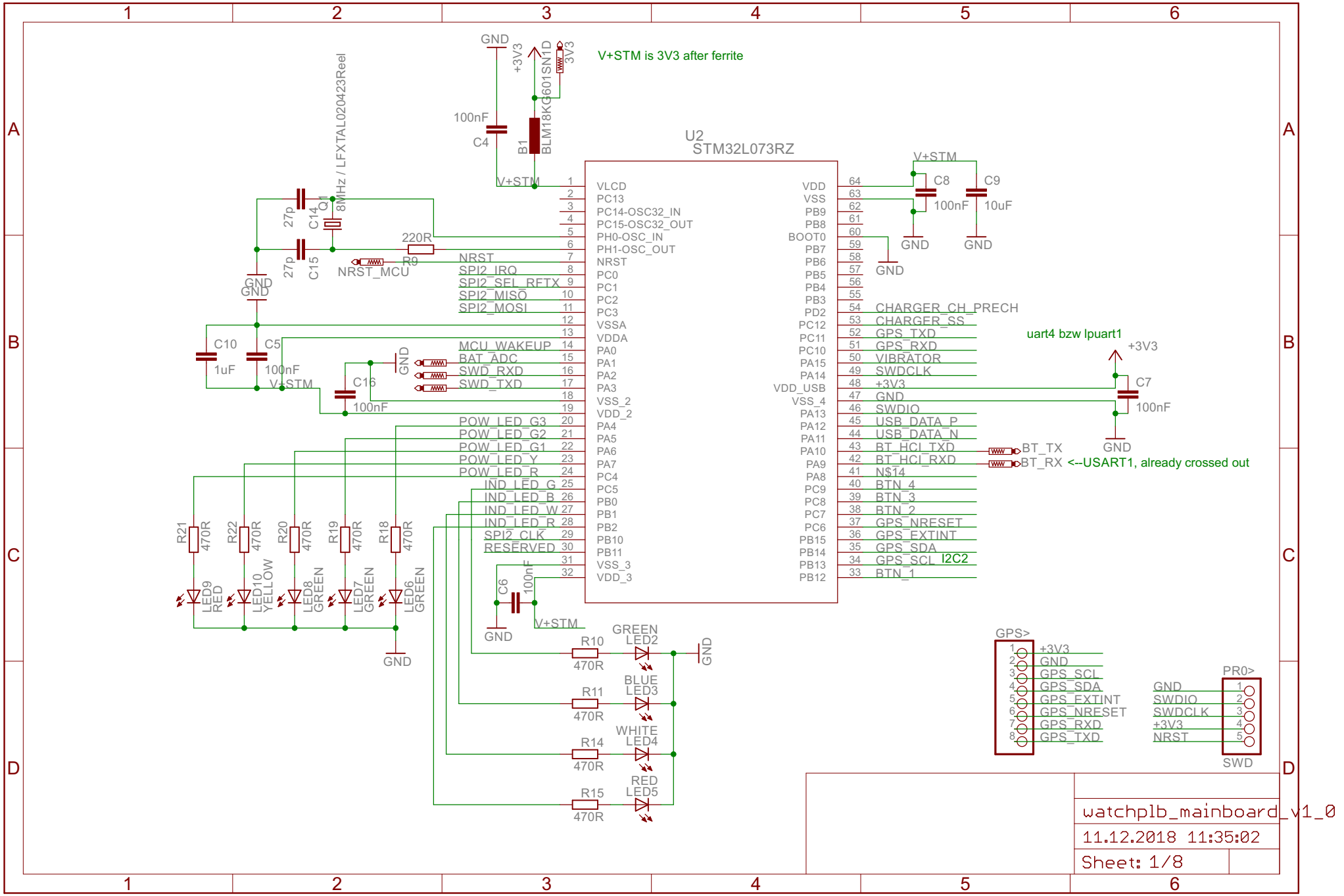
V+STM is 3V3 after ferrite
U2
STM32L073RZ
uart4 bzw lpuart1
<--USART1, already crossed out
I2C2
watchplb_mainboard_v1_0
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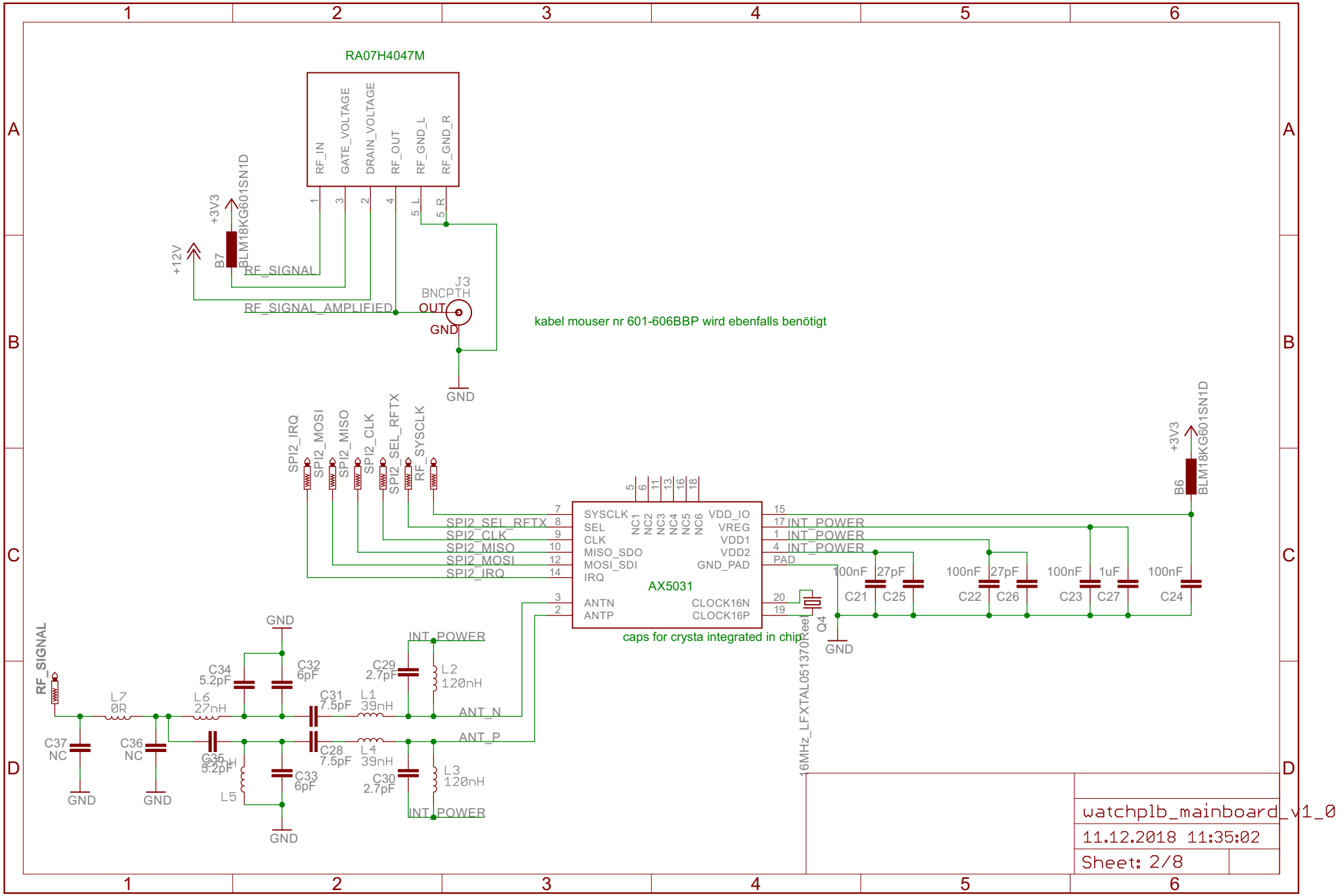
RA07H4047M
RF_IN
GATE_VOLTAGE
DRAIN_VOLTAGE
RF_OUT
RF_GND_L
RF_GND_R
+3V3
BLM18KG601SN1D
B7
+12V
RF_SIGNAL
RF_SIGNAL_AMPLIFIED
J3
BNCPTH
OUT
GND
