

NUCLEO64 STM32G4

MB1367

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mb1367_Top.SchDoc

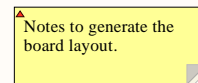


Legend

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

Text to be added to silkscreen.

Warning text.



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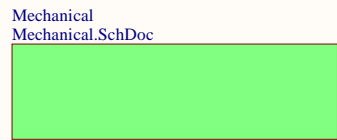
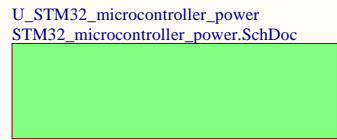
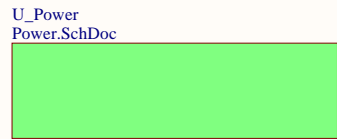
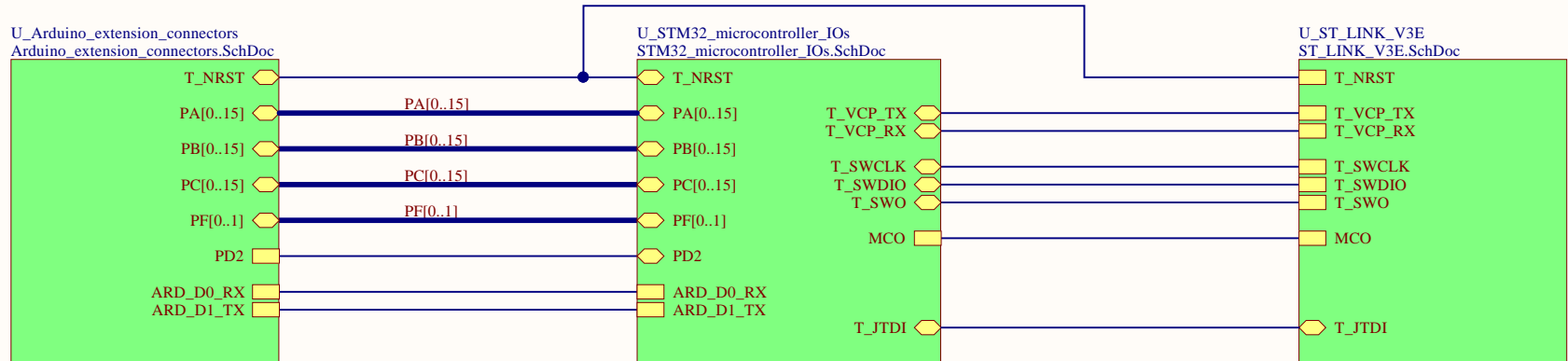
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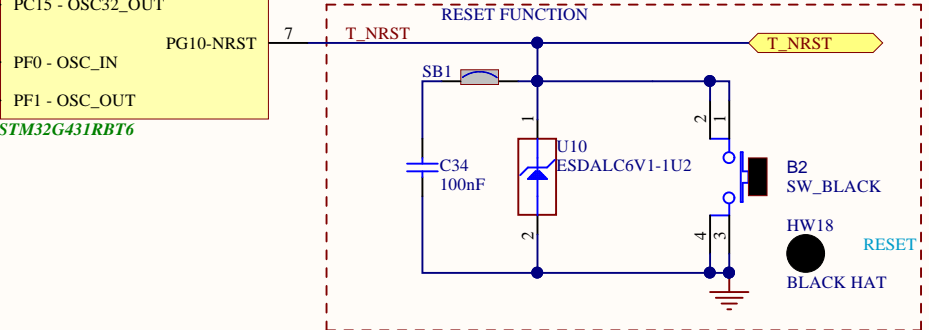
