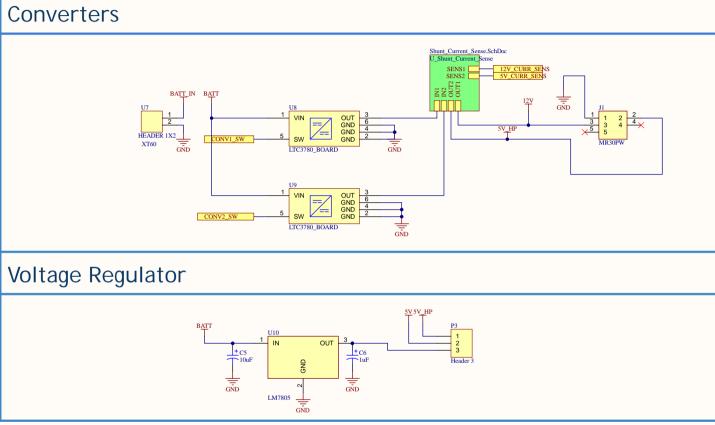
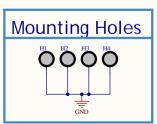
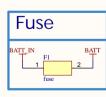


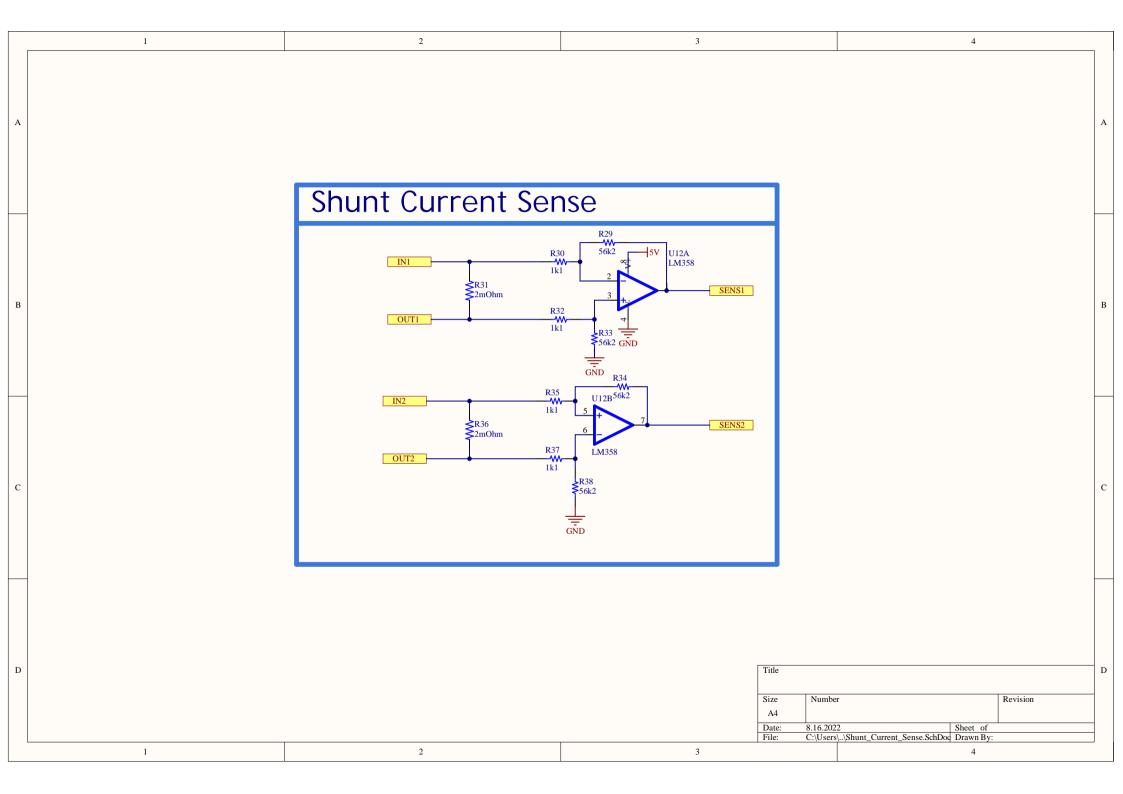
## **POWER**

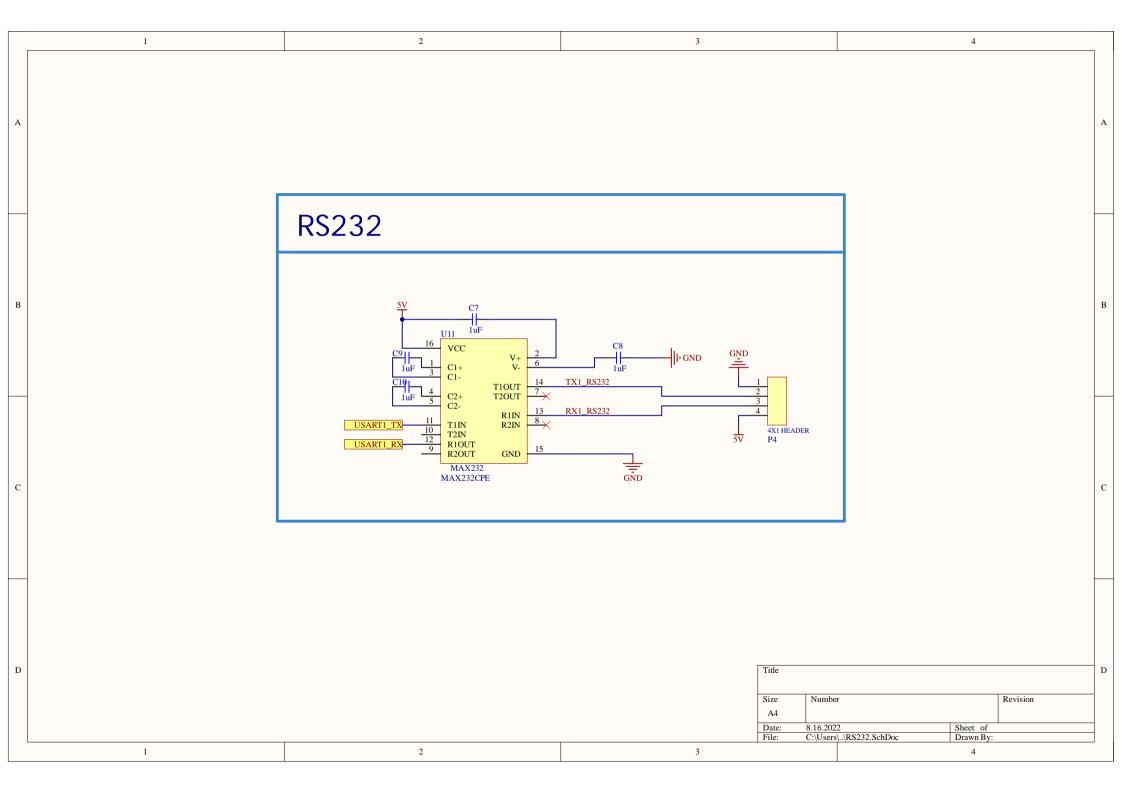


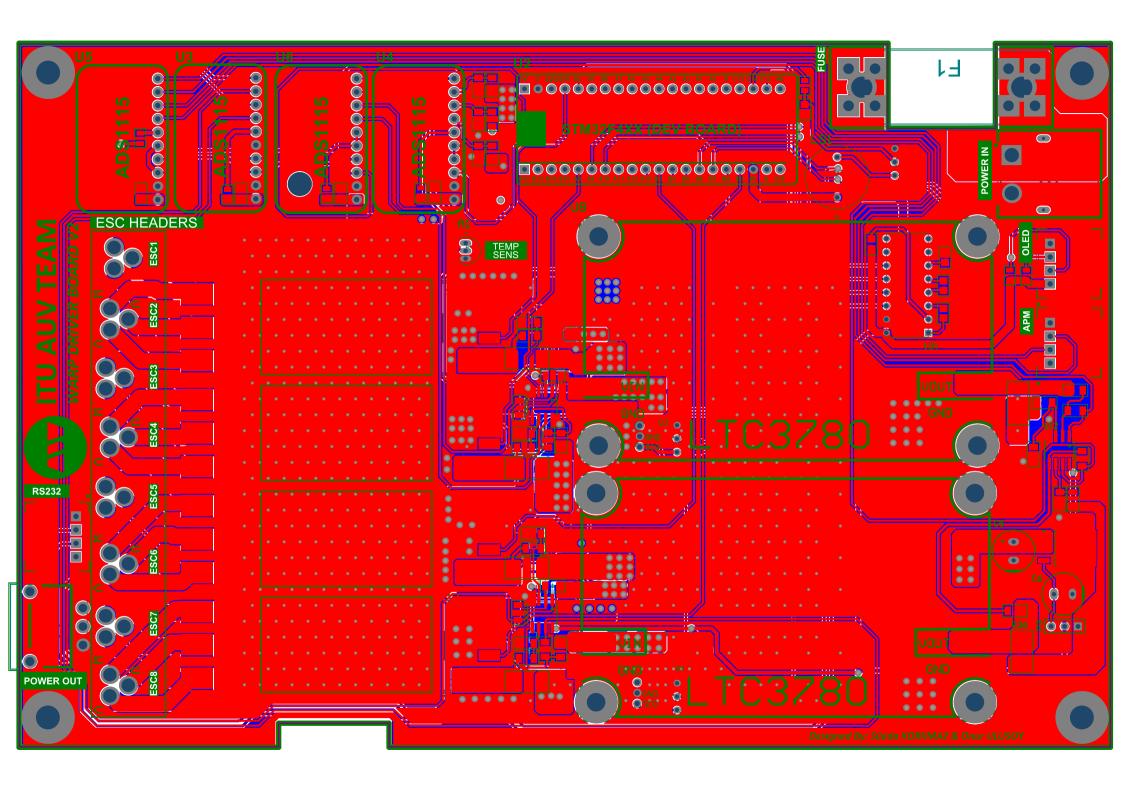




Title			
Size A3	Number		Revision
Date: File:	8.16.2022 C:\Users\\POWER.SchDoc	Sheet of Drawn By:	







Comment	Description	Designator	Footprint	LibRef	Quantity
LM35DZ/NOPB CAP CER 1UF 25V X7R	Cap Ceramic 1uF 25V	A1 C1, C2, C3, C4, C7, C8,	TO92127P521H735-3	LM35DZ/NOPB	
