

1 2 3 4 5 6

A

B

C

D

# USB Virtual COM Port

## mit USB-to-UART Chip

C19

CSTCE12M0G15L99-R0

U3  
MCP2200-I/SS

13 N\_CTS 3 OSC2  
2 OSC1 11 N\_RTS  
4 N\_RST 10 TX  
12 RX  
18 USB\_D- 16 GP0/SSPND  
19 USB\_D+ 15 GP1/USBCFG  
17 VDD 14 GP2  
VUSB 13 GP3  
1 GP4  
5 GP5  
6 GP6/RXLED  
7 GP7/TXLED  
20 VSS  
GND

+3V3

SWD\_RX

USB\_D-  
USB\_D+  
USB\_5V

J1

VBUS  
D-  
D+  
ID  
GND  
SHIELD1\*3

C20  
1uF

GND

+3V3

R23 220R  
LED11 GREEN  
R24 220R  
LED12 RED

## mit USB des STM

TPD3E001DRLR

U4

4 IO3  
2 IO2  
1 IO1  
GND  
VCC  
3  
5

+5V

GND

VBUS  
D-  
D+  
ID  
GND  
SHIELD1\*3

J2

USB

BLM18PG300SN1D  
FB1  
R28 180R  
R29 180R  
R27 180R  
R26 100k  
FB3  
FB4

BLM18PG300SN1D  
