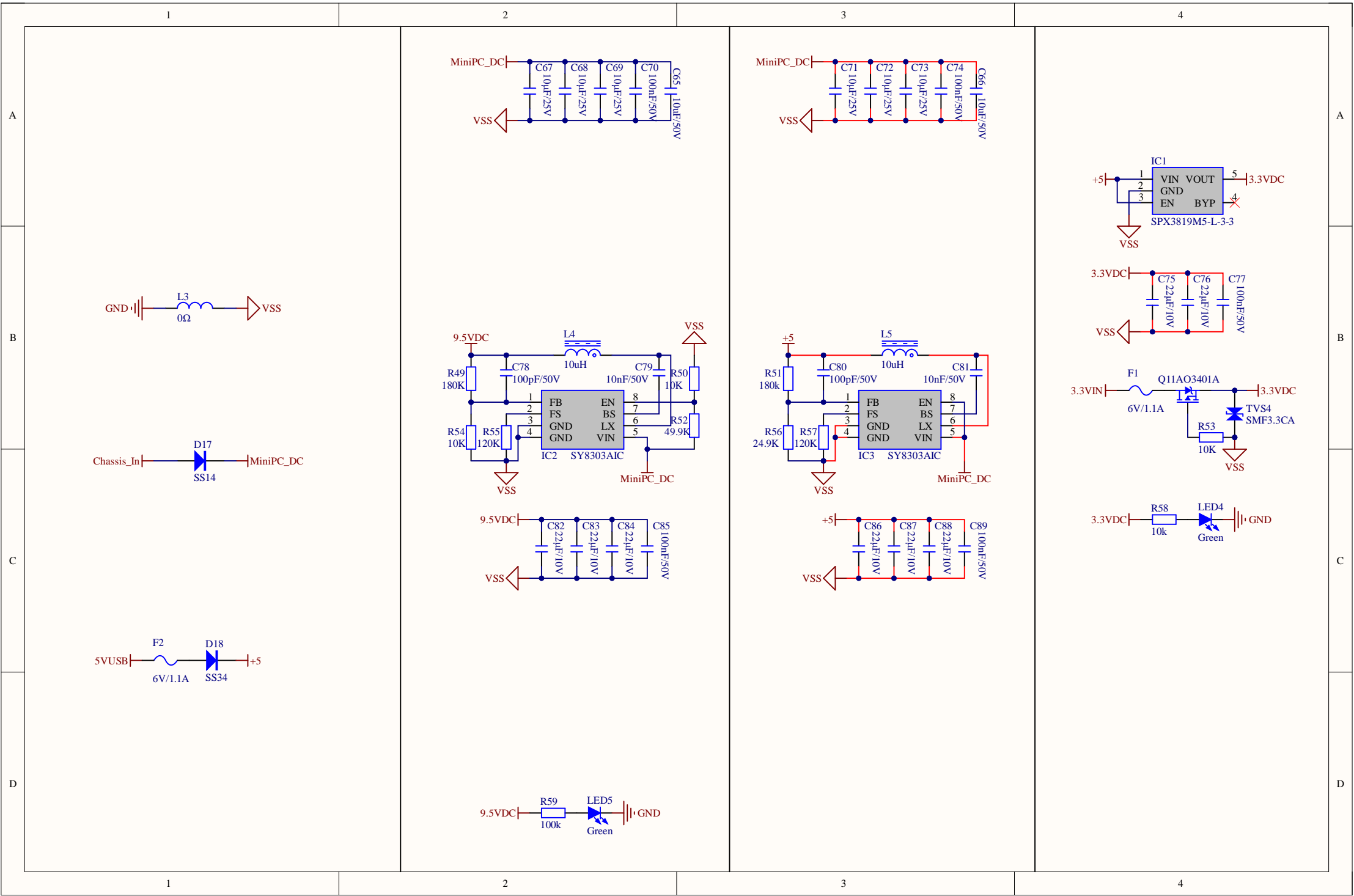
D

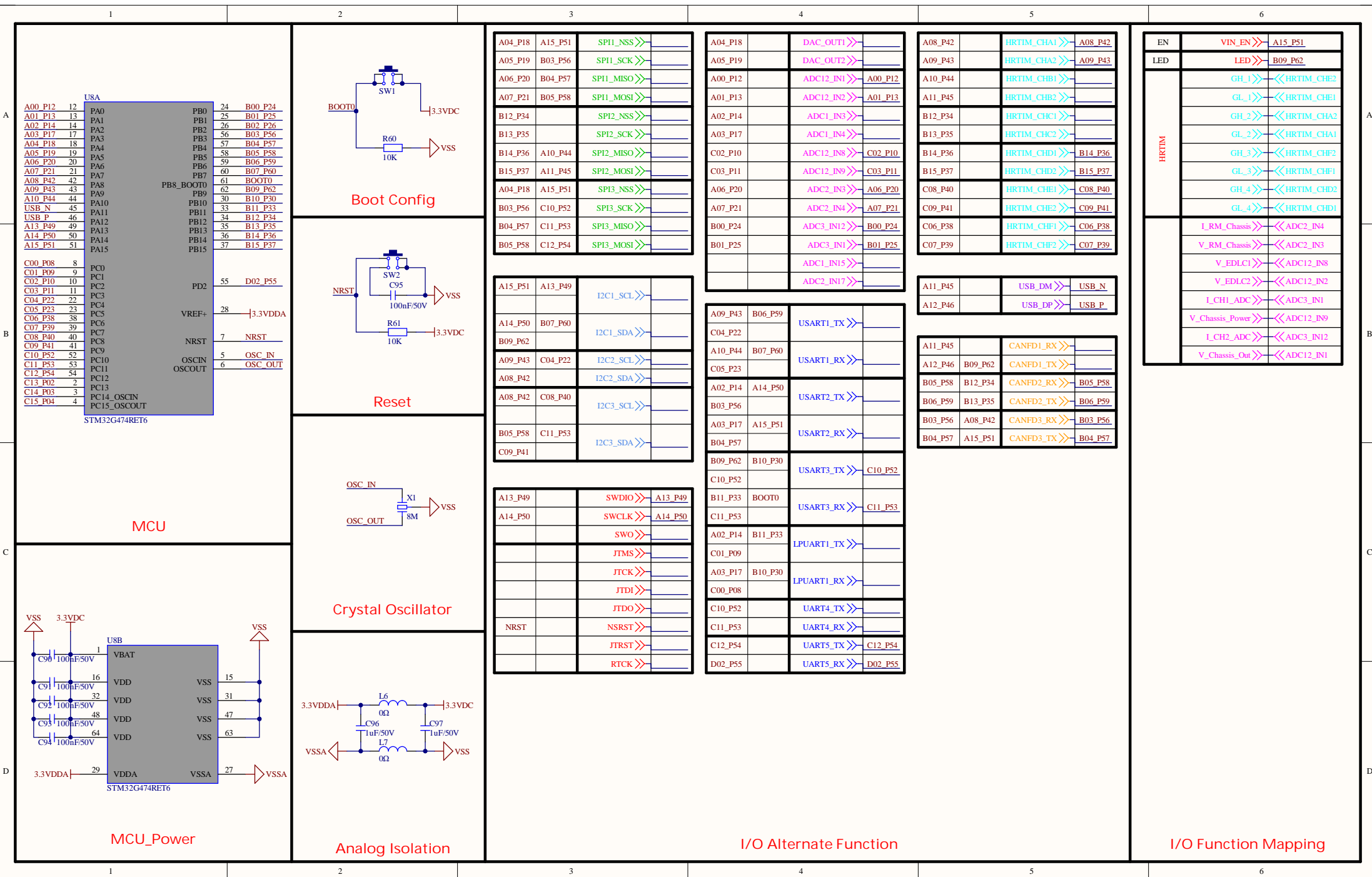
1

2

3

4





Comment	Description	Designator	Footprint	LibRef	Quantity
A	电荷泵/电荷泵	A1	SOT23-5	INA190A2IDBVR	1
AD8605ARTZ-REEL7	高精度低噪声CMOS 轨对轨输入/输出运 算放大器	A2	SOT23-5N	AD8605ARTZ-REEL7	1
XT30x-M	AMass防打火电源接 口, XT30系列	AMASS1, AMASS3	XT30U-M	XT30	2
XT30x-F	AMass防打火电源接 口, XT30系列	AMASS2, AMASS4	XT30U-F	XT30	2
100pF/50V	无极性贴片电容	C1, C31, C32, C33, C34, C78, C80	C 0603_L	C	7
2.2nF/50V	无极性贴片电容	C2, C5, C35, C37, C39, C40	C 0603_L	C	6
100nF/50V	无极性贴片电容	C3, C6, C11, C12, C21, C22, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C55, C64, C70, C74, C77, C85, C89, C90, C91, C92, C93, C94, C95	C 0603_L	C	29
10nF/50V	无极性贴片电容	C4, C36, C38, C79, C81	C 0603_L	C	5
10uF/50V	无极性贴片电容	C7, C8, C9, C10, C13, C14, C15, C16, C17, C18, C19, C20, C23, C24, C25, C26, C51, C52, C53, C54, C56, C57, C58, C59, C60, C61, C62, C63, C65	C 1206_L	C	29
33pF/50V	无极性贴片电容	C27, C28, C29, C30	C 0603_L	C	4
10uF/50V	无极性贴片电容	C66	C 0805_M	C	1
10uF/25V	无极性贴片电容	C67, C68, C69, C71, C72, C73	C 0603_L	C	6
22uF/10V	无极性贴片电容	C75, C76, C82, C83, C84, C86, C87, C88	C 0603_L	C	8
