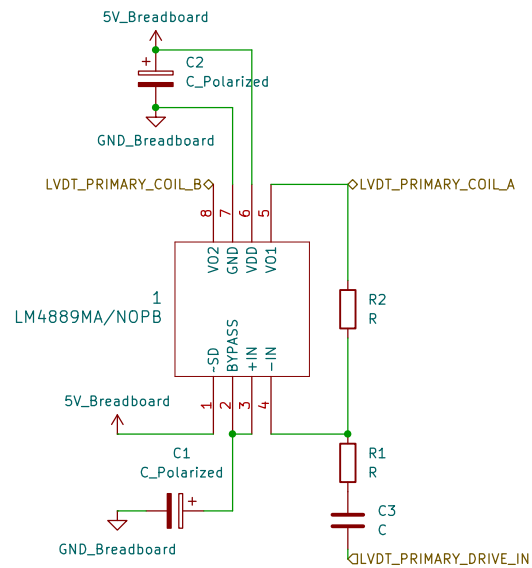
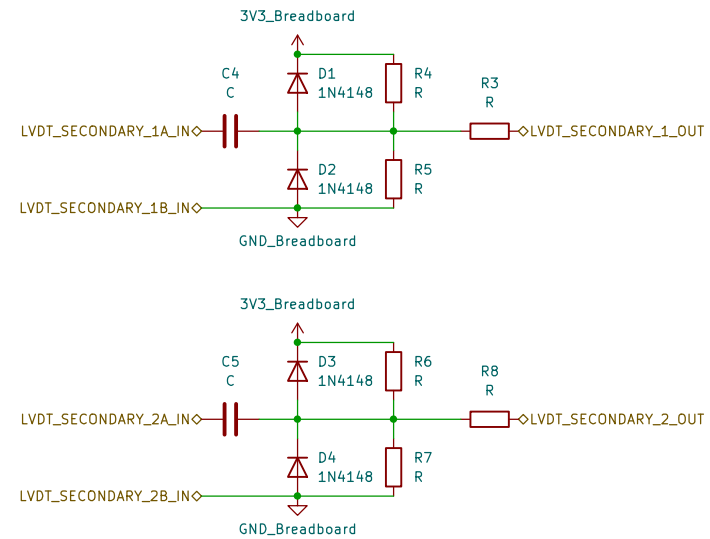


5V_IN □ 5V_Breadboard
3V3_IN □ 3V3_Breadboard
GND_IN □ GND_Breadboard

Primary coil driving circuit



Secondary coils signal conditioning



NUCLE064 STM32G4

MB1367

Table of contents

- Sheet 1: Project overview ([this page](#))
- Sheet 2: Top
 - Sheet 3: STM32 microcontroller I/Os
 - Sheet 4: STM32 microcontroller power
 - Sheet 5: Arduino & Morpho extension connectors
 - Sheet 6: Power
 - Sheet 7: ST-Link/V3E
 - Sheet 8: Mechanical

Legend

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

Text to be added to silkscreen.

Warning text.

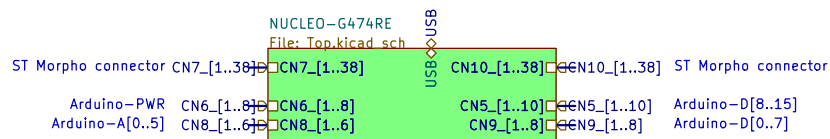
Notes to generate the board layout.