kabel mouser nr 601-606BBP wird ebenfalls benötigt
SPI2_IRQ
SPI2_MOSI
SPI2_MISO
SPI2_CLK
SPI2_SEL_RFTX
RF_SYSCLK
SYSCLK
SEL
CLK
MISO_SDO
MOSI_SDI
IRQ
ANTN
ANTP
NC1
NC2
NC3
NC4
NC5
NC6
VDD_IO
VREG
VDD1
VDD2
GND_PAD
PAD
AX5031
INT_POWER
caps for crysta integrated in chip
16MHz_LFXTAL051370Reel
Q4
B6
100nF
27pF
C21
C25
C22
C26
100nF
27pF
100nF
1uF
C23
C27
100nF
C24
RF_SIGNAL
L7
0R
L6
27nH
C34
5.2pF
C32
6pF
C31
7.5pF
L1
39nH
C29
2.7pF
L2
120nH
ANT_N
ANT_P
C37
NC
C36
NC
C35
5.2pF
C28
7.5pF
L4
39nH
L5
C33
6pF
C30
2.7pF
L3
120nH
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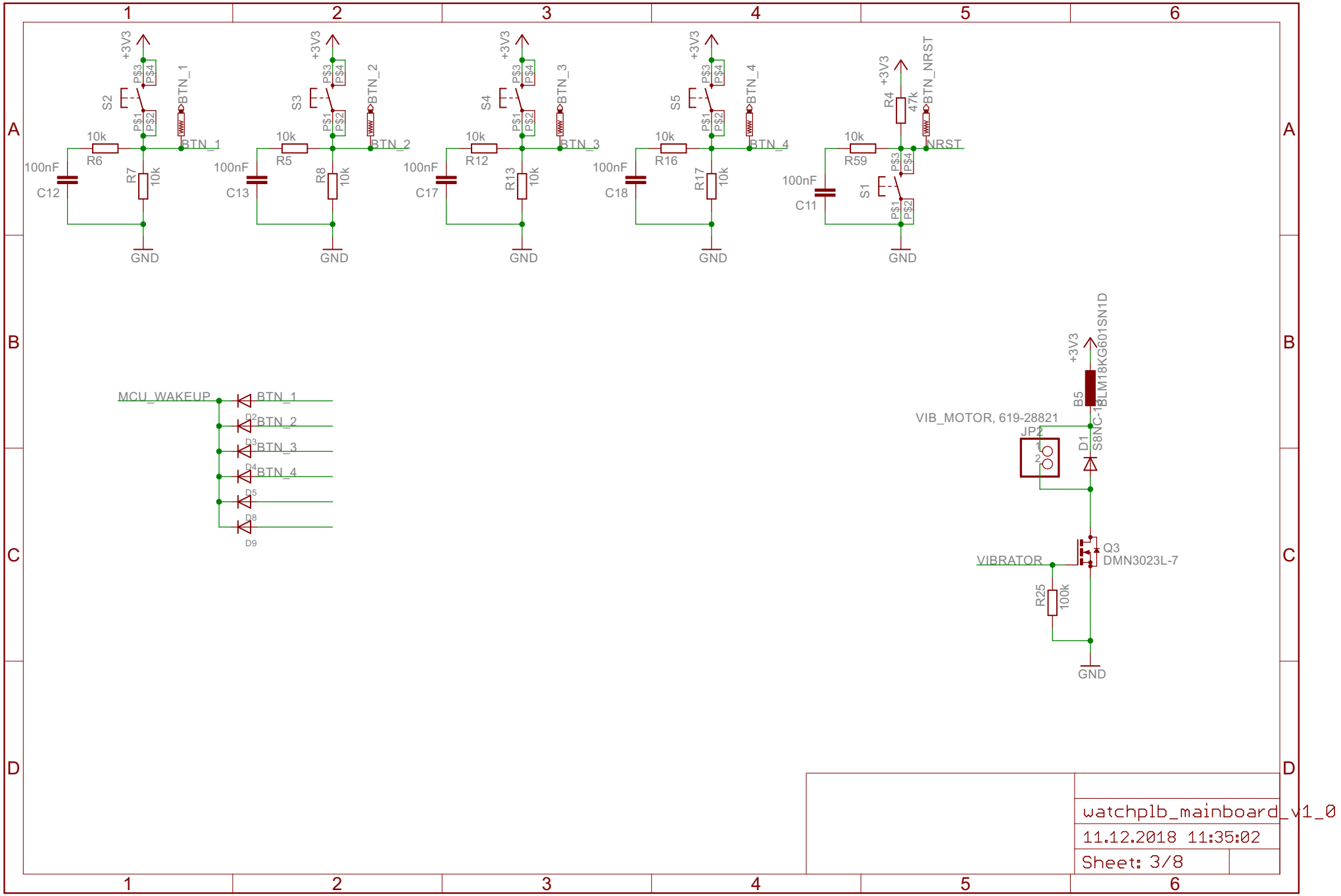
1
2
3
4
5
6
A
B
C
D
+3V3
S2
S3
S4
S5
S1
P$1
P$2
P$3
P$4
BTN_1
BTN_2
BTN_3
BTN_4
BTN_NRST
NRST
10k
R6
R5
R12
R16
R59
R7
R8
R13
R17
R4
47k
100nF
C12
C13
C17
C18
C11
GND
MCU_WAKEUP
D2
D3
D4
D5
D8
D9
VIB_MOTOR, 619-28821
JP2
B5
BLM18KG601SN1D
