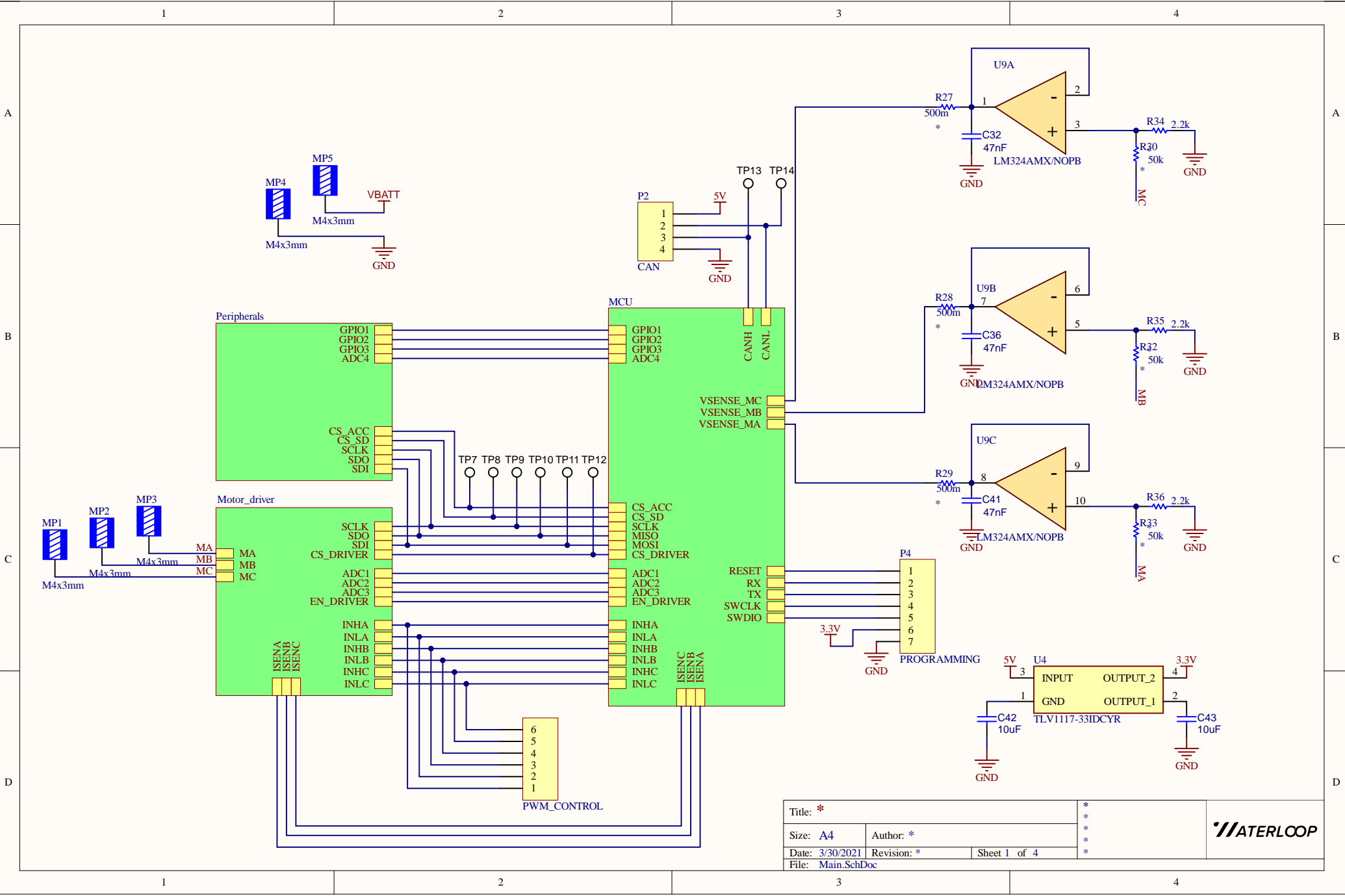
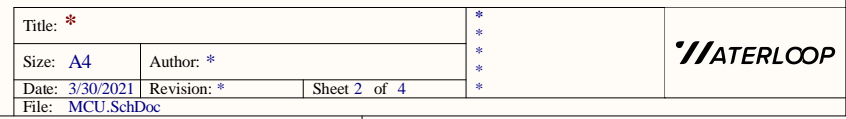
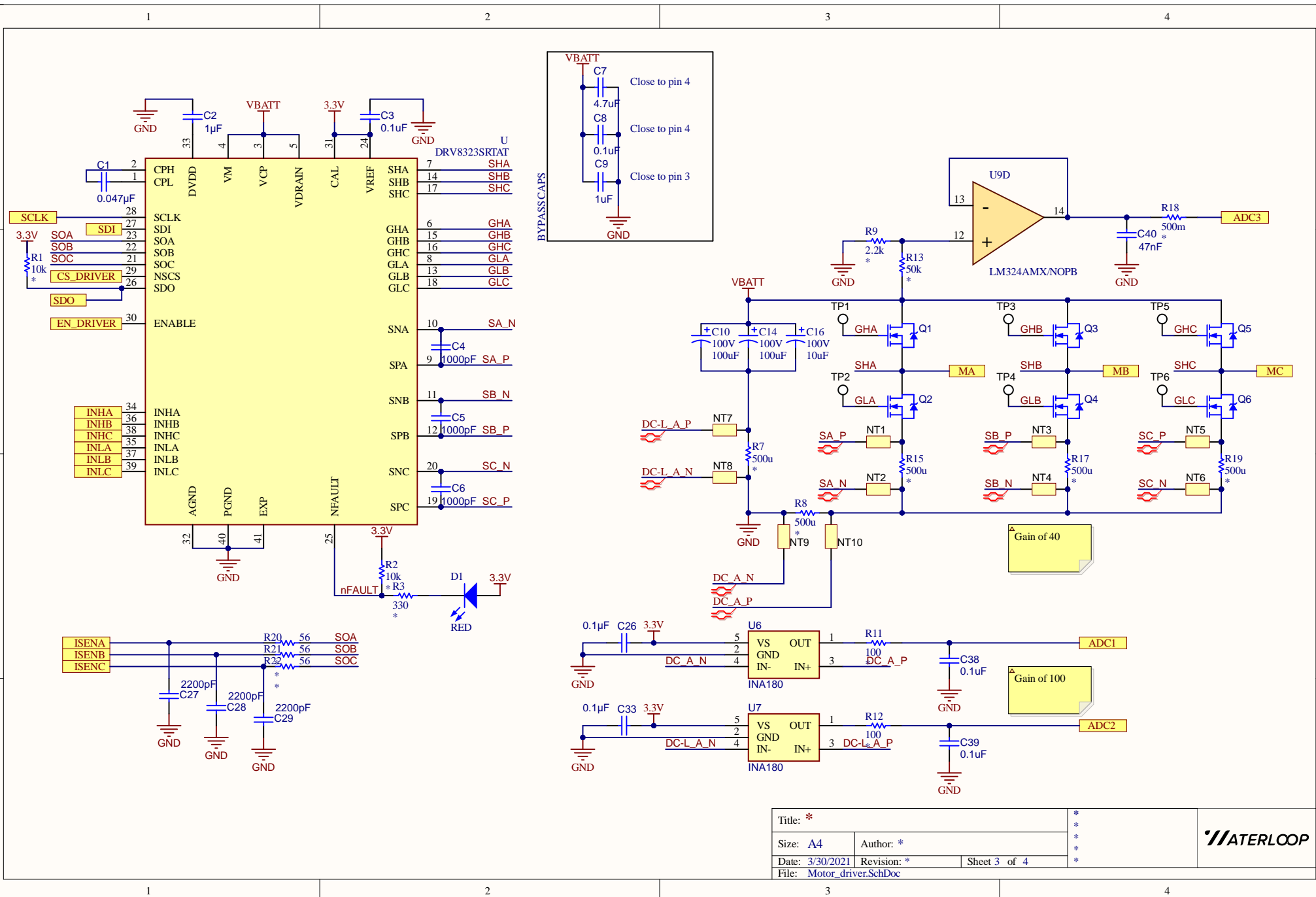
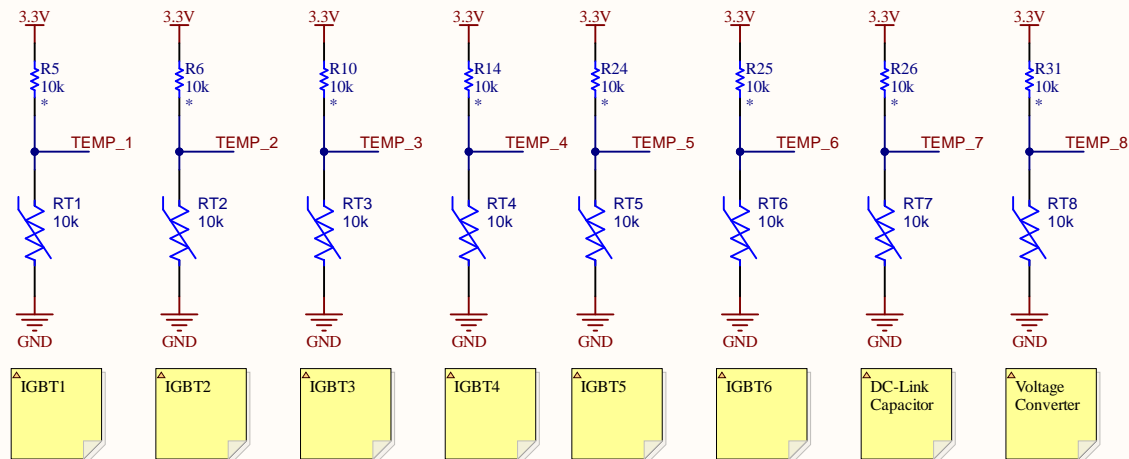
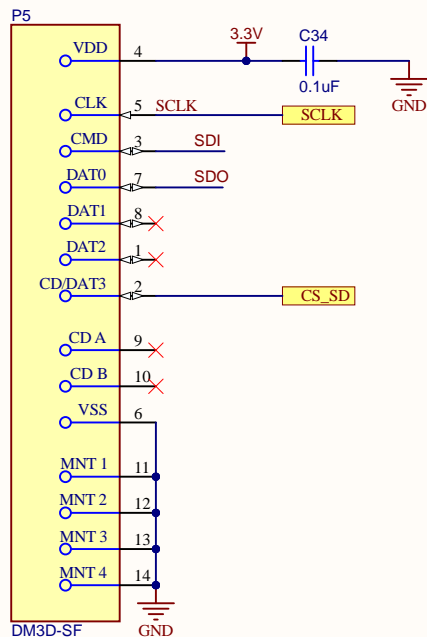
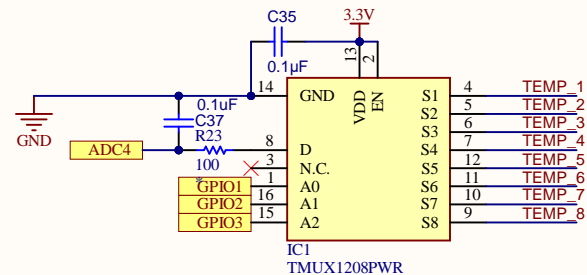
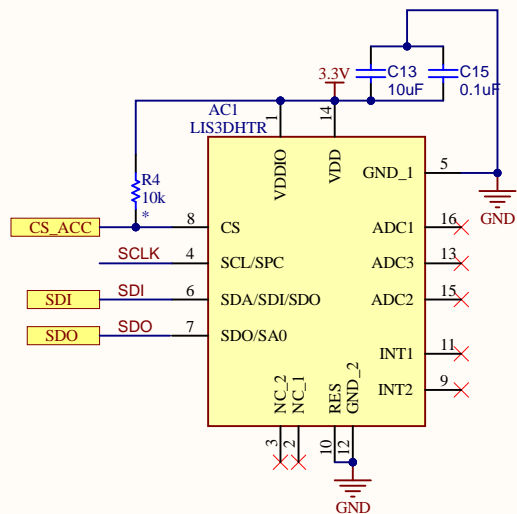


Designator	Value	Comment	Description	Footprint	Quantity
		PWM_CONTROL	Header, 6-Pin	HDR1X6	1
AC1		US3DHTR	Accelerometer	US3DHTR	1
C1	0.047µF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C2	1µF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C3, C8, C20, C21, C22, C23, C24, C38, C39	0.1µF		C0805C103K8RACT7800 .10000µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric) C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	9
C4, C5, C6	1000pF		C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C7	4.7µF		CL21B105KPFNNNE 1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C9, C19	1µF		