BLM18PG300SN1D

GND

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1 2 3 4 5 6

123456

A

B

C

D

# USB Virtual COM Port

## mit USB-to-UART Chip

C19

CSTCE12M0G15L99-R0

U3  
MCP2200-I/SS

13 N\_CTS 3 OSC2  
2 OSC1 11 N\_RTS  
4 N\_RST 10 TX  
12 RX  
18 D-  
19 D+  
1 VDD  
17 VUSB  
20 VSS

GP0/SSPND  
GP1/USBCFG  
GP2  
GP3  
GP4  
GP5  
GP6/RXLED  
GP7/TXLED

SWD\_RX  
+3V3  
USB\_D-  
USB\_D+  
USB\_5V  
VBUS  
D-  
D+  
ID  
GND  
SHIELD1\*3

LED11 GREEN  
LED12 RED  
R23 220R  
R24 220R  
+3V3  
GND

## mit USB des STM

TPD3E001DRLR

U4

4 IO3  
2 IO2  
1 IO1  
3 GND  
5 VCC

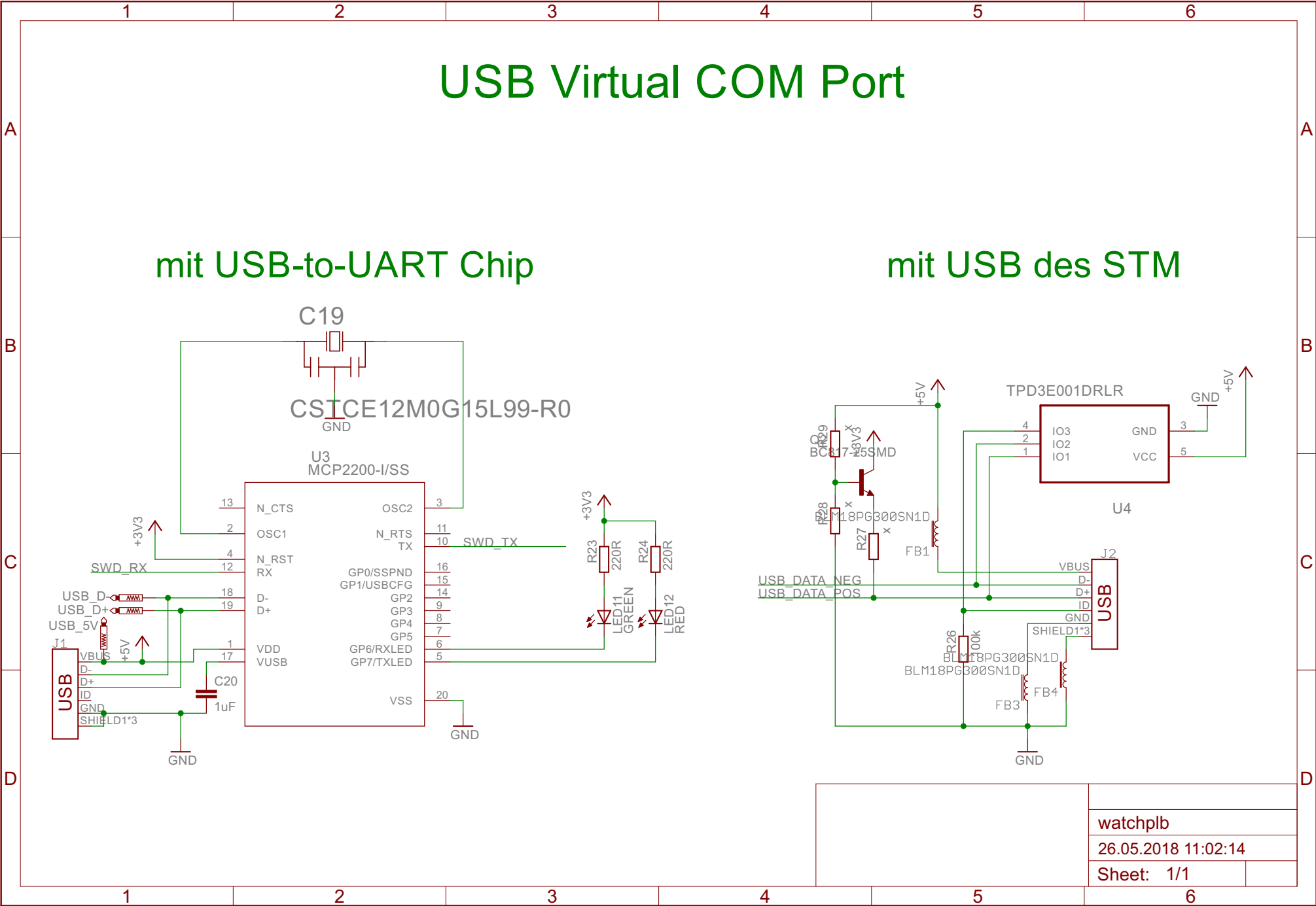
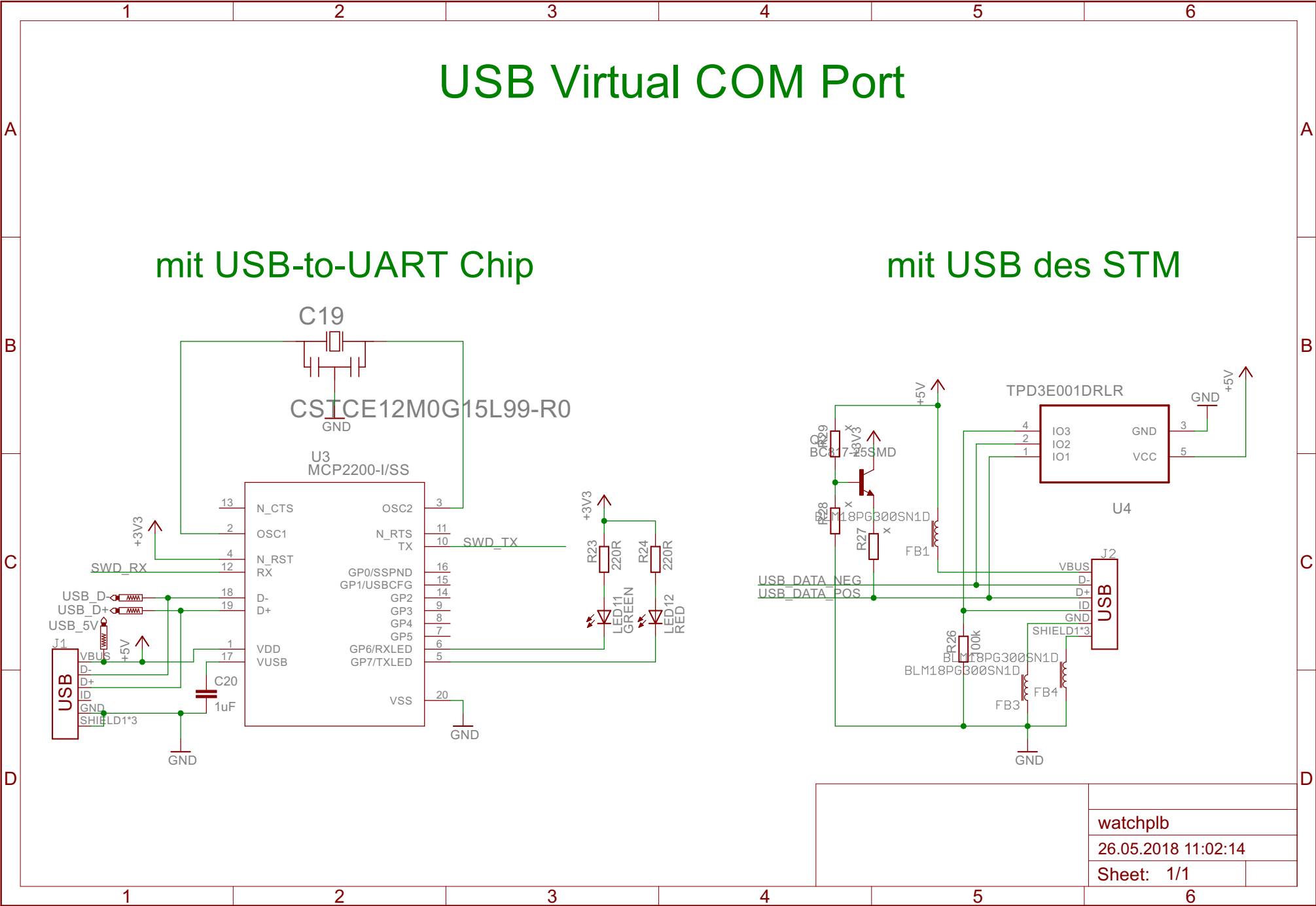
IO3  
IO2  
IO1  
GND  
VCC