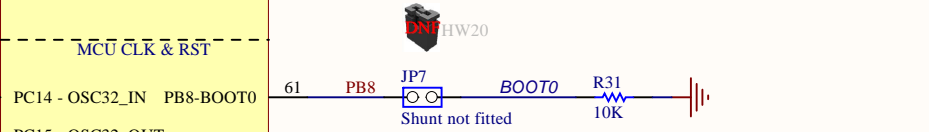
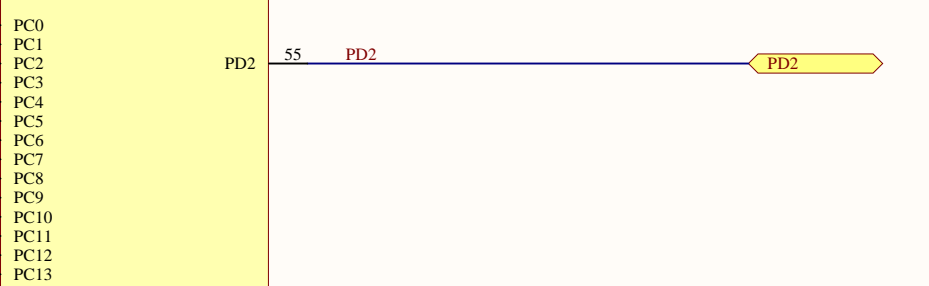
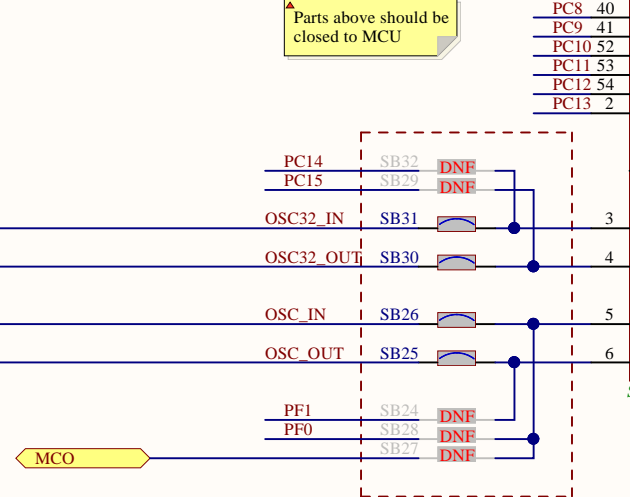
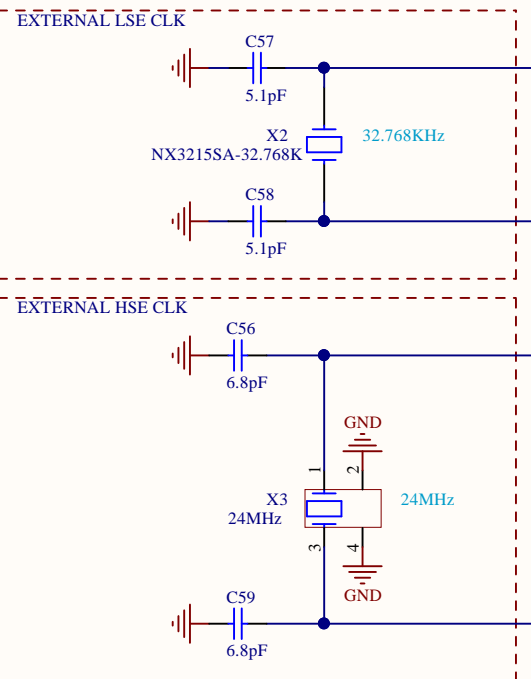
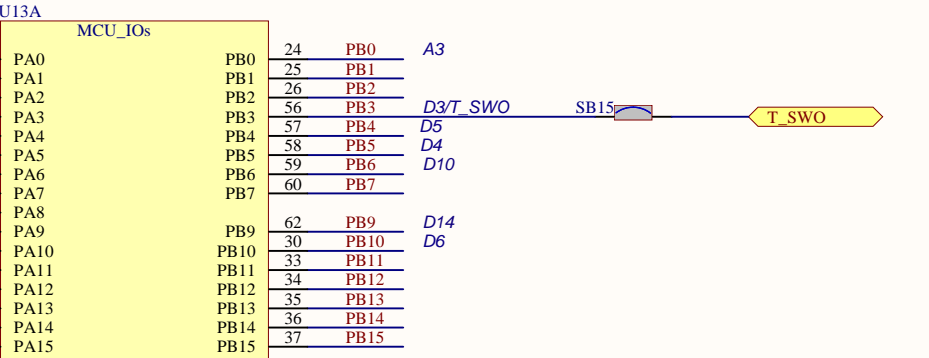
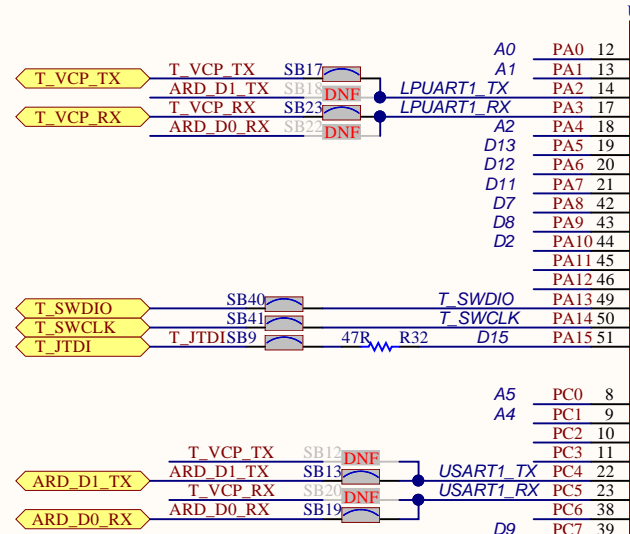
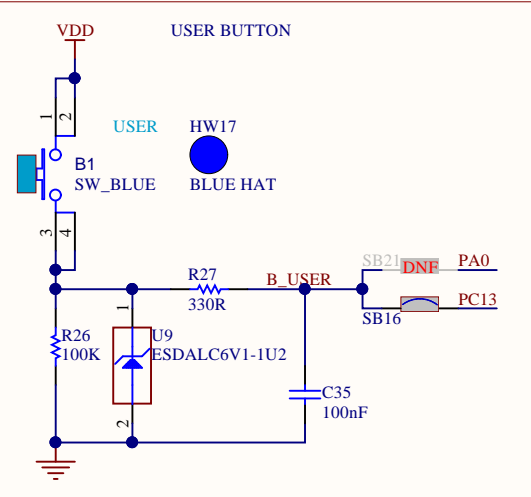
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Title: Project overview		
Project: NUCLEO64 STM32G4		
Variant: G431RB		
Revision: C-04		Reference: MB1367
Size: A4	Date: 21-January-19	Sheet: 1 of 8

