

[illegible]

USB Virtual COM Port

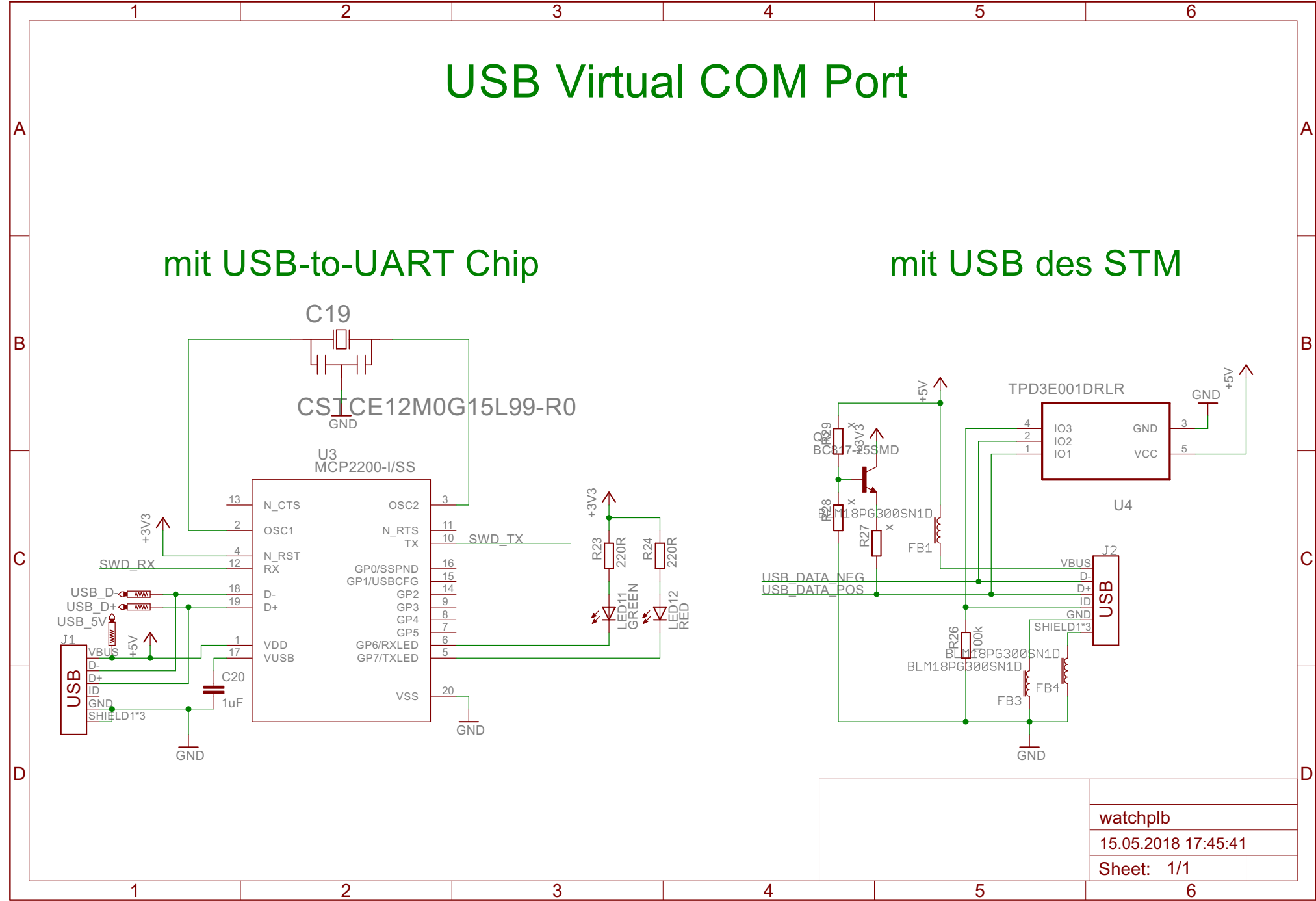
