

2\_7V 2\_7V

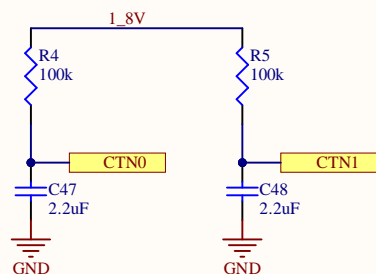
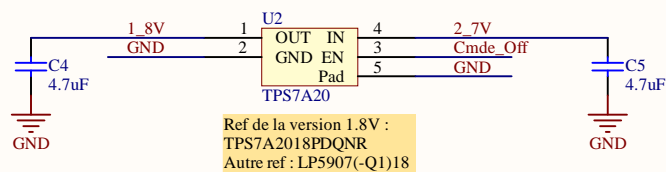
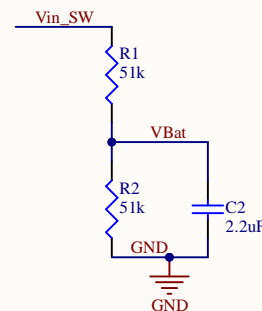
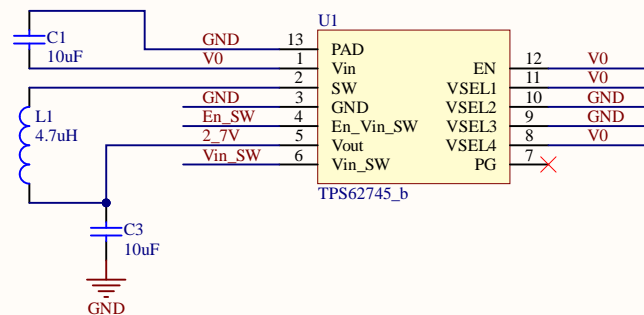
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VBat VBat

