OBC_mini

Title		
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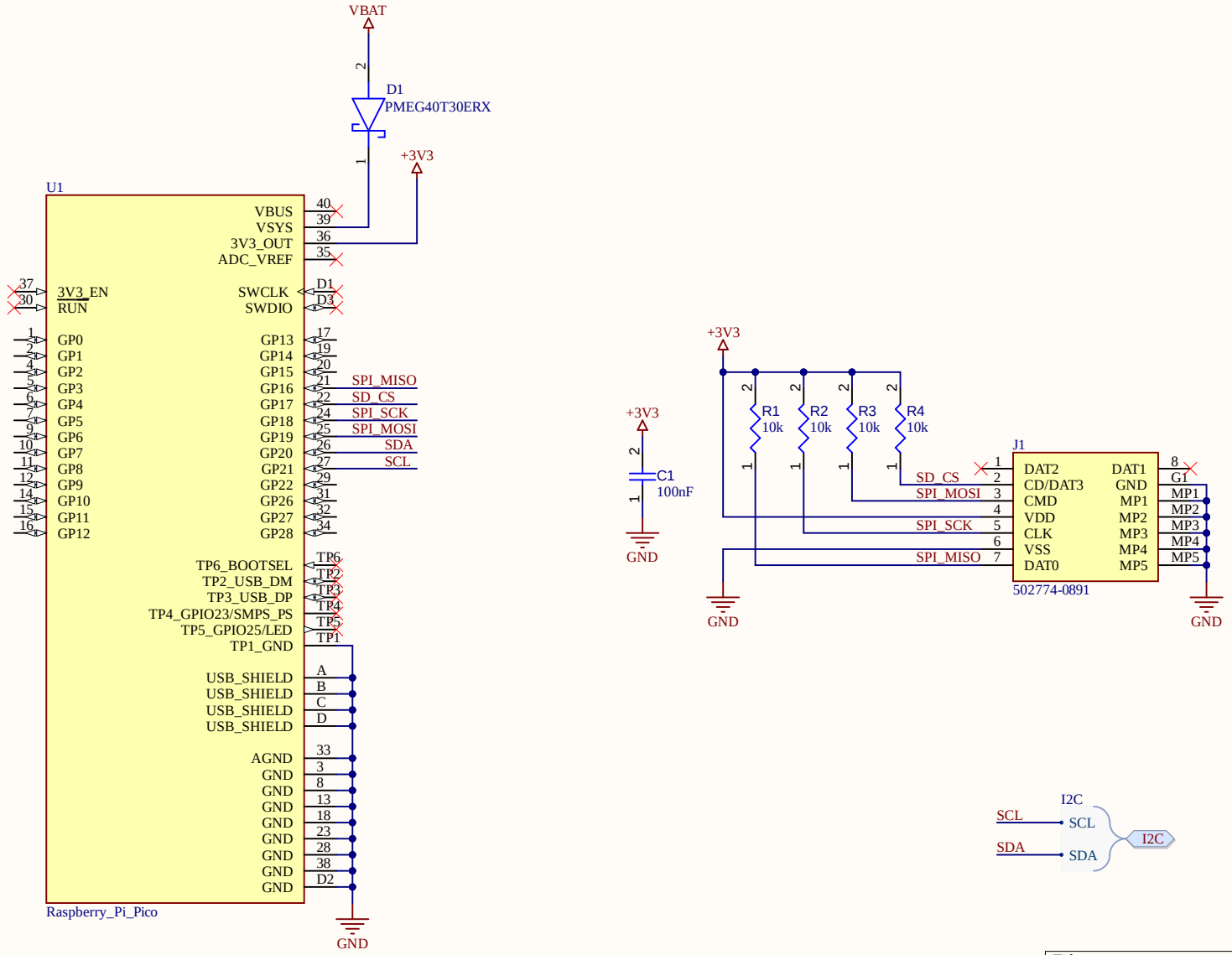
Date: 11.02.2023		Sheet of
File: C:\Users\..\Main_Board.SchDoc		Drawn By:



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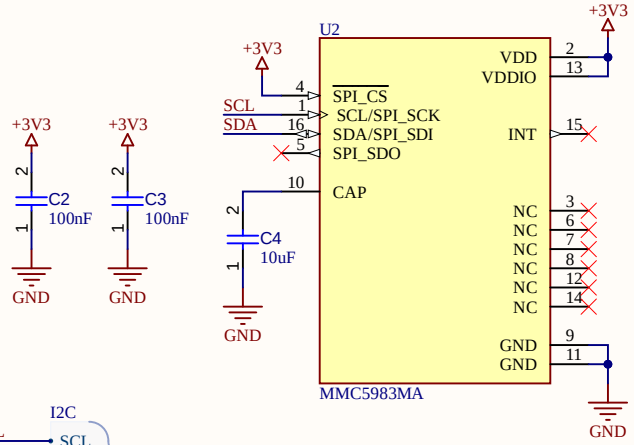
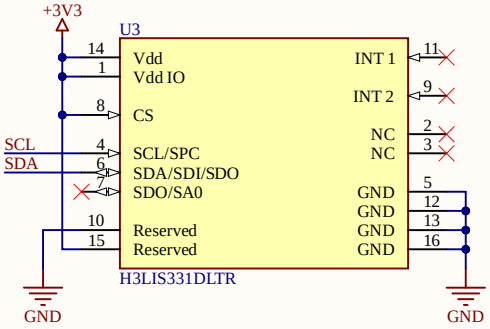
Size: A4	Number	Revision
Date: 11.02.2023		Sheet of
File: C:\Users\..\Sheet1.SchDoc		Drawn By:

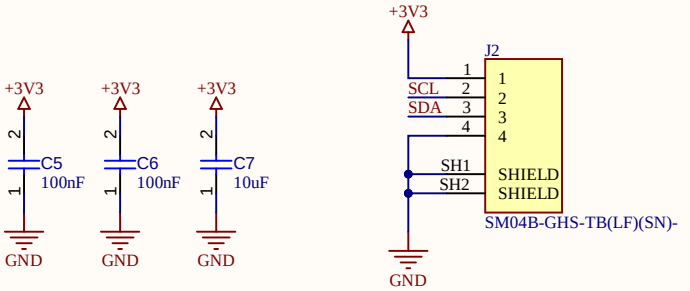
MAGNETOMETER



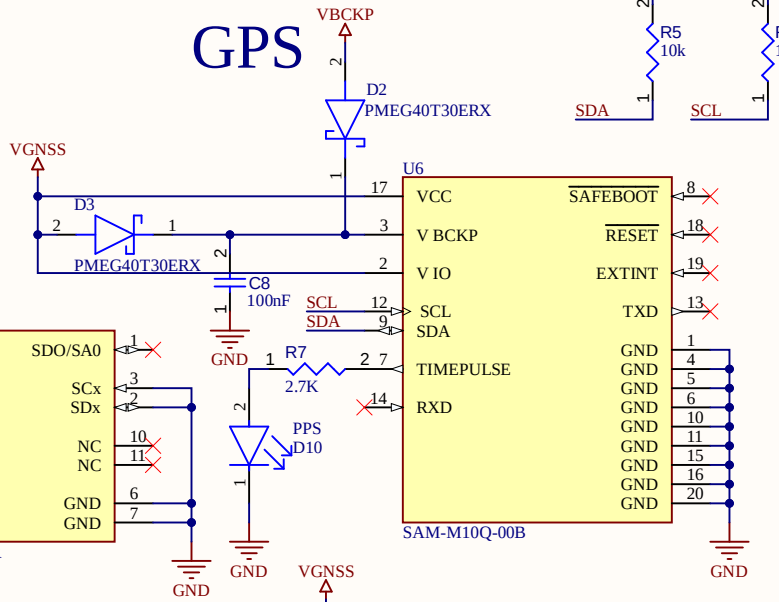
ACCELEROMETER



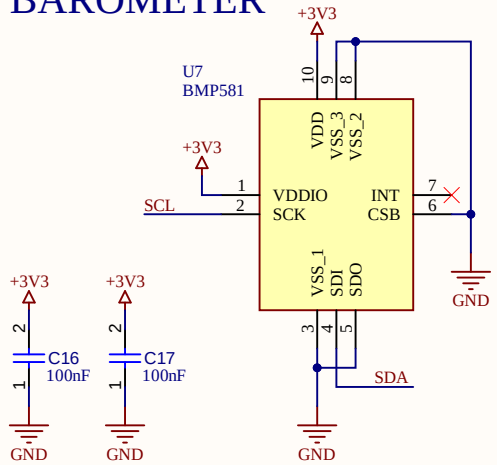
DATA



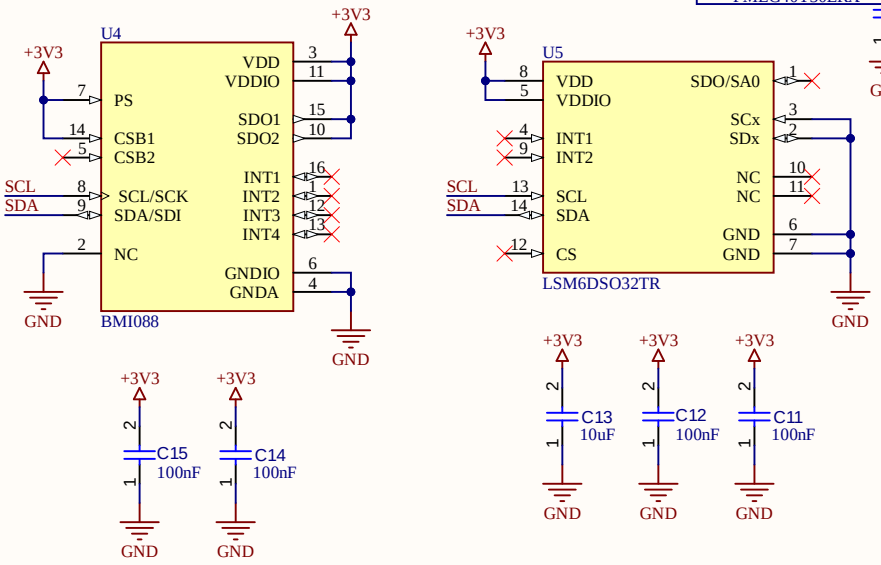
GPS



BAROMETER



IMUs



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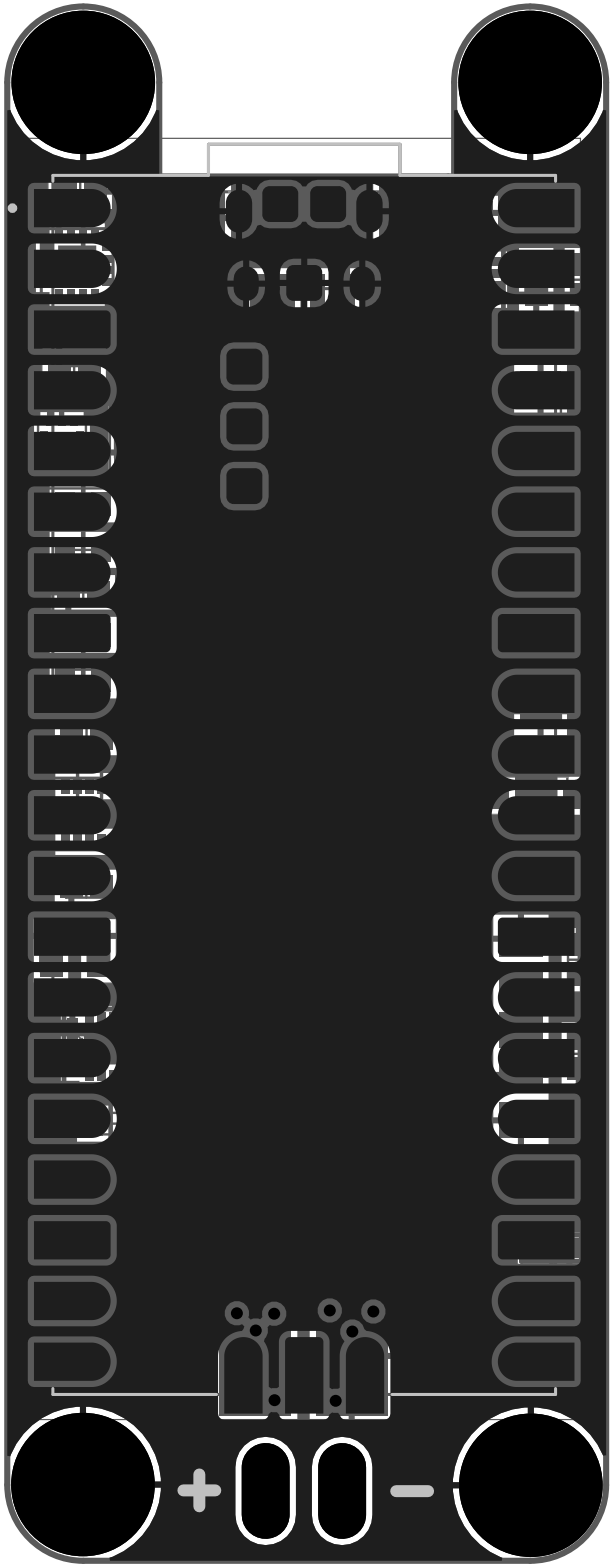
Size A4	Number	Revision
Date: 11.02.2023		Sheet of
File: C:\Users\..\Sheet2.SchDoc		Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor 100 nF +/- 10% 50 V 0603	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0603 (1608 Metric)	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17	CAPC1608X90X40NL10T20	CMP-001-00017-6	17
PMEG40T30ERX	Schottky Diode	D1, D2, D3	SODFL3517X110N	PMEG60T30ELRX	3
BLM18TG601TN1D	Ferrite Bead	FB1	BLM18EG101TH1D	BLM18TG601TN1D	1
502774-0891	Connector	J1	5027740891	502774-0891	1
SM04B-GHS-TB(LF)(SN)-	Connector Header Surface Mount, Right Angle 4 position 0.049 _1.25mm_	J2	JST_SM04B-GHS-TB(LF)(SN)-	CMP-002-00087-1	1
