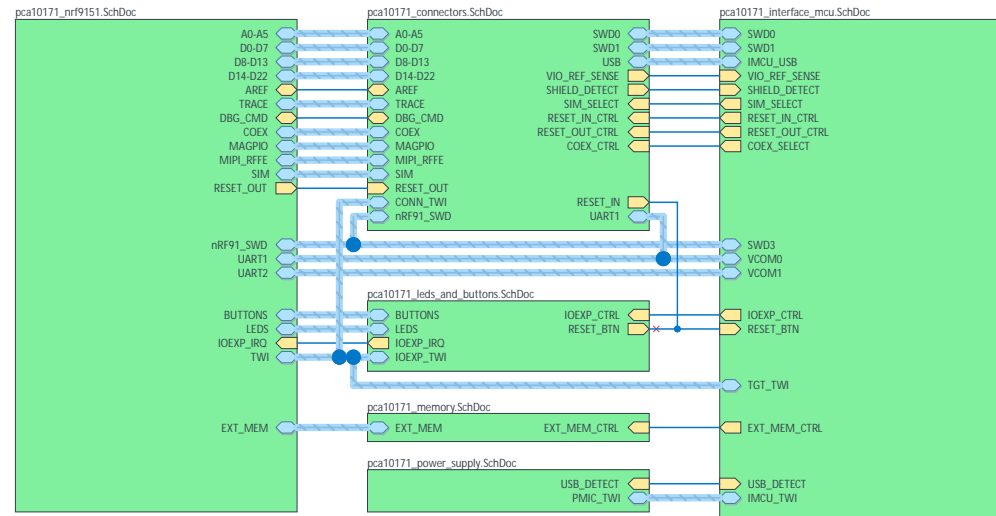


# Nordic Semiconductor ASA

## nRF9151 Development Kit (PCA10171)


Sheet 1:	Top Level
Sheet 2:	nRF9151
Sheet 3:	Interface MCU
Sheet 4:	LEDs and Buttons
Sheet 5:	IO Expander
Sheet 6:	Memory
Sheet 7:	Connectors
Sheet 8:	Power Supply
Sheet 9:	Analog Switch 1
Sheet 10:	Analog Switch 2



✗ The No ERC object is a design directive.  
This directive is placed on a node in the circuit to suppress harmless warnings and/or error violation conditions that are detected when the schematic project is compiled.



PCA10171  
1.0.1  
<year> <week>  
<ID>

Title nRF9151 Development Kit - Top Level			
Size A3	PCB Assembly Number PCA10171	Revision 1.0.1	
Date: 03/05/2024	Sheet 1 of 10		
File: pca10171_top_level.SchDoc	Drawn By: KOD1		
Classification: PUBLIC			