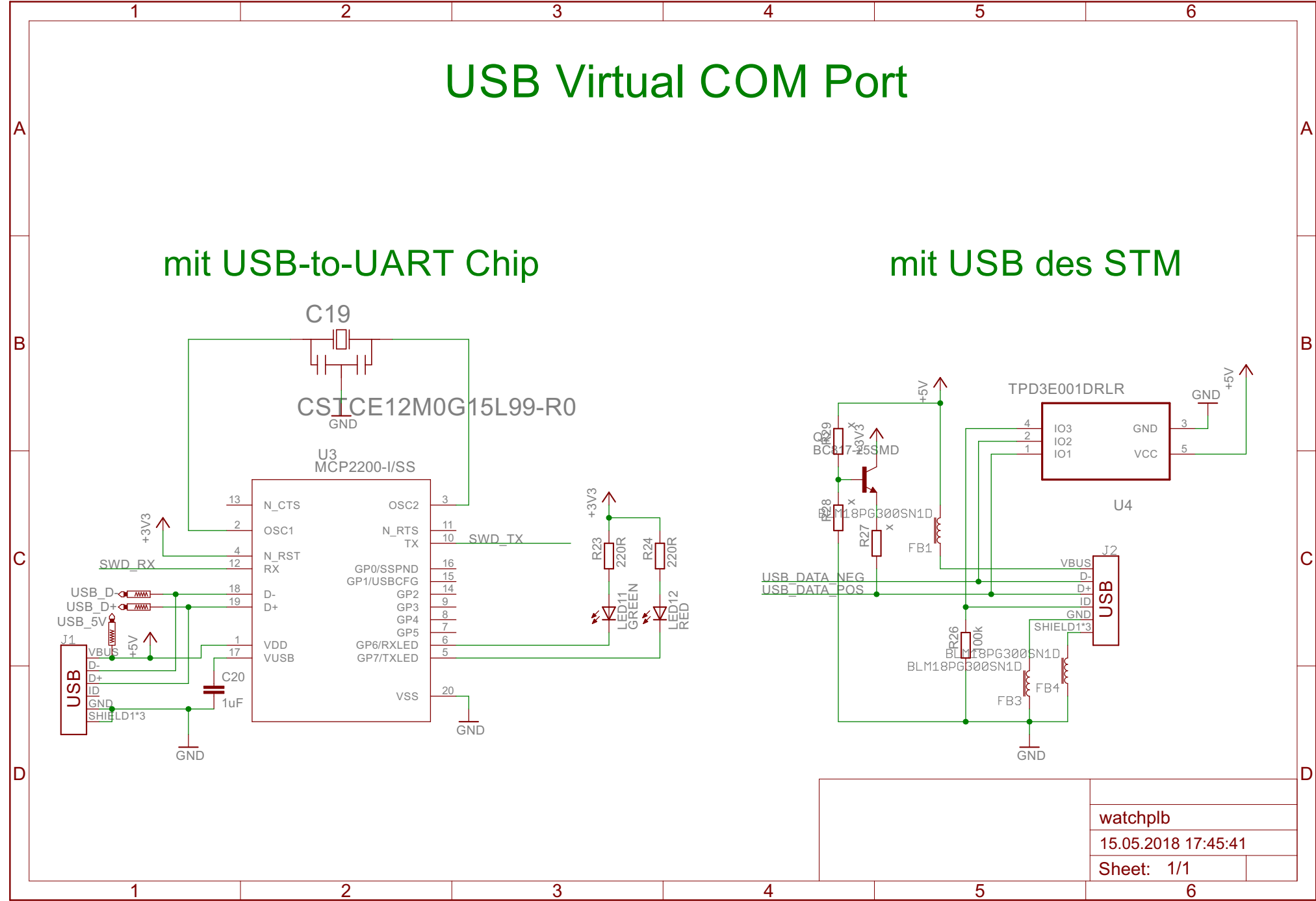
mit USB-to-UART Chip

