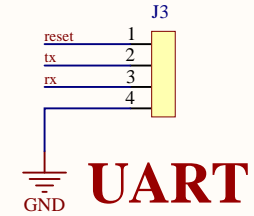
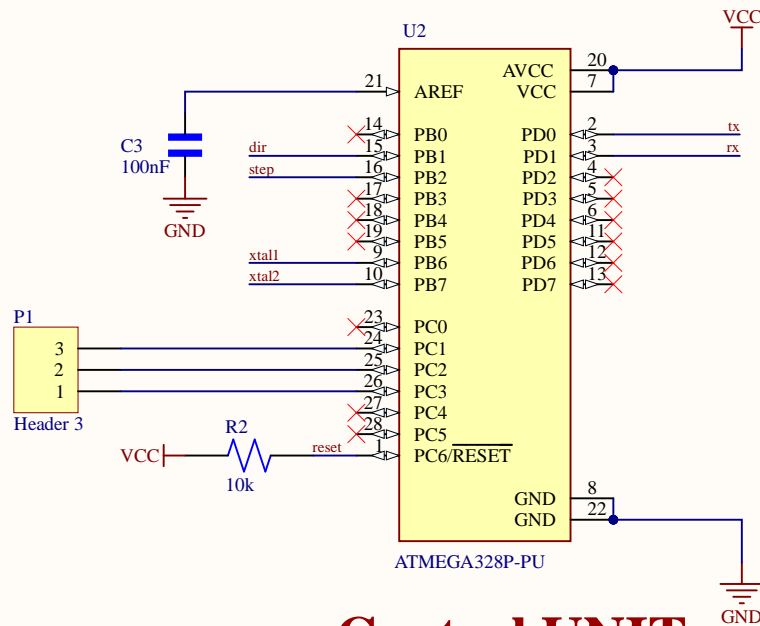


