

NUCLEO64 ext-SMPS

MB1319

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U_mb1319_Top
mb1319_Top.SchDoc

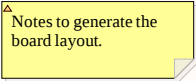


Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.



OPEN PLATFORM LICENSE AGREEMENT

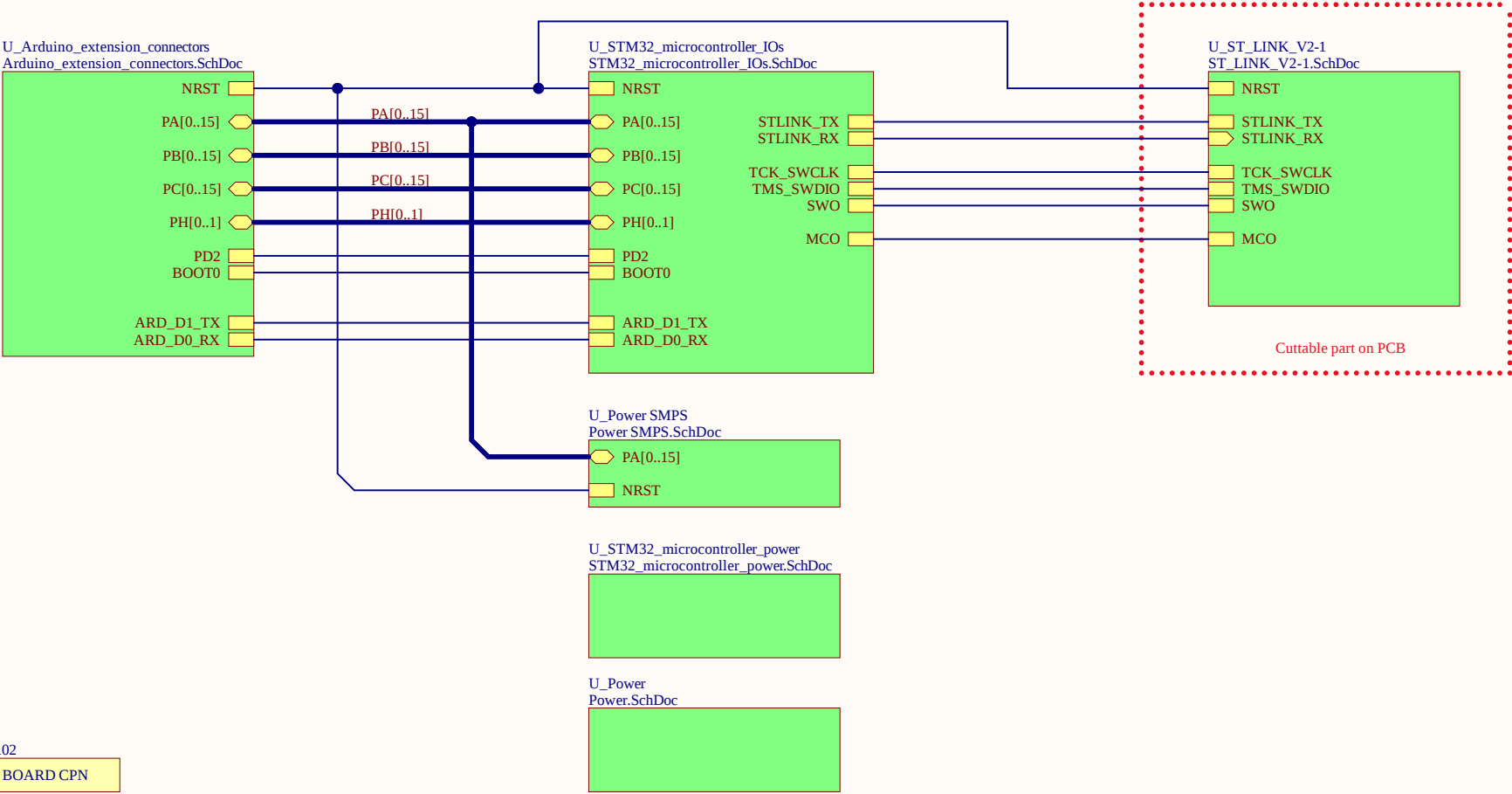
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Title: Project overview		
Project: NUCLEO64 ext-SMPS		
Variant: L452RE_P		
Revision: C-02		Reference: MB1319
Size: A4	Date: 10-MAY-2022	Sheet: 1 of 8





