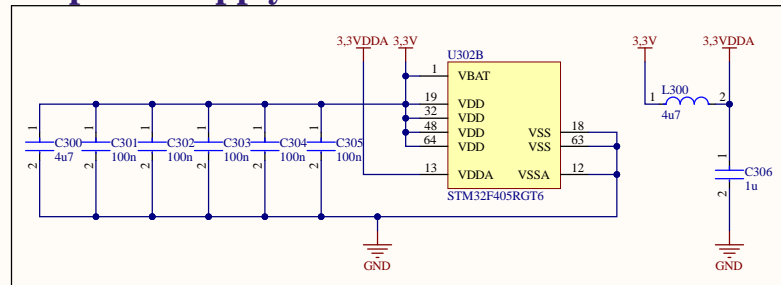


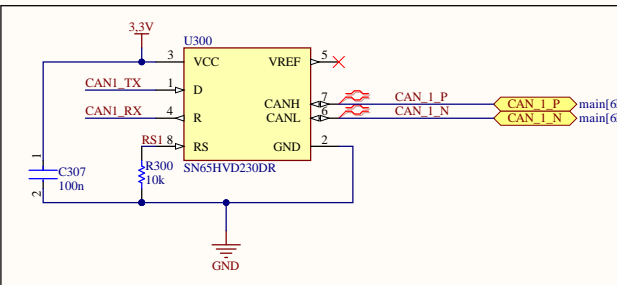
Notice: remember to remove NO ERC label "X" when port is in use

Title			Base board
Size	Number	Revision	
A3		A	
Date:	10/13/2024	Sheet of Base board	
File:	F:\Projects\...\main.SchDoc	Drawn By: Artem Horiunov	

