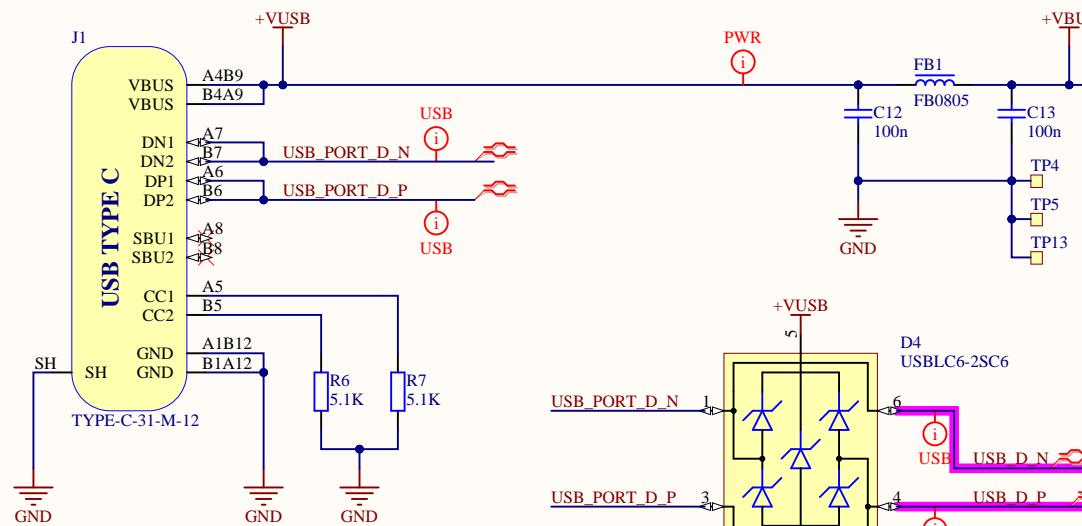
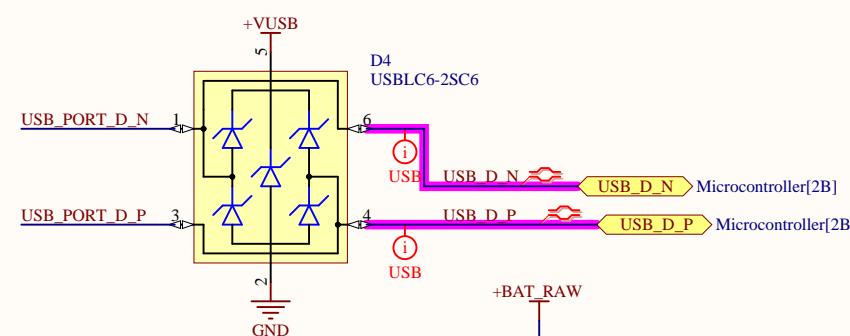


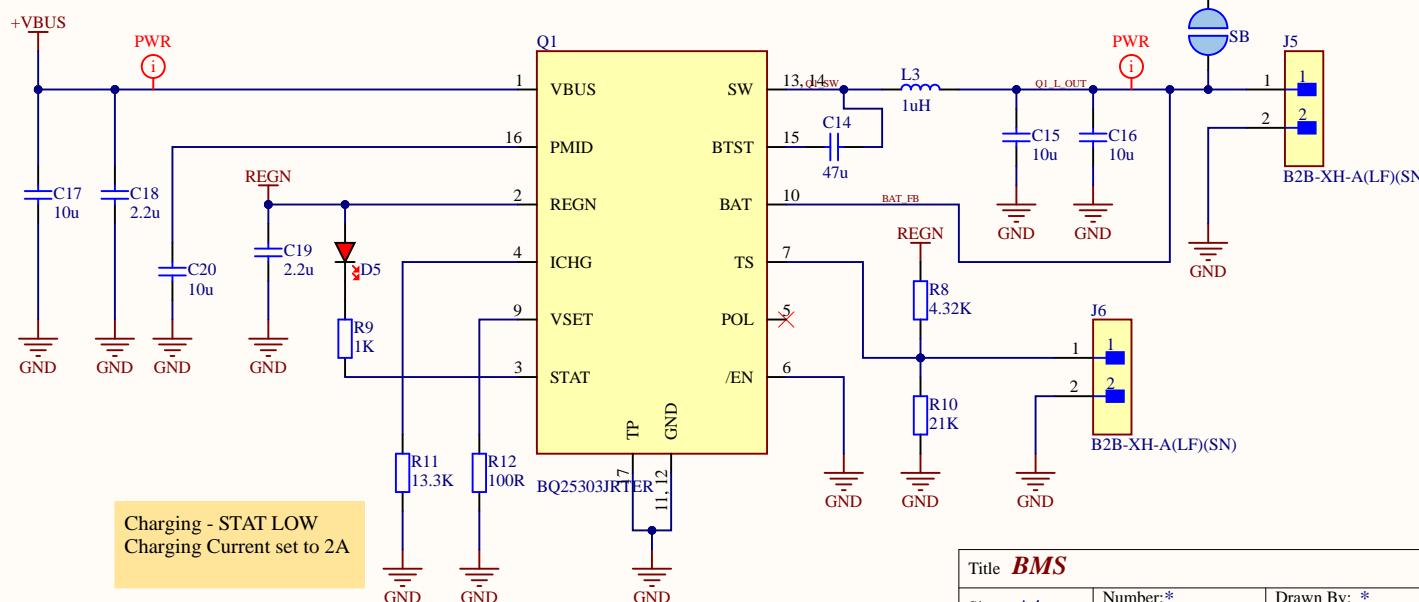
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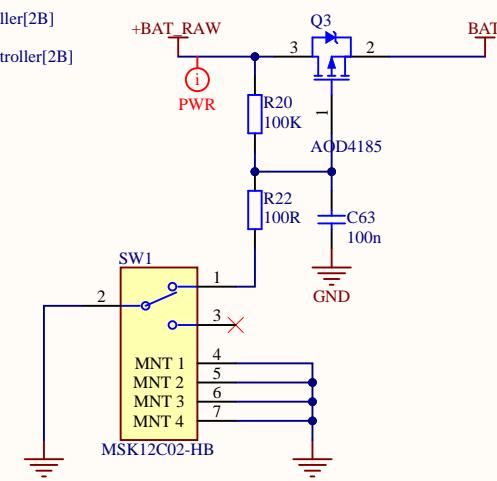
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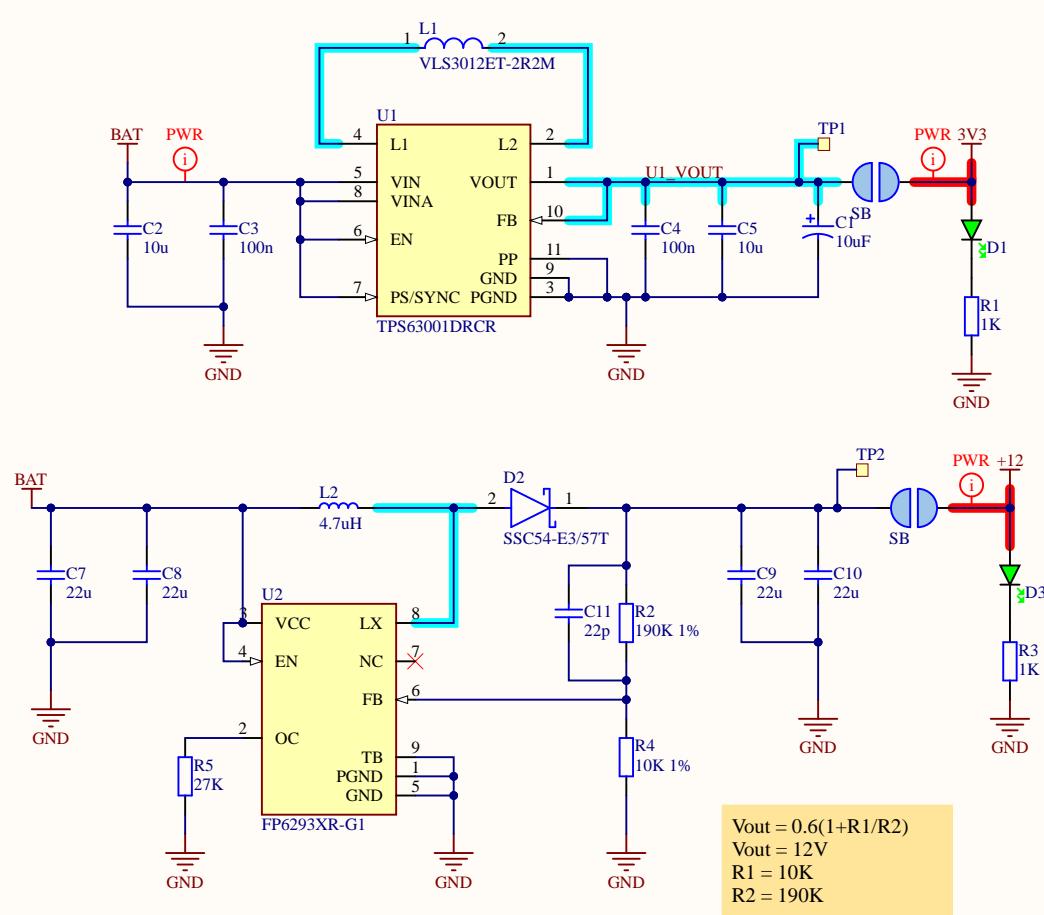
C



D

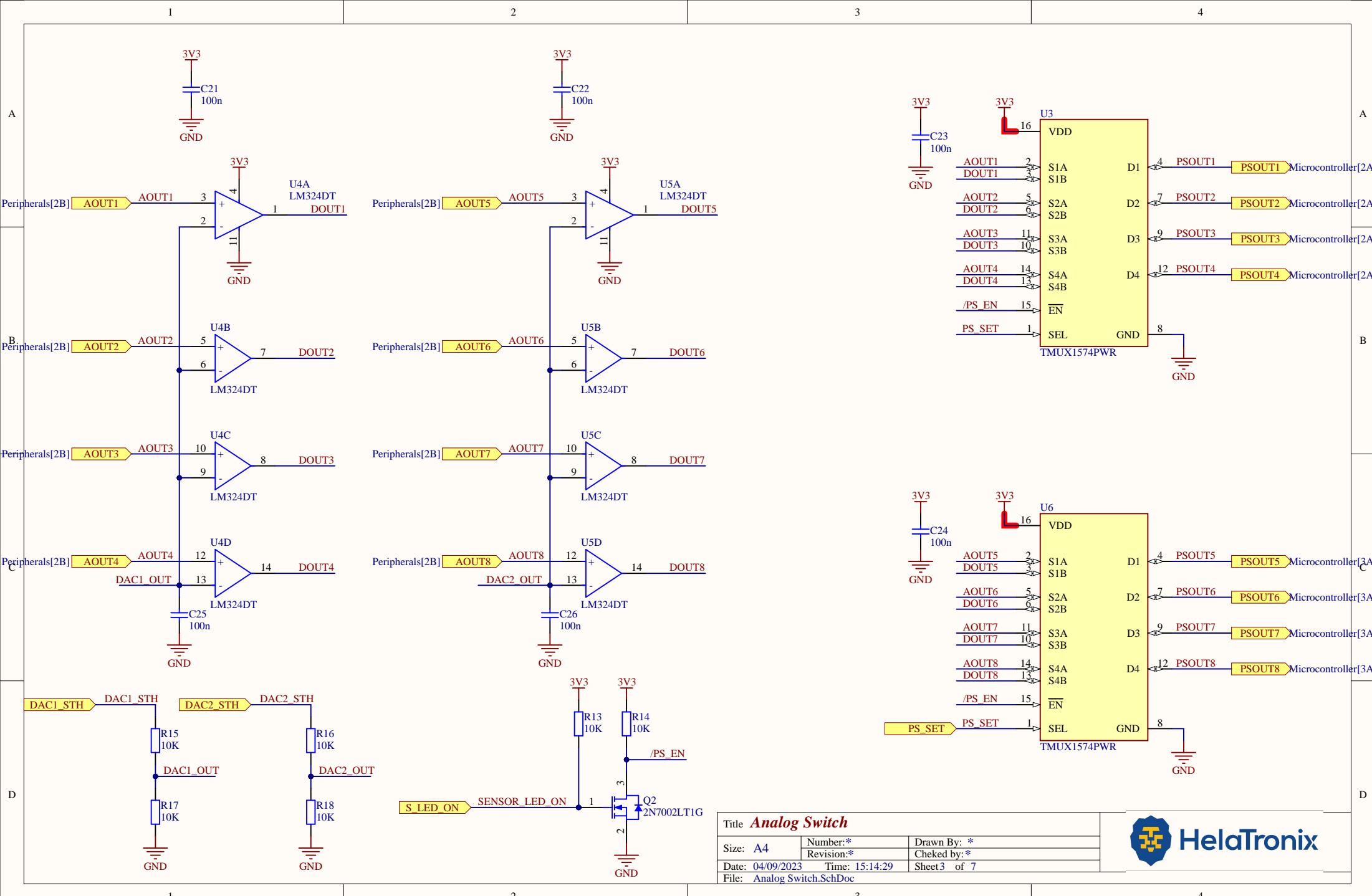
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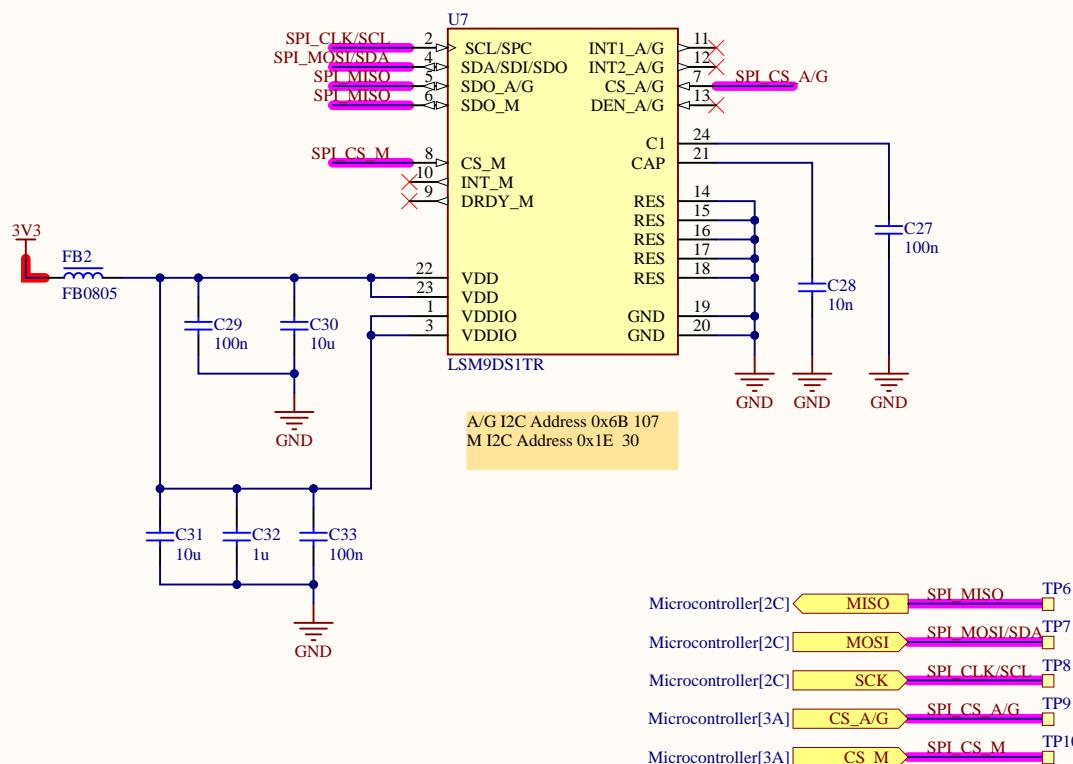
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Revision: *		Cheked by: *
Date: 04/09/2023	Time: 15:14:29	Sheet 1 of 7
File: BMS.SchDoc		

Title **DC-DC**Size: **A4** Number: * Drawn By: *

Revision: * Checked by: *

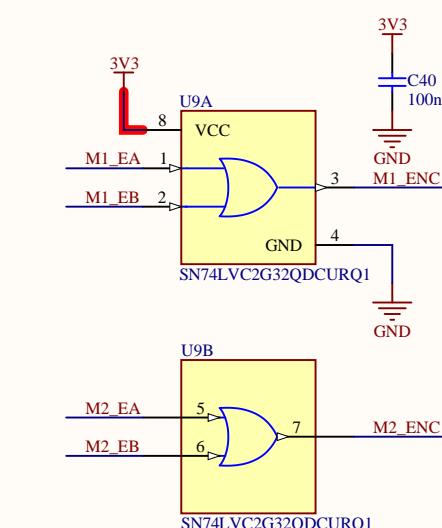
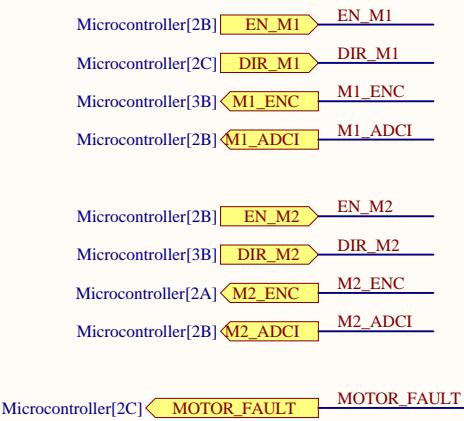