A

B

C

D

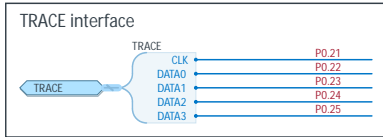
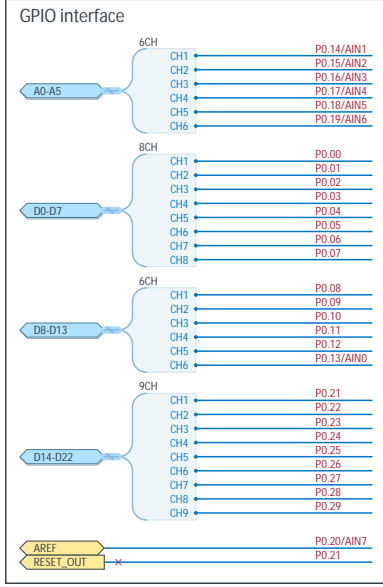
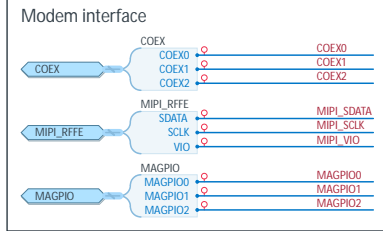
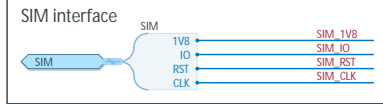
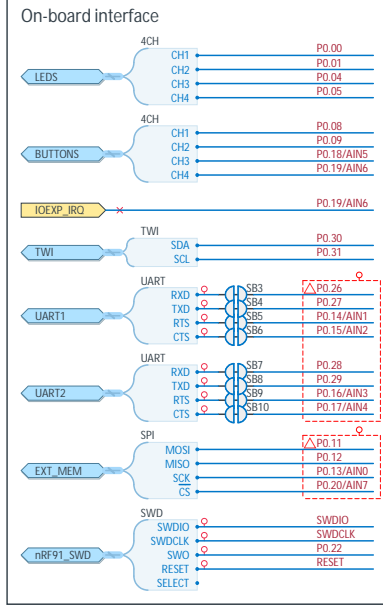
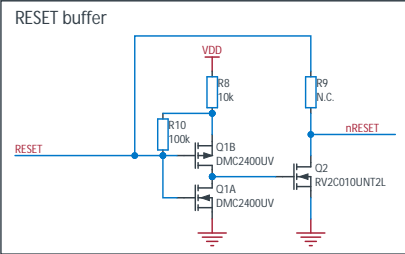
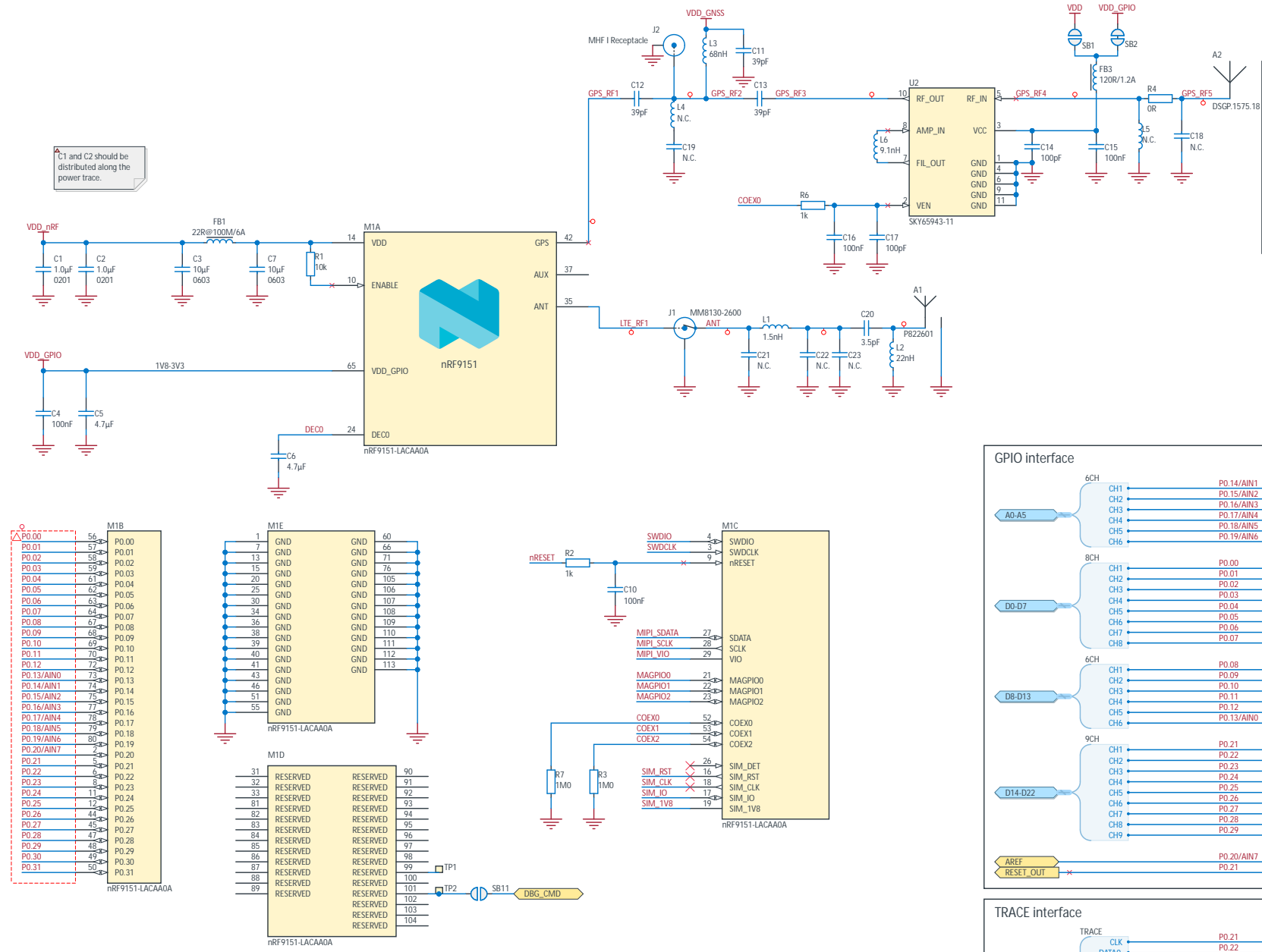
A

B

C

D

C1 and C2 should be distributed along the power trace.





