

A

A

B

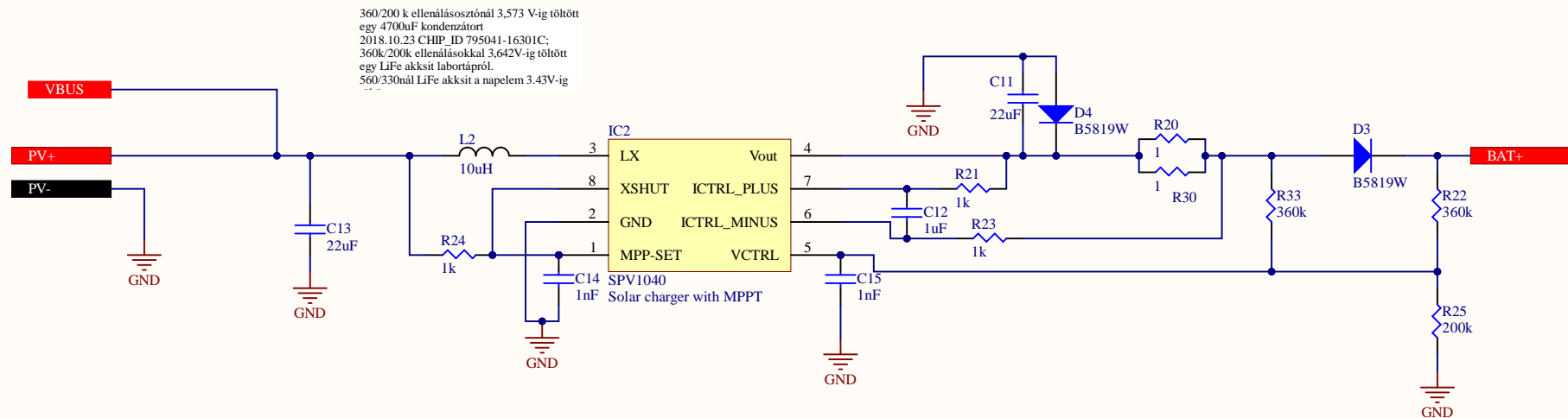
B

C

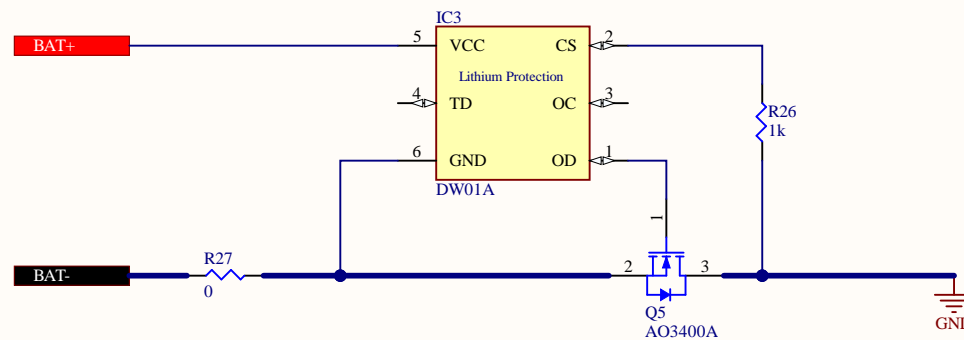