HW101
STICKER BOARD
Sticker board

HW102
BOARD CPN
NUCLEO-L452RE-P

HW104
LOGO NUCLEO

HW105
LOGO ST

HW106
LOGO CE

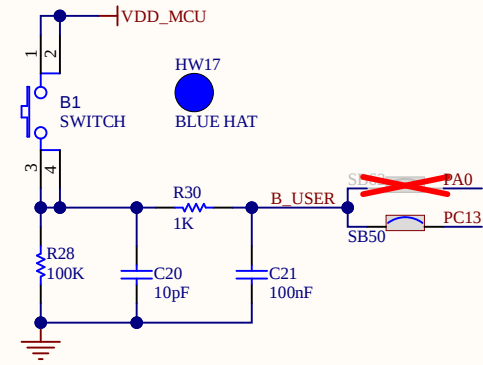
HW107
LOGO ESD

HW108
LOGO ROHS

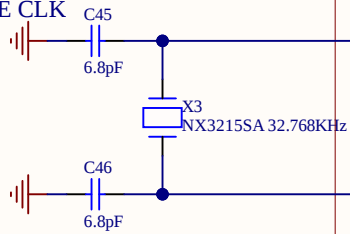
HW109
LOGO STM32



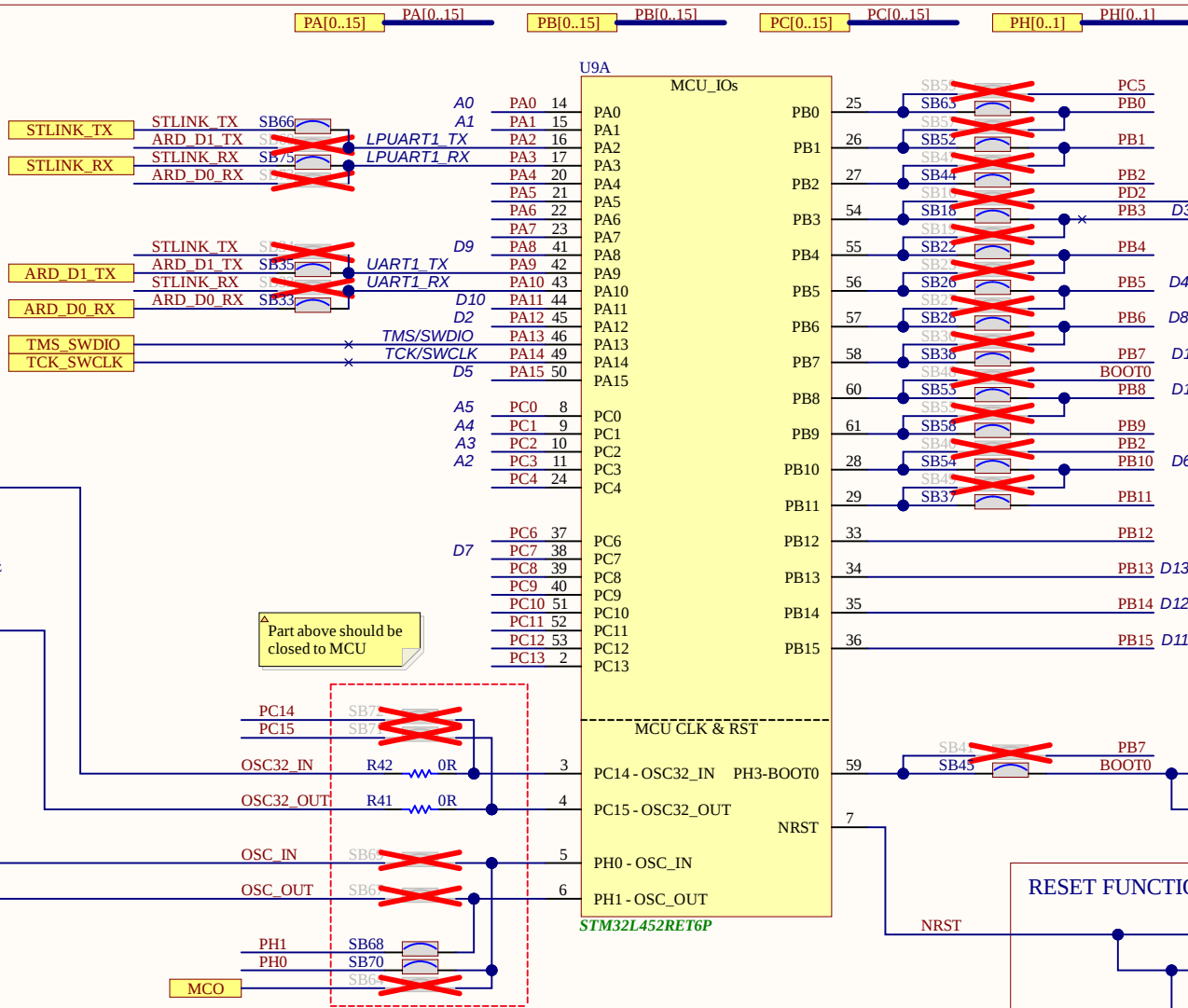
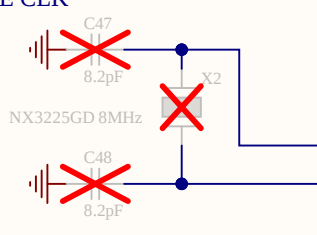
USER BUTTON



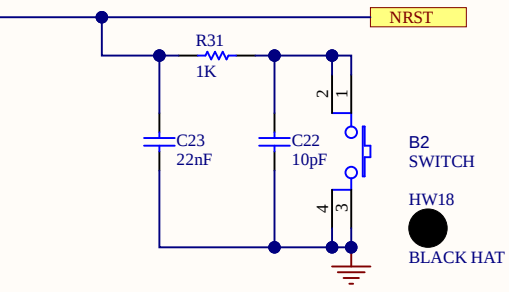
EXTERNAL LSE CLK



EXTERNAL HSE CLK



RESET FUNCTION

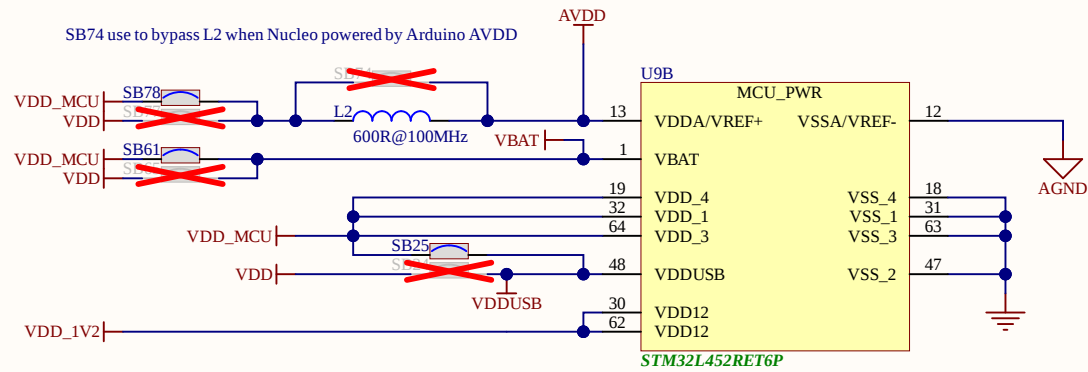


For IC compatible config 1:
Pin25: PB0: SB63
Pin26: PB1: SB52
Pin27: PB2: SB44
Pin54: PB3: SB18
Pin55: PB4: SB22
Pin56: PB5: SB26
Pin57: PB6: SB28
Pin58: PB7: SB38
Pin60: PB8: SB53
Pin61: PB9: SB58
Pin28: PB10: SB54
Pin29: PB11: SB37
Pin59: PH3-BOOT0: SB45