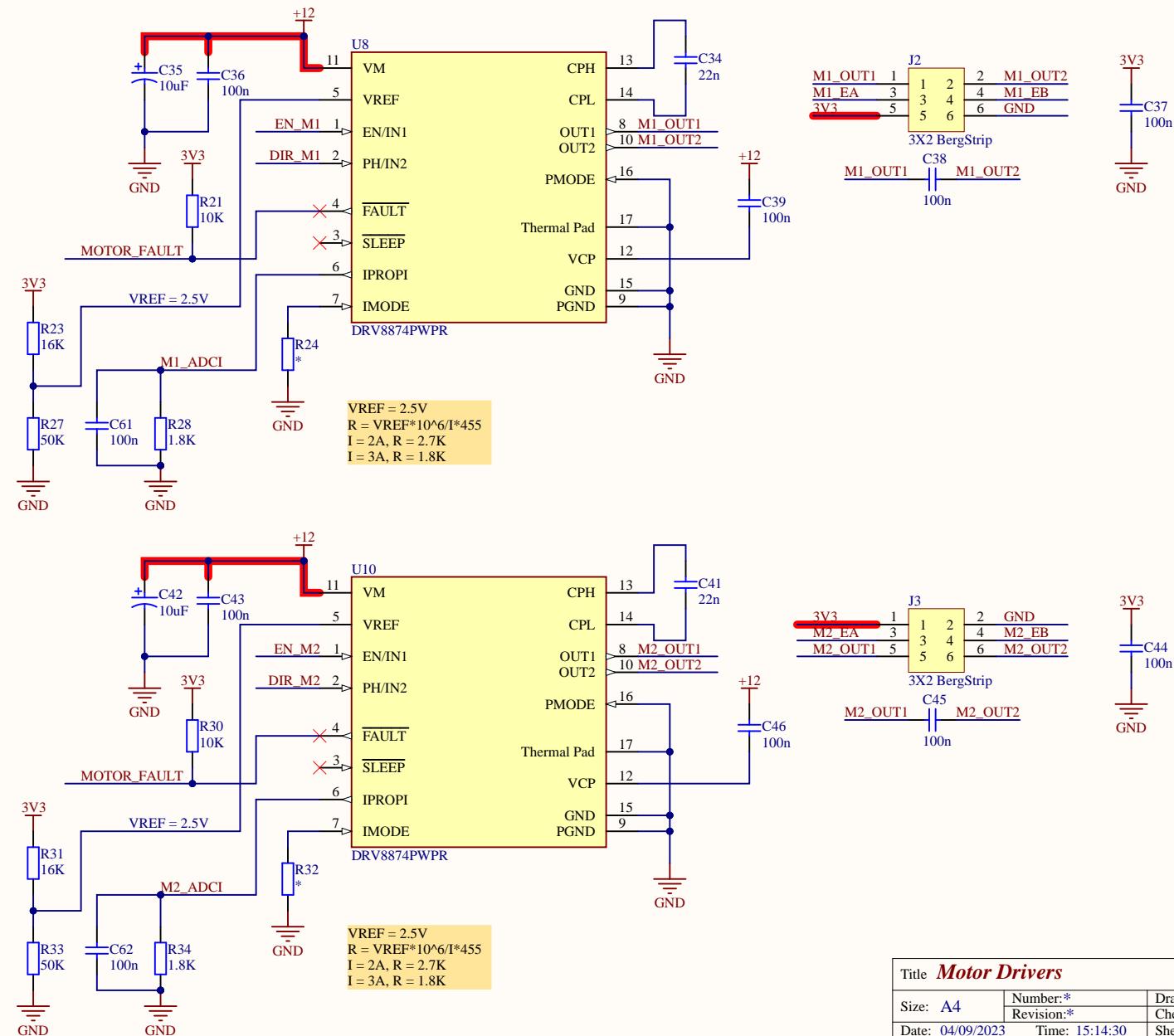
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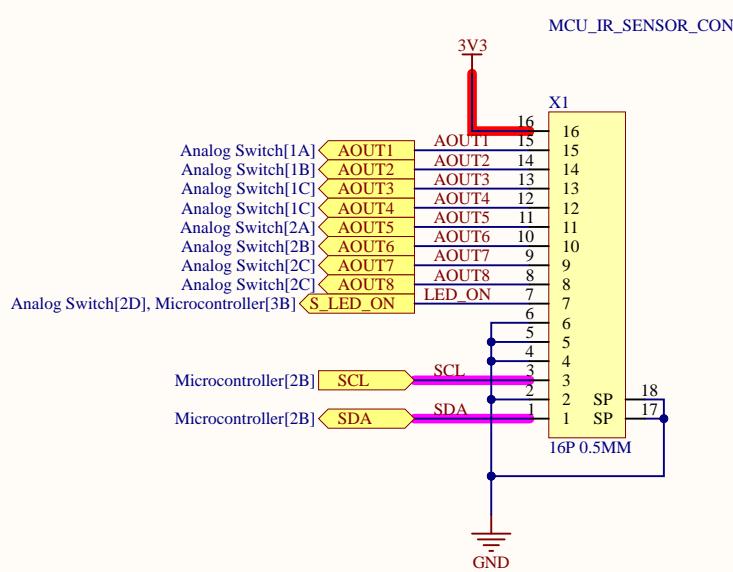
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Size: A4	Number: * Revision: *	Drawn By: * Cheked by: *
Date: 04/09/2023	Time: 15:14:30	Sheet 4 of 7
File: IMU.SchDoc		



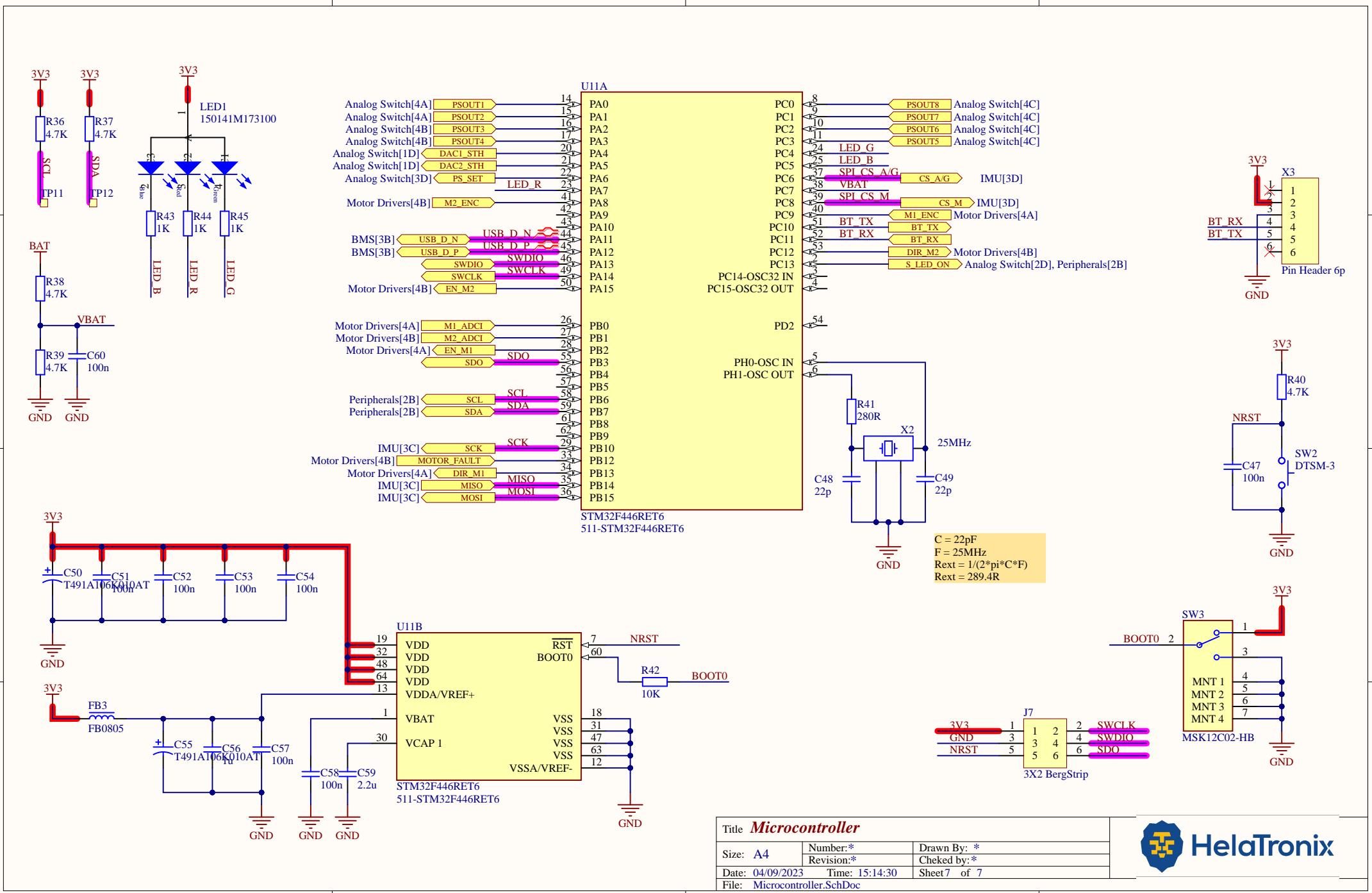


Title Motor Drivers		
Size: A4	Number:*	Drawn By: *
	Revision:*	Checked by:*
Date: 04/09/2023	Time: 15:14:30	Sheet 5 of 7
File: Motor Drivers.SchDoc		

A

Title *Peripherals*

Size: A4	Number:*	Drawn By: *
	Revision:*	Cheked by: *
Date: 04/09/2023	Time: 15:14:30	Sheet 6 of 7
File: Peripherals.SchDoc		



Comment	Description	Designator	Footprint	Value	Quantity