C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric) CL21B105KPFNNNE 1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C10, C14	100µF	100V	Polarized Capacitor (Surface Mount)	C0805	2
C11, C12	2.2µF	10V	C0805C225K8RACTU 0.22µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C13, C42, C43	10µF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C15, C25, C34, C37	0.1µF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
C16	10µF	100V	Polarized Capacitor (Surface Mount)	C0805	1
C17, C26, C33, C35	0.1µF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
C18	10nF		C0805C103K8RACT7800 .10000pF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C27, C28, C29	2200pF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C30, C31	28pF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C32, C36, C40, C41	47nF	10V	C0805C104K8RACTU 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
D1		RED	Typical RED, GREEN, YELLOW, AMBER	3.2X1.6X1.1	1
IC1		TMUX1208PWR	Integrated Circuit	SOIP65P40X120-16N	1
MP1, MP2, MP3, MP4, MP5		M4x3mm	WP-THRU REDCUBE THR Internal through- hole thread, 10x10mm, M4x3mm, 8 pins, 85A	74650094	5
P2		CAN	Header, 4-Pin	HDR1X4	1
P4		PROGRAMMING	Header, 7-Pin	HDR1X7	1
P5		DM3D-SF	CONV MICRO SD CARD PUSH-PULL	FP-DM3D-SF-MFG	1
Q1, Q2, Q3, Q4, Q5, Q6		NMOS-2	N-Channel Power MOSFET	CSD1850DKCS	4
R1, R2, R4, R5, R6, R10, R14, R24, R25, R26, R31, R7		10k	Resistor	0603 - Resistor	12
R3		330	Resistor	0603 - Resistor	1
R7, R8, R15, R17, R19		500u	Resistor	0603 - Resistor	5
R9, R34, R35, R36		2.2k	Resistor	0603 - Resistor	4
R11, R12, R23		100	Resistor	0603 - Resistor	3
R13, R30, R32, R33		50k	Resistor	0603 - Resistor	4
R16	120	5%	ERJ-3GEY103V, 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200 Thick Film	JT-0603	1
R18, R27, R28, R29		500m	Resistor	0603 - Resistor	4