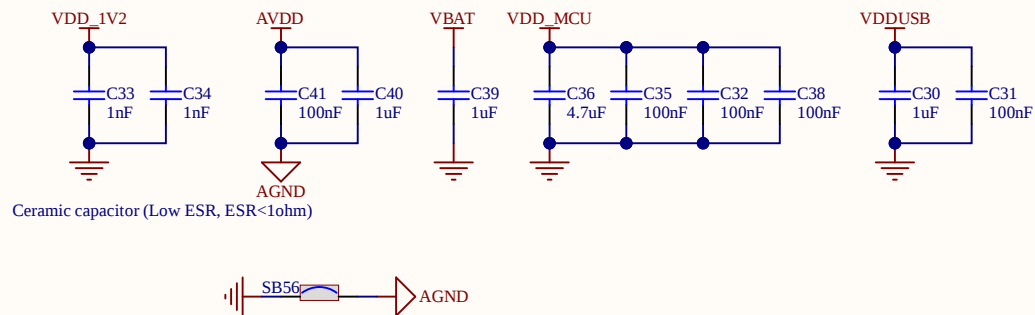
For IC compatible config 2:
Pin25: PC5: SB59
Pin26: PB0: SB57
Pin27: PB1: SB47
Pin54: PD2: SB16
Pin55: PB3: SB19
Pin56: PB4: SB23
Pin57: PB5: SB27
Pin58: PB6: SB36
Pin60: PH3-BOOT0: SB48
Pin61: PB8: SB55
Pin28: PB2: SB40
Pin29: PB10: SB49
Pin59: PB7: SB41



MCU PWR SUPPLIES



DECAPS



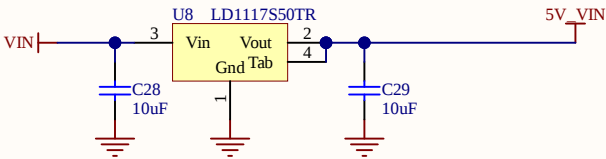
Title: STM32 microcontroller Power		
Project: NUCLEO64 ext-SMPS		
Variant: L452RE_P		
Revision: C-02		Reference: MB1319
Size: A4	Date: 10-MAY-2022	Sheet: 4 of 8