1uF/50V	无极性贴片电容	C96, C97	C 0603_L	C	2
1N4148	高速开关二极管	D1, D2, D3, D4, D5, D6, D7, D8	SOD-323	1N4148	8
DSK38	肖特基二极管	D9, D10, D11, D12	SOD-123F	SS34	4
PESD5V0S1B8	双向静电放电二极管	D13, D14, D15, D16	SOD-523	ESD	4
SS14	肖特基二极管	D17	SMA	SS14	1
SS34	肖特基二极管	D18	SOD-123F	SS34	1
12V	稳压二极管	D21	SOD-323	CVD	1
330uF/50V	铝电解电容	E1, E2, E3, E4	CS-5010*13 - R	C-S	4
6V/1.1A	贴片保险丝	F1, F2	FU 0603	FU	2
INA190A2IDCKR	串接感测放大器 40V	II, I2	SC-70-6	INA190A2IDCKR	2
SPX3819M5-L-3-3	LDO线性稳压芯片	IC1	SOT23-5L	SPX3819	1
SY8303AIC	DC降压芯片	IC2, IC3	SOT23-8L	SY8303	2
GH-4P	4P接插件	JP1	GH 1.25-LS-4P	Header 4	1
HDR-1X2	2P接插件	JP2	GH 1.25-LS-2P	Header 2	1
HDR-1X3	3P接插件	JP3	GH 1.25-LS-3P	Header 3	1
10uH	一体成型电感	L1, L2	CKST2020-1717	L-HP	2
0Ω	小功率贴片电感	L3, L6, L7	L 0603	L	3
10uH	一体成型电感	L4, L5	CKST0602	L-HP	2
MS2812	全彩可吸LED	LED1	LED 3528-RGB	MS2812	1
Calour	贴片LED	LED2, LED3	LED 0603R	LED-SMD	2
Green	贴片LED	LED4, LED5	LED 0603Y	LED-SMD	2
NODE	大电流节点	NC1, NC2	NODE-3	NODE	2
NMOS	DFN封装N沟道场效 应管	O1, O2, O3, O4, O5, O6, O7, O8, O9, O10	DFN5*6-8L	NMOS_DFN	10
AO3401A	贴片信号P沟道场效 应管	O11	SOT23-3L	PMOS_SS	1
10	贴片电阻	R1	R 0603_L	R	1
1K	贴片电阻	R2	R 0603_L	R	1
0.007R	贴片电阻	R3	R 2512_M	R	1
100K	贴片电阻	R4, R47, R48, R59	R 0603_L	R	4