S8NC-1
D1
Q3
DMN3023L-7
VIBRATOR
R25
100k
watchplb_mainboard_v1_0
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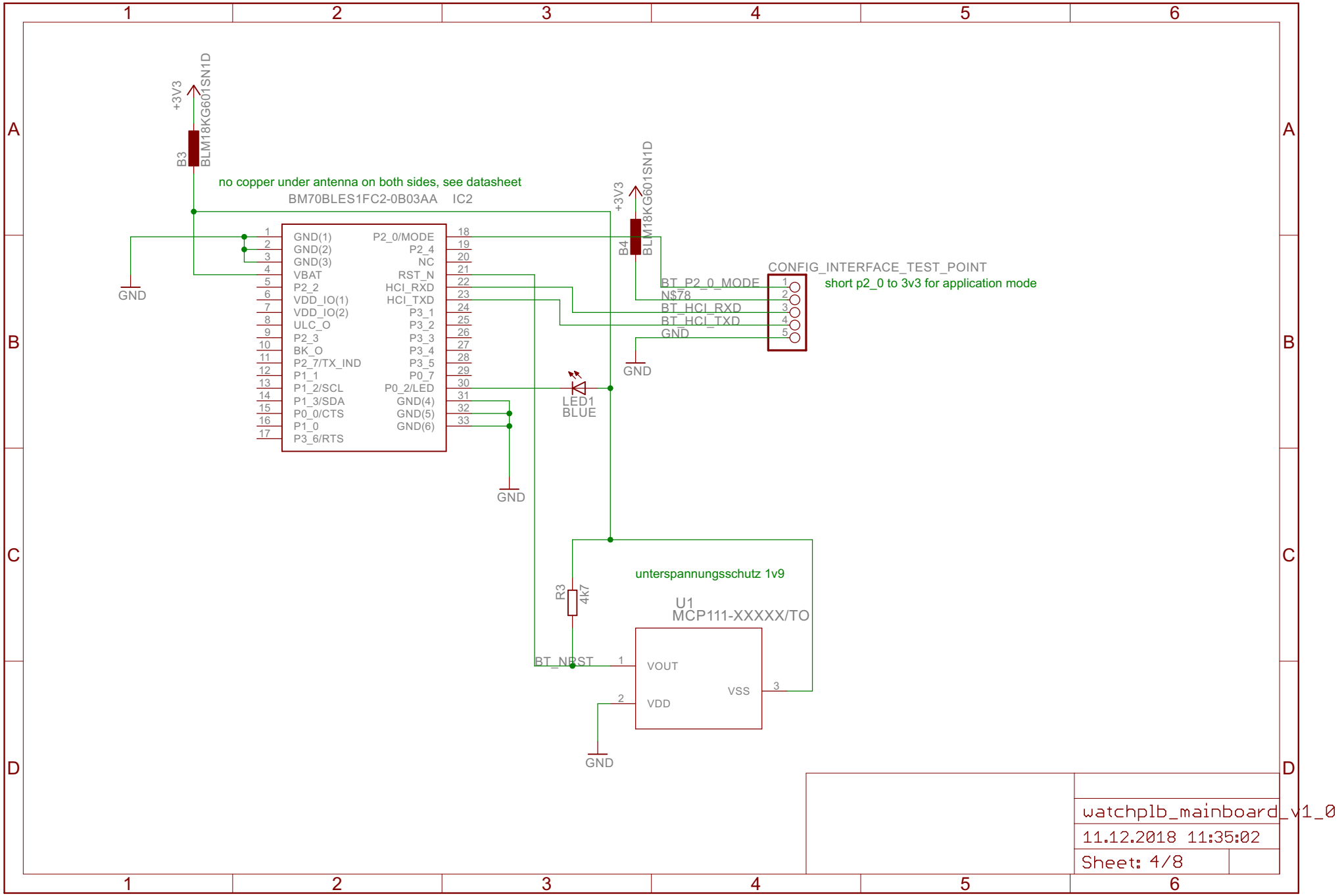
+3V3
B3
BLM18KG601SN1D
no copper under antenna on both sides, see datasheet
BM70BLES1FC2-0B03AA IC2
GND(1)
GND(2)
GND(3)
VBAT
P2_2
VDD_IO(1)
VDD_IO(2)
ULC_O
P2_3
BK_O
P2_7/TX_IND
P1_1
P1_2/SCL
P1_3/SDA
P0_0/CTS
P1_0
P3_6/RTS
P2_0/MODE
P2_4
NC
RST_N
HCI_RXD
HCI_TXD