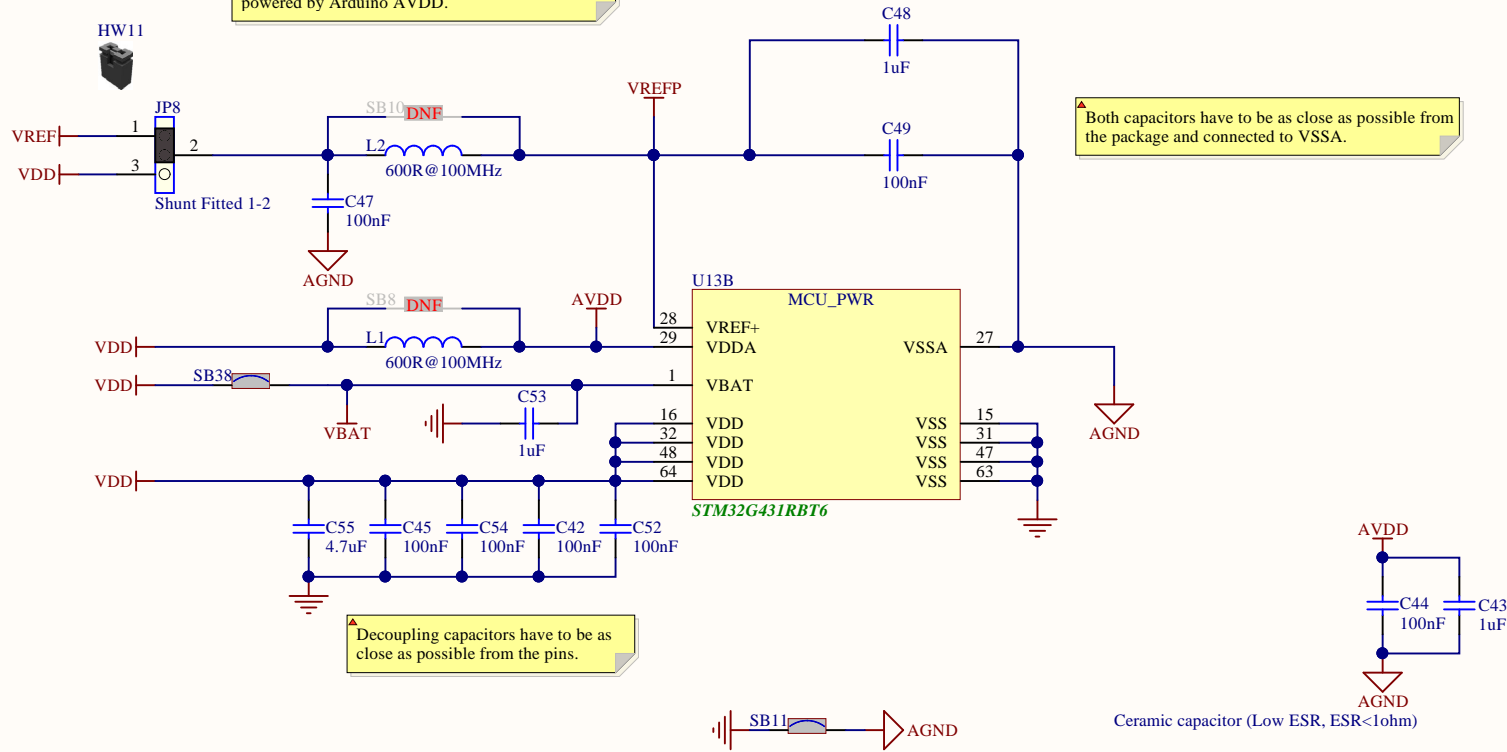






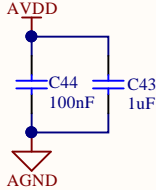
Parts above should be closed to MCU

▲ SB10 & SB8 used to bypass L2 & L1 when Nucleo powered by Arduino AVDD.