0805	X7R 5% SMD 0805 125C Plastic T/R	C1, C2, C3, C4, C7, C8, C9, C10	C0805C105J3RAC7800 CAP TH ALUM ELEC	C0805C105J3RAC7800	
10uF	CAP ALUM 33UF 20% 35V RADIAL	C5	D8.00mm S3.50mm H12.50mm	UVP1V330MPD	
1uF	CAP ALUM 33UF 20% 35V RADIAL	C6	CAP TH ALUM ELEC D8.00mm S3.50mm H12.50mm	UVP1V330MPD	
	40V, bi-directional,	ESC1_U_WARP_ESC1, ESC1_U_WARP_ESC2,			
	high-precision current	CO22 GGA/M II M/ADD ECC2			
Basic ESC	sense amplifier w/ picoamp IB & ENABLE	ESC1_U_WARP_ESC4, ESC2_U_WARP_ESC1,	BLUE ESC TOP	Basic ESC	
	8-SOT-23-THIN -40 to	ESC2_U_WARP_ESC2,			
	125	ESC2_U_WARP_ESC3, ESC2_U_WARP_ESC4			
		ESC_HEADER1_U_WA RP_ESC1,		MT-30 M	
		ESC_HEADER1_U_WA			
		RP_ESC2, ESC_HEADER1_U_WA			
		RP_ESC3,			
		ESC_HEADER1_U_WA RP_ESC4.			
MT-30 M		ESC_HEADER2_U_WA	MT30-M		
		RP_ESC1, ESC_HEADER2_U_WA			
		RP_ESC2, ESC_HEADER2_U_WA			
	RP_ESC3,				
		ESC_HEADER2_U_WA RP_ESC4			
fuse		F1	fuse	fuse	
Mounting Holes MR30PW	Connector	H1, H2, H3, H4 J1	Mounting Holes MRP30PW	Mounting Holes MR30PW	
buzzer	Wire-to Board	LS1	BUZZER	buzzer	
WIRE-TO BOARD	Header, 2.5MM, 4 C,	P1. P2. P4	51125-04-0200-01	51125-04-0200-01	
HEADER, 2.5MM, 4 C	Battery Power Module Input.				