10uf	Aluminum Electrolytic Capacitor, UB Series, Low Impedance uf, ±20%, 100°C, Type: 4 x 5.8 mm x 1. Pb-Free, RoHS	C7, C15, C42	CAP-SMD-4X5.8	CAP_SMD_4x5.8	10
10u	Capacitor SMD 0603 uF	S2, S5, C16, CH1, C20, C31	CAP_0603	CAP_0603_1uF	8
		C3, C4, C12, C13, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C38	CAP_0603	CAP_0603_1uF	20
100n	Capacitor SMD 0603 nF	C40, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53	CAP_0603	CAP_0603_1nF	20
22u	Capacitor SMD 0603 uF	C7, C8, C9, C10	CAP_0603	CAP_0603_1uF	4
22p	Capacitor SMD 0603 pF	S11, C48, C49	CAP_0603	CAP_0603_1nV	1
22u	Capacitor SMD 0603 uF	C14	CAP_0603	CAP_0603_1uF	1
2.2u	Capacitor SMD 0603 uF	C18, C19, C20	CAP_0603	CAP_0603_1uF	1
10n	Capacitor SMD 0603 nF	C28	CAP_0603	CAP_0603_1nF	1
1u	Capacitor SMD 0603 uF	C32, C56	CAP_0603	CAP_0603_1uF	2