▲ Both capacitors have to be as close as possible from the package and connected to VSSA.

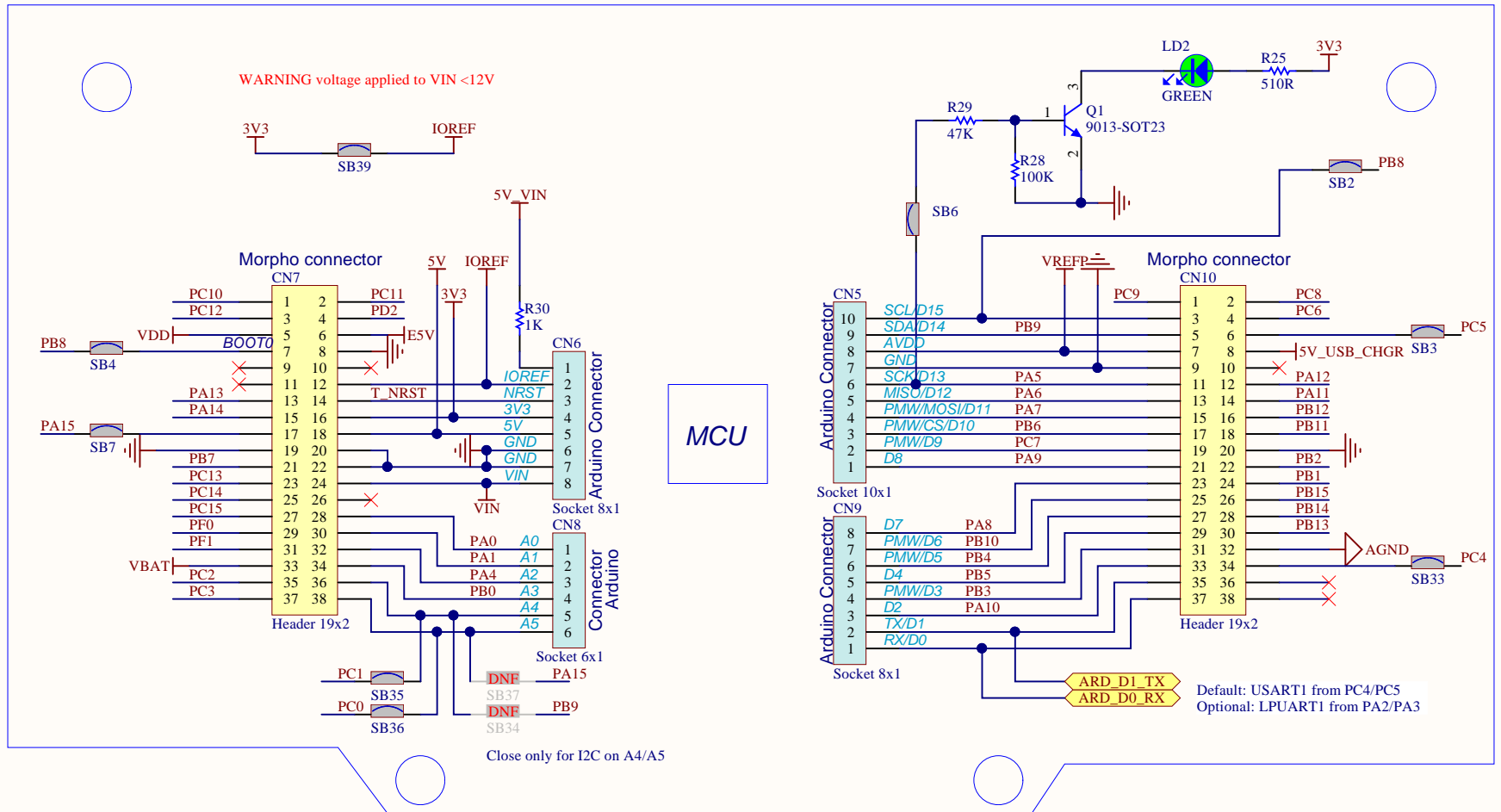
▲ Decoupling capacitors have to be as close as possible from the pins.