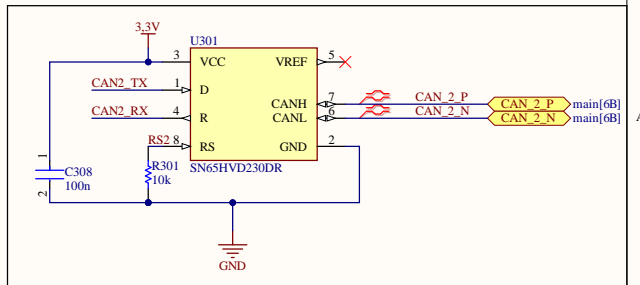
uC power supply



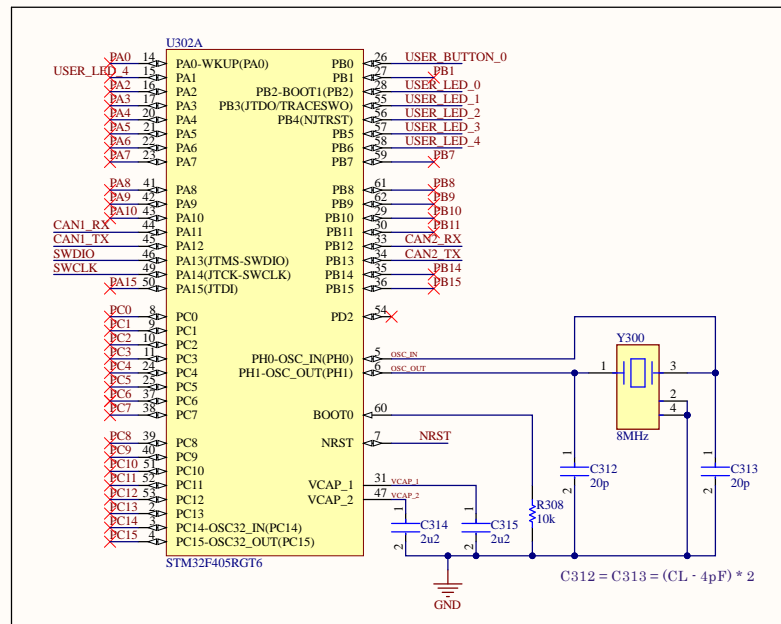
CAN1 transceiver



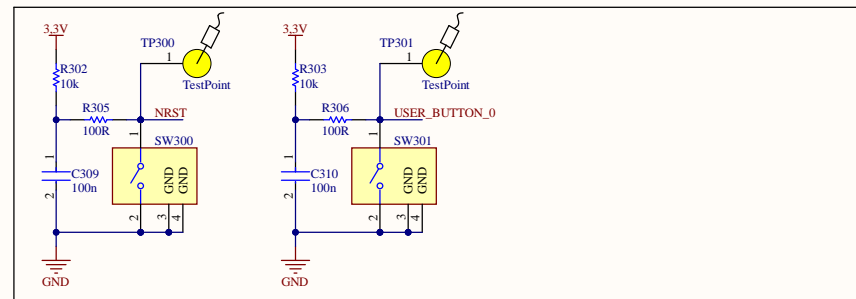
CAN2 transceiver



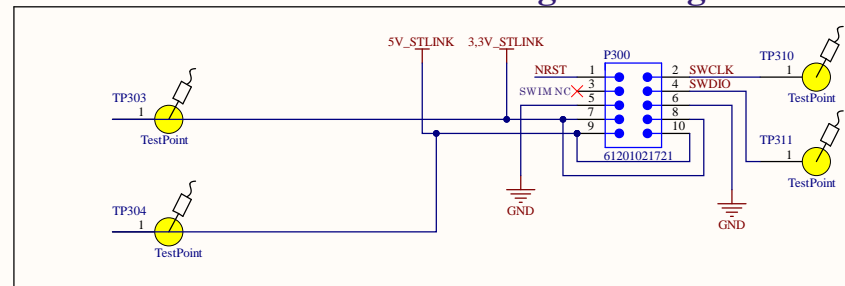
uC



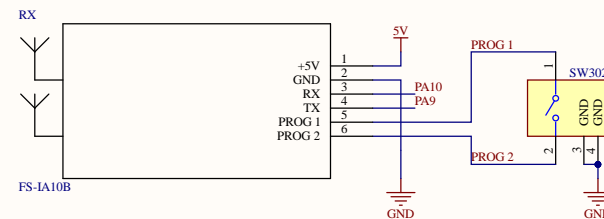
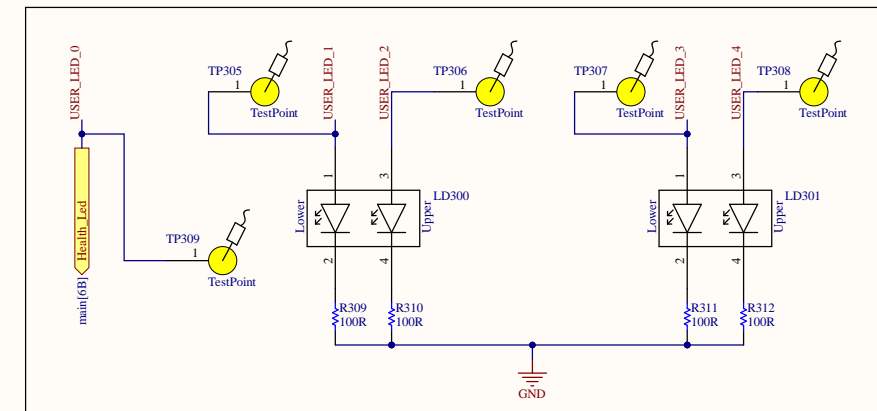
Reset & user buttons