D10	LED BLUE CLEAR CHIP SMD	PPS	FP-LTST-C191TBKT-MFG	CMP-22017-000008-1	1
Resistor 10k +/-1% 0603 100 mW	Chip Resistor, 10 KOhm, +/- 1%, 01 W, -55 to 155 degC, 0603 (1608 Metric)	R1, R2, R3, R4, R5, R6, R7	RESC1608X55X25ML10T15	CMP-009-00017-5	7
Raspberry_Pi_Pico	RP2040 Raspberry Pi Pico series ARMÂ® CortexÂ®-M0+ MCU 32-Bit Embedded Evaluation Board	U1	MODULE_SC0915	CMP-090-000000-1	1
MMC5983MA	MMC5983 series Magnetic, Magnetometer Sensor Evaluation Board	U2	PQFN50P300X300X100-16N	MMC5983MA	1
H3LIS331DLTR	ACCEL 100-400G I2C/SPI 16TFLGA	U3	FP-TFLGA16-7983231-MFG	CMP-12175-000002-1	1
BMI088	High-performance 6-axis inertial sensor (accelerometer + gyroscope) <a href="https://pricing.snapeda.com/parts/BMI088/Bosch%20Sensortec/view-part?ref=eda">Check prices</a>	U4	PQFN50P450X300X100-16N	BMI088	1
LSM6DSO32TR	INEMO INERTIAL MODULE: 3D ACCELE	U5	FP-LGA-14L-DM00249496-MFG	CMP-12177-000015-1	1
SAM-M10Q-00B	M10 GNSS LGA PATCH ANTENNA MOD	U6	FP-SAM-M10Q-00B-MFG	CMP-207130-000027-1	1
BMP581	Undefined or Miscellaneous	U7	BMP581	BMP581	1