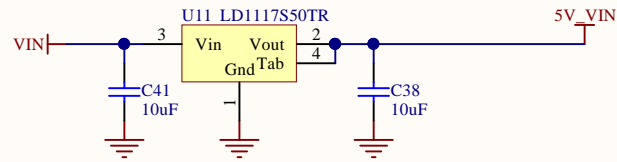
Ceramic capacitor (Low ESR, ESR<1ohm)



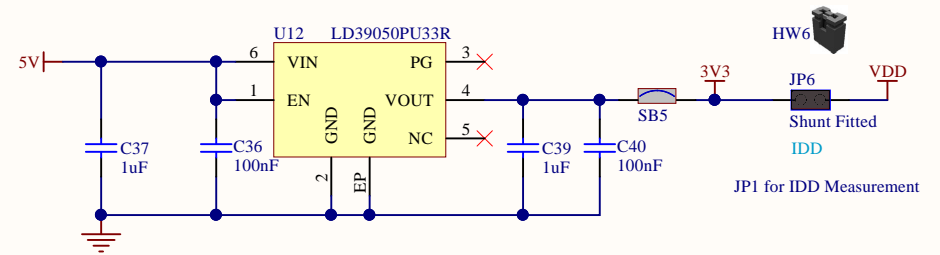
- PA[0..15] PA[0..15]
- PB[0..15] PB[0..15]
- PC[0..15] PC[0..15]
- PD2 PD2
- T_NRST T_NRST
- PF[0..1] PF[0..1]