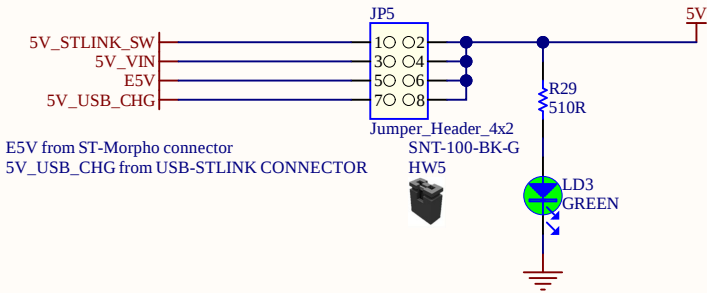
Default



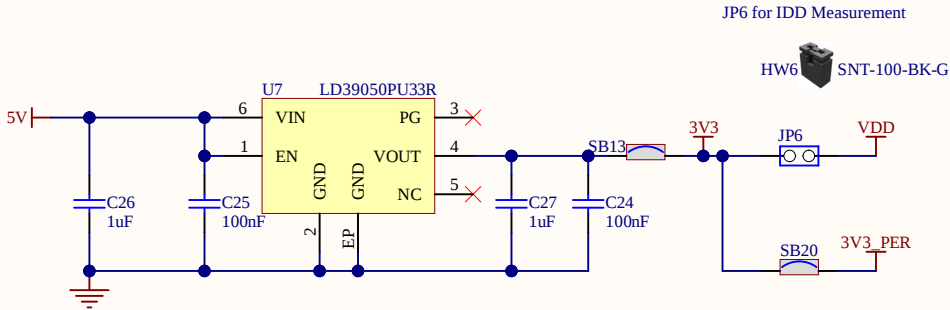
VIN / 5V PWR



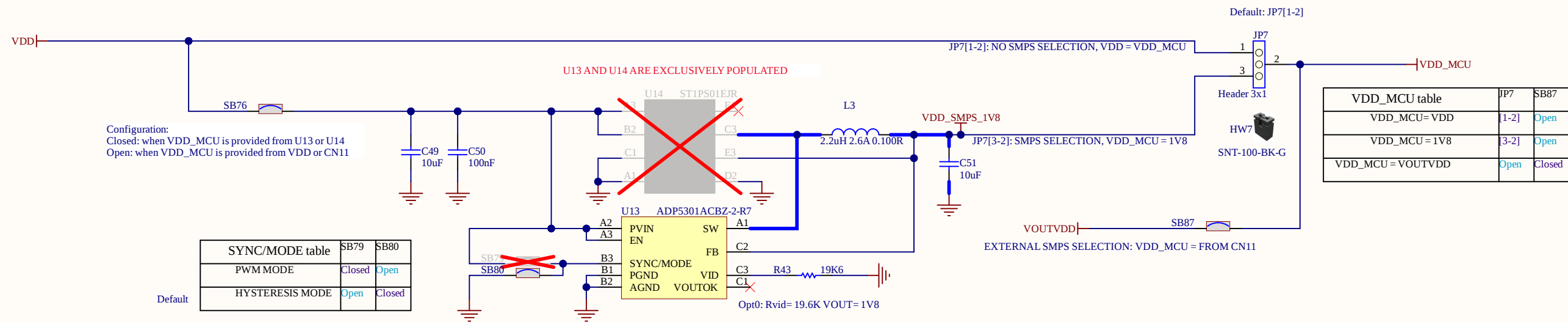
5V PWR SELECTION



3V3 PWR

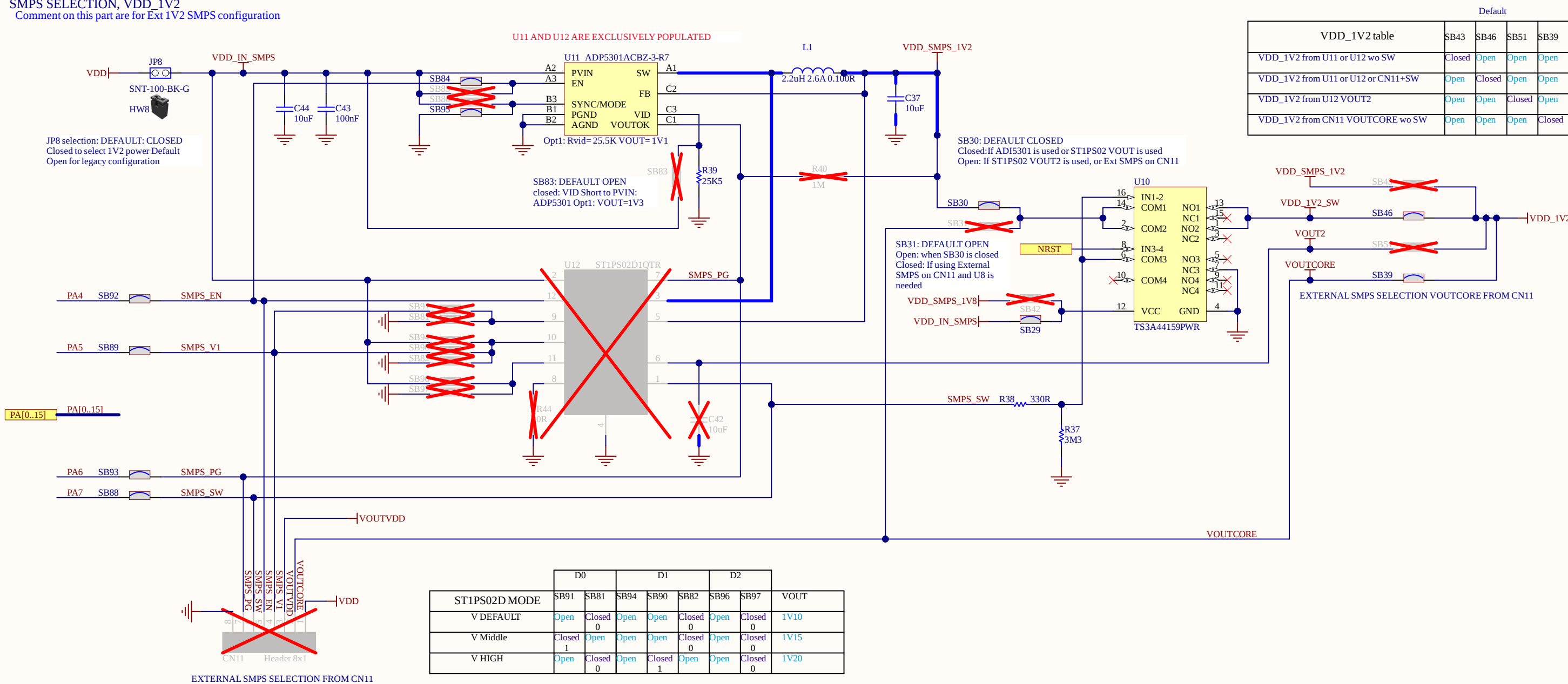


VDD_MCU_SELECTION

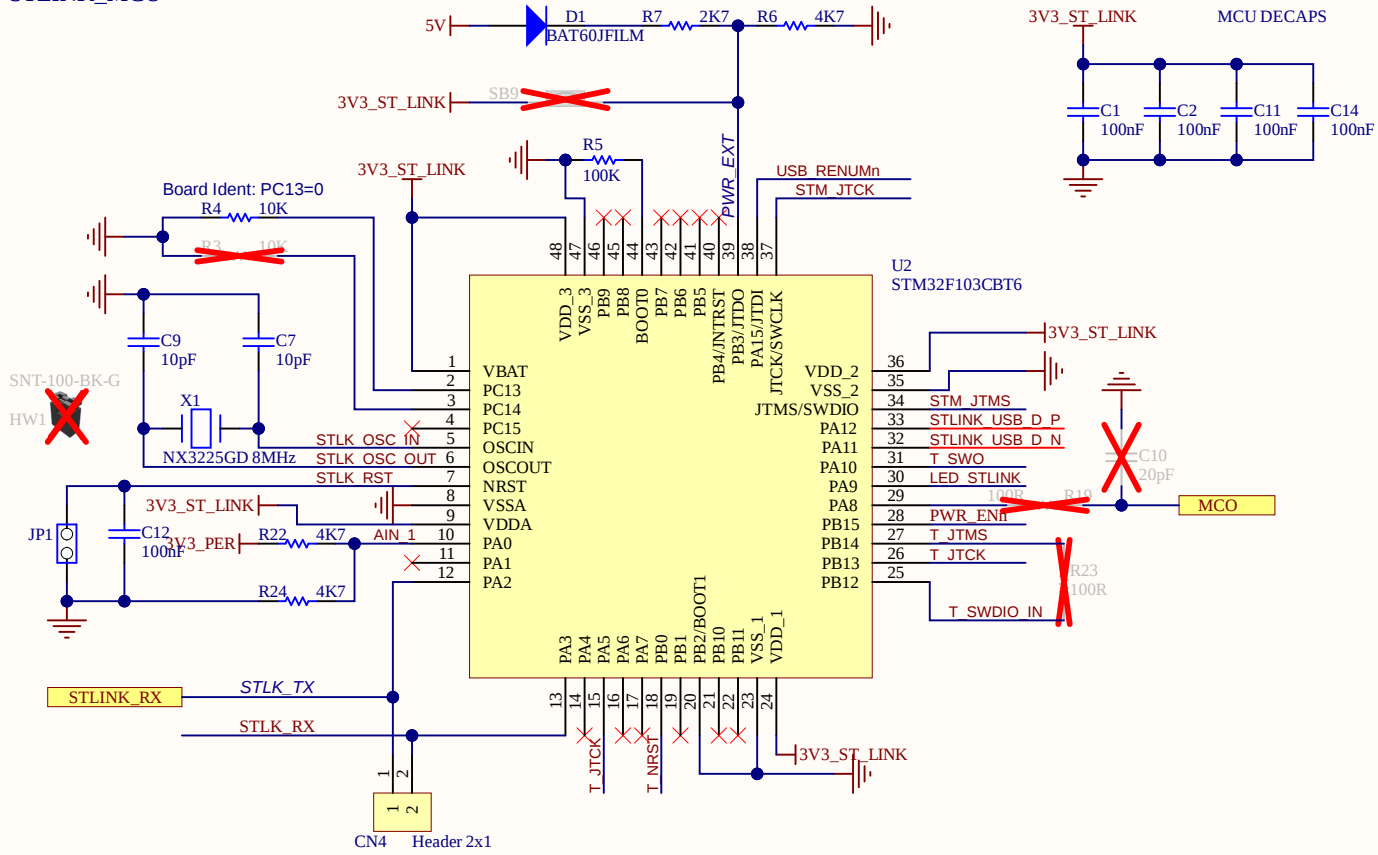


SMPS SELECTION, VDD_1V2

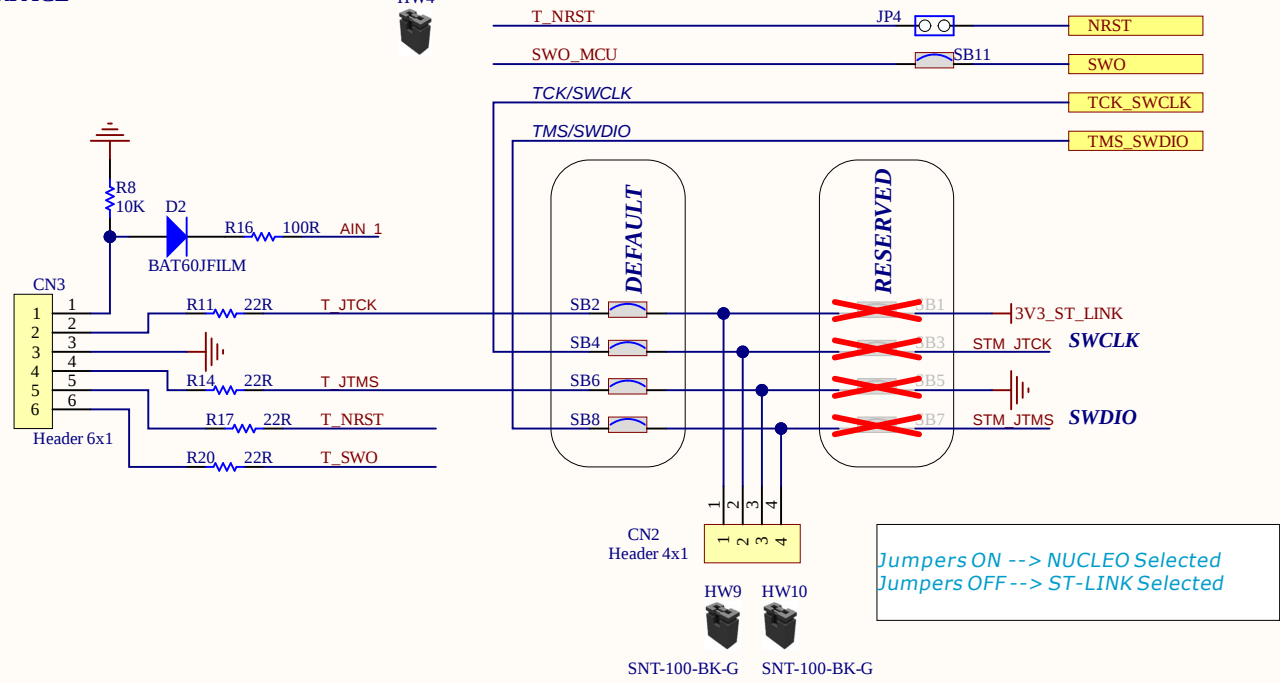
Comment on this part are for Ext 1V2 SMPS configuration