P3_1
P3_2
P3_3
P3_4
P3_5
P0_7
P0_2/LED
GND(4)
GND(5)
GND(6)
GND
+3V3
B4
BLM18KG601SN1D
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_mainboard_v1_0
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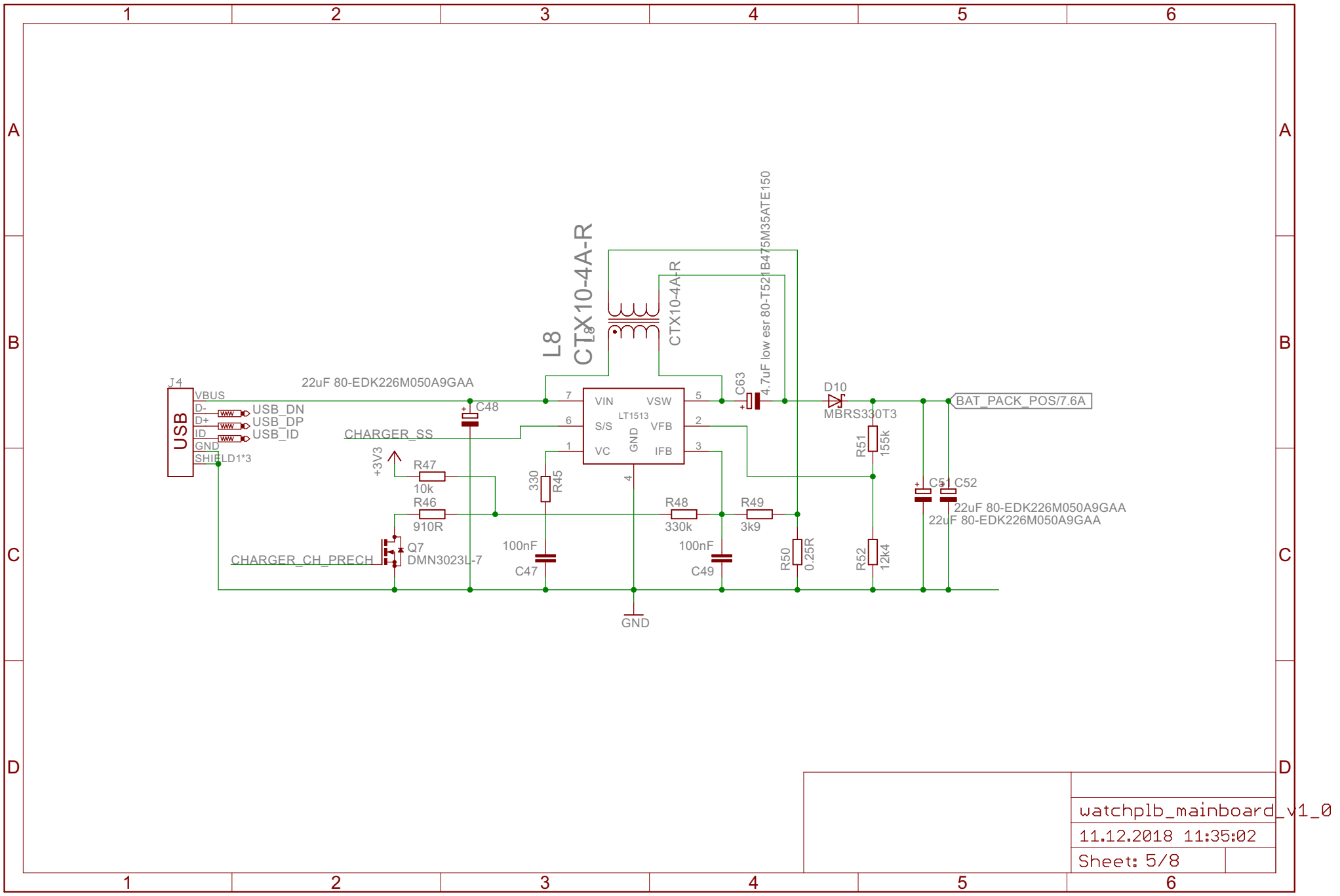
1
2
3
4
5
6
A
B
C
D
J4
USB
VBUS
D-
D+
ID
GND
SHIELD1*3
USB_DN
USB_DP
USB_ID
22uF 80-EDK226M050A9GAA
C48
CHARGER_SS
+3V3
R47
10k
R46
910R
CHARGER_CH_PRECH
Q7
DMN3023L-7
L8