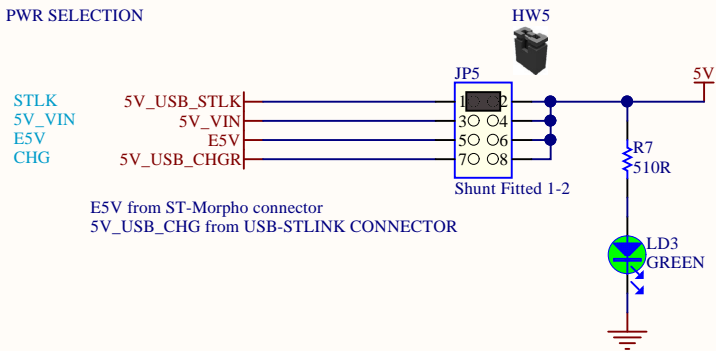
VIN / 5V PWR



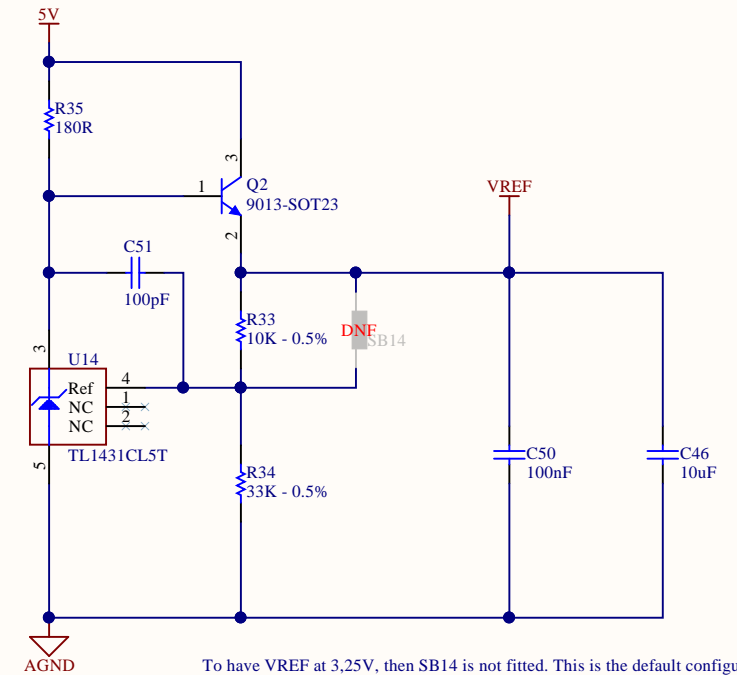
VDD PWR



5V PWR SELECTION

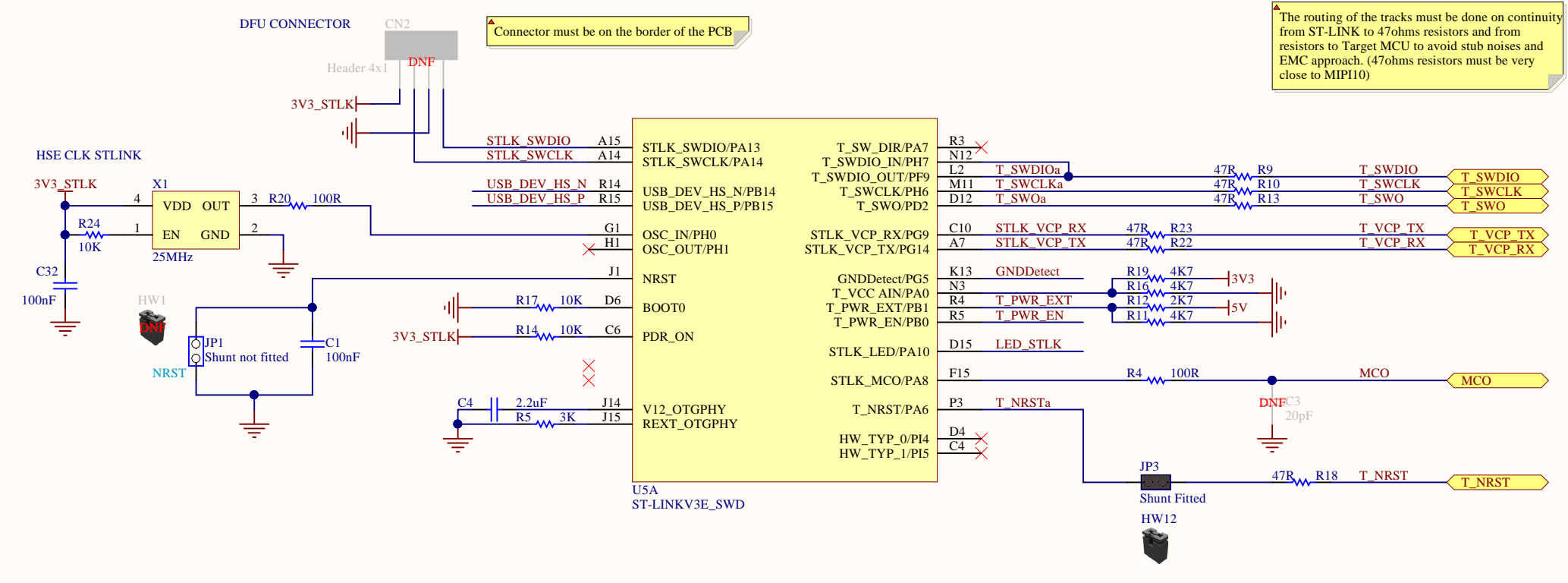


VREF PWR

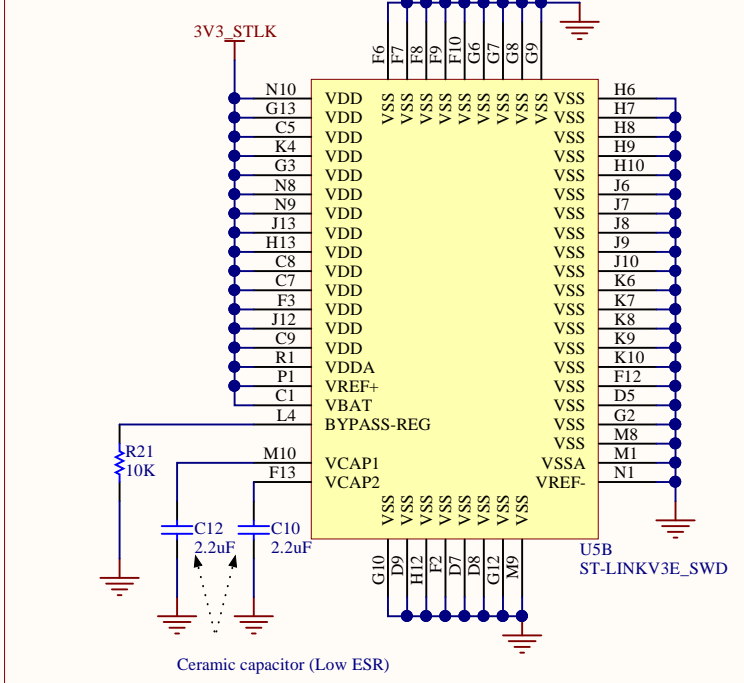


To have VREF at 3.25V, then SB14 is not fitted. This is the default configuration.
To have VREF at 2.5V, then SB14 is fitted and R34 is not fitted