C

D

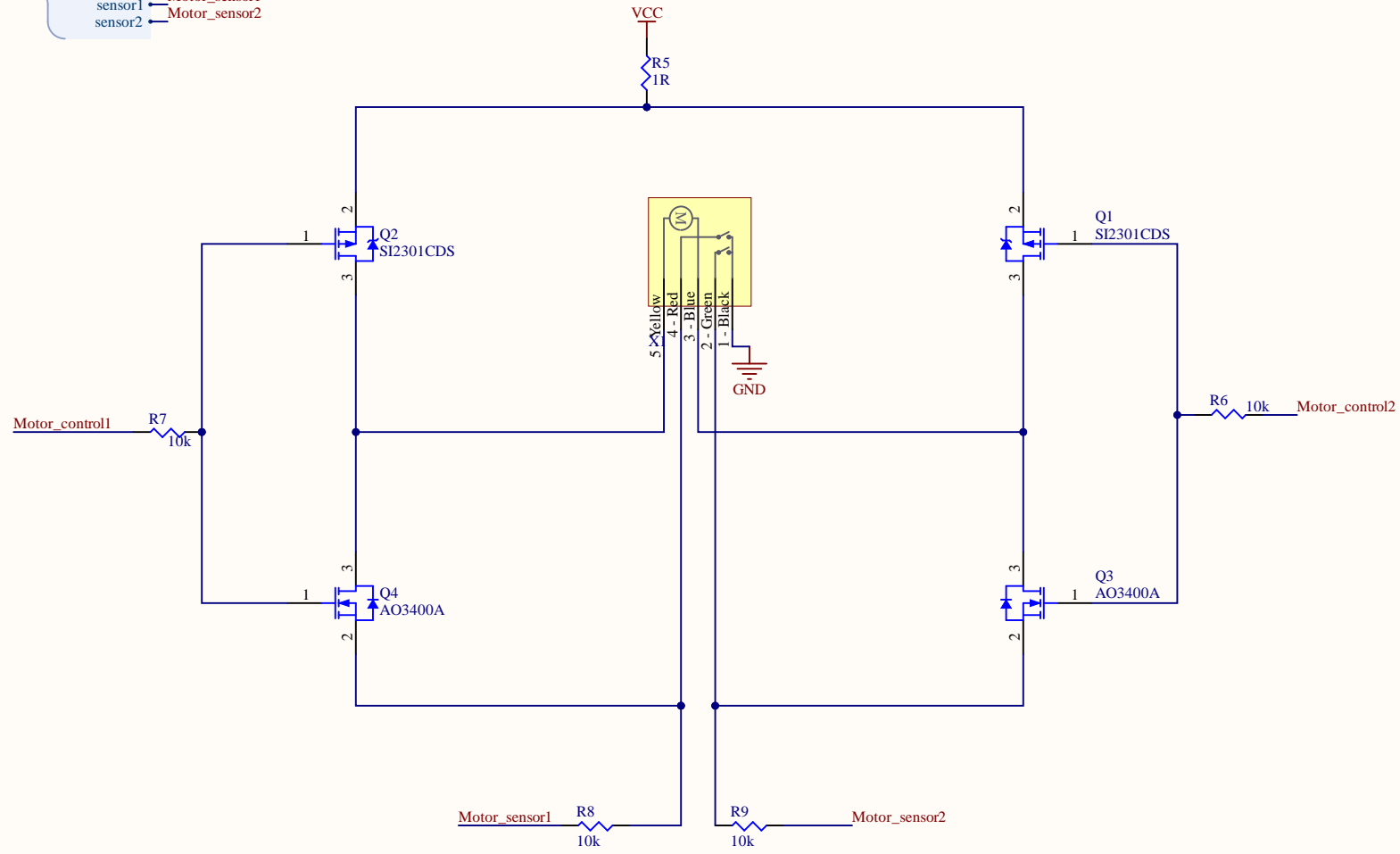
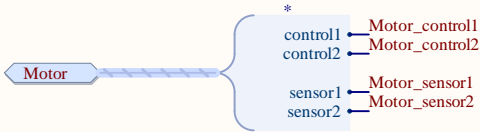
D