CTX10-4A-R
CTX10-4A-R
4.7uF low esr 80-T521B475M35ATE150
C63
LT1513
VIN
VSW
S/S
VFB
VC
GND
IFB
330
R45
100nF
C47
R48
330k
R49
3k9
100nF
C49
R50
0.25R
D10
MBRS330T3
R51
155k
R52
12k4
BAT_PACK_POS/7.6A
C51
C52
22uF 80-EDK226M050A9GAA
22uF 80-EDK226M050A9GAA
GND
watchplb_mainboard_v1_0
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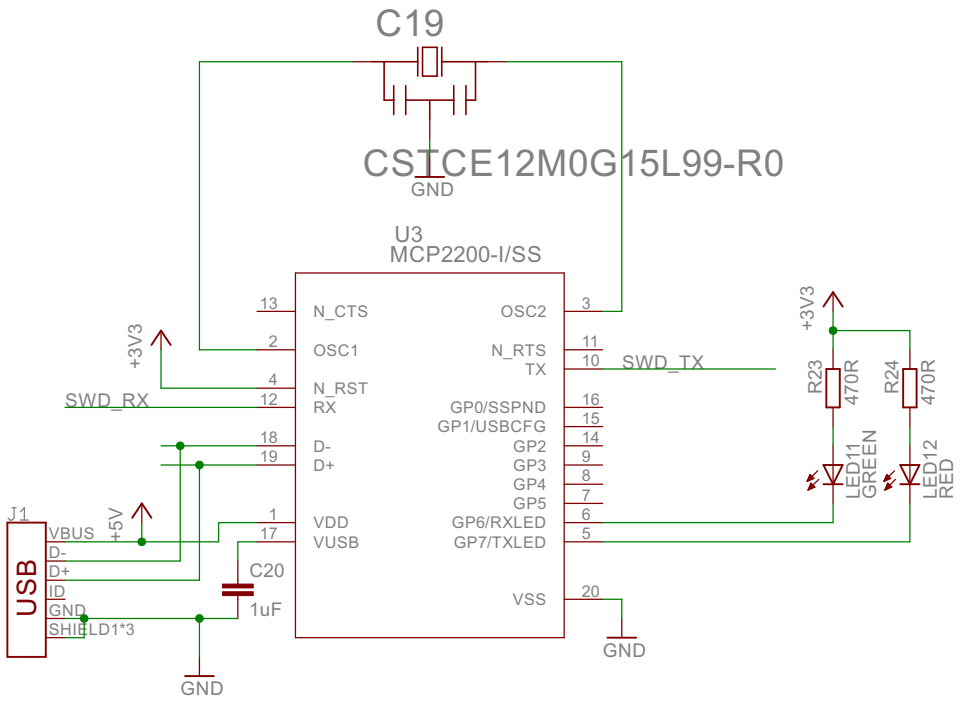
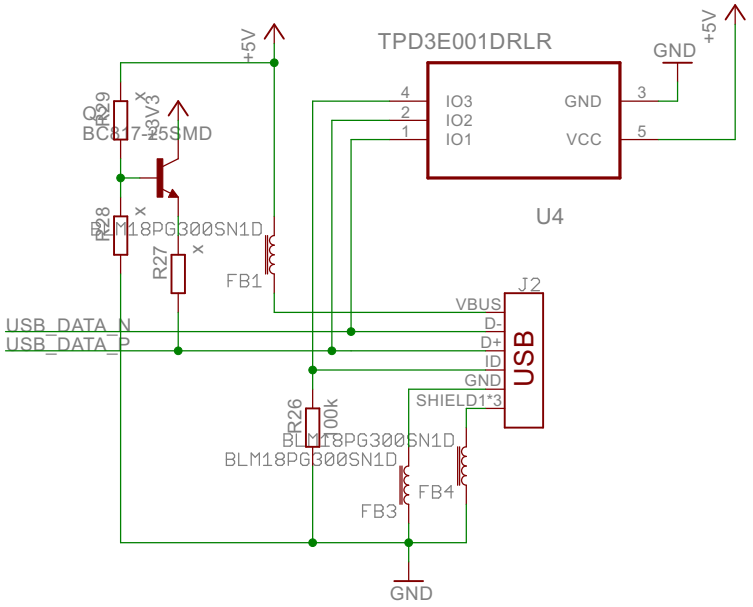