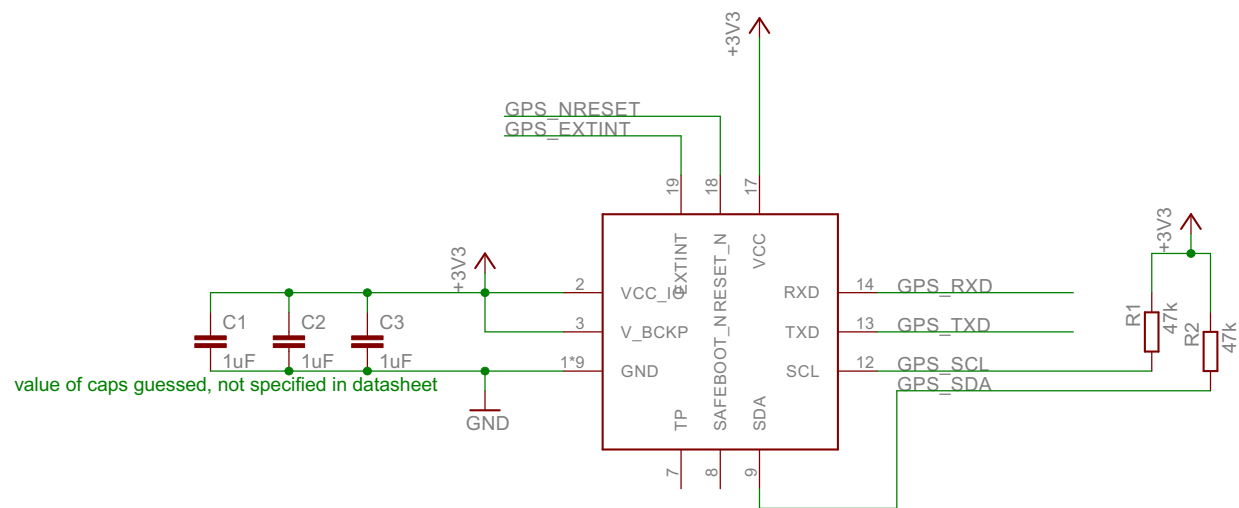
This circuit diagram shows a USB-to-UART chip (U3, MCP2200-I/SS) interfaced with a USB connector (J1) and a 3.3V UART interface. The USB connector provides VBUS (+5V), D-, D+, and GND. The chip's VDD is connected to VBUS, and VUSB is connected to GND. A 1µF capacitor (C20) is connected between VDD and GND. The chip's N_CTS, N_RST, and N_RTS pins are connected to the 3.3V supply. The chip's OSC1 and OSC2 pins are connected to a 12MHz crystal (C19). The chip's GP0/SSPND, GP1/USBCFG, GP2, GP3, GP4, GP5, GP6/RXLED, and GP7/TXLED pins are connected to the 3.3V supply. The chip's SWD_RX and SWD_TX pins are connected to the 3.3V supply. The chip's VSS pin is connected to GND. The chip's TX pin is connected to a green LED (LED11) through a 220Ω resistor (R23). The chip's RX pin is connected to a red LED (LED12) through a 220Ω resistor (R24).

