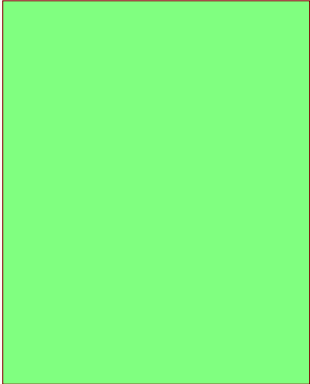
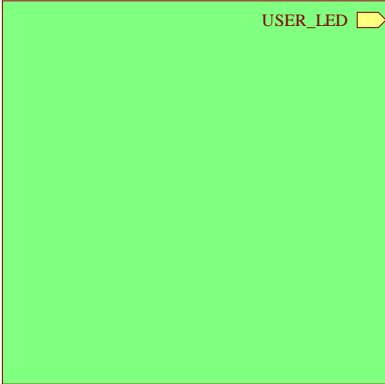


U_Power
Power.SchDoc



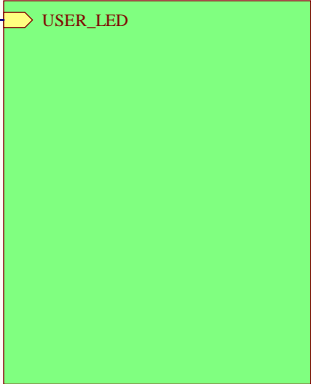
U_STM32WB55
STM32WB55.SchDoc



USER_LED



U_IO
IO.SchDoc



USER_LED

Title HB+SPO2 / Top		
Size: A4	Number: 1	Revision: 1b
Date: 4/27/2021	Time: 8:33:56 PM	Sheet 1 of 4
File: C:\Users\Public\Documents\Altium\Projects\PE2\TOP.SchDoc		