Programming connector



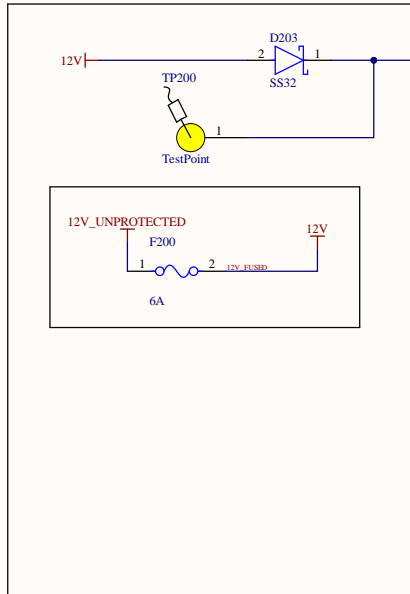
User LEDs



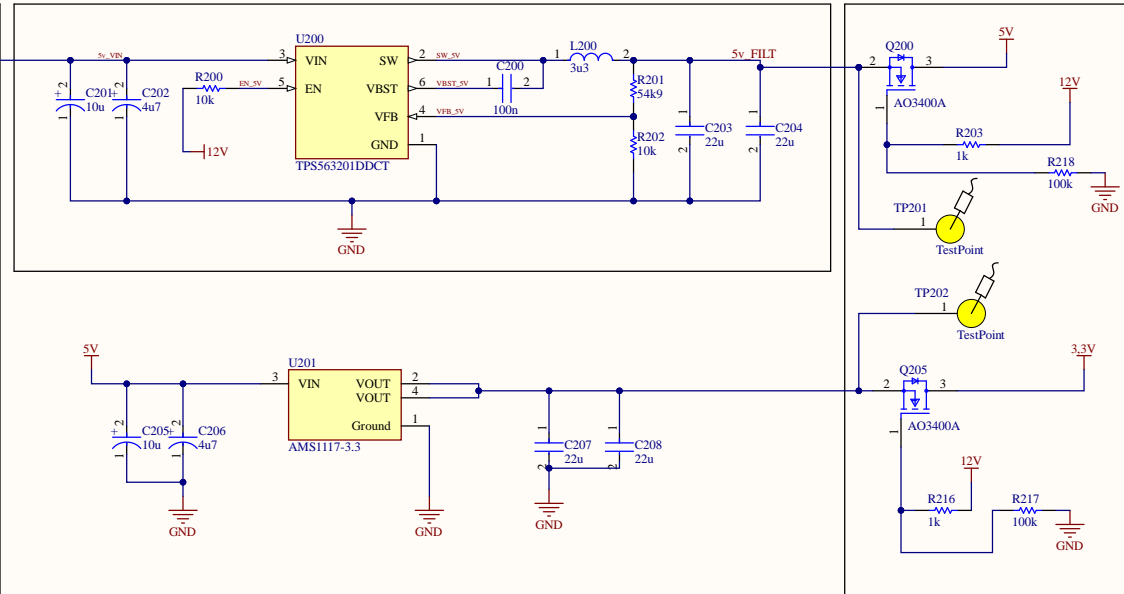
Microcontroller & CAN

Size	Number	Revision
A3		B
Date:	10/13/2024	Sheet of Base board
File:	F:\Projects\..uC.SchDoc	Drawn By: Dominik Pluta, Artem Horunov