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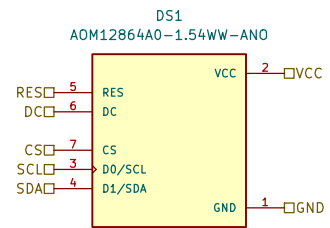
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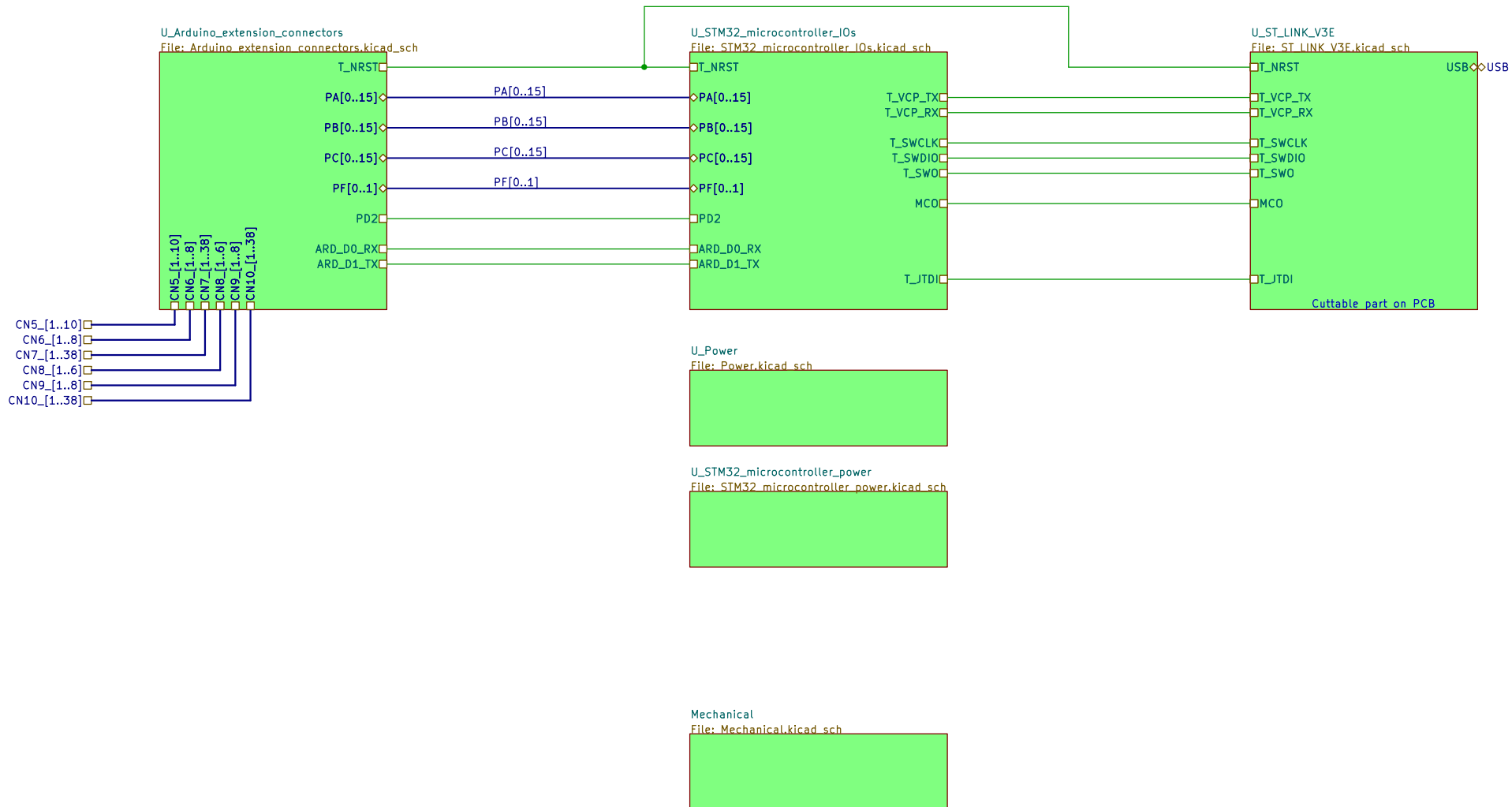
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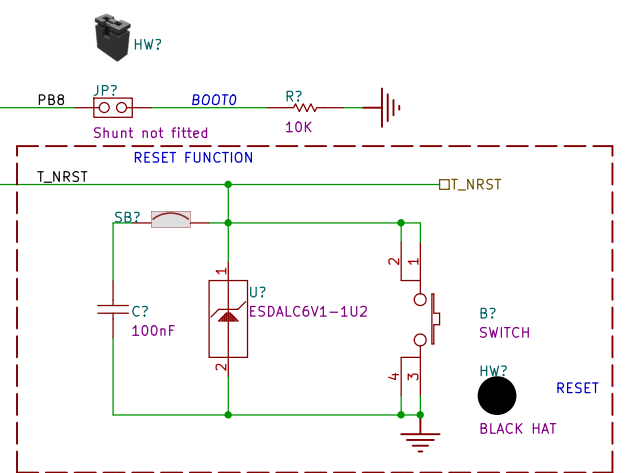