22n	Capacitor SMD 0603 nF	C34, C41	CAP_0603	CAP_0603_1nF	2
1491A102K010AT			CAP-TANT-3216	CAP_TANT_3216	2
GREEN	LED 0603 GREEN SMD	S1, D3	LED-0603_GREEN	LED_0603_GREEN	3
SC514-E35/7	Diode SCHOTTKY 400 mW	S2	FP-9542S-MIG	DPB-0239-00015-1	1
U9S6LZC-250C	low-Drop-Switch Protection USB	S4	S91-25-6	OBIGC-00001-6	1
	LED 0603 RED SMD	S6	LED-0603_RED	LED_0603_RED	1
F8085	Opamp LM358N 100MHz	F81, F82, F83	FB_0805	FB_0805	3
	LM358 Type-C Connector Horizontal SMT		TYPE-C-S1-M12	TYPE-C-S1-M12	1
3.2K Bergstrip	4Pins, 2.8x2.54mm Htch, Straight headers	J2, J3, J7	CONE_100_9007103 ST_Duplicate	CNS-B-PLG_3X2_100 STH	3
B2B-XH(AJ)FN	CONN HEADER VWR SPOS 2.5MM	S5, J6	YB-B2B-XH-AJ_SF_SN MIG	CON-B2B-XH	2
	Inductor Power Jewell Coiled 2.2uH 20% TMR Female 1.7A 0.10mm0g DCR 1272	S1	INDP030312N	VLS3012E-1262M	1