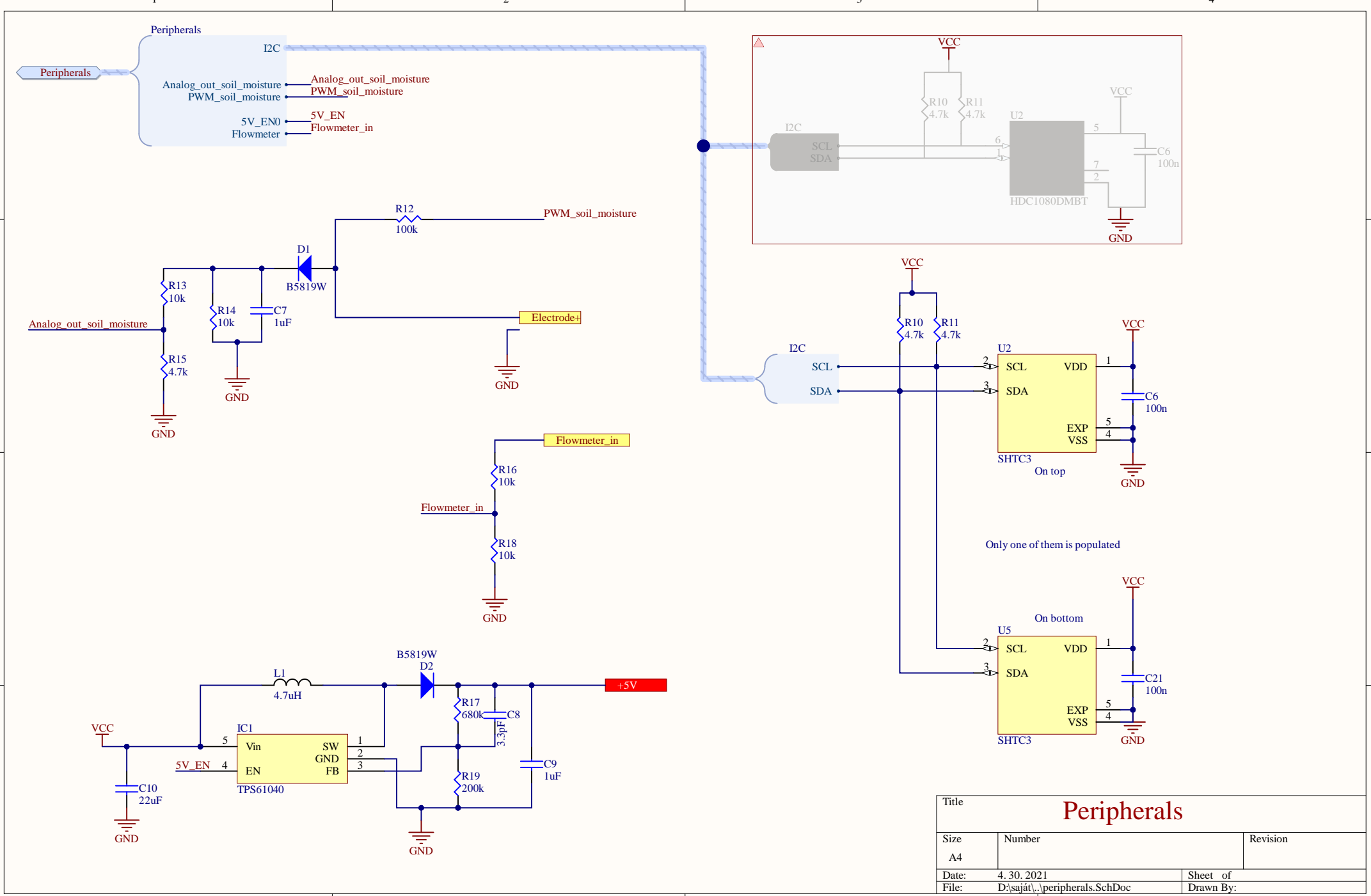
360k:200k van jelenleg így 3,5V jön ki a maximum feszültségre. Érdemes lehetne 3,45Vot beállítani
 $(1.25/200) \cdot (200+360) = 3,5$