100	贴片电阻	R5, R6, R8, R25, R26, R28, R29, R33, R34, R35	R 0603_L	R	10
10K	贴片电阻	R7, R50, R53, R58, R60, R61	R 0603_L	R	6
0R	贴片电阻	R9, R10, R11, R12, R13, R14, R15, R16, R36, R37, R38, R39	R 0603_L	R	12
10K	精密贴片电阻	R17, R18, R19, R20, R21, R22, R23, R24, R27, R31, R54	R 0603-HP_L	R-Precision	11
0.001R	贴片电阻	R30, R32	R 2512_M	R	2
33R	贴片电阻	R40	R 0603_L	R	1
120R	贴片电阻	R41	R 0603_L	R	1
100R	贴片电阻	R42, R44	R 0603_L	R	2
22R	贴片电阻	R43	R 0603_L	R	1
5.1k	贴片电阻	R45, R46	R 0603_L	R	2
180K	精密贴片电阻	R49, R51	R 0603-HP_L	R-Precision	2
49.9K	贴片电阻	R52	R 0603_L	R	1
120K	贴片电阻	R55, R57	R 0603_L	R	2
24.9K	精密贴片电阻	R56	R 0603-HP_L	R-Precision	1
M3铜柱	铜柱	SP1, SP2, SP3, SP4	M3x4+6-N	铜柱+大头焊盘	4
3.2x4.2x2.5	3.2x4.2轻触开关	SW1, SW2	TSW SMD- 3.2*4.2*2.5	TSW SMD-3x4_D	2
SMCJ26CA	瞬态电压抑制二极管	TVS1, TVS2, TVS3	SMC	TVS	3
SMF3.3CA	瞬态电压抑制二极管	TVS4	SOD-123F	TVS	1
LTC4359	理想二极管控制器	U1	MSOP8_L	LTC4359	1
LM5109	半桥驱动	U2, U3, U4, U5	SOP8_L	LM5109	4
TJA1042T/3	CAN-FD收发器	U6	HVSON8_N	TJA1042T/3	1
USBLC6-2SC6	USBESD保护器TVS阵 列	U7	SOT23-6L	USBLC6-2SC6	1
STM32G474RET6	USB-C接口	U8	LOTP64-10*10	STM32G474RET6	1
USB-C	USB-C接口	USB1	USB-C/S_B	USB-C/S	1
8M	3脚内置电容无源晶 振	X1	OSC 3213-3P	XTAL-3P	1