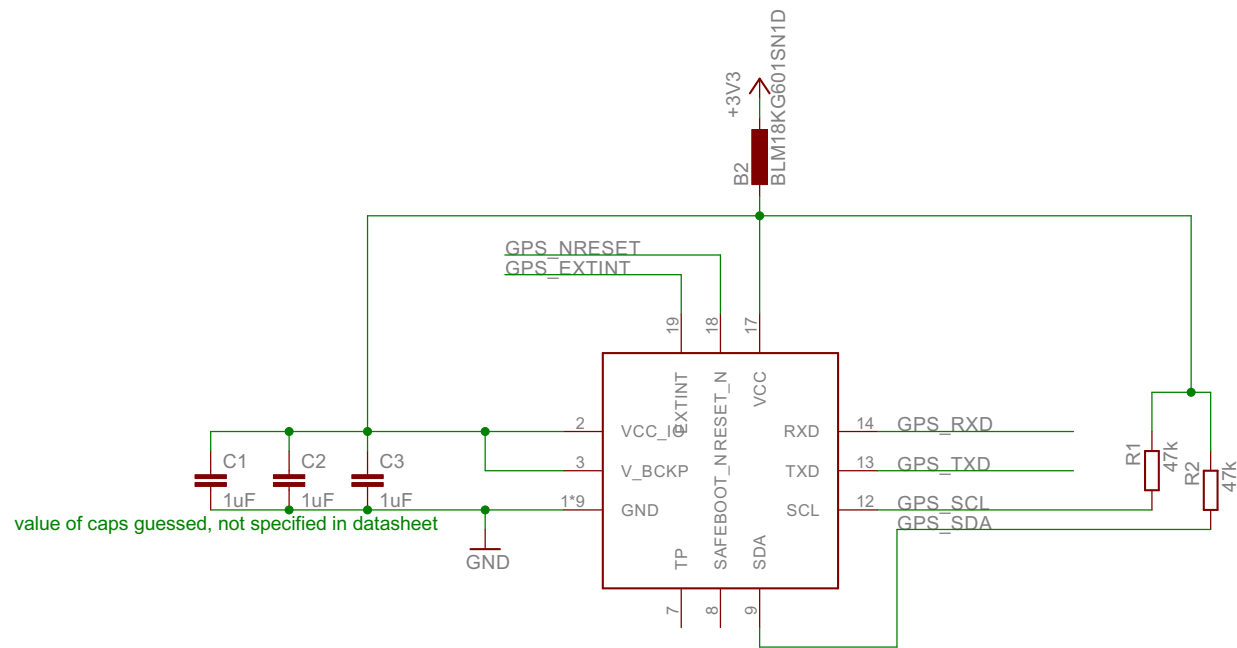
VBUS  
D-  
D+  
ID  
GND  
SHIELD1\*3

LED11 GREEN  
LED12 RED  
R23 220R  
R24 220R  
+3V3  
GND

watchplb	
26.05.2018 11:02:14	
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123456