4.7uH	Fixed Ind 4.7uH 4.3 uHs 5.0A	S2	MV54040025	MV54040025-481M	1
MV5404025	Inductor Surface Mount SMD	S4	MV5404025	MV5404025	1
	Conductor Fall-Cap Top				
101514T173100	LED, WL-3V3T, Red 101514T173100	RED	101514T173100	101514T173100-1	1
	Shuntbias 1-cell 17 V, 3.0 A Battary Monitoring, Delta thermometer monitoring 16-WQIN 401616	S1	WQINP00030008 0_H5-17N	WQINP00030008	1
BC25030URTER	Transistor NPN 100V, 100mA, N- Channel, 3-Pin SO- 8, Pb-Free, Tape and Reel	S2	BC25030URTER	BC25030URTER	1
BN7002LT1G	Transistor MOSFET, 60V, 150mA, N- Channel, 3-Pin SO- 8, Pb-Free, Tape and Reel	S2	BN7002LT1G	BN7002LT1G	1
A004195	Trans MOSFET P-CH AV 40A 5Pin(1x2+3x) SO-8	S3	INF-PG-T0252-3- 11_N	A004195	1
1K	Resistor SMD 0402 100K	R1, R2, R9, R43, R44	RES-0402	RES_0402	1
10K	Resistor SMD 0402 10K	R5, R6, R7, R8	RES-0402	RES_0402	1
10K	Resistor SMD 0402	R4	RES-0402	RES_0402	1
10K	Resistor SMD 0402	R5	RES-0402	RES_0402	1
1.2K	Resistor SMD 0402	R7	RES-0402	RES_0402	1
2.4K	Resistor SMD 0402	R8	RES-0402	RES_0402	1
2K	Resistor SMD 0402	R10	RES-0402	RES_0402	1
2.4K	Resistor SMD 0402	R11	RES-0402	RES_0402	1
10K	Resistor SMD 0402	R11, R15, R16, R17, R18, R21, R30	RES-0402	RES_0402	9
10K	Resistor SMD 0402	R20	RES-0402	RES_0402	1
14K	Resistor SMD 0402	R20, R31	RES-0402	RES_0402	2
10K	Resistor SMD 0402	R24, R32	RES-0402	RES_0402	2
10K	Resistor SMD 0402	R25, R33	RES-0402	RES_0402	2
10K	Resistor SMD 0402	R26, R34	RES-0402	RES_0402	2
1.8K	Resistor SMD 0402	R28, R34	RES-0402	RES_0402	2