USB Virtual COM Port

mit USB-to-UART Chip



mit USB des STM



watchplb_mainboard_v1_0	
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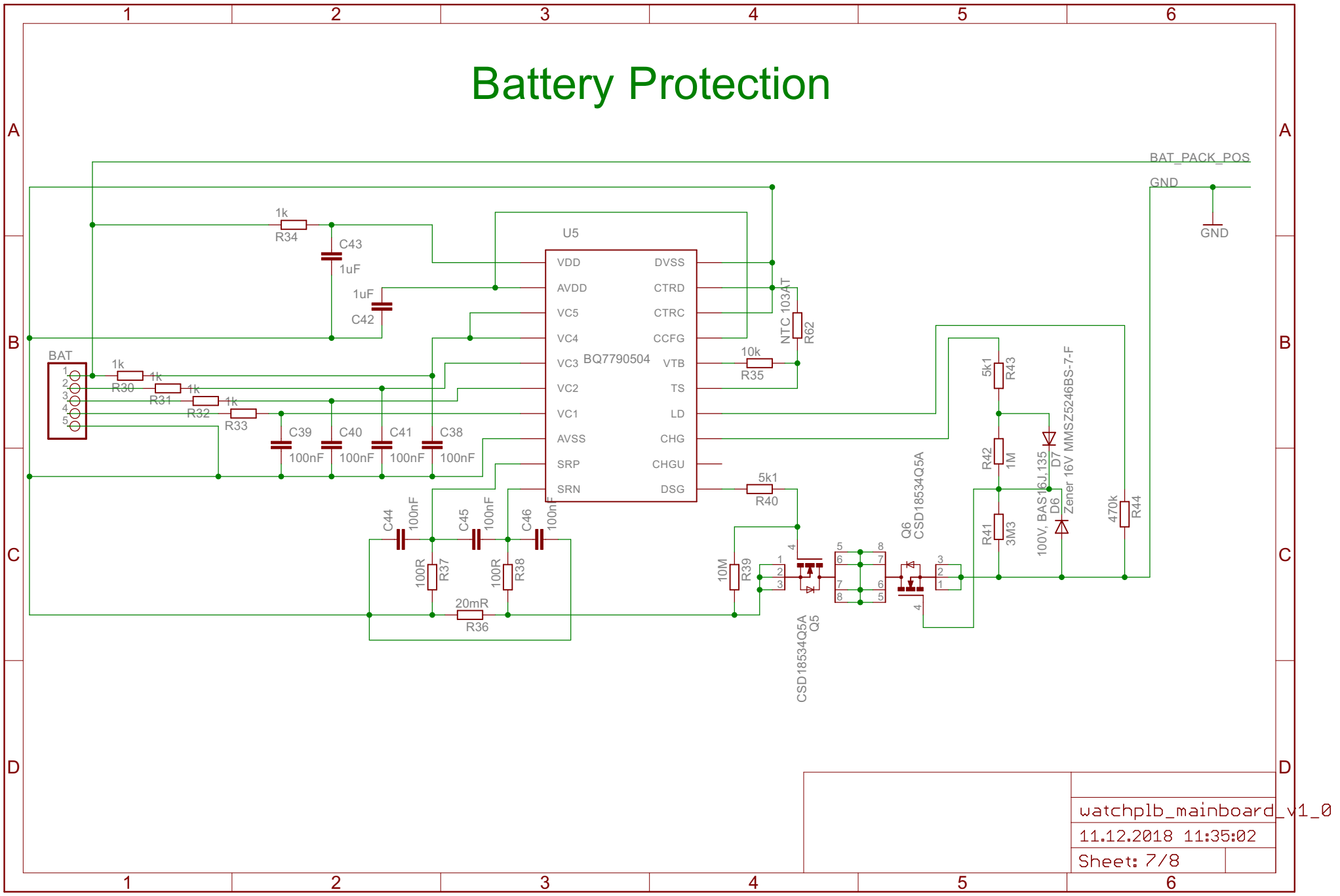
Battery Protection
BAT_PACK_POS
GND
GND
U5
BQ7790504
VDD
AVDD
VC5
VC4
VC3
VC2
VC1
AVSS
SRP
SRN
DVSS
CTRD
CTRC
CCFG
VTB
TS
LD
CHG
CHGU
DSG
BAT
R34 1k
C43 1uF
C42 1uF
R30 1k
R31 1k
R32 1k
R33 1k
C39 100nF
C40 100nF
C41 100nF
C38 100nF
NTC 103AT