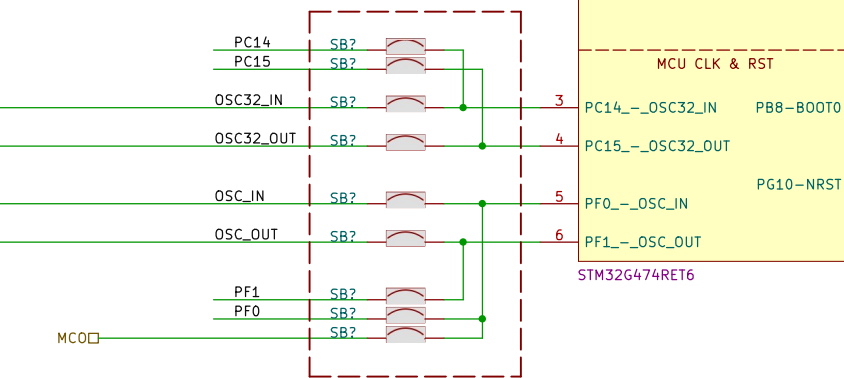
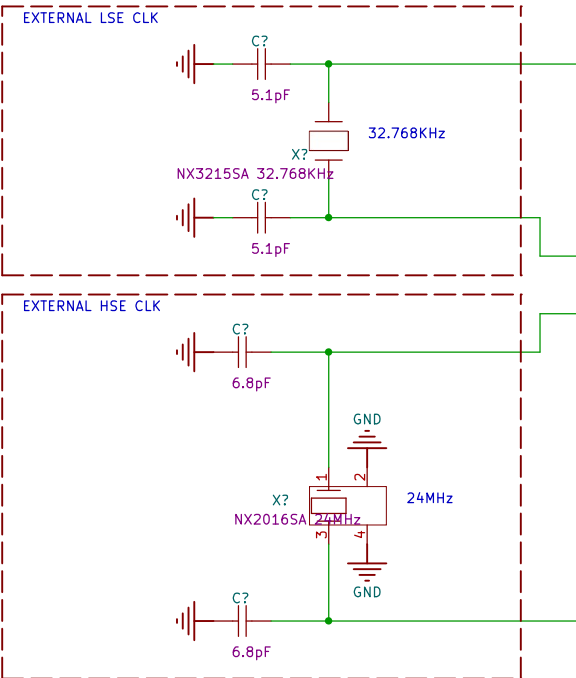
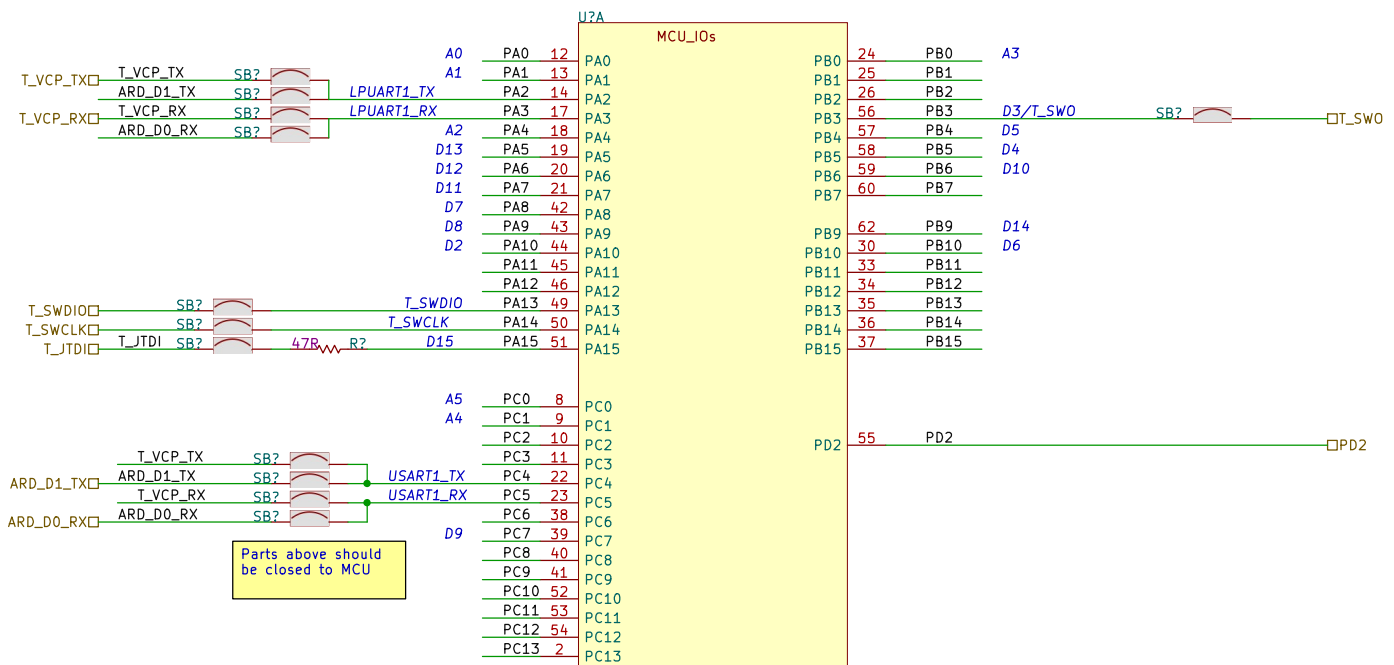
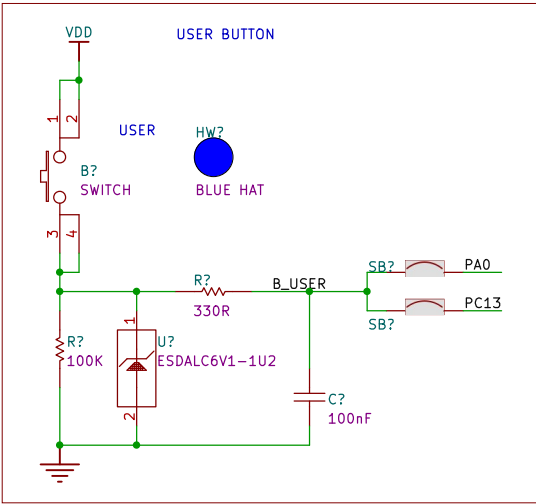


