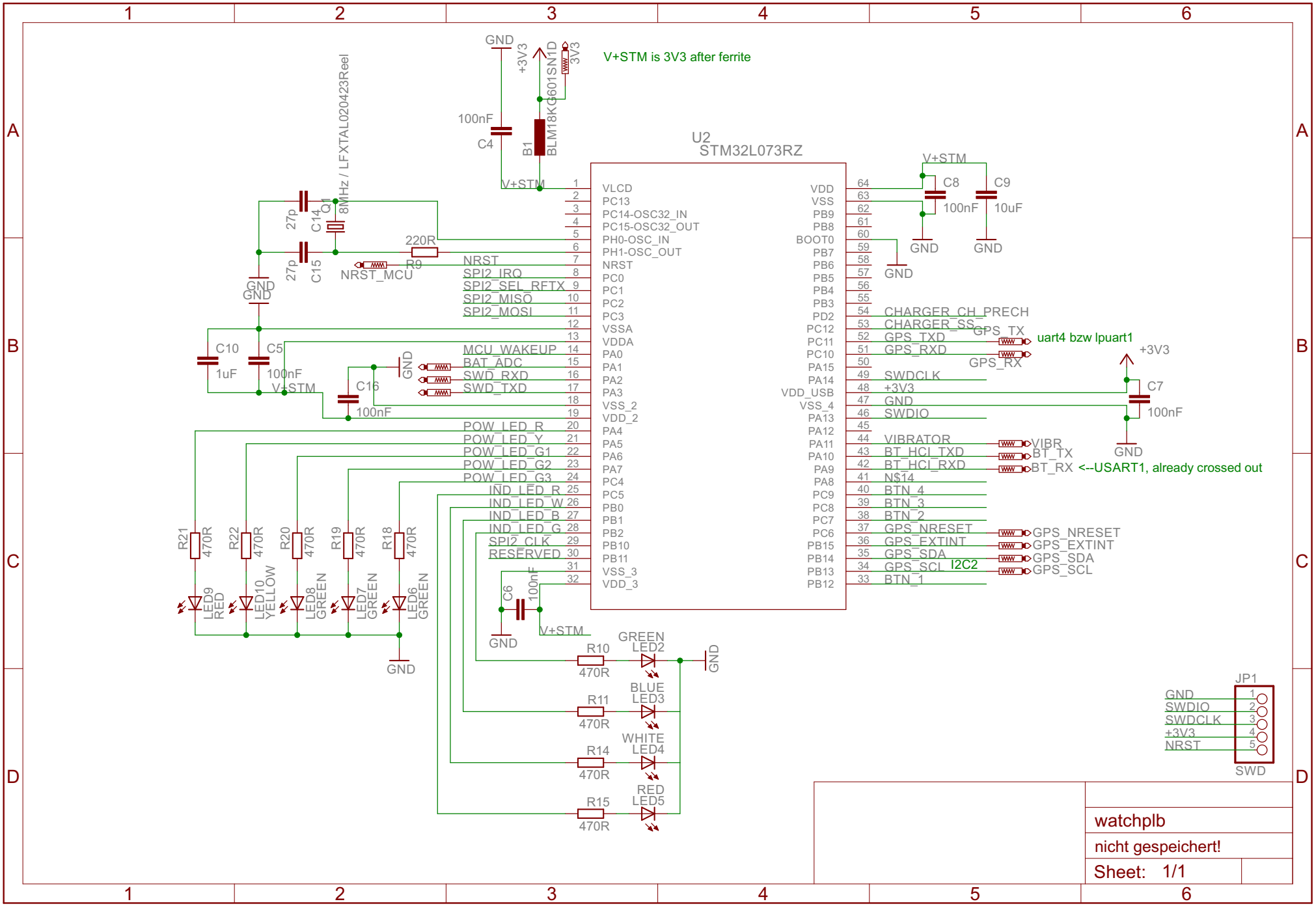
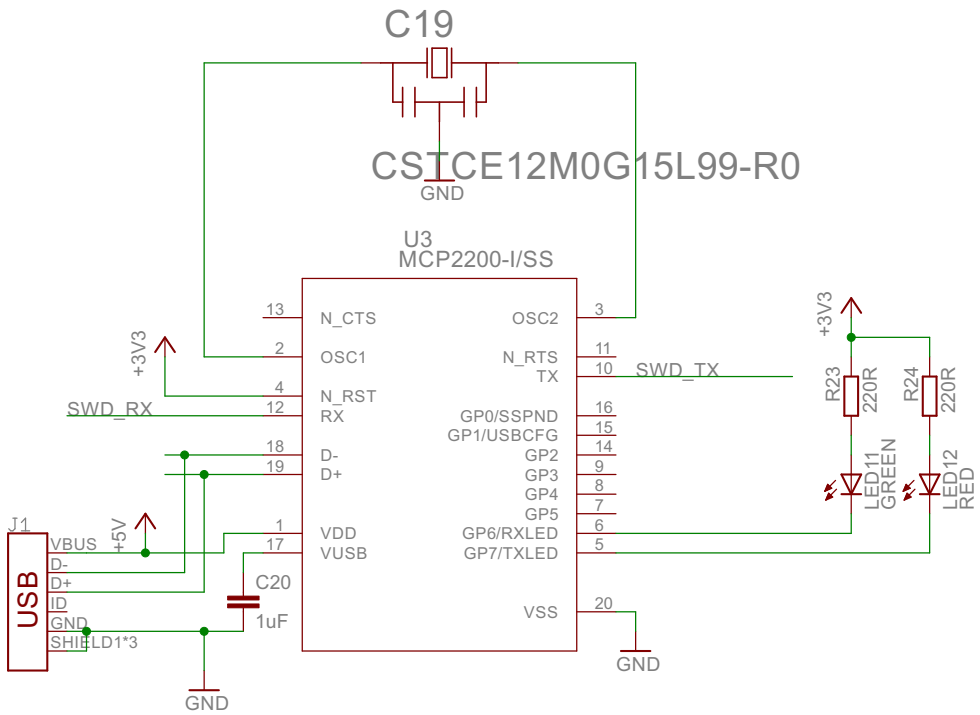


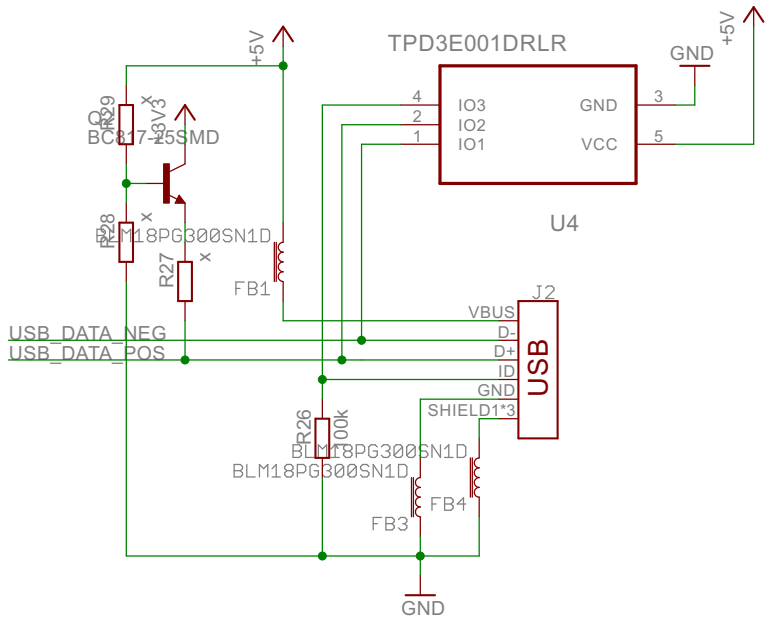
