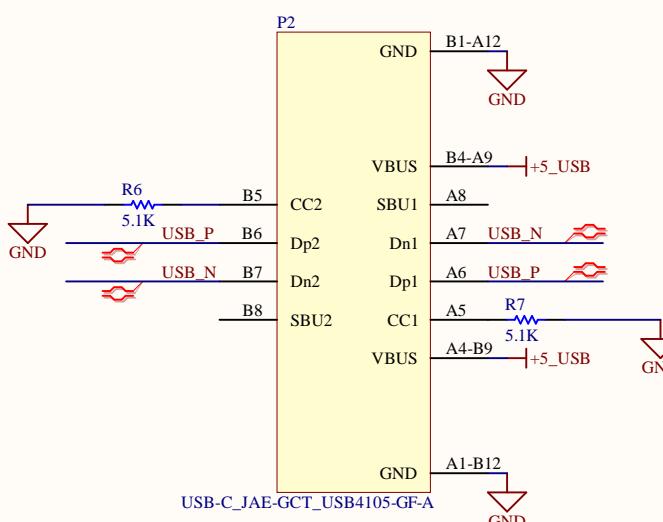
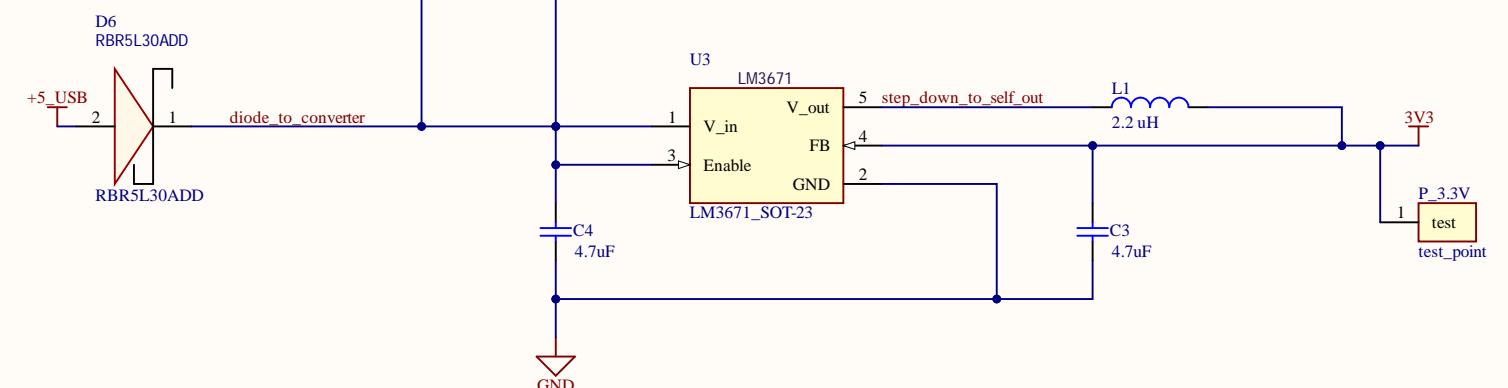


Tension autour du PMOS RQ5C060BC en fonction du branchement de l'USB.

	t_drain	t_gate	t_source	delta_GS
Sans USB	2.4 - 4.2 V	0 V	2.4 - 4.2 V	2.4 - 4.2 V
Avec USB	4.2 V	5 V	5 V	0.8 V



Title		
Size		Number
A3		Revision
Date: 5.10.2023	Sheet of	
File: C:\Users\...\battery_charger_Gael_carter	Submitted By:	Gaël Cartier-Michaud

Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Capacitor	C7, C8, C9, C13, C14, C15, C16, C17, C18, C21, C23, C25, C26, C28, C29, C30	1608[0603]	Cap	16
2.2uF	Capacitor	C10, C11, C12	1608[0603]	Cap	3
27pF	Capacitor	C19, C20	1608[0603]	Cap	2
10uF	Capacitor	C22, C24	1608[0603]	Cap	2
test_point		cs_lcd, miso_lcd, miso_sd, mosi_lcd, mosi_sd, rx, sck_lcd, sck_SD, SCL_sensor, SCL_touch, SDA_sensor, SDA_touch, tx	test_point_5015_keys tone	test_point	13
LED3	Typical BLUE SiC LED	D_ble	Led_0603	LED3	1
GCT-MEM2075_uSD		P1	GCT-MEM2075	GCT-MEM2075_uSD	1
GRPB052VWQS-RC	CONN HEADER .050" 10PS DL SMD AU	P3	GRPB052VWQS-RC	GRPB052VWQS-RC	1
Adafruit_2770_LCD_touchscreen_connecto r		P4_LCD_touchscreen	Adafruit_2770_LCD_touchscreen_connecto r	Adafruit_2770_LCD_touchscreen_connecto r	1
Transistor_ble_SSM3J168F_LF	MOSFET LowON Res MOSFET ID=-0.4A VDSS=-60V	Q1	Transistor_ble_SOT95P260X140-3N	Transistor_ble_SSM3J168F_LF	1
DMG1012T	N-Channel Power MOSFET	Q3	DMG1012T-7	NMOS-2	1
10K	Resistor	R2, R13, R20	RES_0603	Res1	3
1K?	Resistor	R4	RES_0603	Res1	1
2.2K	Resistor	R5, R12, R18, R19	RES_0603	Res1	4
1K	Resistor	R8, R11, R25	RES_0603	Res1	3
27	Resistor	R9, R10	RES_0603	Res1	2
10	Resistor	R14, R15, R16, R17	RES_0603	Res1	4
330	Resistor	R21, R23	RES_0603	Res1	2
100	Resistor	R24	RES_0603	Res1	1
screw_hole		S1, S2, S3, S4	screw_hole_M2	screw_hole	4
W25Q128JVS		U2	W25Q128V	W25Q128JVS	1
Microship-RN4870		U5_bluetooth	RN4870IRM130	Microship-RN4870	1
RP2040		U6_RP2040	RP2040	RP2040	1
ABLS-12.000MHZ-B4-T	ABRACON - ABLS-12.000MHZ-B4-T - CRYSTAL, 12MHz, 18PF, HC-49US	U7	ABLS-12.000MHZ-B4-T	ABLS-12.000MHZ-B4-T	1
BME280		U8_t_P_h	BME280	BME280	1
VEML7700		U9_light	VEML7700	VEML7700	1
SN74LXC2T45DTTR	Translation - Voltage Levels 2-bit dual supply transceiver with configurable voltage-level shifting and 3-state outputs	U14	logic_level_converter_SN74LXC2T45DTTR	logic_level_converter_SN74LXC2T45DTTR	1
TS20-42-25-WT-160-SMT-TR	Tactile Switches 4.2 x 3.2 mm, 2.5 mm Actuator Height, 160 gf, White, Surface Mount, TR, SPST, Tactile Switch	U_boot	TS204225WT160SMTTR	TS20-42-25-WT-160-SMT-TR	1
LED RGB SK9822	Led RGB 5050 Adafruit ID 2343	U_rgb	sk9822	SK9822	1

Comment	Description	Designator	Footprint	LibRef	Quantity
Battery	Multicell Battery	BT1	BAT-2	Battery	1
1uF	Capacitor	C1, C2	1608[0603]	Cap	2
4.7uF	Capacitor	C3, C4	1608[0603]	Cap	2
10uF	Capacitor	C5	1608[0603]	Cap	1
22uF	Capacitor	C6	condo_22uF_C2012X5 ROJ226M085AB_0802	Cap	1
1SS413		D5	1SS413	1SS413	1
RBR5L30ADD		D6	RBR5L30ADDTE25	RBR5L30ADD	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D_charge	Led_0603	LED2	1
2.2 uH	Inductor	L1	self_2.2uH_SRP2010D P	Inductor	1
1.5uH	Inductor	L2	self_1.5uH_LQM2HPN 1R5MG0L	Inductor	1
USB-C_JAE- GCT_USB4105-GF-A	Connecteur USB C complet	P2	GCT_0_MFG	USB_C	1
test_point		P_3.3V, P_5V	test_point_5015_keys tone	test_point	2
RQ5C060BC		Q2	RQ5C060BC	RQ5C060BC	1
100K	Resistor	R1, R3	RES_0603	Res1	2
5.1K	Resistor	R6, R7	RES_0603	Res1	2
DNI	Resistor	R_DNI	RES_0603	Res1	1
MAX1555EZK-T		U1	MAX1555EZK-T	MAX1555EZK-T	1
LM3671_SOT-23		U3	LM3671MF-3_3	LM3671_SOT-23	1
ADP2503ACPZ-5.0-R7		U4	ADP2503ACPZ-5.0-R7	ADP2503ACPZ-5.0-R7	1

Screen

WEATHER STATION  
Gael Cartier-Michaud  
HEPIA-CSH - 2023 - v1.0