R62
R35 10k
R40 5k1
C44 100nF
C45 100nF
C46 100nF
R37 100R
R38 100R
R36 20mR
R39 10M
Q5 CSD18534Q5A
Q6 CSD18534Q5A
R43 5k1
R42 1M
R41 3M3
D6 100V, BAS16J,135
D7 Zener 16V MMSZ5246BS-7-F
R44 470k
watchplb_mainboard_v1_0
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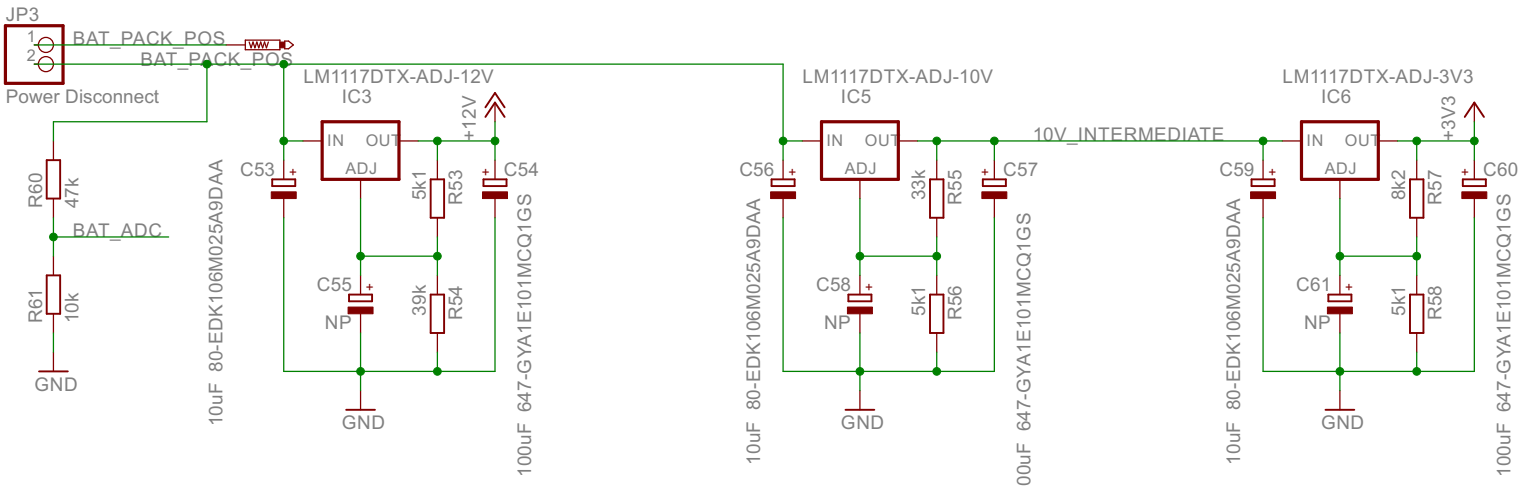
Linear Voltage Regulators



watchplb_mainboard_v1_0
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