29.05.2018 17:49:58 f=1.02 C:\Users\samue\Documents\watchPLB\eagle\watchplb.sch (Sheet: 1/1)

USB Virtual COM Port

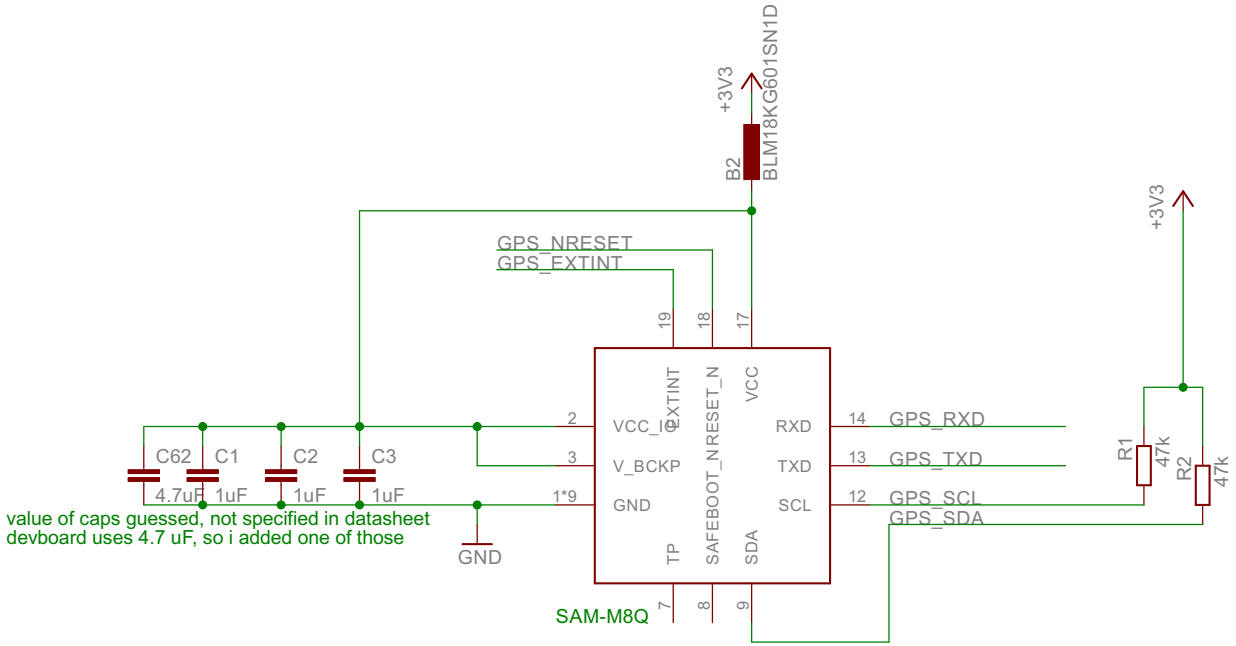
mit USB-to-UART Chip



mit USB des STM