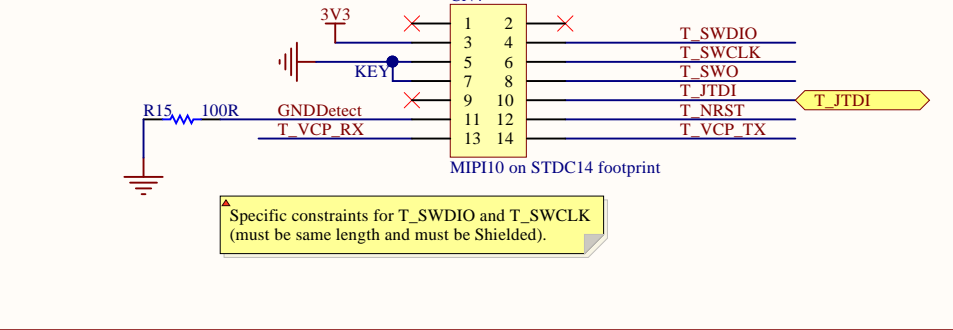
STLINK_MCU



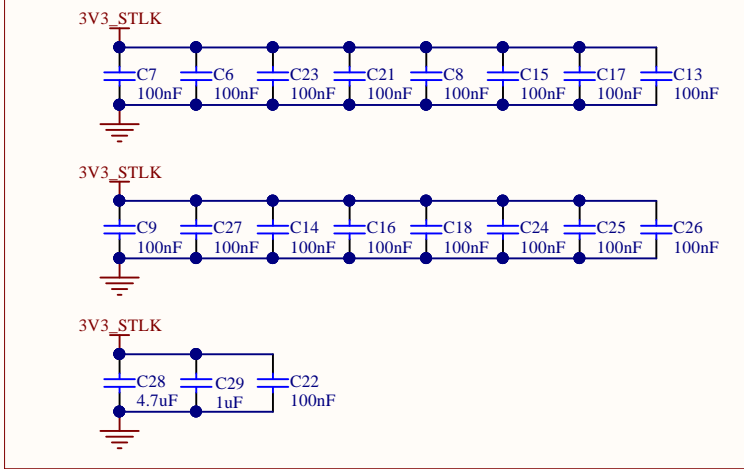
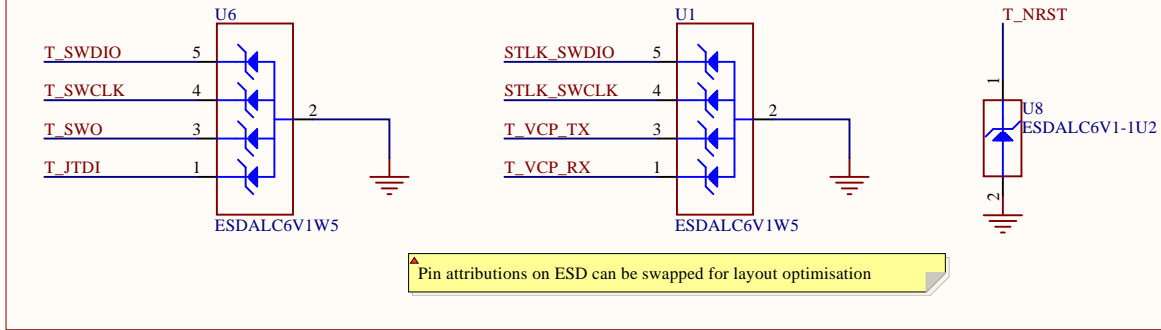
ST-LINK POWER