Title: Project overview		 life.augmented
Project: NUCLE064 STM32G4		
Variant: G474RE		
Revision: C-05	Reference: MB1367	
Size: A4	Date: 07-FEB-22	
Sheet: 4 of 12		





PA[0..15] PA[0..15] PB[0..15] PB[0..15] PC[0..15] PC[0..15] PF[0..1] PF[0..1]



5V PWR SELECTION

STLK
5V_VIN
E5V
CHG

5V_USB_STLK
5V_VIN
E5V
5V_USB_CHGR

JP?

HW?

5V

R?
510R

LD?
GREEN

E5V from ST-Morpho connector
5V_USB_CHG from USB-STLINK CONNECTOR

Shunt Fitted 1-2

5V PWR SELECTION

STLK
5V_VIN
E5V
CHG

5V_USB_STLK
5V_VIN
E5V
5V_USB_CHGR

JP?

HW?

5V

R?
510R

LD?
GREEN

E5V from ST-Morpho connector
5V_USB_CHG from USB-STLINK CONNECTOR

Shunt Fitted 1-2

5V

R? 180R

Q? NPN SOT23

C? 100pF

U? TL1431CL5T

R? 10K - 0.5%

R? 33K - 0.5%


C? 100nF

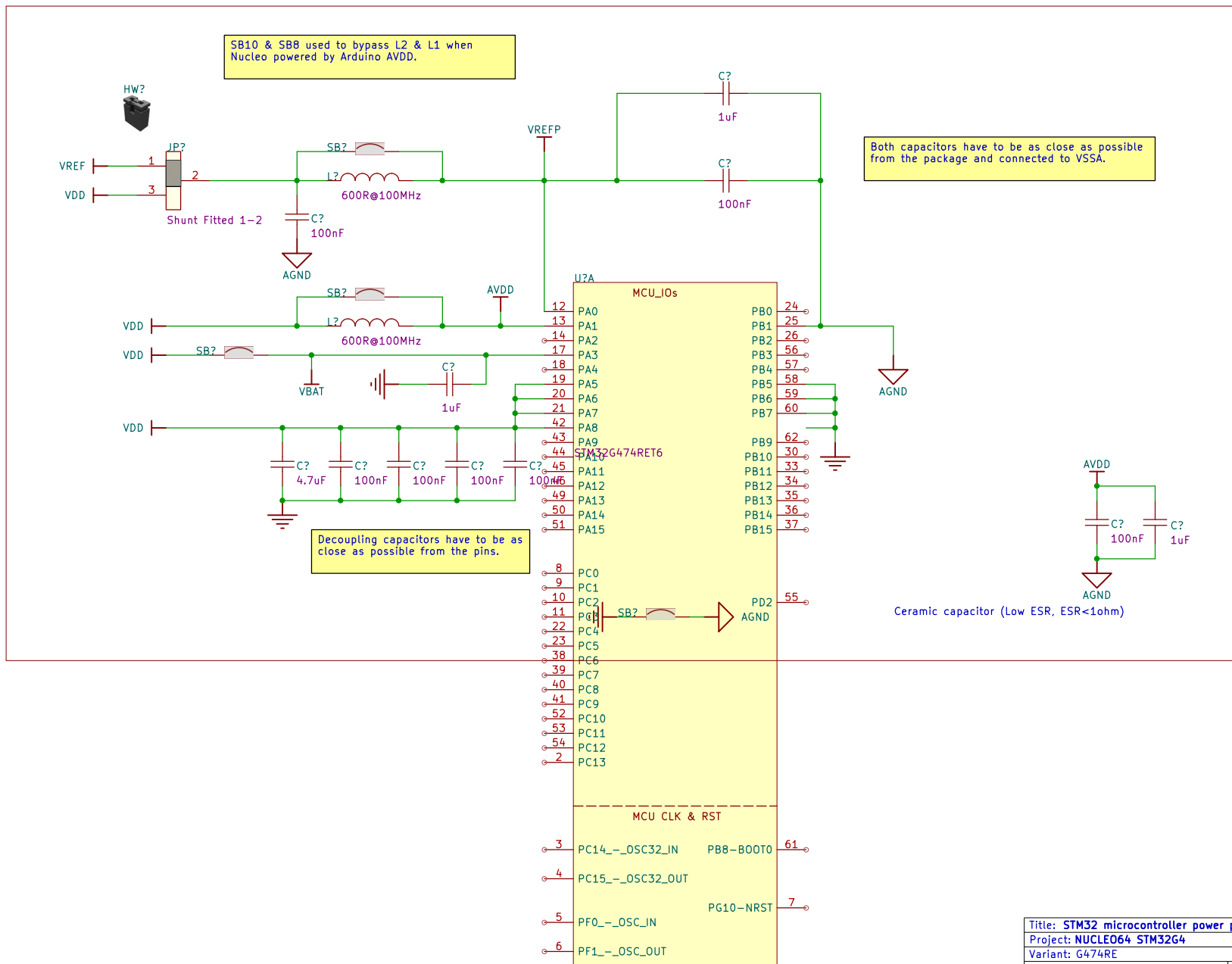
C? 10uF

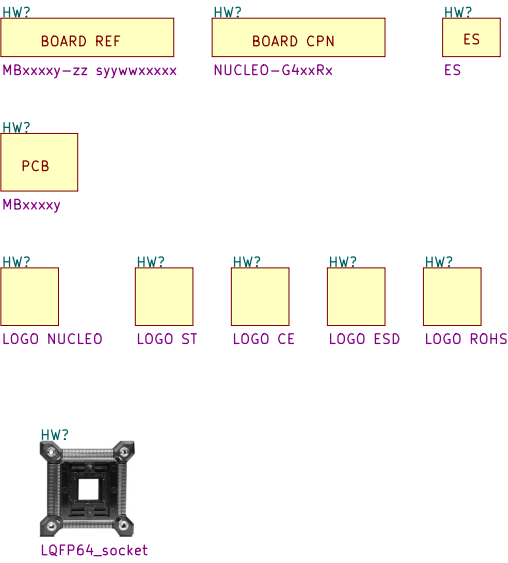
VREF

AGND

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

Title: Main power 5V / 3V3		 life.augmented
Project: NUCLEO64 STM32G4		
Variant: G474RE		
Revision: C-05	Reference: MB1367	
Size: A4	Date: 07-FEB-22	
Sheet: of 12		





[illegible]