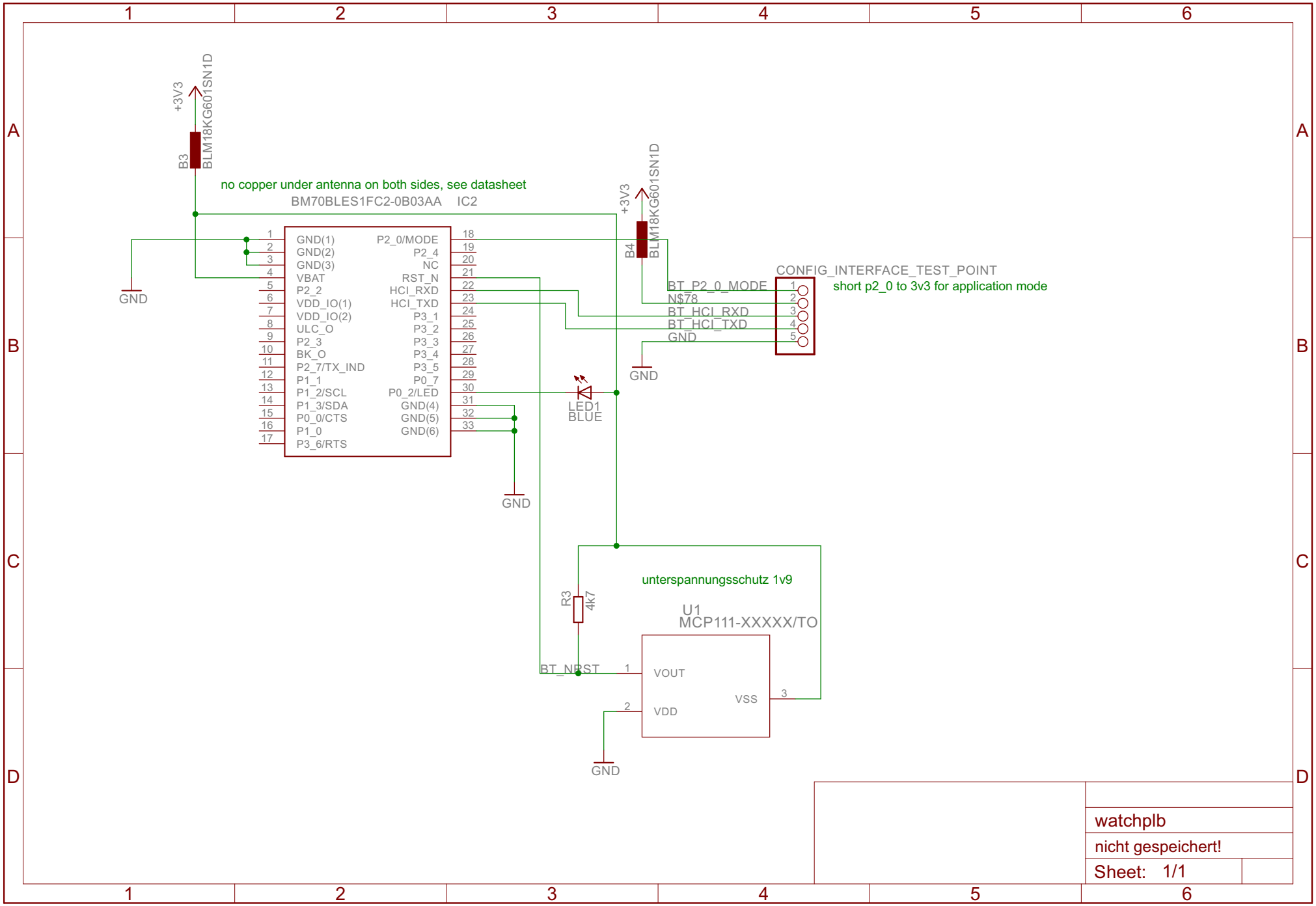


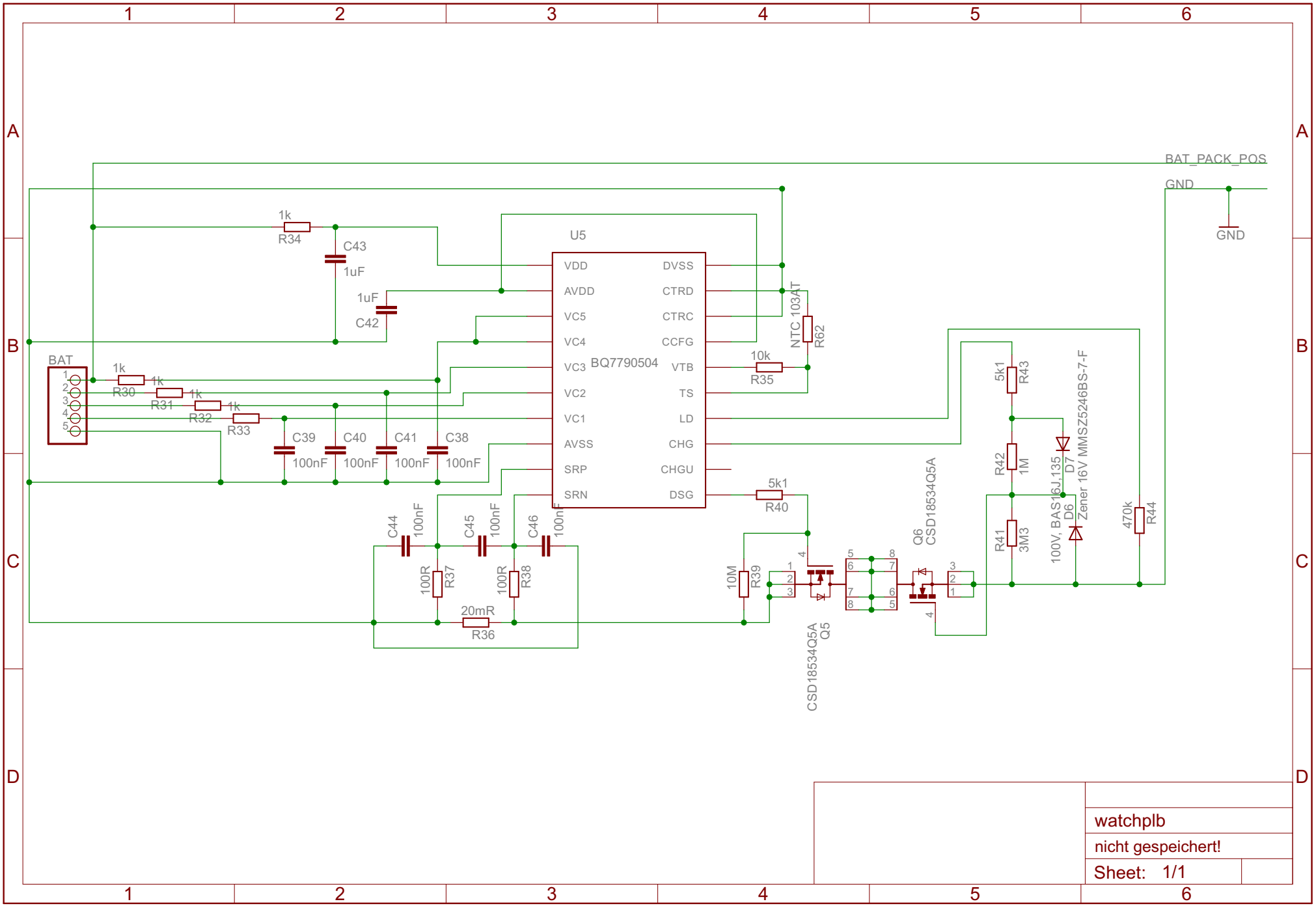
watchplb	
nicht gespeichert!	