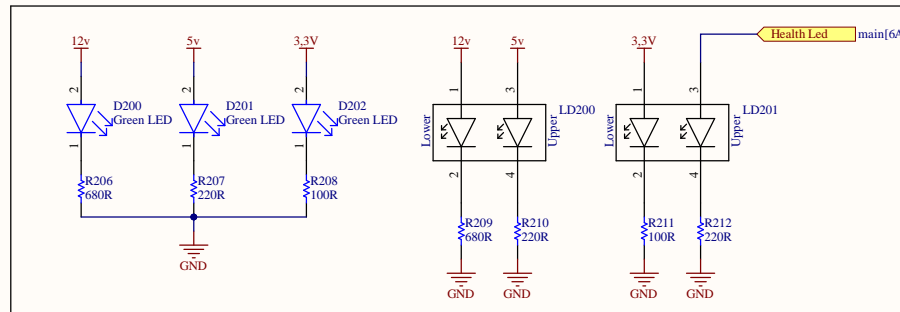
Protections



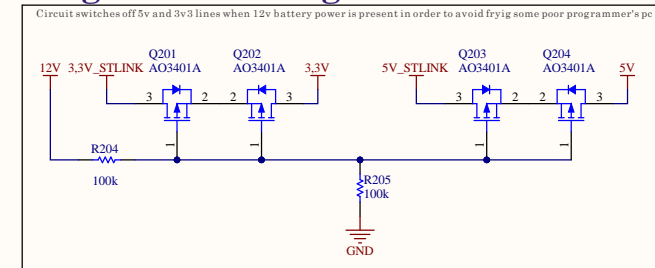
12V to 5V converter



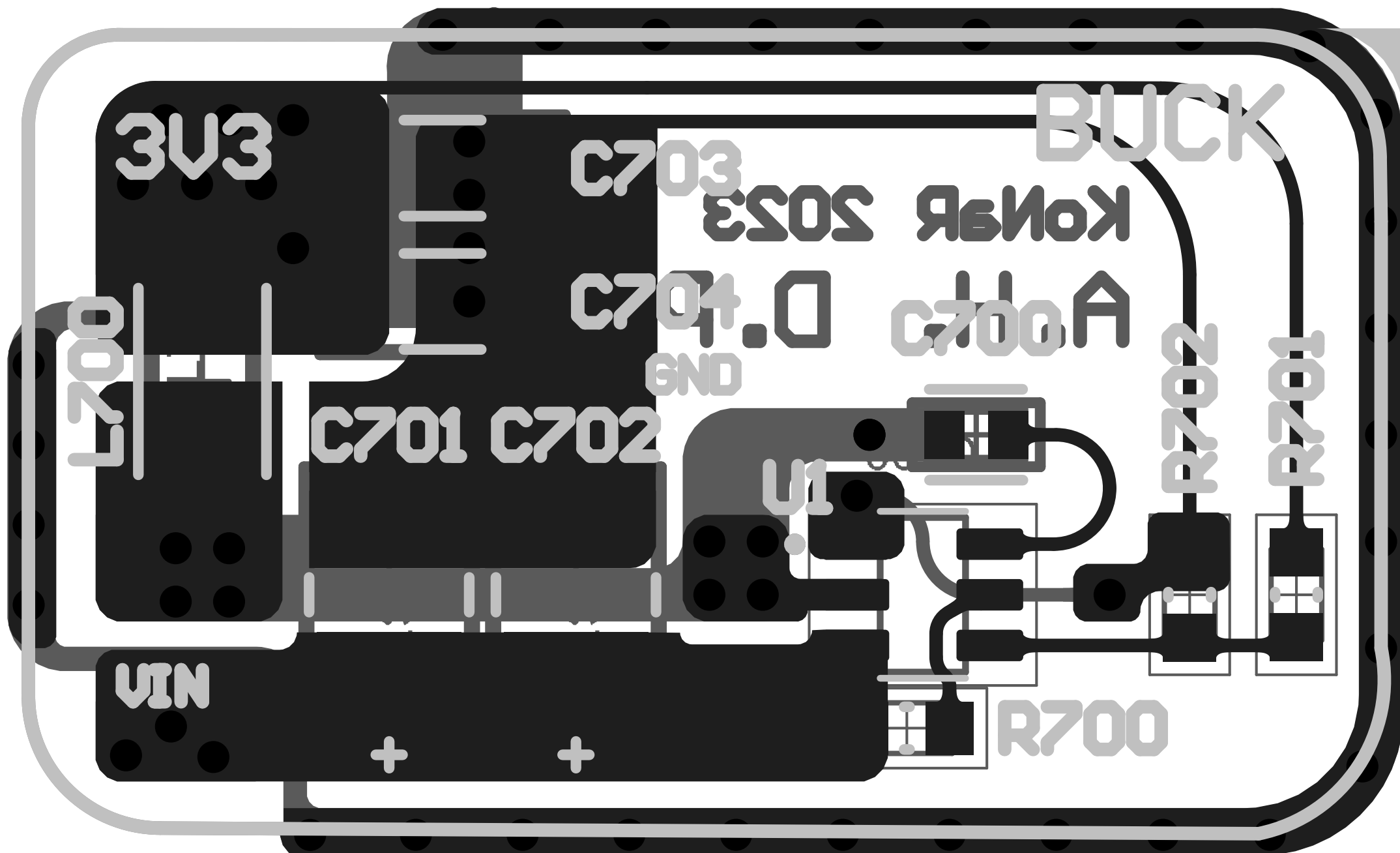
Power indicator LEDs

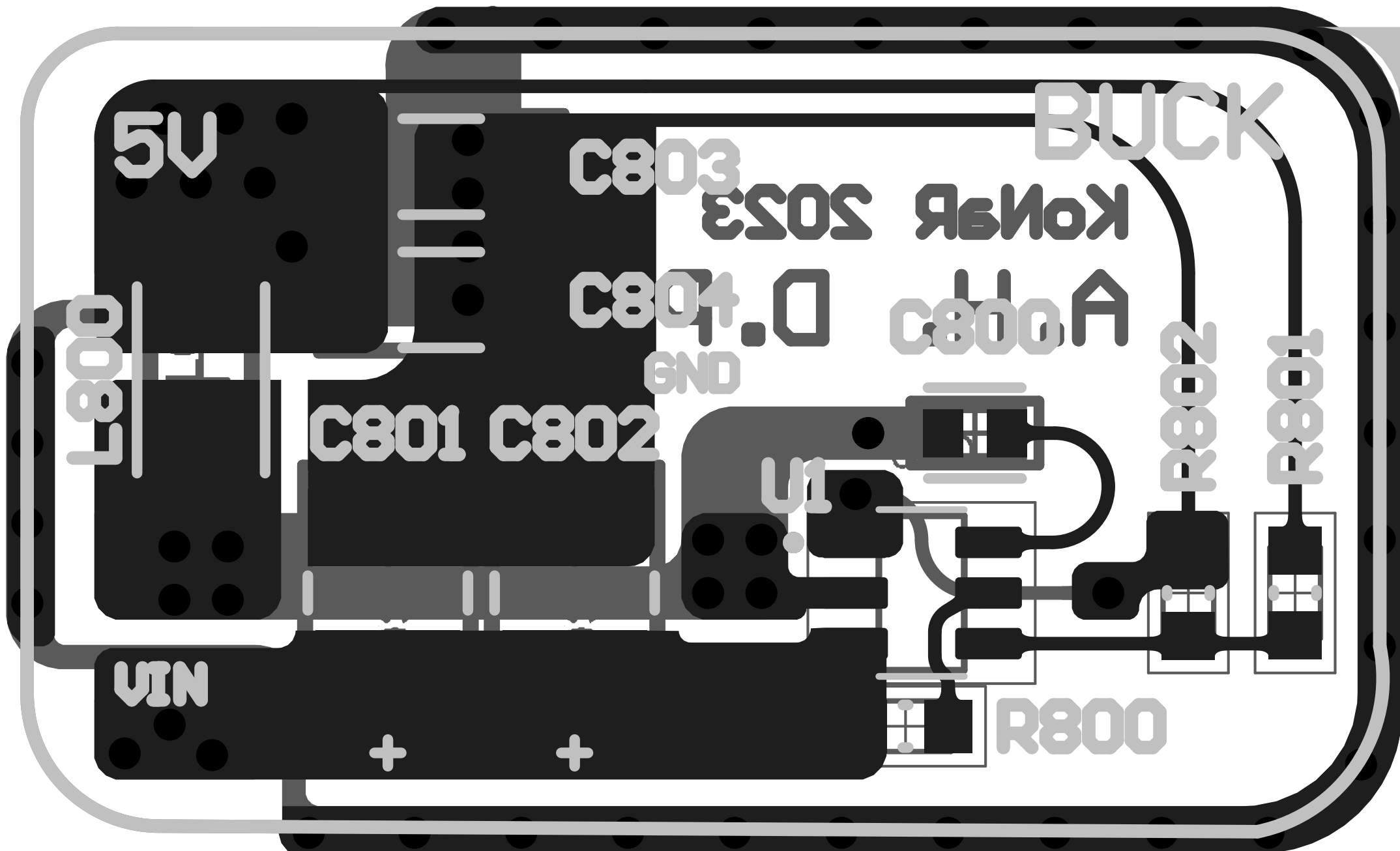


Programmer voltage switch



Title			Power supply section		
Size	Number	Revision		B	
A3					
Date:	10/13/2024	Sheet of	Base board		
File:	F:\Projects\...power.SchDoc	Drawn By:	Dominik Pluta, Artem Hryunov		