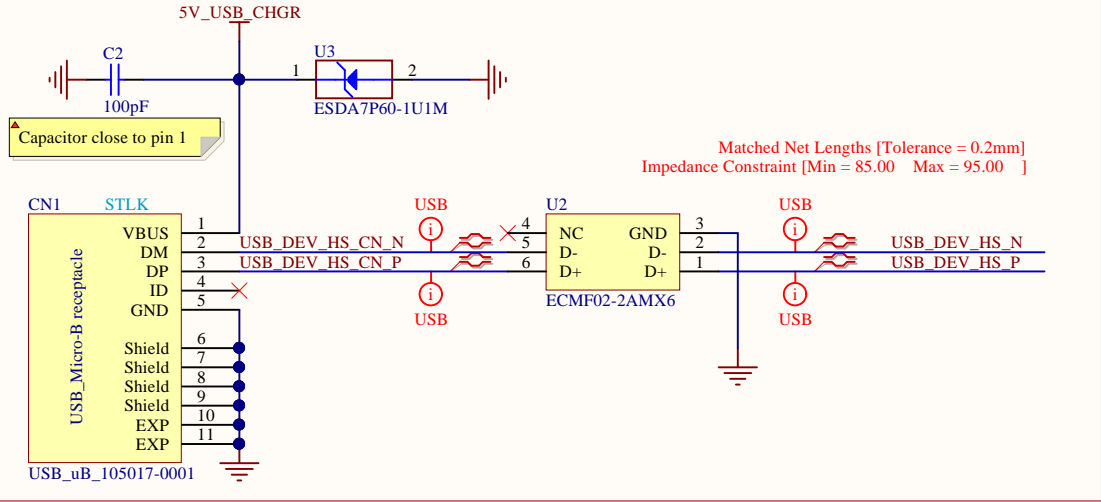
STDC14 Receiver



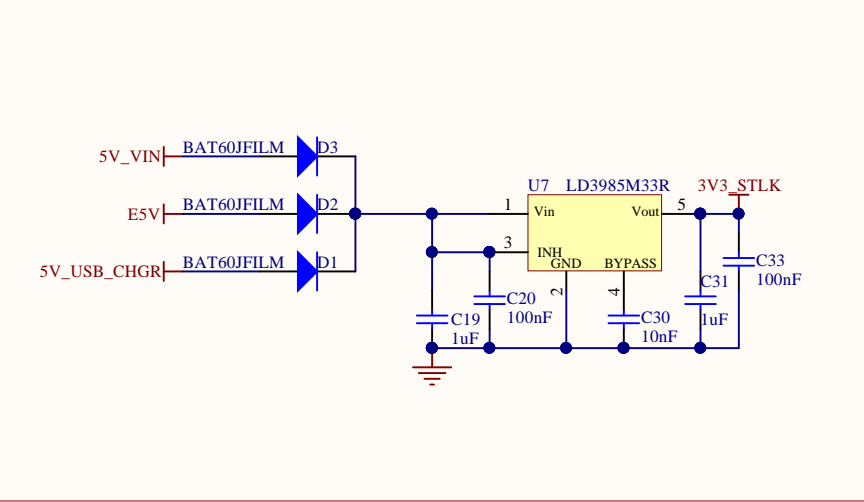
ESD PROTECTIONS



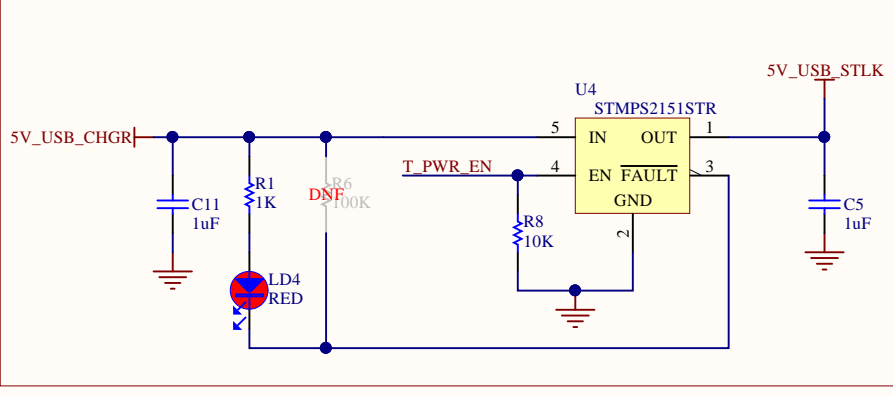
ST-LINK USB CONNECTOR



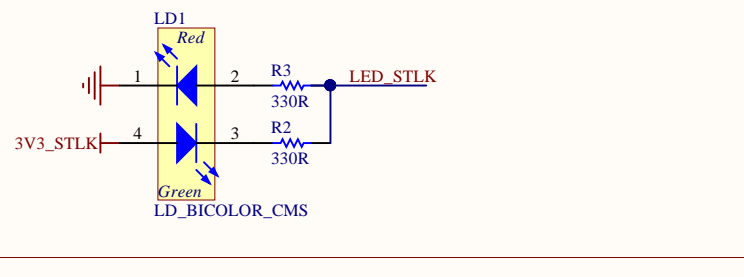
ST-LINK POWER 3V3 / 150mA



5V ST-LINK PROTECTION



GND



HW101

BOARD REF

MB1367C-03 syywwxxxxx

HW102

BOARD CPN

NUCLEO-G431RB

HW108

ES

ES

HW100

PCB

MB1367C

HW103

LOGO NUCLEO

HW106

LOGO ST

HW104

LOGO CE

HW107

LOGO ESD

HW105

LOGO ROHS