Sheet: 1/1	

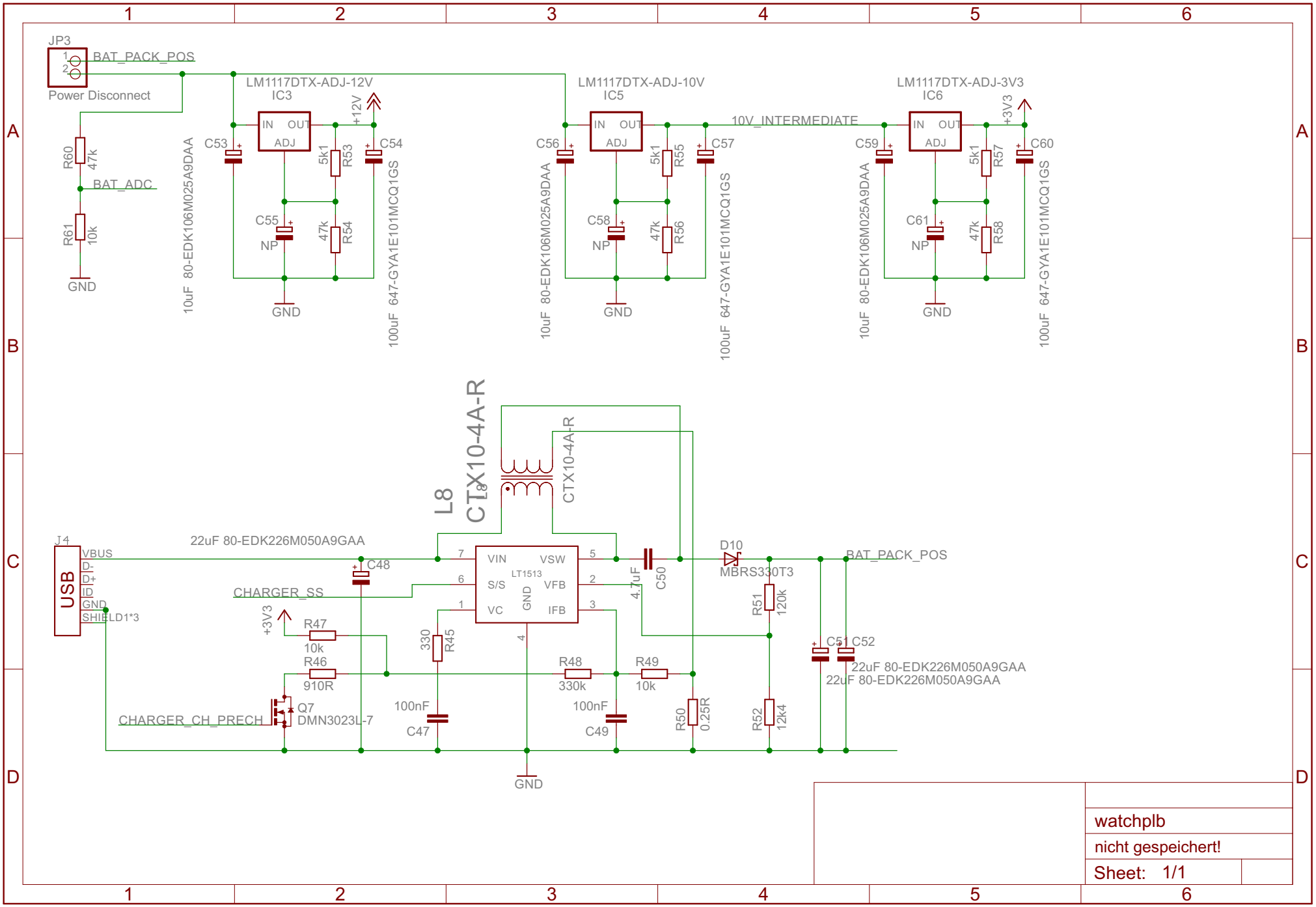


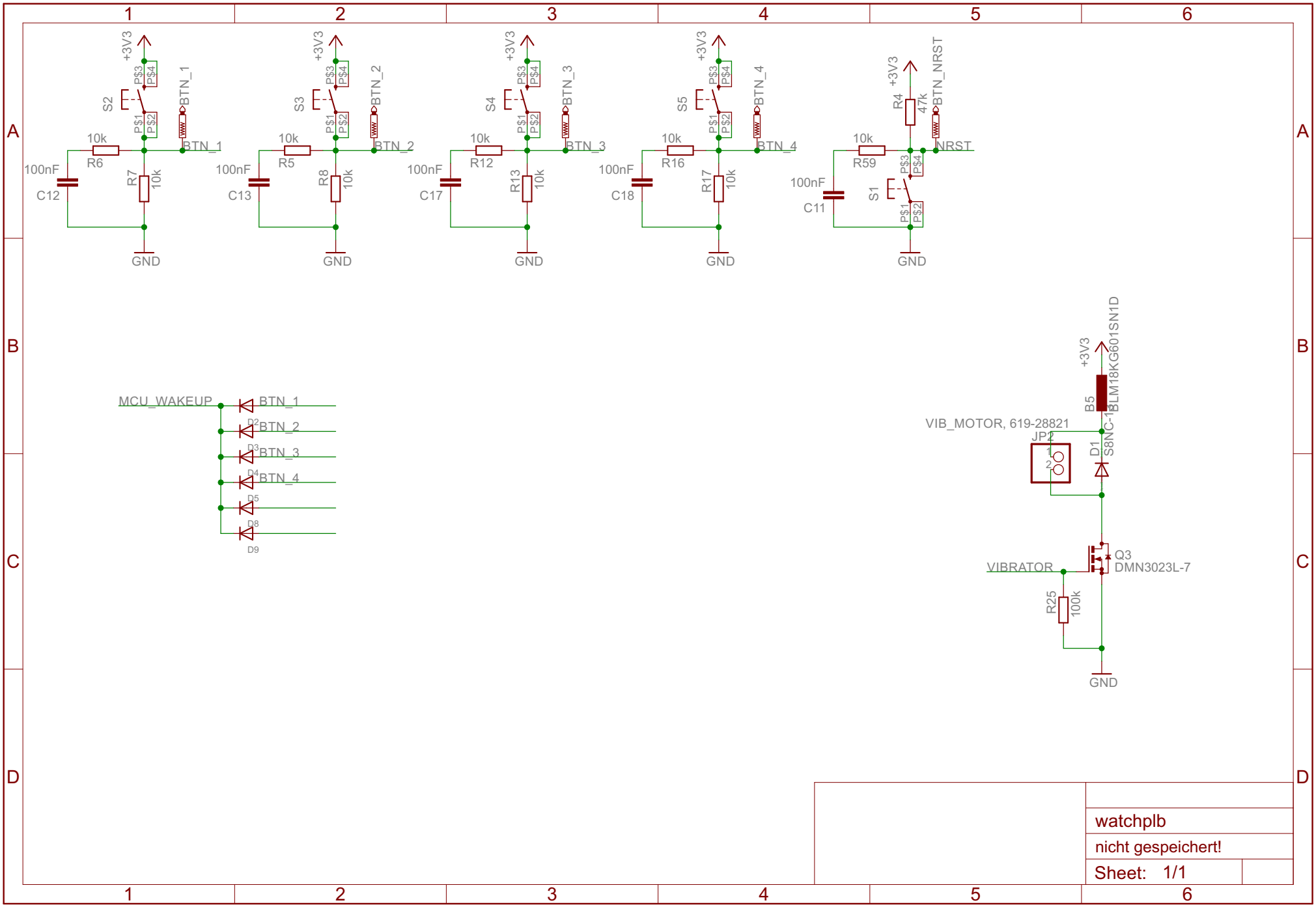
Module alone on this side, check Hardware Integration manual for Layout Suggestions

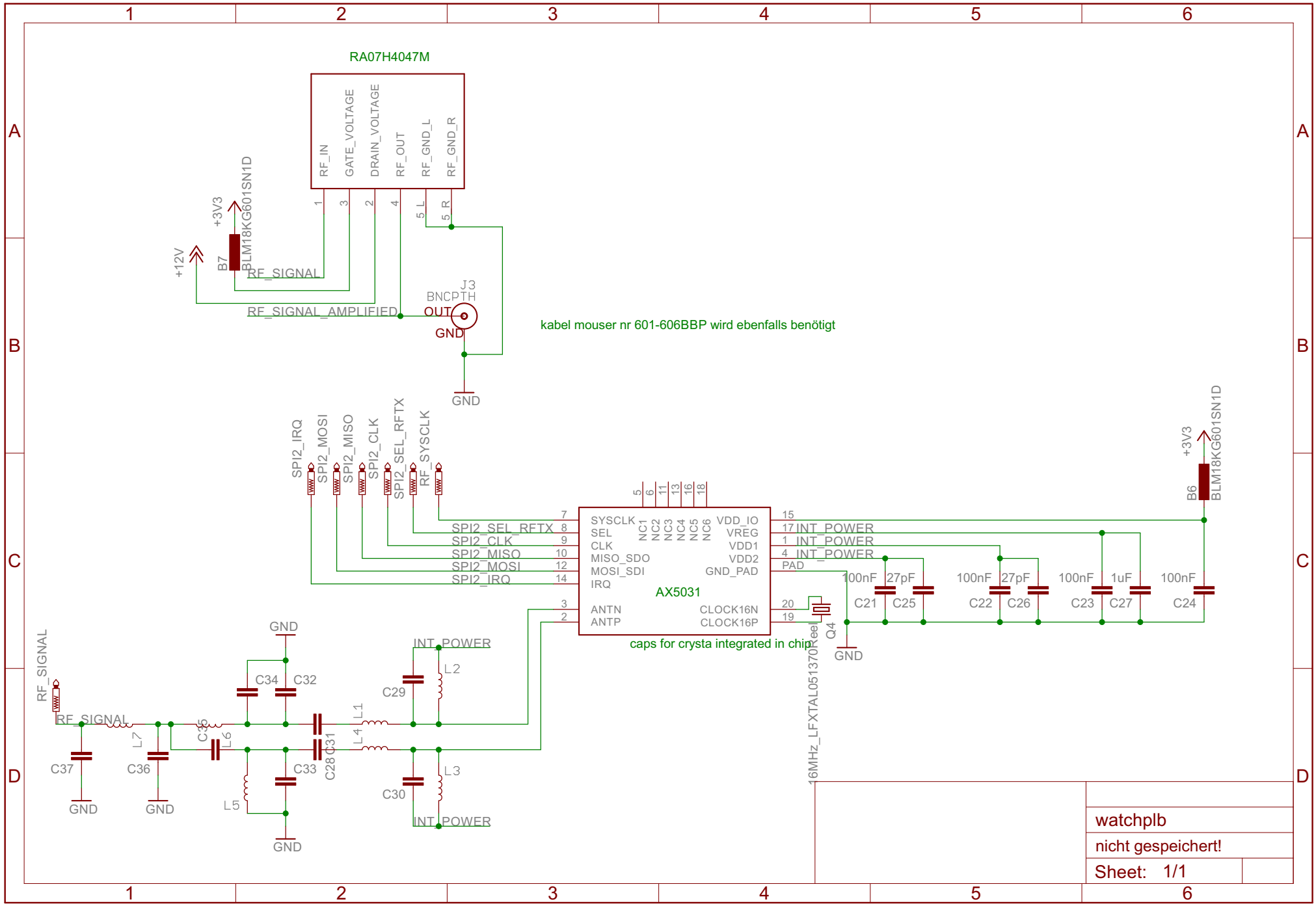
watchplb	
nicht gespeichert!	
Sheet: 1/1	


+3V3
BLM18KG601SN1D
B3
no copper under antenna on both sides, see datasheet
BM70BLES1FC2-0B03AA IC2
GND(1)
GND(2)
GND(3)
VBAT
P2_2
VDD_IO(1)
VDD_IO(2)
ULC_O
P2_3
BK_O
P2_7/TX_IND
P1_1
P1_2/SCL
P1_3/SDA
P0_0/CTS
P1_0
P3_6/RTS
P2_0/MODE
P2_4
NC
RST_N
HCI_RXD
HCI_TXD
P3_1
P3_2
P3_3
P3_4
P3_5
P0_7
P0_2/LED
GND(4)
GND(5)
GND(6)
GND
+3V3
BLM18KG601SN1D
B4
CONFIG_INTERFACE_TEST_POINT
short p2_0 to 3v3 for application mode
BT_P2_0_MODE
N$78
BT_HCI_RXD
BT_HCI_TXD
GND
GND
LED1
BLUE
unterspannungsschutz 1v9
R3
4k7
U1
MCP111-XXXXX/TO
BT_NRST
VOUT
VDD
VSS
GND
watchplb
nicht gespeichert!