En\_SW En\_SW

V0 V0

Cmde\_Off Cmde\_Off



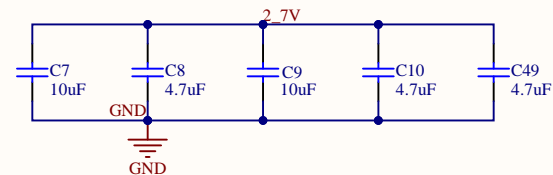
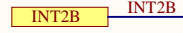
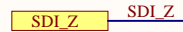
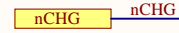
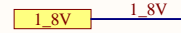
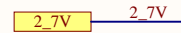
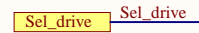
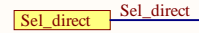
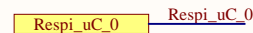
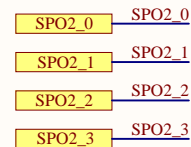
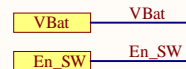
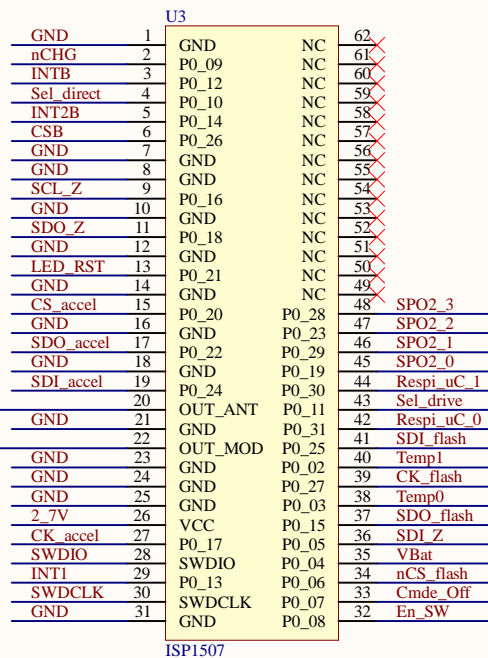
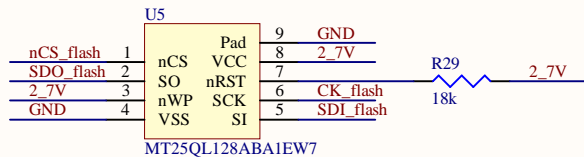
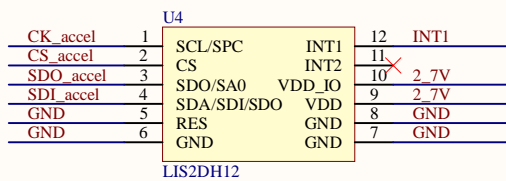
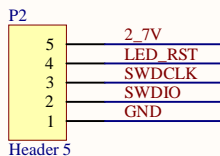
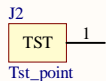
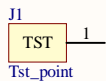
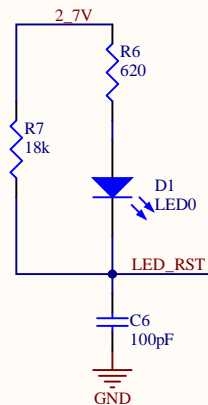