A

A

B

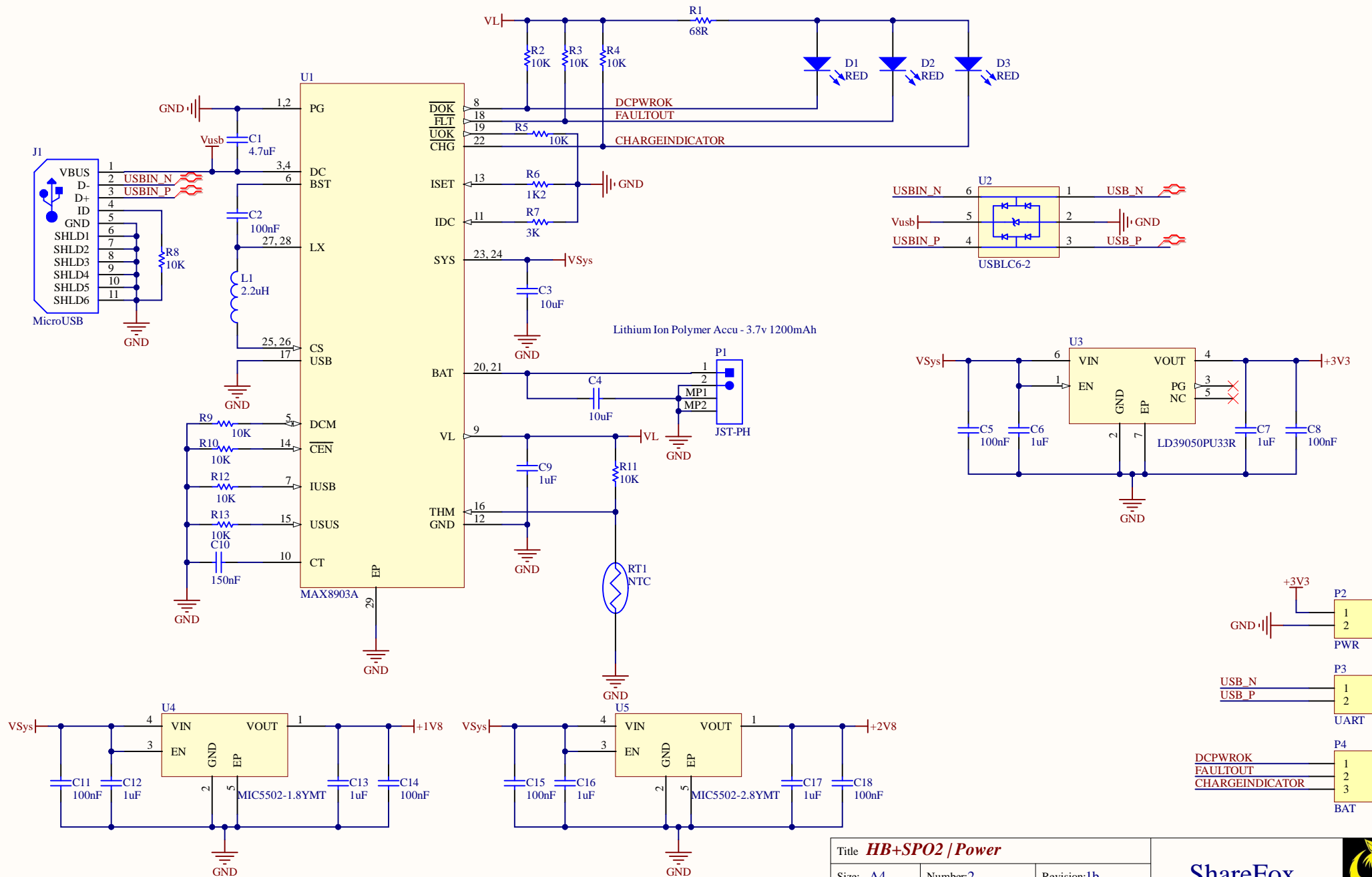
B

C

C

D

D

Title **HB+SPO2 / Power**

Size: A4

Number: 2

Revision: 1b