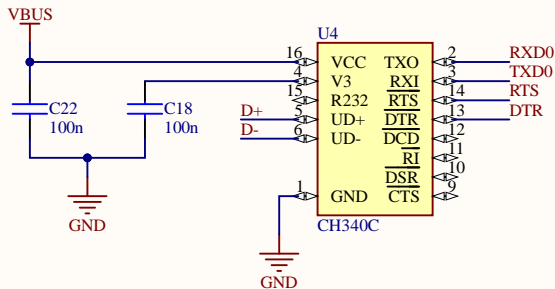
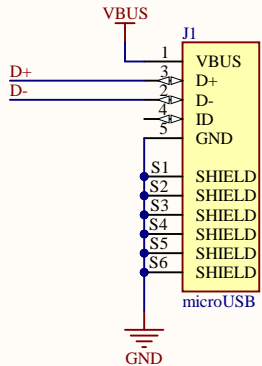
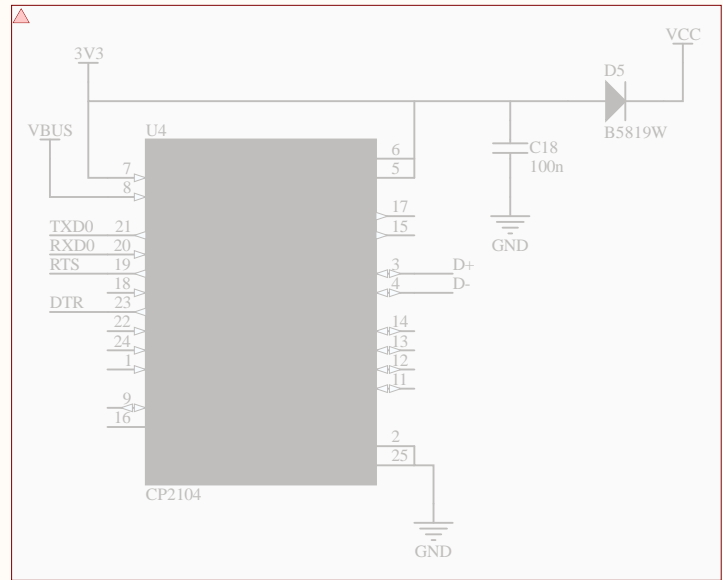
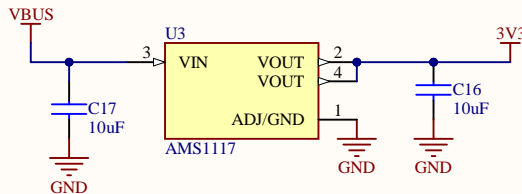
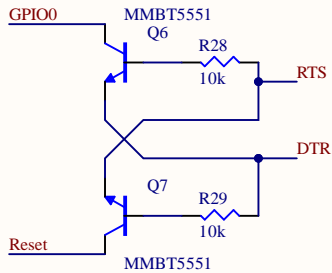
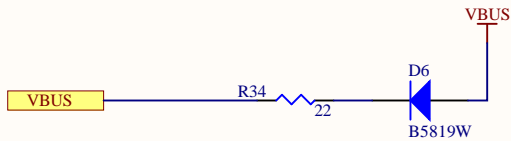
Title		
Solar Charger		
Size	Number	Revision
A4		
Date:	4. 30. 2021	Sheet of
File:	D:\saját\.\solar_charger.SchDoc	Drawn By:



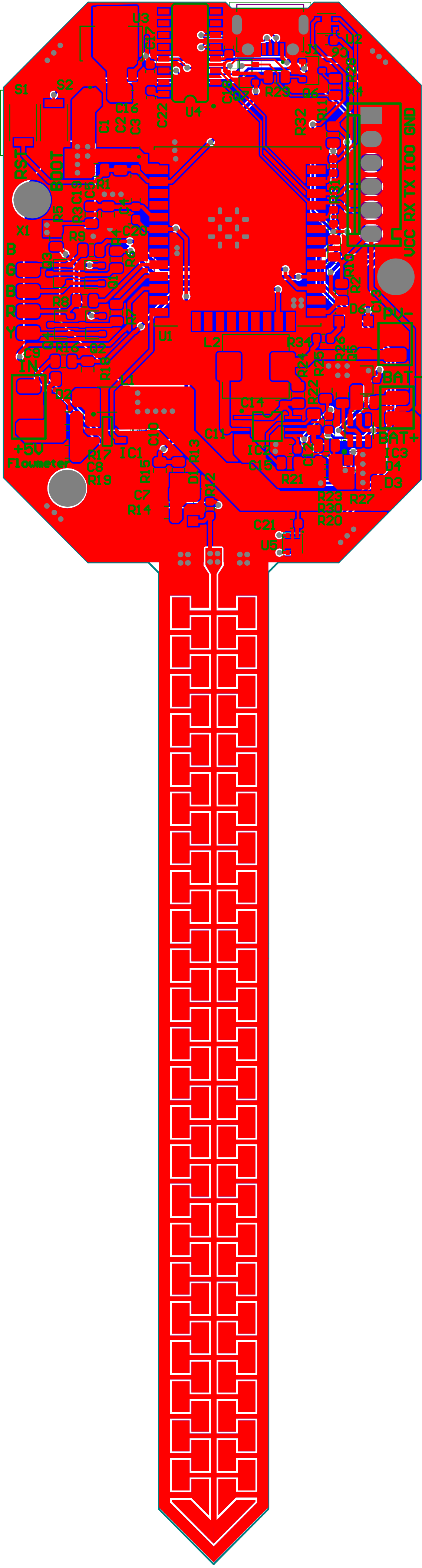
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Size	Number		Revision	
A4				
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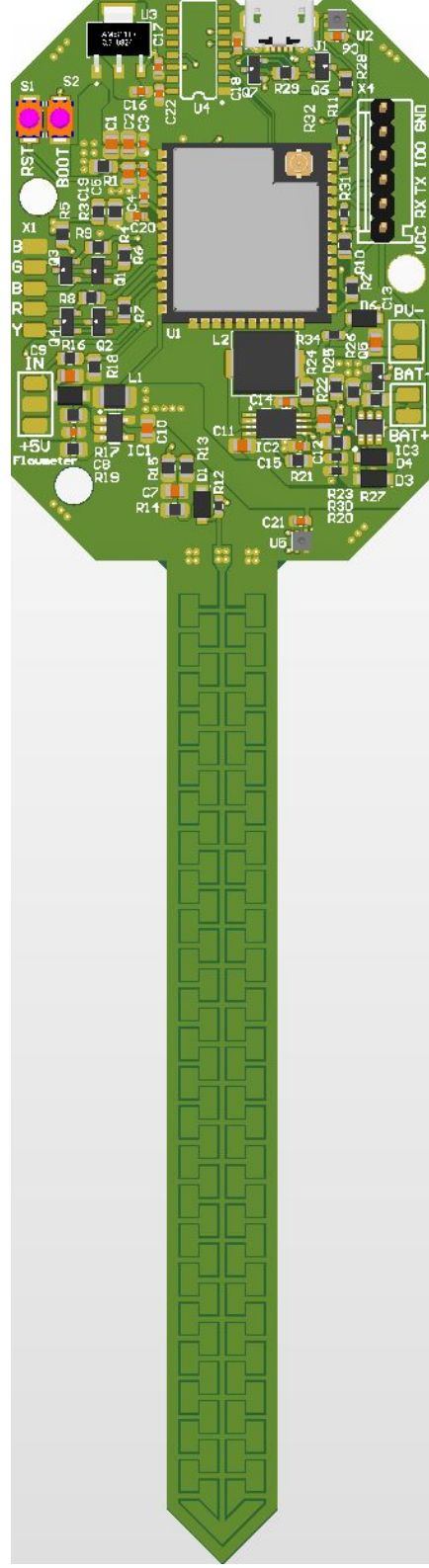


Title		
Peripherals		
Size	Number	Revision
A4		
Date:	4. 30. 2021	Sheet of
File:	D:\sajat\peripherals.SchDoc	Drawn By:



Title			USB - Serial communication	
Size	Number		Revision	
A4				
Date:	4. 30. 2021		Sheet	of
File:	D:\saját\...\USB.SchDoc		Drawn By:	