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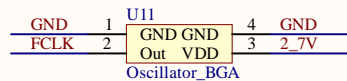
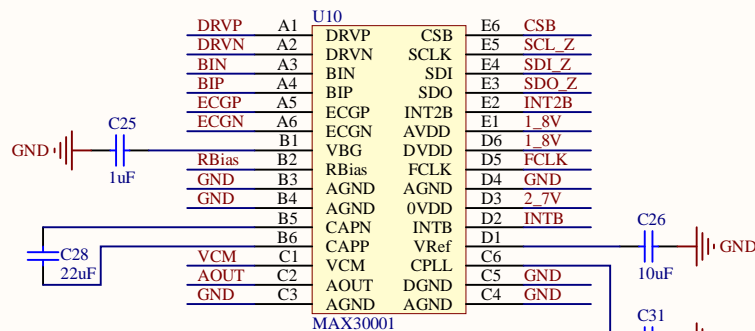
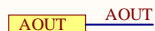
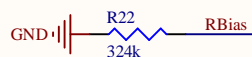
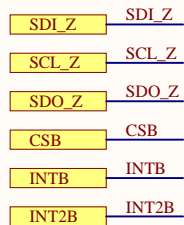
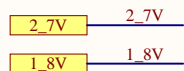
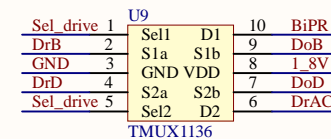
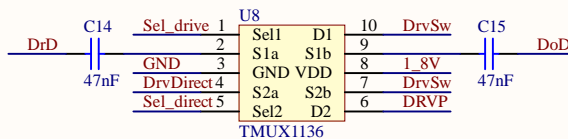
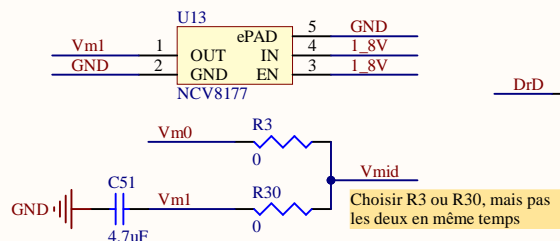
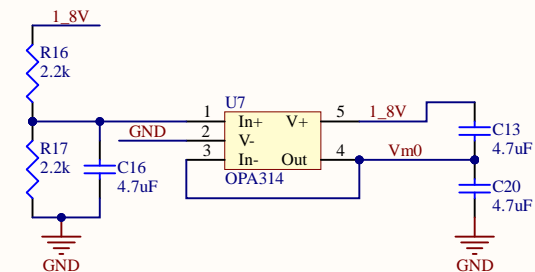
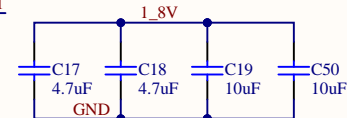
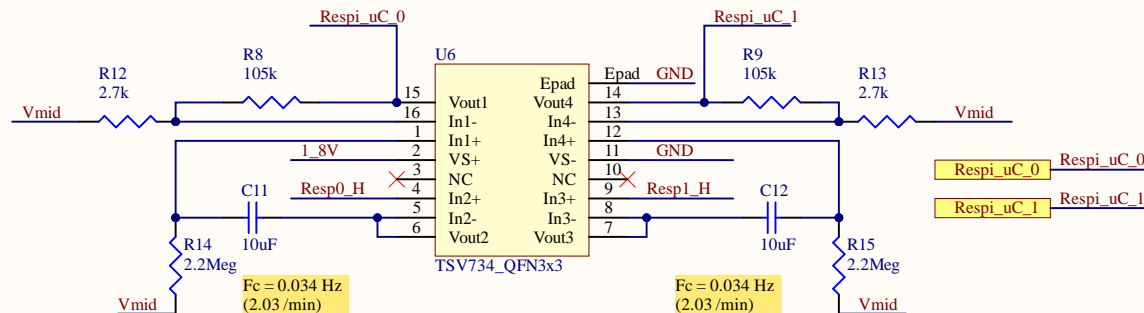
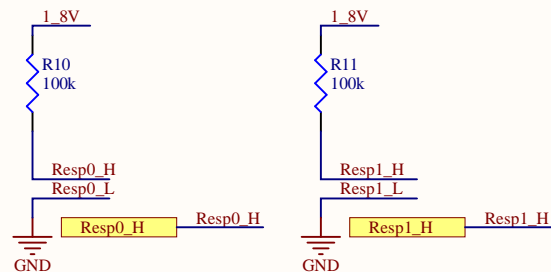
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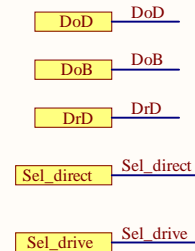
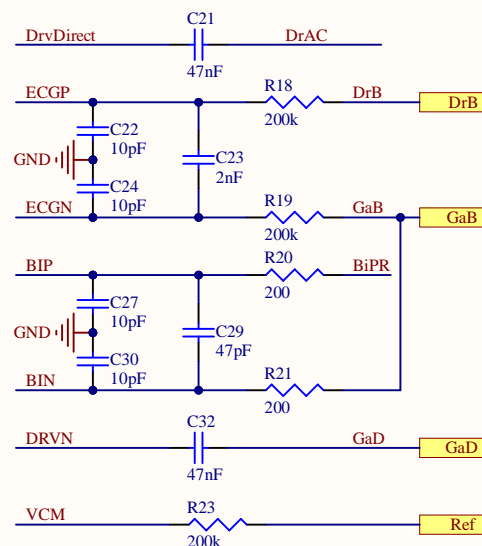
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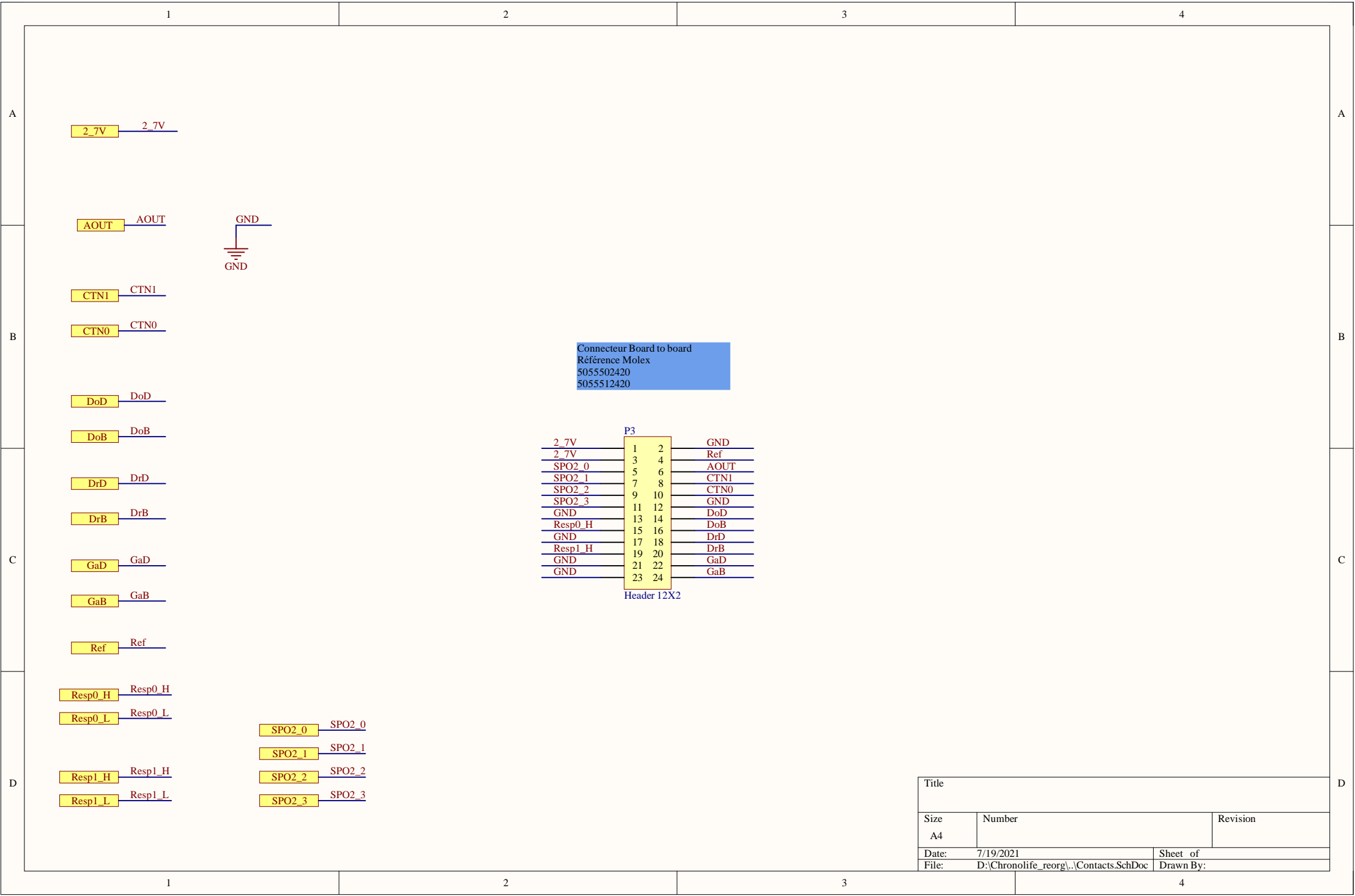