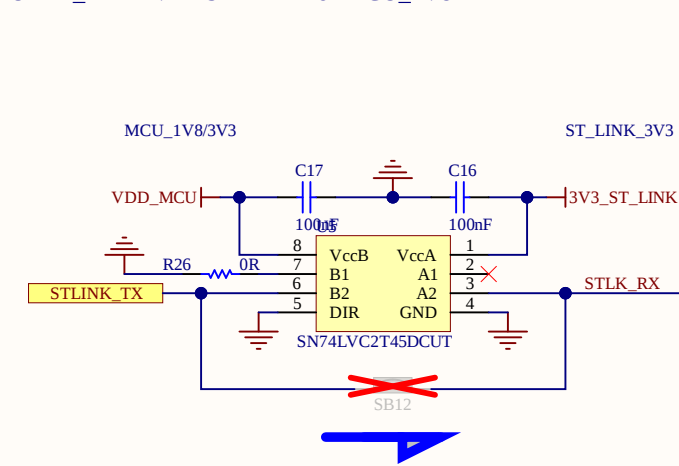
STLINK_MCU



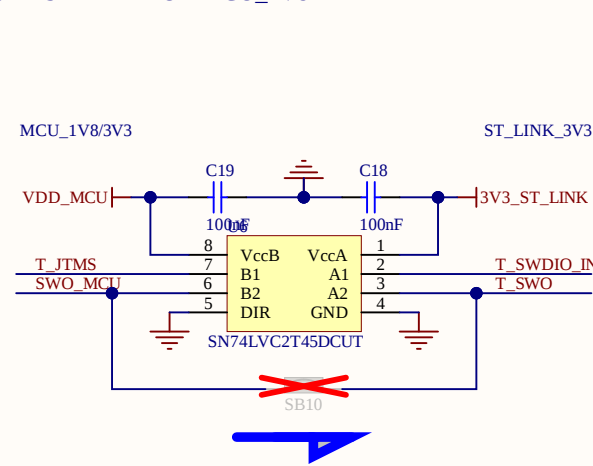
SWD INTERFACE



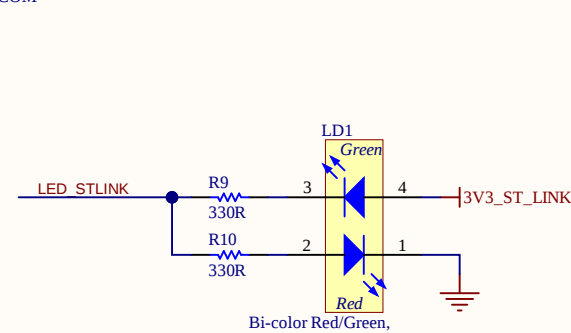
UART_TX LEVEL SHIFTER for MCU_1V8



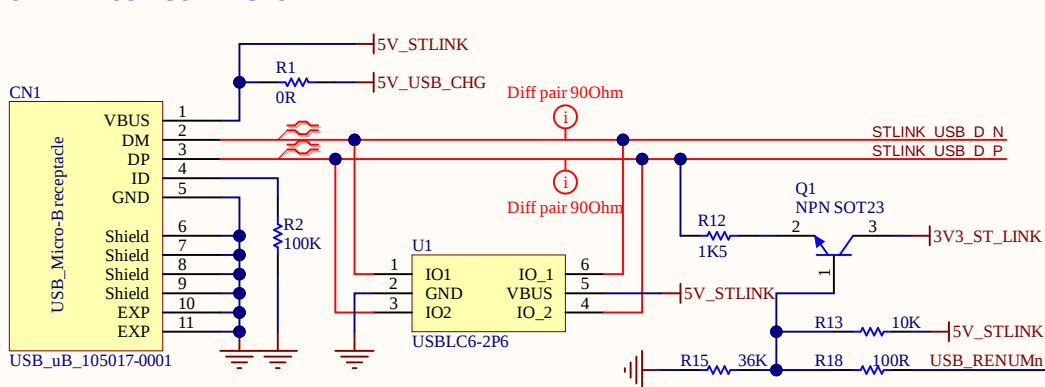
SW LEVEL SHIFTER for MCU_1V8



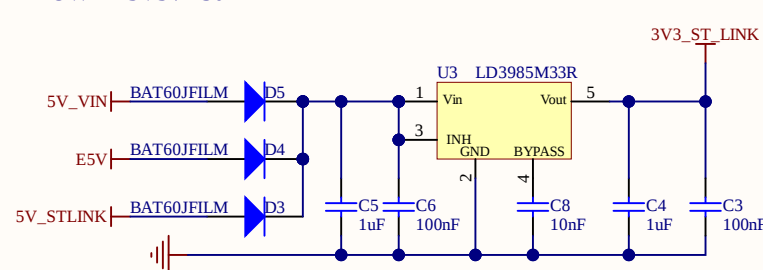
STLINK_LED: COM