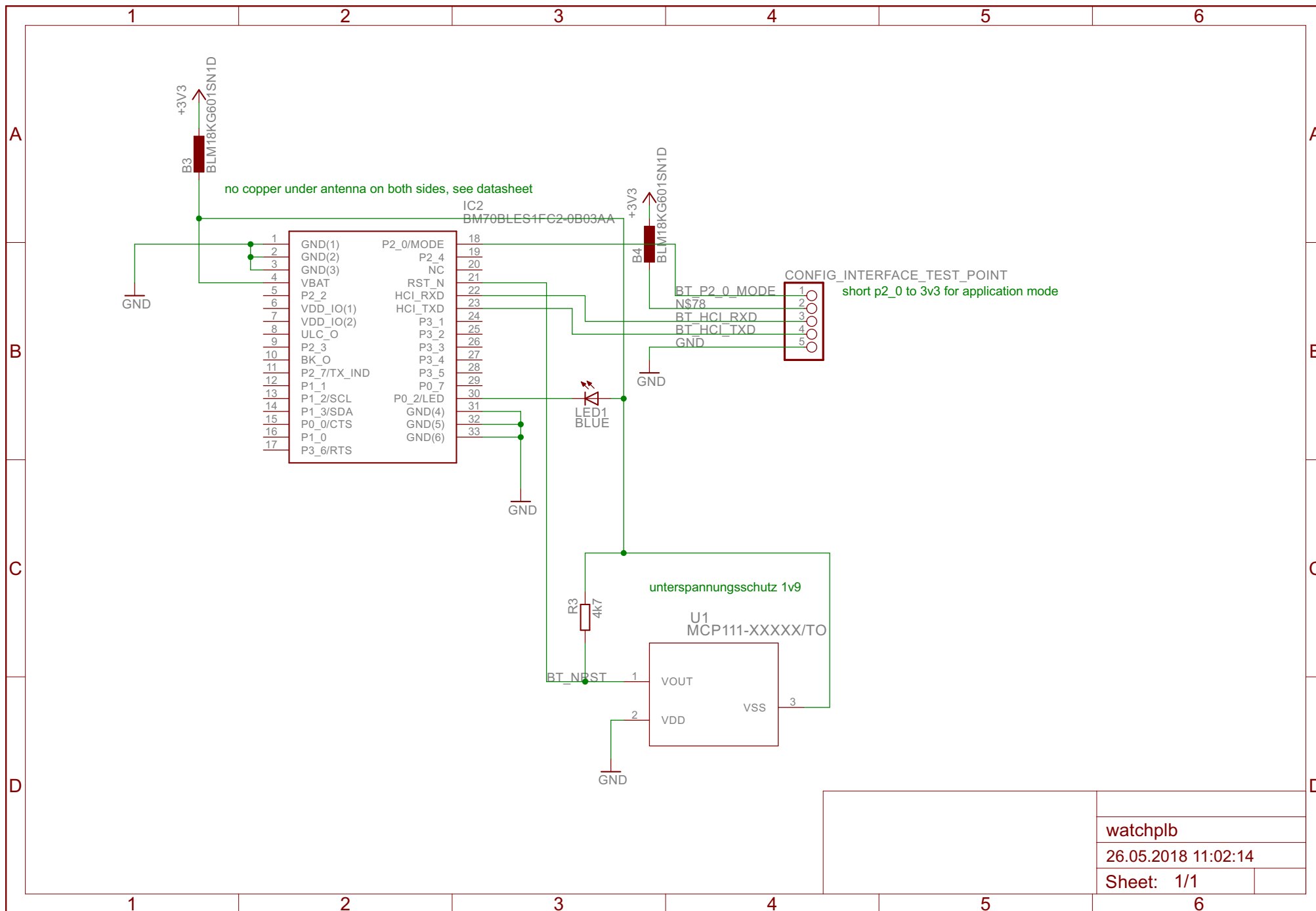
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