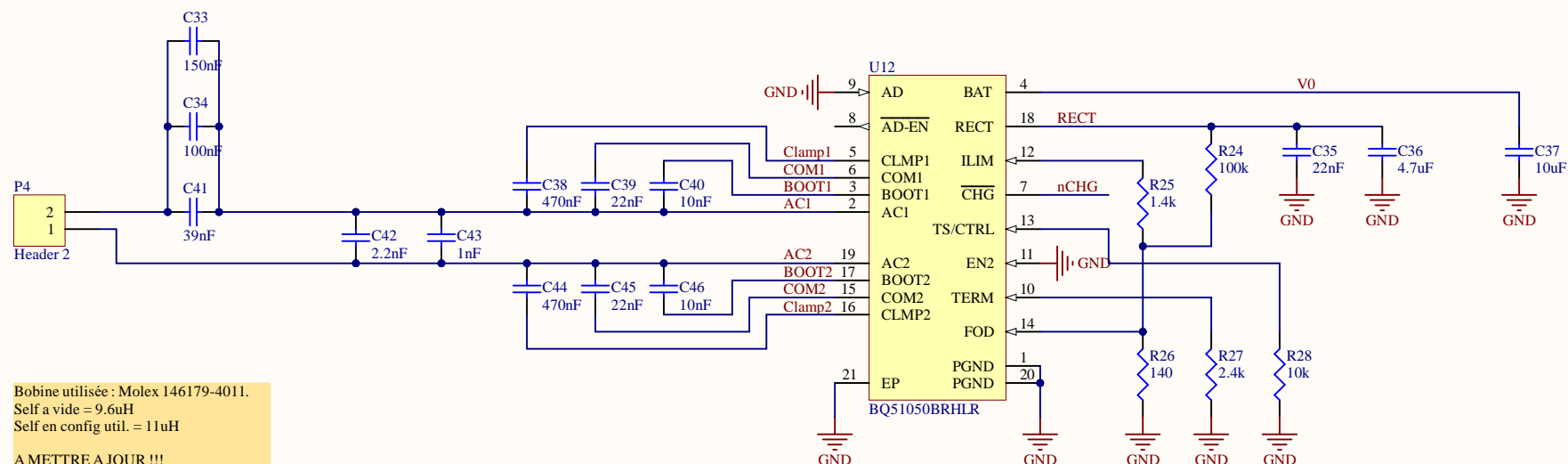
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Ref. ABRACON :  
ASAK2-32.768KHZ-LRS-T