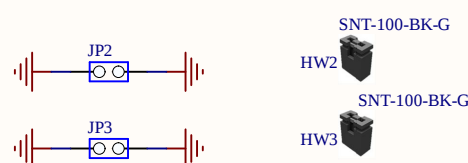
ST-LINK USB CONNECTOR



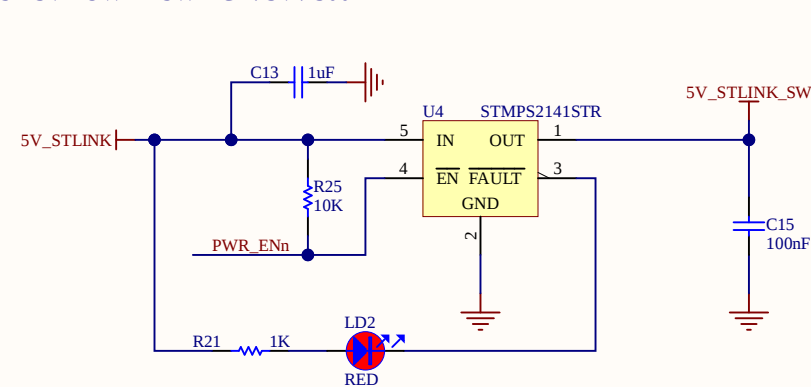
ST-LINK POWER 3V3 / 150mA



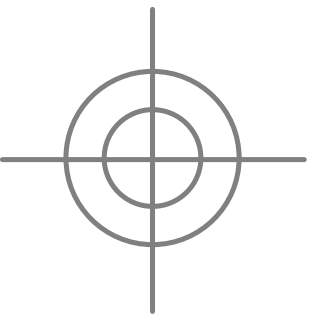
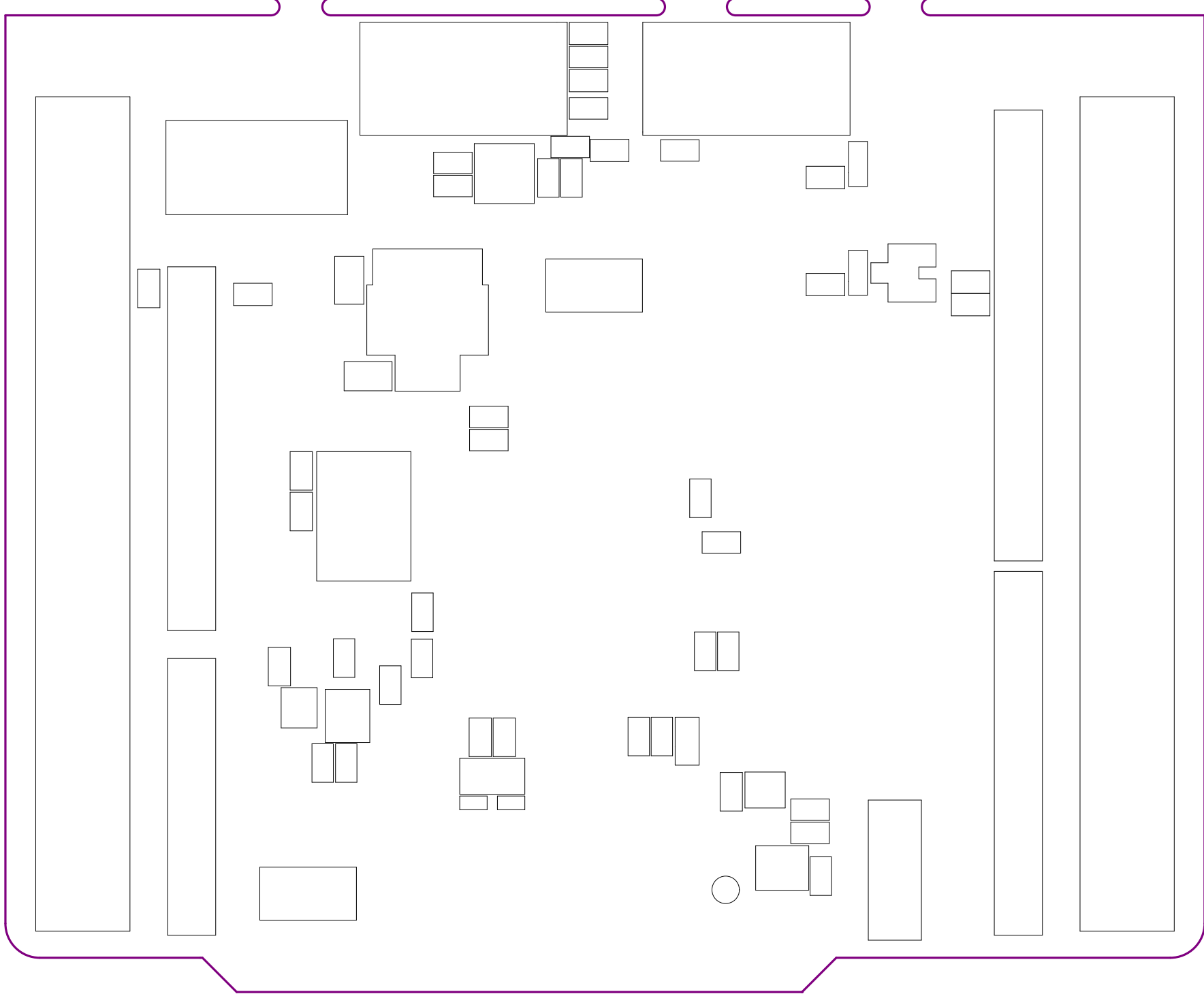
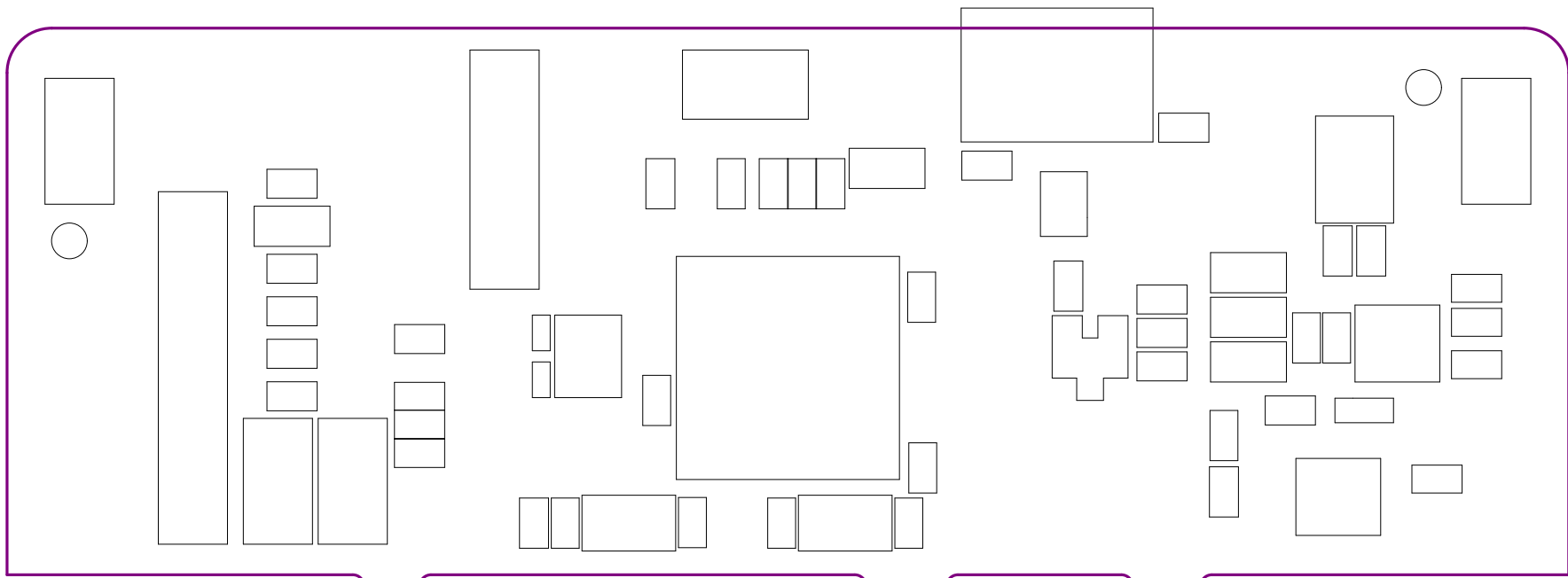
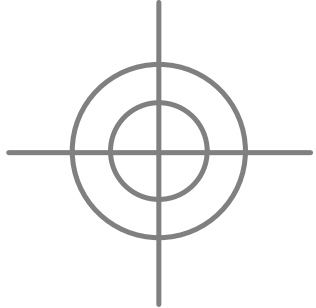
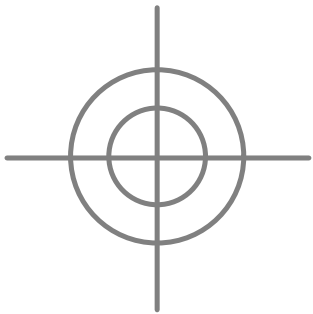
GND

