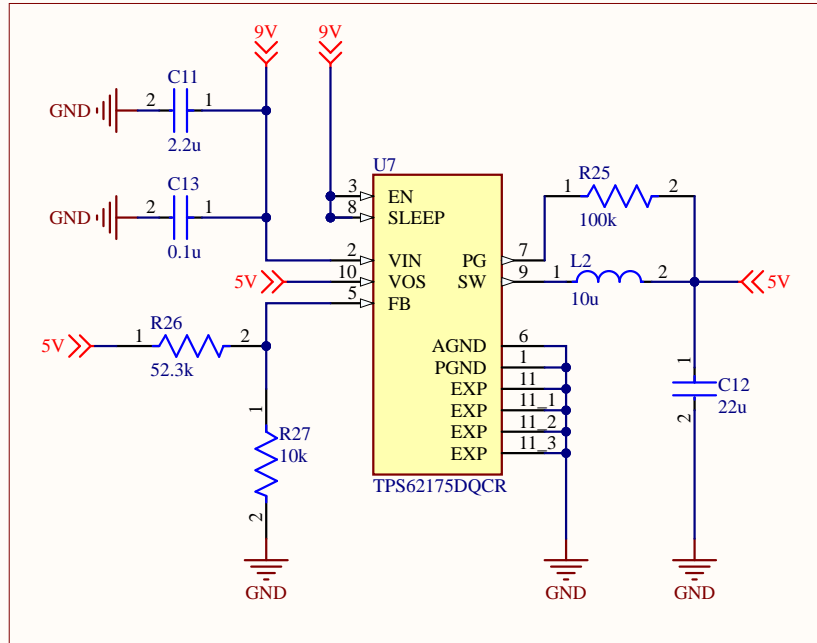
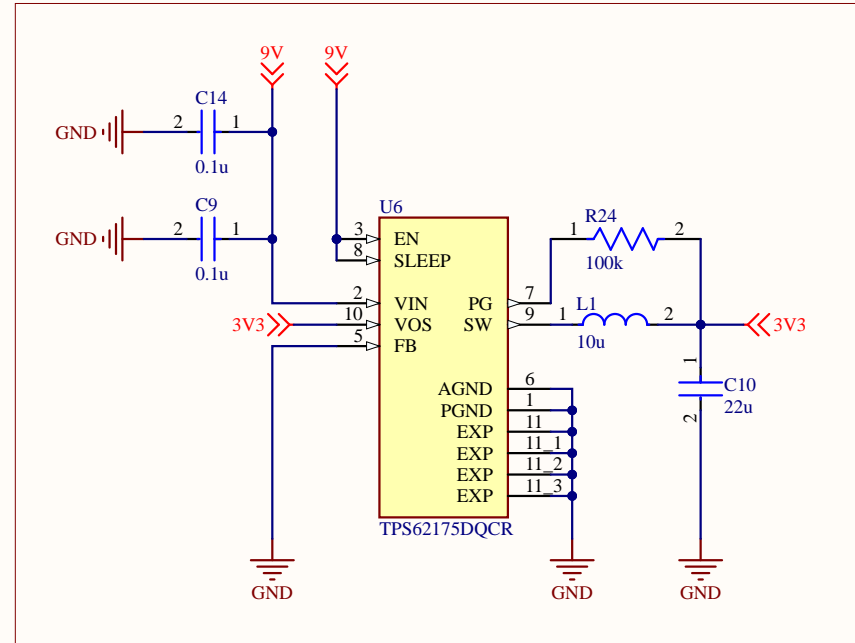


Title			
Connectors			
Size	Number	Revision	
A	ECE1895	0	
Date:	10/30/2025	Sheet 2 of	3
File:	C:\Users\...\Connectors.SchDoc	Drawn By:	Nicholas Starace

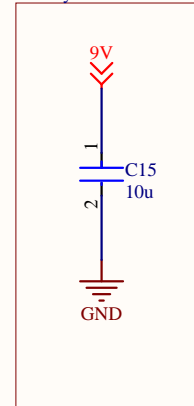
9V to 5V



9V to 3.3V



Battery Filter



Title		
Power		
Size	Number	Revision
A	ECE1895	0
Date:	10/30/2025	Sheet 3 of 3
File:	C:\Users\...\Power.SchDoc	Drawn By: Nicholas Starace