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Bobine utilisée : Molex 146179-4011.  
Self a vide = 9.6uH  
Self en config util. = 11uH  
A METTRE A JOUR !!!

nCHG nCHG

V0 V0

$R_{total} = R_6 + R_{51} = 314 / I_{charge}$   
Pour nous  $I_{charge} = 0.2A$   
 $\Rightarrow R_{total} = 1.57 \text{ kohms}$   
Si  $R_{51} = 140 \text{ ohm}$ ,  $R_6 = 1.43 \text{ kohms}$   
Si  $I = 0.2A$ ,  $R_4 = 1430 \text{ ohms}$   
Avec  $R_6 = 1400 \text{ ohms}$ ,  $I = 204 \text{ mA}$

$R_{term}$  fixe le courant de fin de charge en pourcentage du courant de charge.  
 $R_{term} = 240 * \text{pourcentage}$   
Pour nous on fixe 10% soit 10 mA  
 $\Rightarrow R_{term} = 2.4 \text{ kohm}$

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Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	Capacitor	C1, C3, C37	0603_GC	Cap	3
2.2uF	Capacitor	C2, C47, C48	0402_GC	Cap	3
4.7uF	Capacitor	C4, C5, C8, C10, C13, C16, C17, C18, C20, C49, C51	0402_GC	Cap	11
100pF	Capacitor	C6	0402_GC	Cap	1
10uF	Capacitor	C7, C9, C11, C12, C19, C26, C50	0402_GC	Cap	7
47nF	Capacitor	C14, C15, C21, C32	0402_GC	Cap	4
10pF	Capacitor	C22, C24, C27, C30	0402_GC	Cap	4
2nF	Capacitor	C23	0402_GC	Cap	1
1uF	Capacitor	C25	0402_GC	Cap	1
22uF	Capacitor	C28	0603C_GC	Cap	1
47pF	Capacitor	C29	0402_GC	Cap	1
1nF	Capacitor	C31	0402_GC	Cap	1
150nF	Capacitor	C33	0603_GC	Cap	1
100nF	Capacitor	C34	0603_GC	Cap	1
22nF	Capacitor	C35, C39, C45	0402_GC	Cap	3
4.7uF	Capacitor	C36	0603_GC	Cap	1
470nF	Capacitor	C38, C44	0603_GC	Cap	2
10nF	Capacitor	C40, C46	0402_GC	Cap	2
39nF	Capacitor	C41	0603_GC	Cap	1
2.2nF	Capacitor	C42	0603_GC	Cap	1
1nF	Capacitor	C43	0603_GC	Cap	1
LED0	Typical INFRARED GaAs LED	D1	0603D_GC	LED0	1
Tst_point		J1, J2	Mire	Tst_point	2
4.7uH	Inductor	L1	SELF_252012	Inductor	1
Header 2	Header, 2-Pin	P1	2SIP150PAD_G	Header 2	1
Header 5	Header, 5-Pin	P2	5PADRb_G	Header 5	1
Header 12X2	Header, 12-Pin, Dual row	P3	Molex_24_Emb_GC	Header 12X2	1
Header 2	Header, 2-Pin	P4	2PAD_MIXTE	Header 2	1
51k	Resistor	R1, R2	0402_GC	Res3	2
0	Resistor	R3, R30	0402_GC	Res3	2
100k	Resistor	R4, R5, R10, R11, R24	0402_GC	Res3	5
620	Resistor	R6	0402_GC	Res3	1
18k	Resistor	R7, R29	0402_GC	Res3	2
105k	Resistor	R8, R9	0402_GC	Res3	2
2.7k	Resistor	R12, R13	0402_GC	Res3	2
2.2Meg	Resistor	R14, R15	0402_GC	Res3	2
2.2k	Resistor	R16, R17	0402_GC	Res3	2
200k	Resistor	R18, R19, R23	0402_GC	Res3	3
200	Resistor	R20, R21	0402_GC	Res3	2
324k	Resistor	R22	0402_GC	Res3	1
1.4k	Resistor	R25	0402_GC	Res3	1
140	Resistor	R26	0402_GC	Res3	1
2.4k	Resistor	R27	0402_GC	Res3	1
10k	Resistor	R28	0402_GC	Res3	1
TPS62745_b		U1	TPS62740	TPS62745_b	1
TPS7A20		U2	X2SON	TPS7A20	1
ISP1507		U3	ISP1507	ISP1507	1
LIS2DH12		U4	LGA_12_GC	LIS2DH12	1
MT25QL128ABA1EW7		U5	WS0N_8_8x6	MT25QL128ABA1EW7	1
TSV734_QFN3x3		U6	QFN16_PAD_GC_BRIC OLAGE	TSV734_QFN3x3	1
OPA314		U7	SC70	OPA314	1
TMUX1136		U8, U9	USON10_GC	TMUX1136	2
MAX30001		U10	WLP30_GC	MAX30001	1
Oscillator_BGA		U11	Oscillator_BGA	Oscillator_BGA	1
BQ51050BRHLR	Oi (WPC) Compliant Highly Integrated Secondary-Side Direct Lithium Ion Charger, 4 V Min Input, 20-pin VOFN (RHL), Green (RoHS & no Sb/Br)	U12	BQ51050	BQ51050BRHLR	1
NCV8177		U13	XDFN4	NCV8177	1