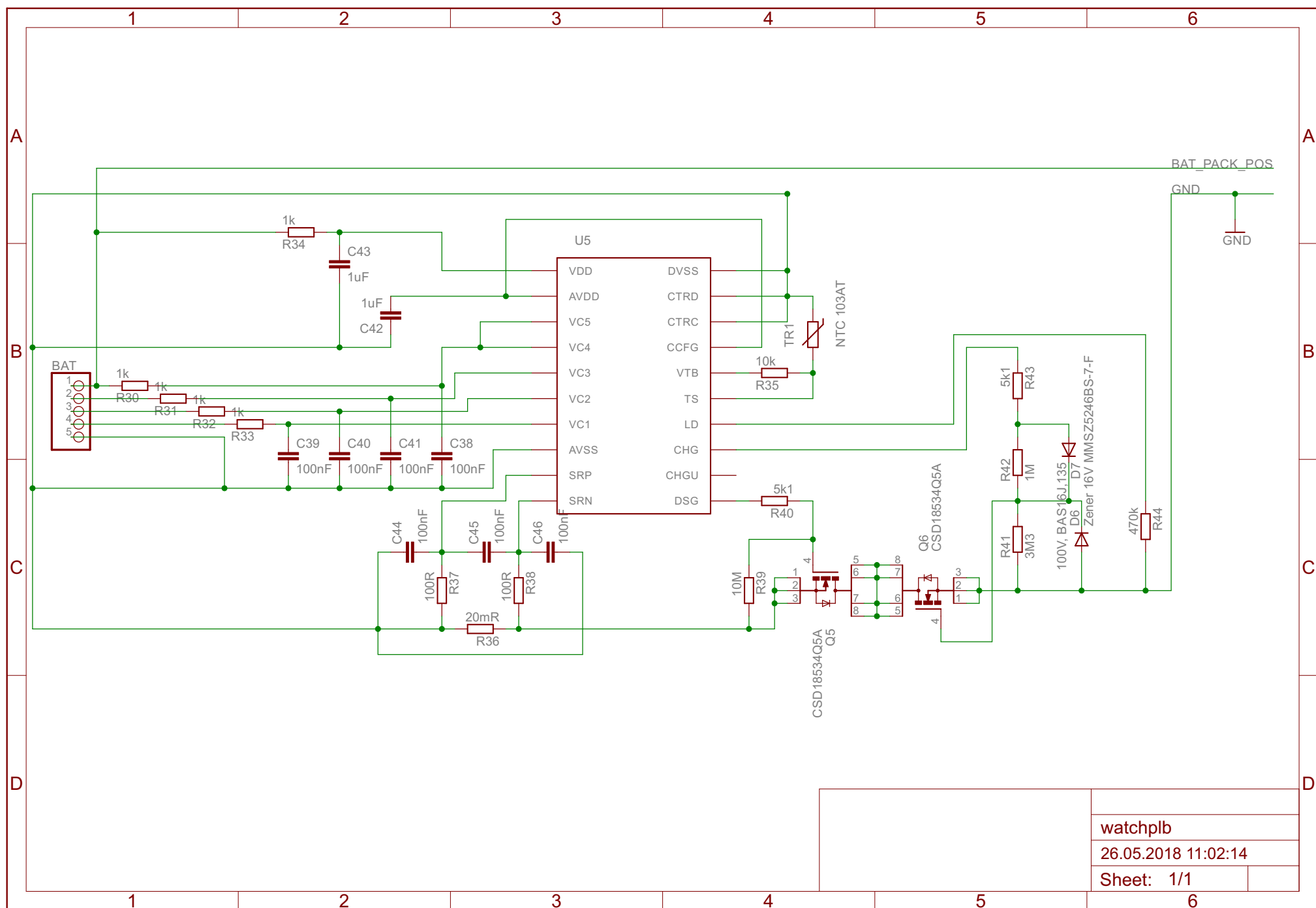