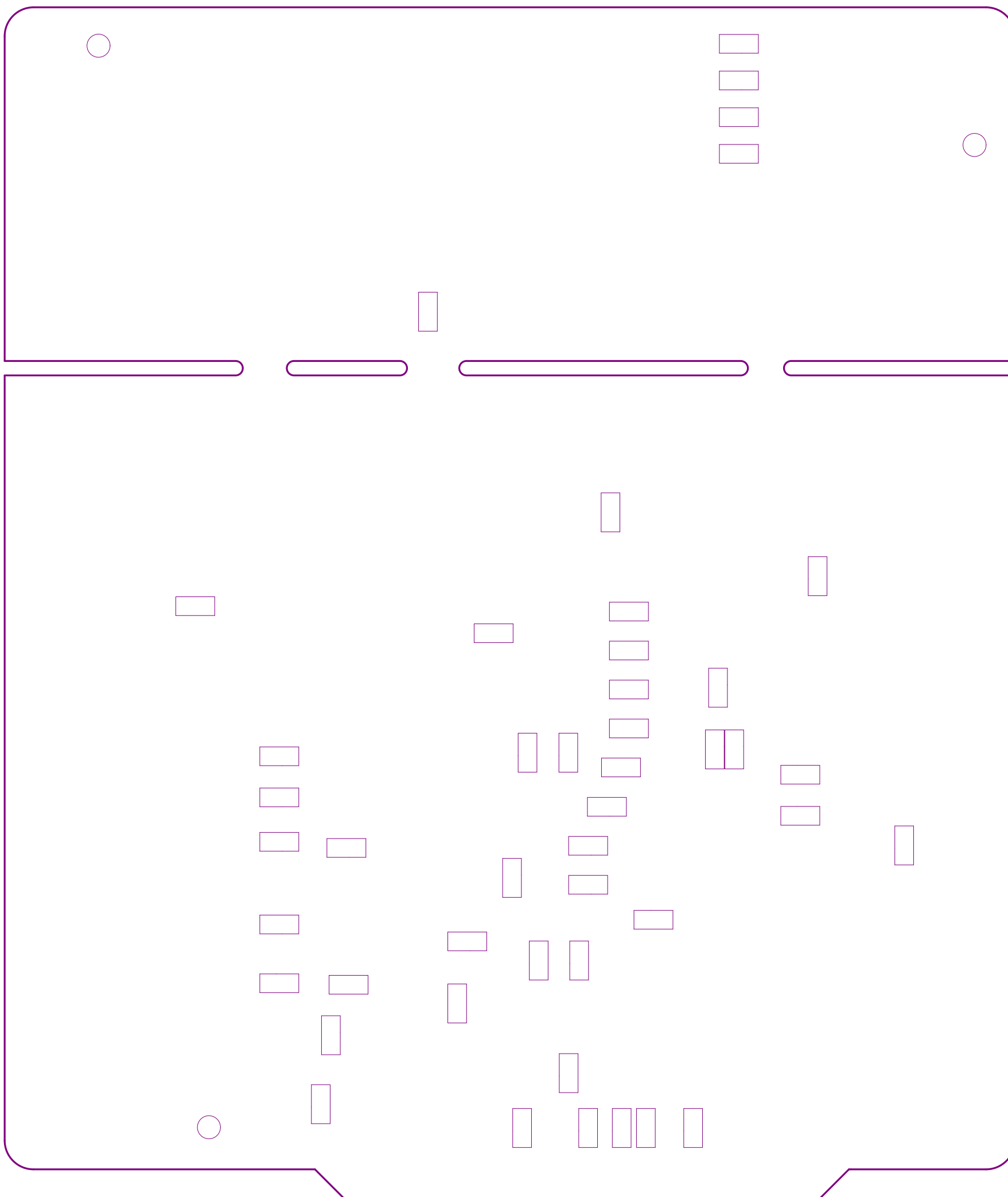
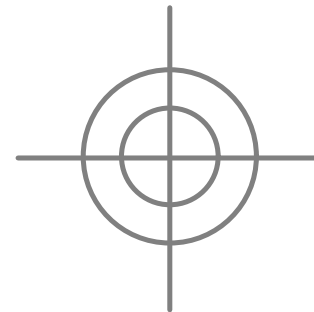
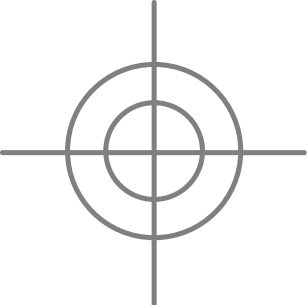