Date: 4/27/2021

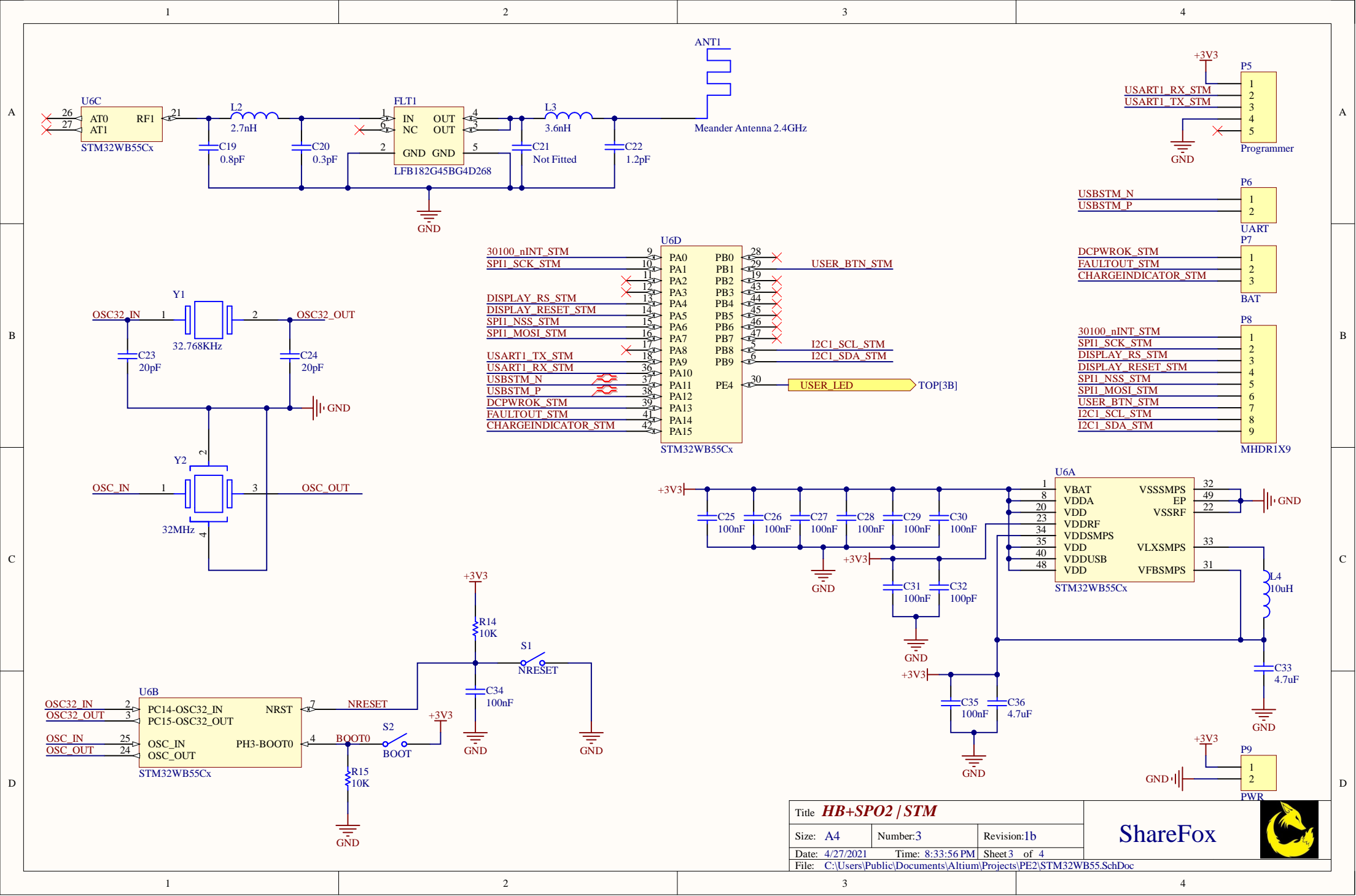
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