mit USB des STM

This circuit diagram shows the STM32 USB peripheral interfaced with a USB connector (J2) and a 3.3V UART interface. The USB connector provides VBUS (+5V), D-, D+, and GND. The STM32's VBUS is connected to VBUS, and VUSB is connected to GND. The STM32's ID pin is connected to GND. The STM32's D- and D+ pins are connected to the 3.3V supply. The STM32's TX pin is connected to a green LED (LED11) through a 220Ω resistor (R23). The STM32's RX pin is connected to a red LED (LED12) through a 220Ω resistor (R24). The STM32's SWD_RX and SWD_TX pins are connected to the 3.3V supply. The STM32's VSS pin is connected to GND. The STM32's TX pin is connected to a green LED (LED11) through a 220Ω resistor (R23). The STM32's RX pin is connected to a red LED (LED12) through a 220Ω resistor (R24).

watchplb
15.05.2018 17:45:41
Sheet: 1/1

[illegible]



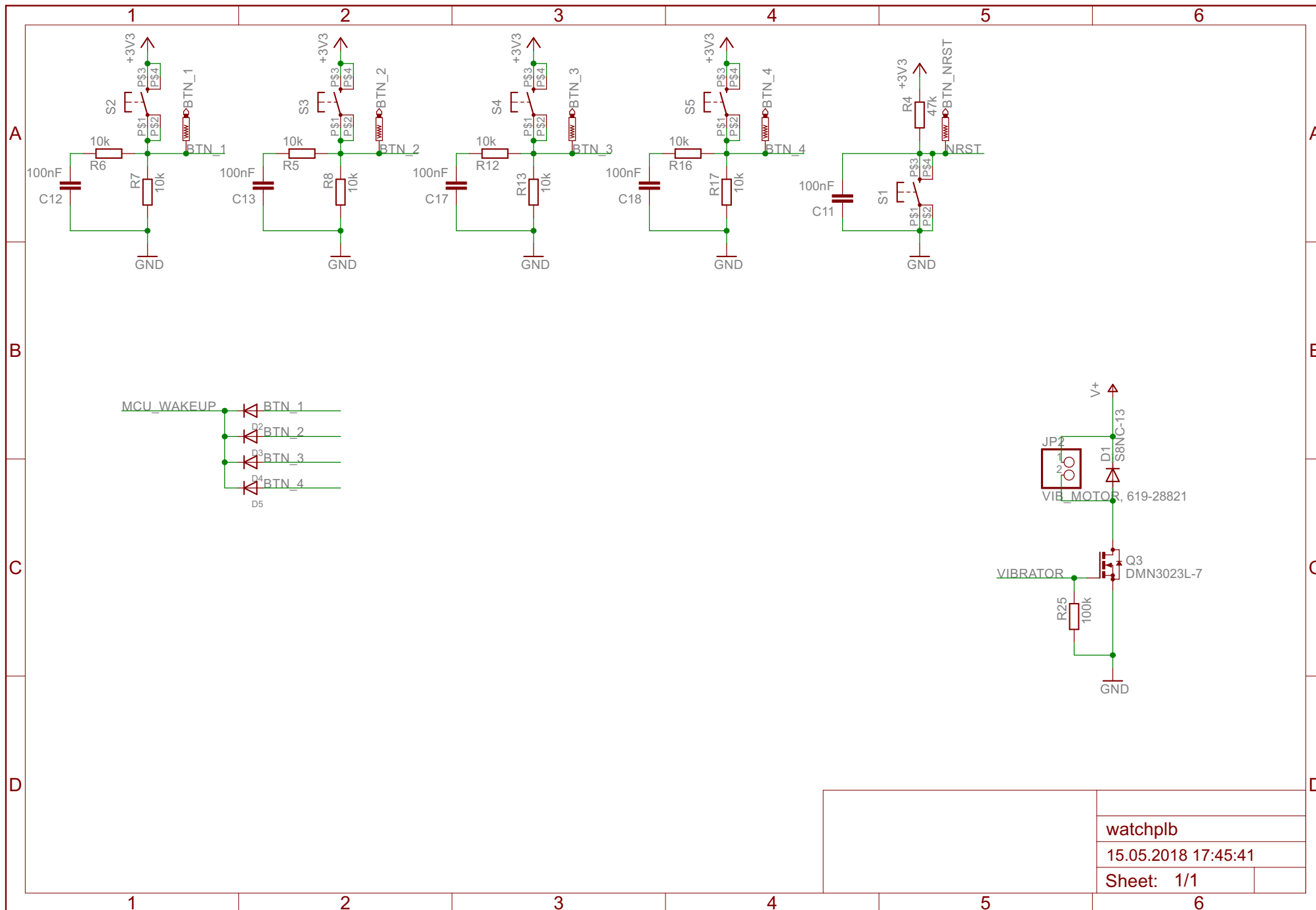
value of caps guessed, not specified in datasheet