Comment	Description	Designator	Footprint	LibRef	Quantity
100n	CAP CER 0.1UF 50V X7R 0603	C200, C301, C302, C303, C304, C305, C307, C308, C309, C310	FP-C0603C-CF-MFG	OMP-2006-03061-2	10
10u	Molded Tantalum Polymer Capacitor 10uF 20% 16V life 2000hours SMD 1411	C201, C205	FP-POS CAP-B2-MFG	OMP-05428-001070-1	2
4u7	Molded Tantalum Polymer Capacitor 10uF 20% 16V life 2000hours SMD 1411	C202, C206	FP-POS CAP-B2-MFG	OMP-05428-001070-1	2
22u	Multi-layer Ceramic Capacitors 22uF ±20% 6.3V XGR SMD 1206	C203, C204, C207, C208	FP-C3216-085-0_2- MFG	OMP-08246-004858-1	4
4u7	CAP CER 0.1UF 50V X7R 0603	C300	FP-C0603C-CF-MFG	OMP-2006-03061-2	1
1u	CAP CER 0.1UF 50V X7R 0603	C306	FP-C0603C-CF-MFG	OMP-2006-03061-2	1
20p	CAP CER 50V X7R 0603	C312, C313	FP-C0603C-CF-MFG	OMP-2006-03061-2	2
2u2	CAP CER 50V X7R 0603	C314, C315	FP-C0603C-CF-MFG	OMP-2006-03061-2	2
Green LED	LED GREEN DIFFUSED 0603 SMD	D200, D201, D202	FP-HSME-C191-MFG	OMP-18399-000013-1	3
SS32	SS32 Rectifier Diode, Schottky, 1 Phase, 1 Element, 3A, 20V V(RRM), Silicon, DO- 214AB	D203	FP-403AG-MFG	OMP-00278-84331622- 1	1
6A		F200	FP-0468-MFG	OMP-08605-000093-1	1
09 03 164 6821	CONN DIN HDR 96POS PCB RA	J100	FP-09_03_164_6821- MFG	OMP-33111-000001-1	1
73415-1472	73415-1472 50 Ohms, MMCX Vertical Jack, PCB, Brass and Gold Per Commercial Requirements, One Piece Per Bag	J300, J301, J302, J303	FP-73415-1472-MFG	OMP-00257-24916978- 1	4
3u3	MDA4220-3R3M 3.3uH ±20% 3.1A 65mΩ SMD 4.1x4.5mm Inductors (SMD) RoHS	L200	FP-SFP4020TA-MFG	OMP-07248-000008-1	1
4u7	Multi-layer Type Inductor for General Circuits, 0805 (2012), 0.22uH, 10%, 0.38Ω, 250mA	L300	FP-LQM421DN_00-MFG	OMP-06042-016438-1	1
		LD200, LD201, LD300, LD301	LED HOLDER	DoubleSided_SideLe d_3mm	4
61201021721		P300	61201021721	OMP-1502-00021-2	1
AO3400A	MOSFET N-CH 30V 5.7A SOT23	Q200, Q205	FP-SOT23-MFG	OMP-83955-000006-1	2
AO3401A	P-Channel MOSFET, 30 V, 4 A, -55 to 150 degC, 3-Pin SOT-23- 3L, RoHS Tape and Reel	Q201, Q202, Q203, Q204	AO-SOT-23-3L_V	OMP-2000-05778-1	4
0R	Chip Resistor, 0 Ohm, ±- 5%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS Tape and Reel	R100, R101, R102, R103	RES0603X55C25ML10 T15	OMP-2100-03667-1	4
10k	2K 0.1W 5% 0603 (1608 Metric) SMD, 0.1W 5% 0603 (1608 Metric) SMD	R200, R202, R203, R201, R302, R303, R308	RES0603(1608)_N	OMP-1012-00081-1	7
54k9	0.1W 1% 0603 (1608 Metric) SMD	R201	RES0603(1608)_N	OMP-1012-00081-1	1
1k	2K 0.1W 5% 0603 (1608 Metric) SMD	R203, R216	RES0603(1608)_N	OMP-1012-00081-1	2
100k	2K 0.1W 5% 0603 (1608 Metric) SMD	R204, R205, R217, R218	RES0603(1608)_N	OMP-1012-00081-1	4
680R	0.1W 1% 0603 (1608 Metric) SMD	R206, R209	RES0603(1608)_N	OMP-1012-00081-1	2
220R	0.1W 1% 0603 (1608 Metric) SMD	R207, R210, R212	RES0603(1608)_N	OMP-1012-00081-1	3
100R	0.1W 1% 0603 (1608 Metric) SMD, 0.1W 5% 0603 (1608 Metric) SMD	R208, R211, R305, R306, R309, R310, R311, R312	RES0603(1608)_N	OMP-1012-00081-1	8
FS1A10B		RX	FS1A10B	FS1A10B	1
B3F-3122	SWITCH TACTILE SPST- NO 0.05A 24V	SW300, SW301, SW302	FP-B3F-3122-MFG	OMP-08834-000053-1	3
TestPoint		TP200, TP201, TP202, TP300, TP301, TP303, TP304, TP305, TP306, TP307, TP308, TP309, TP310, TP311	TestPoint	TestPoint	14
TP596320100CT		L200	SOT16FP280X110-6N	OMP-007-000000-1	1
AMS1117-3.3	LDO Voltage Regulators 1A, 3.3V	U201	FP-AMS1117-IPC_C	OMP-200635-000001-1	1
SN69HVD230DR	IC TRANSCEIVER HALF 1/1 8SOIC	U300, U301	FP-D0008A-IPC_A	OMP-0315-00015-3	2
STM32F405RGTB	ARM Cortex-M4 32-bit MCU+FP, 210 DMIPS 1024 kB Flash, 192 kB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	U302	STM-LQFP64_M	OMP-0243-00019-3	1
8MHz	Crystal	Y300	FP-7MM-MFG	OMP-18717-000311-1	1