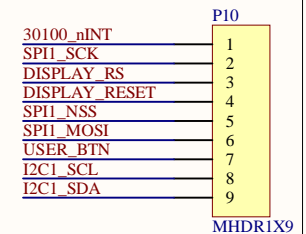
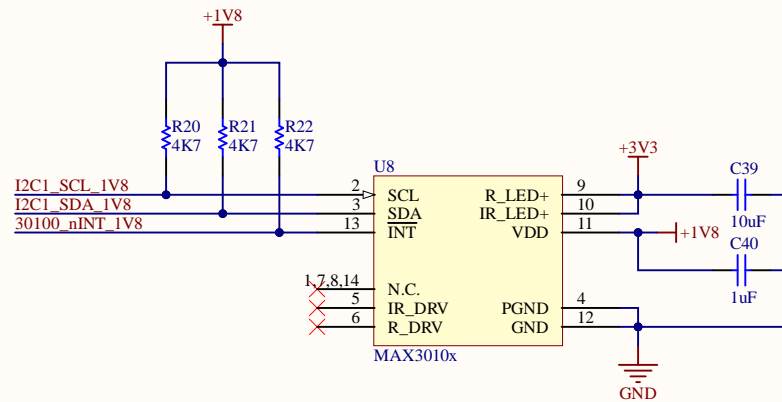
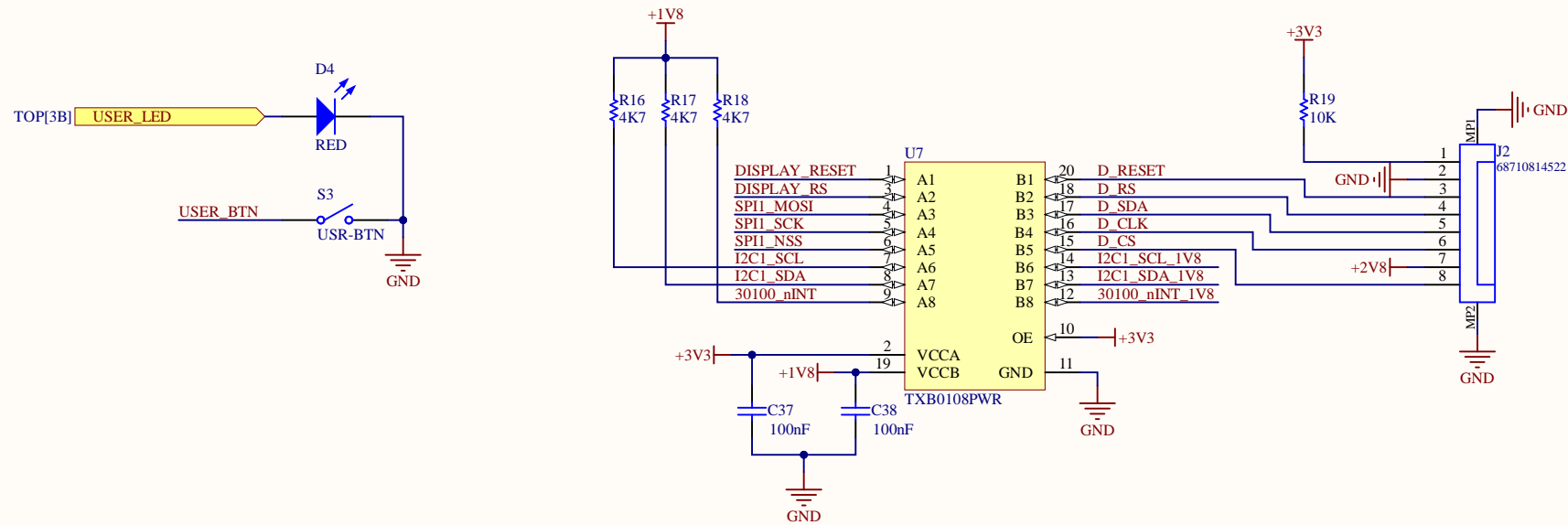
Sheet 2 of 4