Sheet: 1/1


BAT_PACK_POS
GND
GND
U5
BQ7790504
VDD
AVDD
VC5
VC4
VC3
VC2
VC1
AVSS
SRP
SRN
DVSS
CTRD
CTRC
CCFG
VTB
TS
LD
CHG
CHGU
DSG
BAT
R34
1k
C43
1uF
C42
1uF
R30
R31
R32
R33
C39
C40
C41
C38
100nF
NTC 103AT
R62
10k
R35
5k1
R40
R43
R42
1M
R41
3M3
D7
Zener 16V MMSZ5246BS-7-F
D6
100V, BAS16J,135
470k
R44
Q6
CSD18534Q5A
Q5
CSD18534Q5A
C44
C45
C46
100R
R37
R38
20mR
R36
10M
R39
watchplb
nicht gespeichert!
Sheet: 1/1


JP3
BAT_PACK_POS
Power Disconnect
R60 47k
BAT_ADC
R61 10k
GND
LM1117DTX-ADJ-12V
IC3
IN OUT
ADJ
+12V
C53
10uF 80-EDK106M025A9DAA
5k1
R53
C54
100uF 647-GYA1E101MCQ1GS
C55
NP
47k
R54
GND
LM1117DTX-ADJ-10V
IC5
10V_INTERMEDIATE
C56
C57
R55
C58
R56
LM1117DTX-ADJ-3V3
IC6
+3V3
C59
C60
R57
C61
R58
L8
CTX10-4A-R
J4
USB
VBUS
D-
D+
ID
GND
SHIELD1*3
22uF 80-EDK226M050A9GAA
C48
CHARGER_SS
LT1513
VIN
VSW
S/S
GND
VFB
VC
IFB
4.7uF
C50
D10
MBRS330T3
BAT_PACK_POS
R51 120k
R47 10k
R46 910R
330
R45
R48 330k
R49 10k
C51 C52
22uF 80-EDK226M050A9GAA
22uF 80-EDK226M050A9GAA
CHARGER_CH_PRECH
Q7
DMN3023L-7
100nF
C47
100nF
C49
R50 0.25R
R52 12k4
watchplb
nicht gespeichert!
Sheet: 1/1


1
2
3
4
5
6
A
B
C
D
+3V3
P$3
P$4
S2
P$1
P$2
BTN_1
10k
R6
100nF
C12
R7
10k
GND
S3
BTN_2
R5
C13
R8
S4
BTN_3
R12
C17
R13
S5
BTN_4
R16
C18
R17
R4
47k
BTN_NRST
R59
NRST
C11
S1
MCU_WAKEUP
D2
D3
D4
D5
D8
D9
VIB_MOTOR, 619-28821
JP2
B5
BLM18KG601SN1D
D1
S8NC-13
Q3
DMN3023L-7
VIBRATOR
R25
100k
watchplb
nicht gespeichert!
Sheet: 1/1


RA07H4047M
RF_IN
GATE_VOLTAGE
DRAIN_VOLTAGE
RF_OUT
RF_GND_L
RF_GND_R
+3V3
BLM18KG601SN1D
B7
+12V
RF_SIGNAL
RF_SIGNAL_AMPLIFIED
J3
BNCPTH
OUT
GND
kabel mouser nr 601-606BBP wird ebenfalls benötigt
SPI2_IRQ
SPI2_MOSI
SPI2_MISO
SPI2_CLK
SPI2_SEL_RFTX
RF_SYSCLK
SYSCLK
SEL
CLK
MISO_SDO
MOSI_SDI
IRQ
ANTN
ANTP
NC1
NC2
NC3
NC4
NC5
NC6
VDD_IO
VREG
VDD1
VDD2
GND_PAD
PAD
CLOCK16N
CLOCK16P
AX5031
caps for crysta integrated in chip
INT_POWER
B6
100nF
27pF
1uF
C21
C22
C23
C24
C25
C26
C27
Q4
16MHz_LFXTAL051370Reel
RF_SIGNAL
C34
C32
C29
L2
L1
C35
L7
L6
C36
C37
C33
C28
C31
L4
L5
C30
L3
watchplb
nicht gespeichert!
Sheet: 1/1