R20, R21, R22		5e	Resistor	0603 - Resistor	3
R1, R12, RT3, RT4, RT5, RT6, RT7, RT8		10k	NTC Thermistor for Temperature Sensor, SMD 0603, 10kΩ	ERT-17VG1031A	8
S1		SW-PB	Switch	PTS636SM43SMTRLF5	1
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	White	5002	Test Point, Miniature, White, Th	Keystone5002	14
U		DRV8323SRTAT	Multiphase Motor Driver Power MOSFET SPI 40- WQFN .6x6.	QFN50P600X600X80- 41N415X415	1
U2		TIA1051T-3.118	Integrated Circuit	TIA1051T-3.118	1
U3		STM32F405RCt6TR	Integrated Circuit	STM32F405RCt6TR	1
U4		TLV1117-33DCVR	Integrated Circuit	TLV1117-33DCVR	1
U6, U7		INA180	0V to 26V Current Sense Amplifier	INA180	2
U9		LM324AMX/NOPB	Gen Purp 4Ch Opamp	LM324AMX/NOPB	1
Y1		ABM3-16.000MHZ-B2- T	16MHz Ax20ppm Crystal 18pF 40 Ohms 2-SMD, No Lead	ABM3-16.000MHZ-B2- T	1









Title: *		* * * *	WATERLOOP
Size: A4	Author: *		
Date: 3/30/2021	Revision: *		
File: Peripherals.SchDoc	Sheet 4 of 4		