File: C:\Users\Public\Documents\Altium\Projects\PE2\Power.SchDoc

ShareFox







Title **HB+SPO2 / IO**

Size: **A4**

Number: **4**

Revision: **1a**

Date: **4/27/2021**

Time: **8:33:56 PM**

Sheet **4** of **4**

File: **C:\Users\Public\Documents\Altium\Projects\PE2\IO.SchDoc**

ShareFox



Comment	Description	Designator	Footprint	LibRef	Quantity
Meander Antenna 2.4GHz	PCB TRACE DONT TRY TO LOOK FOR PARTS	ANT1	Meander2.4G	Meander Antenna 2.4GHz	1
4.7uF	Capacitor	C1, C33, C36	C_1206	Cap	3
100nF	Capacitor	C2, C5, C8, C11, C14, C15, C18, C25, C26, C27, C28, C29, C30, C31, C34, C35, C37, C38	C_0603	Cap	18
10uF	Capacitor	C3, C4, C39	C_0805	Cap	3
1uF	Capacitor	C6, C7, C9, C12, C13, C16, C17, C40	C_0603	Cap	8
150nF	Capacitor	C10	C_0603	Cap	1
0.8pF	Capacitor	C19	C_0603	Cap	1
0.3pF	Capacitor	C20	C_0603	Cap	1
Not Fitted	Capacitor	C21	C_0603	Cap	1
1.2pF	Capacitor	C22	C_0603	Cap	1
20pF	Capacitor	C23, C24	C_0603	Cap	2
100pF	Capacitor	C32	C_0603	Cap	1
RED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D1, D2, D3, D4	D-0603	LED2	4
LFB182G45BG4D268	Ultra-small, low-profiled, lightweight band-pass filters.	FLT1	LFB182G45BG4D268	LFB182G45BG4D268	1
MicroUSB	Micro USB B Type Receptacle, 1.8 A, -55 to 85 degC, 5-Pin SMD, RoHS, Tape and Reel	J1	FCI-10118194-0001LF-5_V	CMP-2000-05120-1	1
68710814522	SMT ZIF Connectors WR-FPC, Horizontal, Bottom Contact, pitch 0.5 mm, 8 pins	J2	68710814522	CMP-1502-01528-1	1
2.2uH	Inductor	L1	L-1008	Inductor	1
2.7nH	Inductor	L2	L-0603	Inductor	1
3.6nH	Inductor	L3	L-0603	Inductor	1
10uH	Inductor	L4	L-0603	Inductor	1
JST-PH	Male Header, Pitch 2 mm, 1 x 2 Position, Height 5.5 mm, -25 to 85 degC, RoHS, Tape and Reel	P1	JST-S2B-PH-SM4-TB(LF)(SN)-2_V	CMP-1755-00001-1	1
PWR	Header, 2-Pin	P2, P9	MHDR1X2	MHDR1X2	2
UART	Header, 2-Pin	P3, P6	MHDR1X2	MHDR1X2	2
BAT	Header, 3-Pin	P4, P7	MHDR1X3	MHDR1X3	2
Programmer	Header, 5-Pin	P5	HDR1X5	MHDR1X5	1
MHDR1X9	Header, 9-Pin	P8, P10	MHDR1X9	MHDR1X9	2
68R	Resistor	R1	C_0603	Res1	1
10K	Resistor	R2, R3, R4, R5, R8, R9, R10, R11, R12, R13, R14, R15, R19	C_0603	Res1	13
1K2	Resistor	R6	C_0603	Res1	1
3K	Resistor	R7	C_0603	Res1	1
4K7	Resistor	R16, R17, R18, R20, R21, R22	C_0603	Res1	6
NTC	2322-640-63103	RT1	HDR1X2	NTC/PTC	1
NRESET	Single-Pole, Single-Throw Switch	S1	B3U-1000P-B	SW-SPST	1
BOOT	Single-Pole, Single-Throw Switch	S2	B3U-1000P-B	SW-SPST	1
USR-BTN	Single-Pole, Single-Throw Switch	S3	HDR1X2	SW-SPST	1
MAX8903A	2A 1-Cell Li+ DC-DC Chargersfor USB and Adapter Power	U1	QFN28P40S400X400E P260x260	MAX8903A	1
USBLC6-2	Very low capacitance ESD protection	U2	SOT23-6P95R280X90	USBLC6-2	1
LD39050PU33R	500 mA low quiescent current and low noise voltage regulator	U3	SON6P95S300X300EP 237x149	LD39050PUxxR	1
MIC5502-1.8YMT	Single 300mA LDO	U4	DFN4P65S100x100EP4 8x48	MIC550x-x.xYMT	1
MIC5502-2.8YMT	Single 300mA LDO	U5	DFN4P65S100x100EP4 8x48	MIC550x-x.xYMT	1
STM32WB55Cx	Multiprotocol wireless 32-bit MCU Arm®-based Cortex®-M4 with FPU, Bluetooth® 5 and 802.15.4 radio solution	U6	QFN48P50S700x700E P560x560	STM32WB55Cx	1
TXB0108PWR	TXB0108 8-Bit Bidirectional Voltage-Level Translator with Auto-Direction Sensing and +/- 15-kV ESD Protection, 1.2 to 3.6 V, -40 to 85 degC, 20-Pin TSSOP (PW), Green (RoHS & no Sb/Br), Tape and Reel	U7	PW0020A_L	CMP-2000-07337-1	1
MAX3010x	Pulse Oximeter and Heart-Rate Sensor IC for Wearable Health	U8	OESIP14R560x330	MAX3010x	1
32.768KHz		Y1	ECX-31B	XTAL 3215	1
32MHz		Y2	Y_3225	XTAL 3225 2_4GND	1