4.7K	Resistor SMD 0402	R35	RES-0402	RES_0402	1
2.4K	Resistor SMD 0402	R36, R37, R38, R39	RES-0402	RES_0402	5
280K	Resistor SMD 0402	R41	RES-0402	RES_0402	1
SB	Resistor SMD 0402	S8, S9, S10, S11, S12, S13, S14, S15	RES-0402	RES_0402	1
MSK1202H-B	SWITCH-IC 2PDT VMAX 12VDC	SW1, SW2	MSK1202C4B	MSK1202H-B	2
	Switch/Switch-IC Module	SW2	DSIM-2	DSIM-2	1
DSIM-2					
	Resonator Vibration Detector				
	Step-Up Current Mode PVM Controller	U1	DR0010_U_V	IP580010URCR	1
TP580010URCR	Power IC Reg., To Pin S000 (DRC), Green (Refl to S0-B)	U1	TP580010_U_V	TP580010URCR	1
TPA2908-G1	Opamp Module: 2.142 Amp	U2	SOP12P000175_H5 WIFI	SOP12P000175_H5	1
TMUX1517PW	Video Switch Quad 14TS200	U3	TSSOP_FW-PW00014- IPC_B	TMUX1517	2
UD5240DT	IC OPAMP GP 4 Pins, 1.8V, 100uA and Best	U4	PD-S4-14-IPC_B	UD5240DT	2