Designator	Quantity	Comment	LCSC Part #	Description	Footprint	LibRef
R1, R2, R3, R4, R6, R7, R8, R9, R13, R14, R16, R18, R28, R29	14	10k	C17414		RESC200X125X70L40N	Resistor
C1, C4, C10, C11, C13	5	22uF	C59461		CAPC200X125X110L50N	Capacitor
D1, D2, D3, D4, D6	5	B5819W	C8598		SODFL350X110-2N	Diode
C2, C7, C9, C12	4	1uF	C15849		CAPC200X125X110L50N	Capacitor
C3, C5, C19, C20	4	100nF	C14663		CAPC160X80X90L35N	Capacitor
C6, C18, C21, C22	4	100n	[NoValue], C14663		CAPC160X80X90L35N	Capacitor
R21, R23, R24, R26	4	1k	C17513		RESC200X125X70L40N	Resistor
Q3, Q4, Q5	3	AO3400A	C20917	N-FET	SOT23-3P95_240X114L20X40N	N-FET
R10, R11, R15	3	4.7k	C17673		RESC200X125X70L40N	Resistor
R31, R32, R34	3	22	C23345		RESC160X80X90L30N	Resistor
C14, C15	2	1nF	C1588		CAPC160X80X90L35N	Capacitor
C16, C17	2	10uF	C19702		CAPC160X80X90L35N	Capacitor
Q1, Q2	2	SI2301CDS	C10487	P-FET	SOT23-3P95_240X114L20X40N	P-FET
Q6, Q7	2	MMBT5551	C2145	Bipolar _BJT_ Transistor NPN 160V 600mA 225mW Surface Mount SOT-23-3 _TO-236_	SOT23-3P95_240X114L20X40N	MMBT5551
R19, R25	2	200k	C17539		RESC200X125X70L40N	Resistor
R20, R30	2	1	C22936		RESC160X80X90L30N	Resistor
R22, R33	2	360k	C23146, not polluted		RESC160X80X90L30N	Resistor
S1, S2	2	Switch	C115357	Switch	SKRKAEE020	Switch
U2, U5	2	SHTC3	[NoValue], C194656		SHTCx	SHTCx
C8	1	3.3pF	C46219	Optional	CAPC160X80X90L35N	Capacitor
IC1	1	TPS61040	C7722		SOT23-5	TPS61040
IC2	1	SPV1040	C221500		SPV1040	SPV1040
IC3	1	DW01A	C61503	Pushbutton Switch SPST-NC Standard Panel Mount, Front	CFP6P95_290X280X145L45X40N	DW01A
J1	1	microUSB	C404969	Micro USB	SHOUHAN_MICROXNJ	microUSB
L1	1	4.7uH	C1049	INDUCTOR	INDM320X250X240L55X190N	INDUCTOR
L2	1	10uH	C132141	INDUCTOR	INDM730X660X300L160X290N	INDUCTOR
R5	1	1R	C25271		RESC200X125X70L40N	Resistor
R12	1	100k	C17407		RESC160X80X90L30N	Resistor
R17	1	680k	C17797		RESC200X125X70L40N	Resistor
R27	1	0	C17477	This is a fuse!!!	RESC200X125X70L40N	Resistor
U1	1	ESP32-WROOM-32U	C277944	Bluetooth, WiFi 802.11b/g/n, Bluetooth v4.2 +EDR, Class 1, 2 and 3 Transceiver Module 2.4GHz ~ 2.5GHz Antenna Not Included, U.FL Surface Mount	ESP32-WROOM-32U	ESP32-WROOM-32U
U3	1	AMS1117	C6186	UNO PLUS Arduino R3 Shield, Xbee Arduino IDE Wheeled Robotics Kit	SOT229P700X180-4N	AMS1117
U4	1	CH340C	C84681	USB to serial chip CH340	SO016	CH340C
X1	1	motor_connector			motor_connector	motor_connector
X2	1	Solar panel			Solar Panel connenctor	Solar panel
X3	1	Batery			Battery connector	Batery
X4	1	program port	C239366		A2543WV-6P	program port - 6 pin
X5	1	Soil moisture electrode			Soil moisture sensor long	Soil moisture sensor
X6	1	Flowmeter			Flowmeter	Flowmeter