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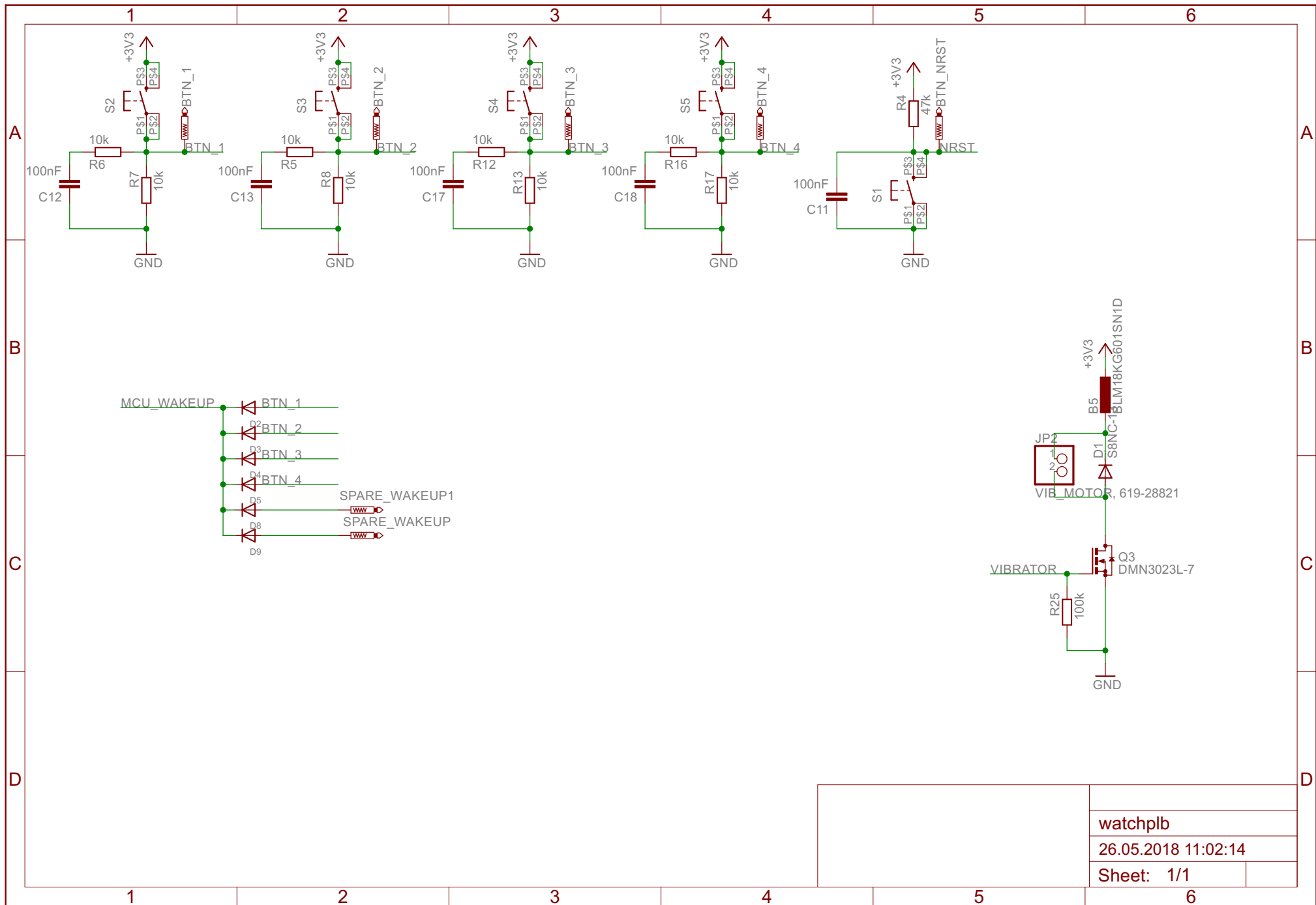


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