	MEM Trans Module: 3D Accelerometer, 3D Gyro, 3D Magnetometer, 1.9 deg., 3.4V, 40 uA and Best	U7	STMA16A 24_350K30001000	LSM5510TR	1
DR80874WMPR	Driver IC Motor Driver	U8	DR80874WMPR	DR80874WMPR	2
UNIV4V2GZGDC02UR	Driver IC 2.142A-2.142B VNSOP	U9	FR-DC00004A-IPC_B	UNIV4V2GZGDC02UR	1
STM32F446RE76	ARM Cortex®-M4 Microcontroller IC 32 bit 180MHz 512KB D12 x 8 FLASH+4 SRAM	U11	FP-LQFP48-5W-IPC_B	STM32F446RE76	1
14P 0.5MM	FPC-to-Connector, Rectangular, Number of Pairs: Horizontal Rate: Horizontal Vertical Dimensions: 0.5mm	U1	CONN12x1_H345R 165-0.554930	CONN14_FFC_0.5	1
X1A_3225	Capacitor Ceramic	U2	X1A_3225	X1A_3225	1
	Resistor AC, Straight, 100Ω, 2.2mm Total Len, No 100° Tin, Pins Braze, 0.5°C	U3	CON_PHL_d4	CON_PHL_d4	1
Pin Header 4p					