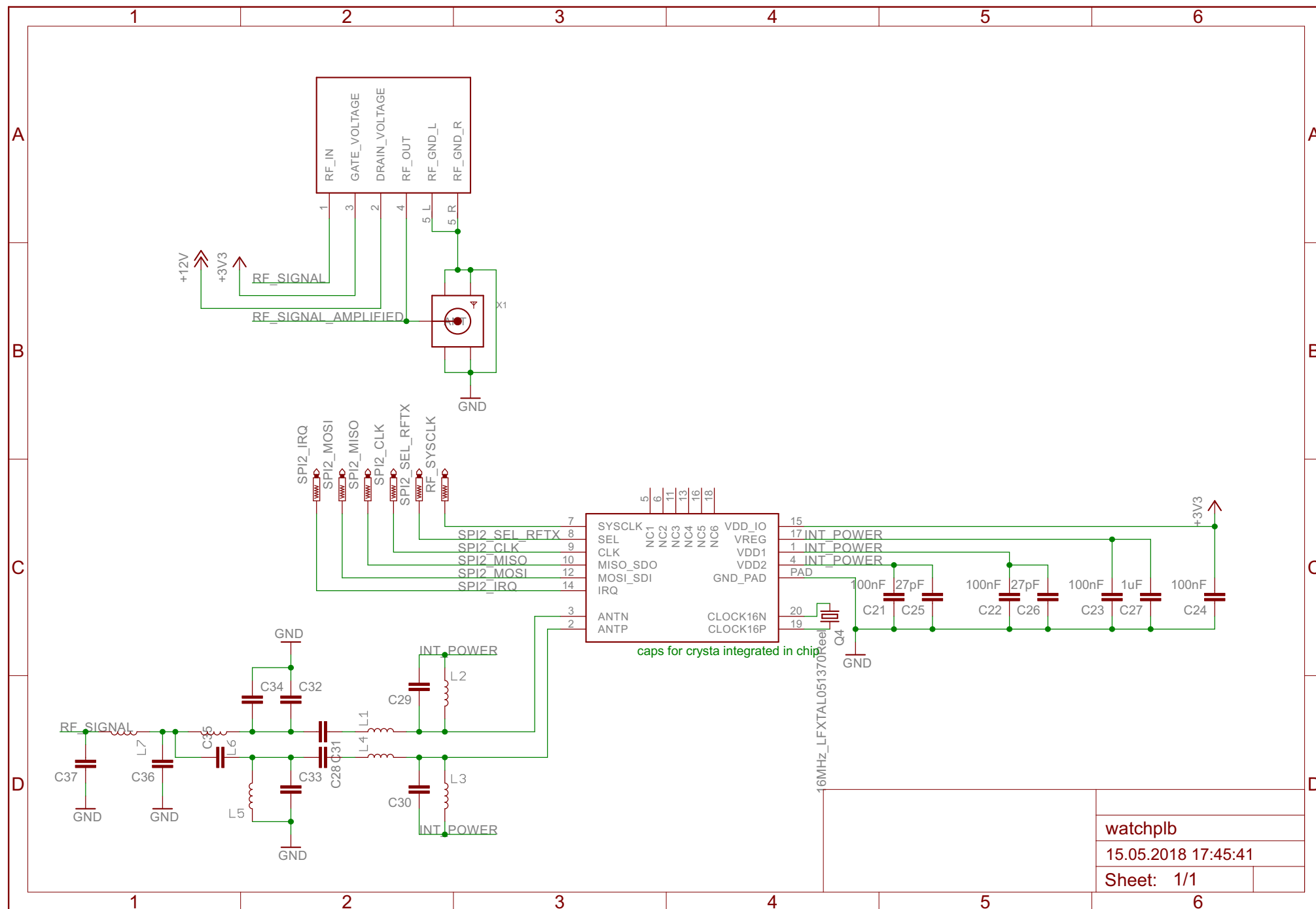
Module alone on this side, check Hardware Integration manual for Layout Suggestions

watchplb

15.05.2018 17:45:41

Sheet: 1/1





1	2	3	4	5	6
Power Supply goes here ein/ausschalter direkt nach batterie					
A					A
B					B
C					C
D					D
1	2	3	4	5	6
					watchplb
					15.05.2018 17:45:41
				Sheet: 1/1	