Header 3	WARP 5V Logic Selector Switch	P3	HDR1X3	Header 3	
2N7000	MOSFET N-CH 60V	Q1, Q2, Q3	2N7000	2N7000	
2147000	350MA TO-92	R1 U WARP ESC1.	2147000	2117000	
		R1_U_WARP_ESC2,			
		R1_U_WARP_ESC3, R1_U_WARP_ESC4,			
	RES 0.1 OHM 1% 1/2W 1206	R5_U_WARP_ESC1, R5_U_WARP_ESC2,		RL1206FR-7W0R1L	
		R5_U_WARP_ESC3,			
56k2		R5_U_WARP_ESC4, R6_U_WARP_ESC1,	RES 1206_3216		20
Junz		R6_U_WARP_ESC2,	NES 1200_0210		
		R6_U_WARP_ESC3, R6_U_WARP_ESC4,			
		R10_U_WARP_ESC1, R10_U_WARP_ESC2,			
		R10_U_WARP_ESC3,			
		R10_U_WARP_ESC4, R29, R33, R34, R38			
		R2_U_WARP_ESC1, R2_U_WARP_ESC2,			
		R2_U_WARP_ESC3,			
		R2_U_WARP_ESC4, R4_U_WARP_ESC1,			
		R4_U_WARP_ESC2,			
	RES 0.1 OHM 1%	R4_U_WARP_ESC3, R4_U_WARP_ESC4,			
1k1	1/2W 1206	R7_U_WARP_ESC1, R7_U_WARP_ESC2,	RES 1206_3216	RL1206FR-7W0R1L	2
		R7_U_WARP_ESC3,			
		R7_U_WARP_ESC4, R9_U_WARP_ESC1,			
		R9_U_WARP_ESC2, R9_U_WARP_ESC3,			
		R9_U_WARP_ESC4,			
		R30, R32, R35, R37 R3_U_WARP_ESC1,			
		R3_U_WARP_ESC2, R3_U_WARP_ESC3,			
		R3_U_WARP_ESC4,		L .	
2mOhm	TL3A R002 1% 2K RL	R8_U_WARP_ESC1, R8_U_WARP_ESC2,	Shunt	Shunt	10
		R8_U_WARP_ESC3,			
		R8_U_WARP_ESC4, R31, R36			
DEC 2 OF OUR 12	2.2 kOhms ±1% 0.125W, 1/8W Chip	R11, R12, R13, R14,			
RES 2.2K OHM 1% 1/8W 0805		R15, R16, R18, R20, R28	RC0805FR-072K2L	RC0805FR-072K2L	
	Resistant Thick Film				
RES 10K OHM 1%	Res Thick Film 2.0 x 1.2 mm 10K Ohm 1%				
RES 10K OHM 1% 1/8W 0805	0.125W(1/8W) 100ppm/ C Molded	R17, R19, R27	RC0805FR-1310KL	RC0805FR-1310KL	
	SMD Paper T/R				
10k	RES 0.1 OHM 1% 1/2W 1206	R21, R22, R23	RES 1206_3216	RL1206FR-7W0R1L	
2k	RES 0.1 OHM 1% 1/2W 1206	R24, R25, R26	RES 1206_3216	RL1206FR-7W0R1L	
		U1_U_WARP_ESC1,			
LM358		U1_U_WARP_ESC2, U1_U_WARP_ESC3,	LM358	LM358	
		U1_U_WARP_ESC4,			
STM32F401CCU6		U12 U2	STM32F401CCU6	STM32F401CCU6	
ADS1115 HEADER 2X1		U3, U4, U5, U6 U7	ADS1115 XT60PW-M	ADS1115 XT60PW-M	
LTC3780_BOARD		U8, U9	LTC3780_BOARD	LTC3780_BOARD	
LM7805	MAX232 Series 120	U10	Im7805 smd	LM7805	
MAX232CPE	kbps 5.5 V Through Hole RS-232	U11	MAX232CPE	MAX232CPE	