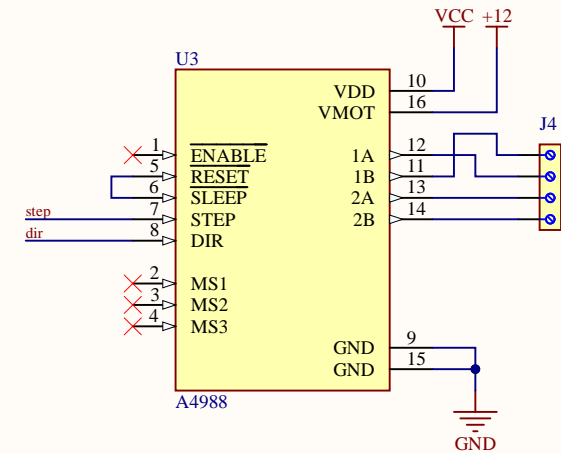
**Power supply**



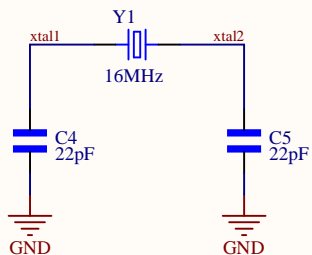
**UART**



**Control UNIT**

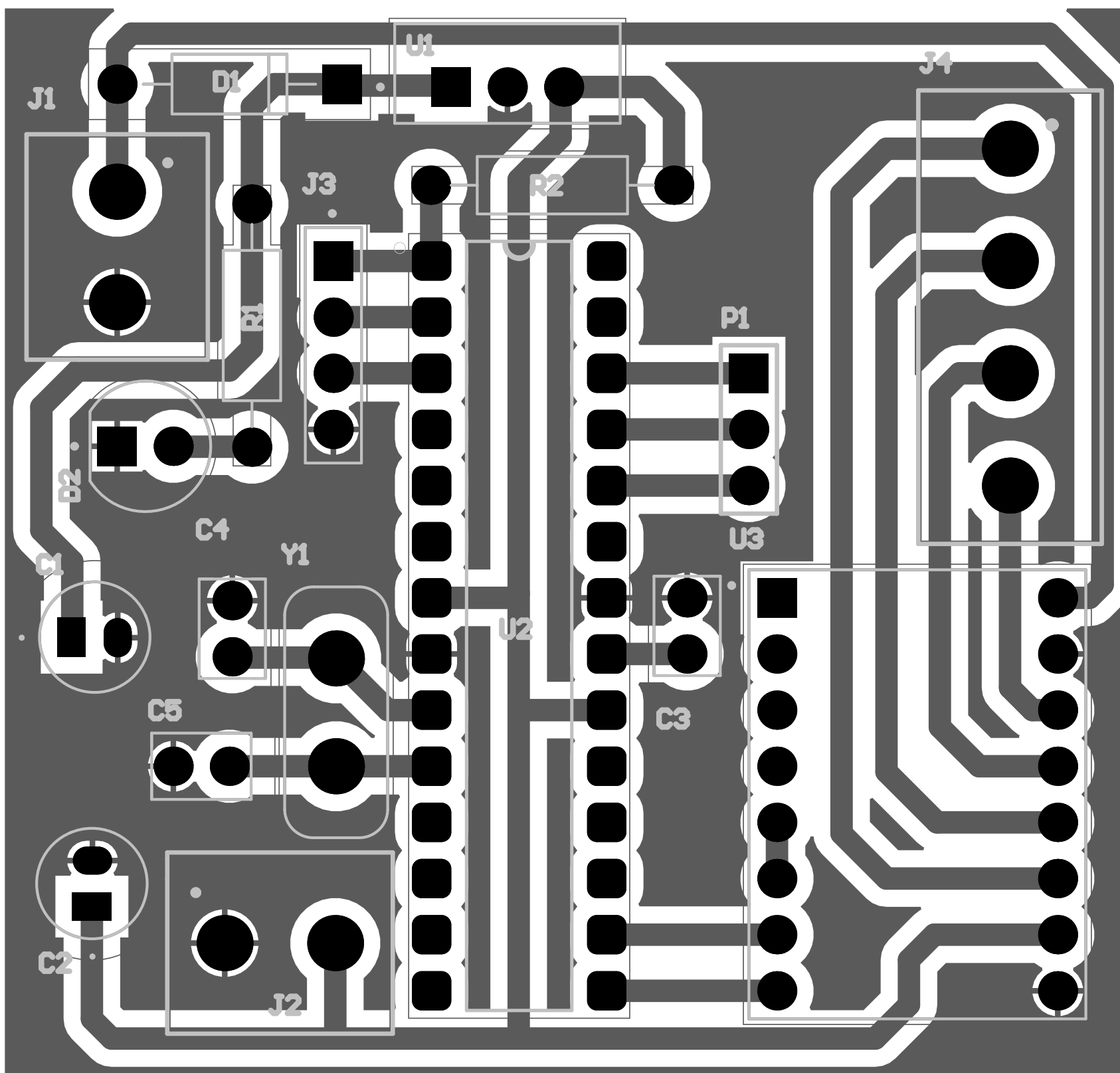


**Stepper**



**Crystal oscillator**

Title			
Size	Number		Revision
A			
Date:	6-10-2023		Sheet of
File:	V:\Office\...\schematic.SchDoc		Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
100uF	FS-A	C1	CAPPRD500W50D500 H1100	Electrolytic capacitor	1
10uF	FS-A	C2	CAPPRD500W50D500 H1100	Electrolytic capacitor	1
100nF	2200 pF $\pm 10\%$ 250V Ceramic Capacitor X7R Radial	C3	CAPRB500W50L450T3 00H550	Ceramic capacitor	1
22pF	2200 pF $\pm 10\%$ 250V Ceramic Capacitor X7R Radial	C4, C5	CAPRB500W50L450T3 00H550	Ceramic capacitor	2
1N4007	Diode Switching 1KV 1A 2-Pin DO-41	D1	D1OAD1060W80L520D 270	1N4007	1
L08R5000Q1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D2	LEDRD254W57D500H1 070	LED	1
691111710002	2 Position Wire to Board Terminal Block Horizontal with Board 0.197 _5.00mm_ Through Hole	J1, J2	691111710002	Terminal Block - 2Pins	2
PPTC041LFBN-RC	4 Position Header Connector Through Hole	J3	SULLINS_PPTC041LFB N-RC	Female header - 4Pins	1
691241510004	<b>WIKI-BL Serie 2415 - 5.08 mm Horizontal Entry Modular w. Rising Cage Clamp</b>  <b>KIND PROPERTIES </b>   Pitch 5.08 mm    <b>MATERIAL PROPERTIES </b>   Insulator Material PA66  Insulator Flammability Rating UL94 V-0  Terminal Screw Material Steel  Terminal Screw Plating Zinc  Wire Guard Material Copper Alloy    <b>GENERAL INFORMATION </b>   Operating Temperature -30 up to +120 $^{\circ}$ C	J4	691241510004	Terminal block - 4Pins	1
Header 3	Header, 3-Pin	P1	HDR1X3	Header 3	1
1k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R1	RESAD1100W55L680D 260	Resistor (0.25W)	1
10k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R2	RESAD1100W55L680D 260	Resistor (0.25W)	1
LM7805		U1	TQ255P1020X450X196 8-3	LM78__	1
ATMEGA328P-PU	ATmega Series 20 MHz 32 KB Flash 2 KB SRAM 8-Bit Microcontroller - DIP- 28	U2	DIP794W46P254L2967 H457Q28B	ATMEGA328P-PU	1
A4988	Stepper motor controller; IC: A4988; 1A; Uin mot: 8A-35V	U3	MODULE_A4988_STEP PER_MOTOR_DRIVER _CARRIER	A4988_STEPPER_MOT OR_DRIVER_CARRIER	1
16MHz	CRYSTAL T/H	Y1	XTAL_ECS-160-20-4X	Crystal oscillator	1