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1u	CAP CER 2.2UF 100V X7T0805	C2, C6, C7, C9, C13, C14	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	6
1u	CAP CER 2.2UF 100V X7T0805	C3	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	1
12p	CAP CER 2.2UF 100V X7T0805	C4, C5	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	2
22u	CAP CER 2.2UF 100V X7T0805	C10, C12	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	2
2.2u	CAP CER 2.2UF 100V X7T0805	C11	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	1
10u	CAP CER 2.2UF 100V X7T0805	C15	FP-GRM21B-0.2- e0.2.0.7-IPC_B	CMP-06035-063309-1	1
	FERRITE BEAD 1 KOHM0805 1LN	FB1, FB2	FP-BMB2A1000LN2- IPC_C	CMP-03232-000001-1	2
TSW-105-22-G-S-RA	Conn Unshrouded Header HDR5 POS 2.54mm Solder RA Side Entry Thru-Hole Bulk	J1	SAMTEC_TSW-105-22- G-S-RA	TSW-105-22-G-S-RA	1
TSW-104-22-G-S-RA		J2, J3, J5	SAMTEC_TSW-104-22- G-S-RA	TSW-104-22-G-S-RA	3
TSW-102-22-G-S-RA		J4, J7	SAMTEC_TSW-102-22- G-S-RA	TSW-102-22-G-S-RA	2
MSD-4-A	Micro SD Card Connector, 9 Positions, Connector and Ejector, Push In, Auto Eject Out, Surface Mount, 1.8 mm Height Above Board, Gold Flash	J6	CUI_MSD-4-A	MSD-4-A	1
10u	LQM21DN330M70L Multilayer Inductor, 33 uH, 2.99 ohm, 16 MHz, 200 mA, 0805 [2012 Metric], LQM	L1, L2	FP-LQM21DN_70-MFG	CMP-00260- 111578617-1	2
10k	RES Thin Film, 499kΩ, 0.1%, 0.125W, 25ppm/C, 0805	R1, R5, R6, R7, R8	FP-TFCR0805-IPC_B	CMP-250906-214896- 1	5
100k	RES Thin Film, 499kΩ, 0.1%, 0.125W, 25ppm/C, 0805	R2	FP-TFCR0805-IPC_B	CMP-250906-214896- 1	1
2.2k	RES Thin Film, 499kΩ, 0.1%, 0.125W, 25ppm/C, 0805	R3, R4	FP-TFCR0805-IPC_B	CMP-250906-214896- 1	2
1M	RES Thin Film, 499kΩ, 0.1%, 0.125W, 25ppm/C, 0805	R9	FP-TFCR0805-IPC_B	CMP-250906-214896- 1	1
200	RES Thin Film, 1.72kΩ, 1%, 0.125W, 25ppm/C, 0805	R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23	FP-TFCR0805-MFG	CMP-250906-142014- 1	14
100k	RES Thin Film, 1.72kΩ, 1%, 0.125W, 25ppm/C, 0805	R24, R25	FP-TFCR0805-MFG	CMP-250906-142014- 1	2
52.3k	RES Thin Film, 1.72kΩ, 1%, 0.125W, 25ppm/C, 0805	R26	FP-TFCR0805-MFG	CMP-250906-142014- 1	1
10k	RES Thin Film, 1.72kΩ, 1%, 0.125W, 25ppm/C, 0805	R27	FP-TFCR0805-MFG	CMP-250906-142014- 1	1
51k	RES Thin Film, 499kΩ, 0.1%, 0.125W, 25ppm/C, 0805	R28, R29, R30	FP-TFCR0805-IPC_B	CMP-250906-214896- 1	3
ESP32-S3-WROOM-1- N8R8	Bluetooth, WiFi 802.11b/g/n, Bluetooth v5.0 Transceiver Module 2.4GHz PCB Trace Surface Mount	U1	XCVR_ESP32S3WROOM- M1N8R8	ESP32-S3-WROOM-1- N8R8	1
BMI270	Accelerometer, Gyroscope, 6 Axis Sensor I2C, SPI Output	U2	XDCR_BMI270	BMI270	1
MAX98357AETE+T	Tiny, Low-Cost, PCM Class D Amplifier with Class AB Performance	U3	QFN50P300X300X80- 17N	MAX98357AETE+T	1
SN74LS47N	Decoder/Driver Single 4-to-7 16-Pin PDIP Tube	U4, U5	SOIC127P600X175- 16N	SN74LS47N	2
TPS62175DQCR	28V, 0.5A Step-Down Converter with SNOOZE Mode 10- WSON -40 to 85	U6, U7	SON50P300X200X80- 11N240X84	TPS62175DQCR	2
LDSC512RI	.56IN. 7 SEGMENT SINGLE DISPLAY, 565NM GREEN, GRAY FACE, WHITE SEGMENTS, COMMON Lumex LDSC512RI	U8, U9	LED_LDSC512RI	LDSC512RI	2
32.768k	32.768 kHz ±20ppm Crystal 12.5pF 70 kOhms 2-SMD, No Lead	Y1	XTAL_ABS07- 32.768KHZ-T	ABS07-32.768KHZ-T	1