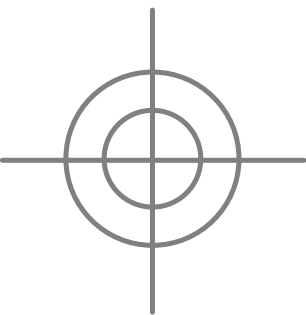
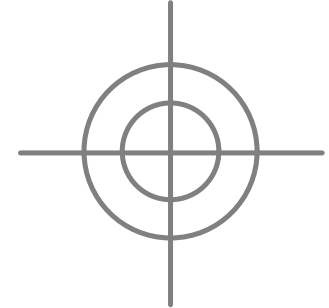
USB 5V POWER SWITCH: 5V / 500mA

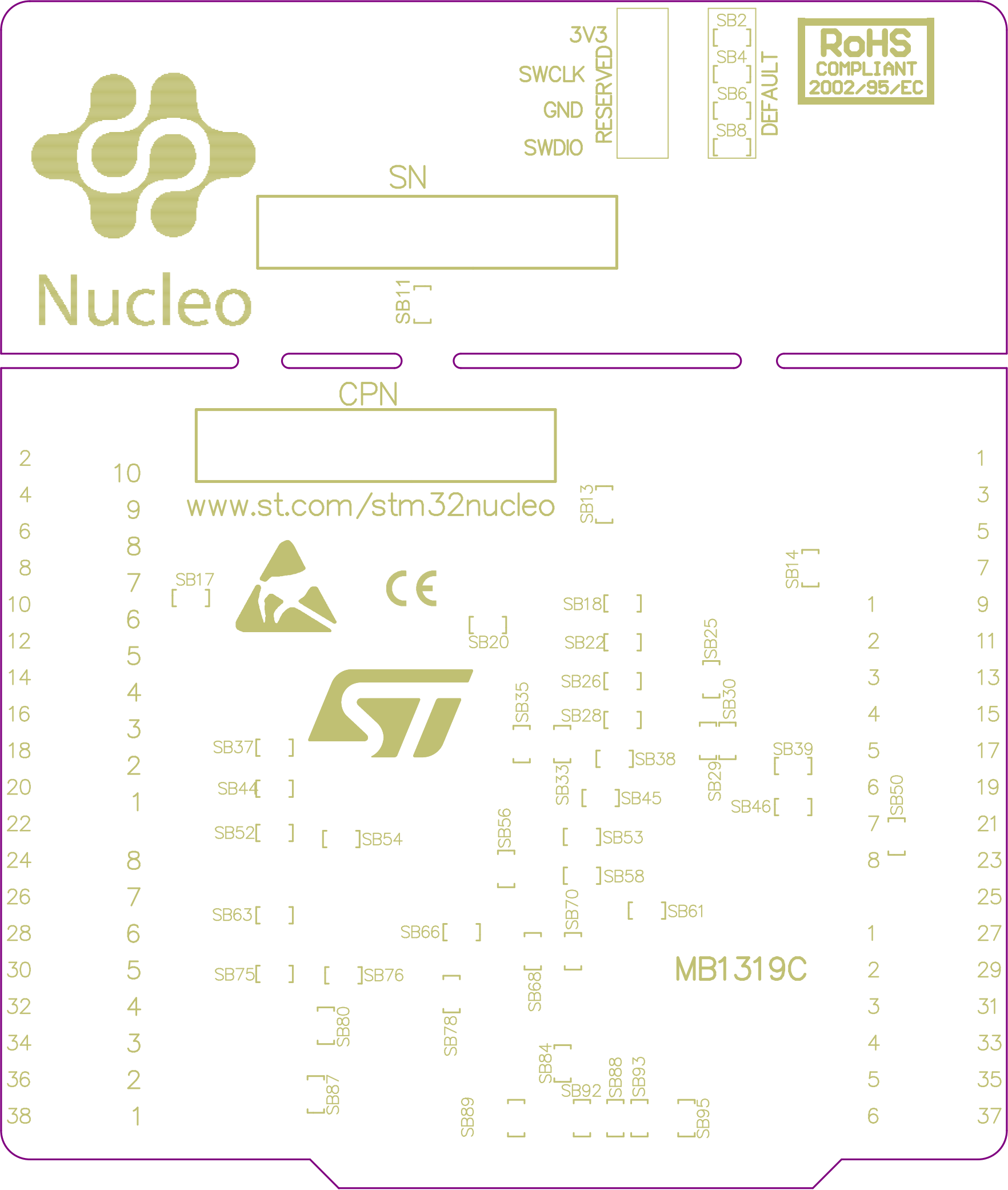


All the sheet are the CUTTABLE part on PCB









SILKSCREEN, (SECONDARY)