A

B

C

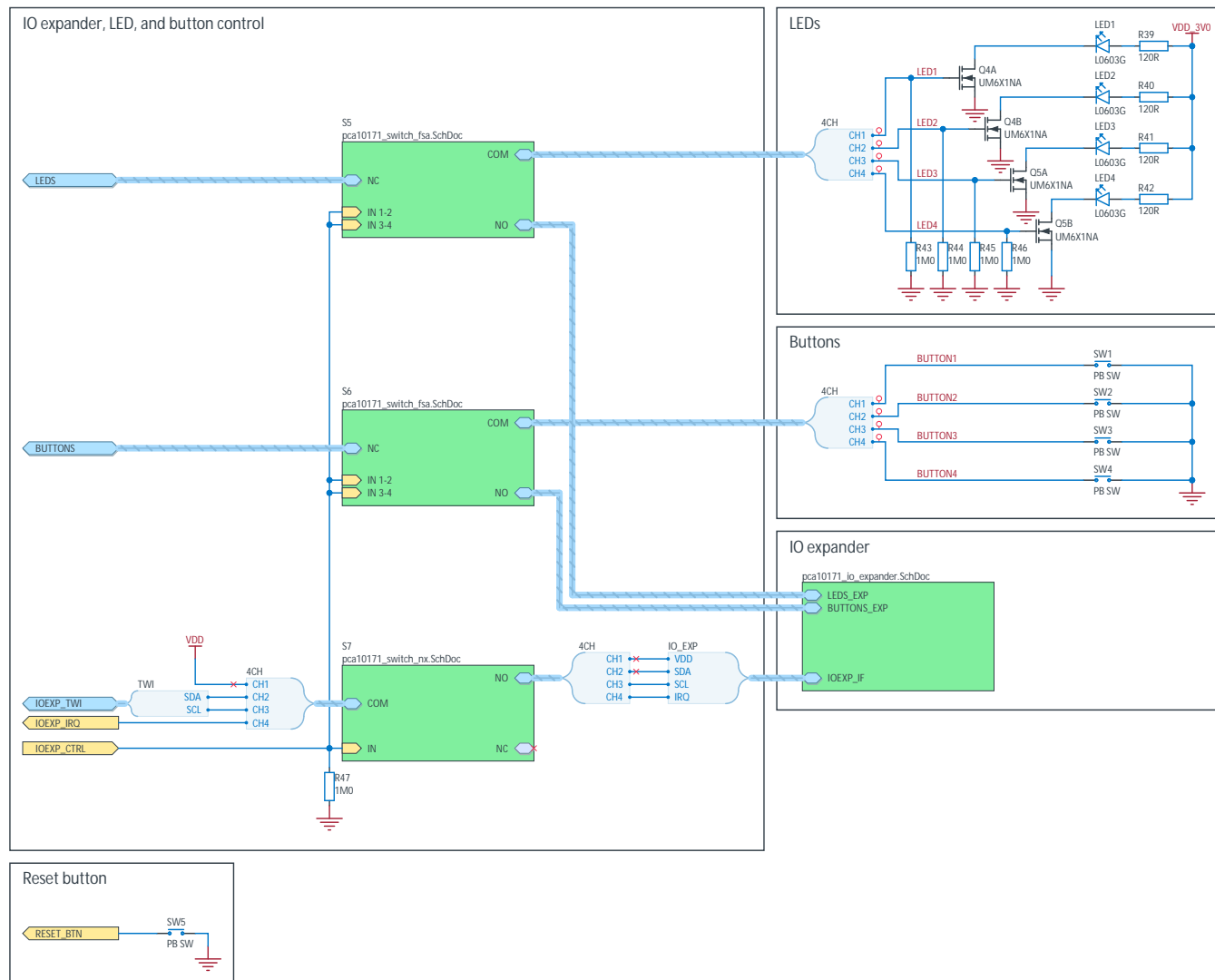
D

A

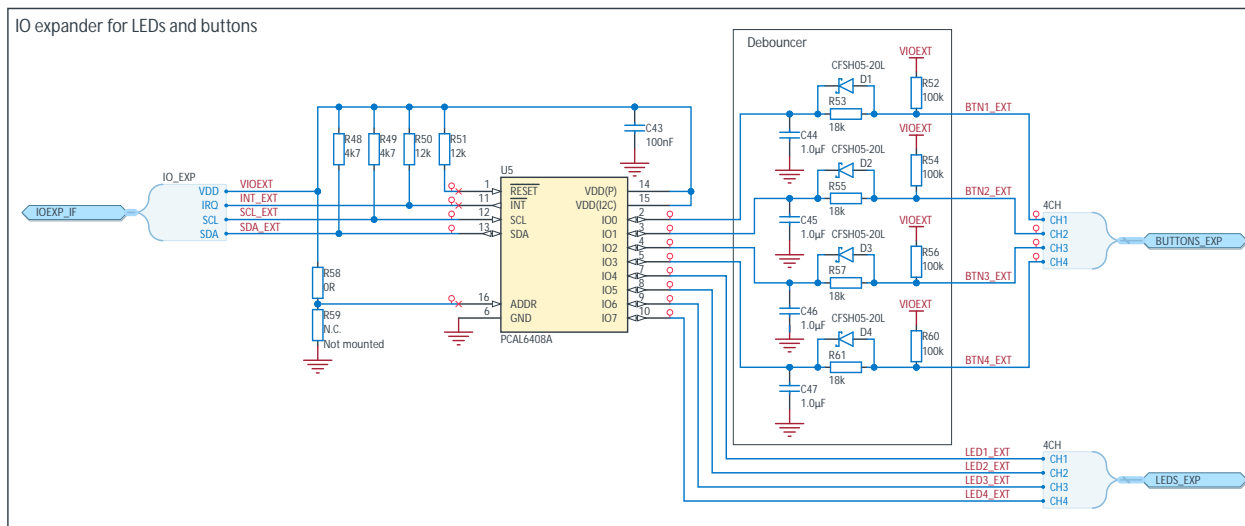
B

C

D







A

B

C

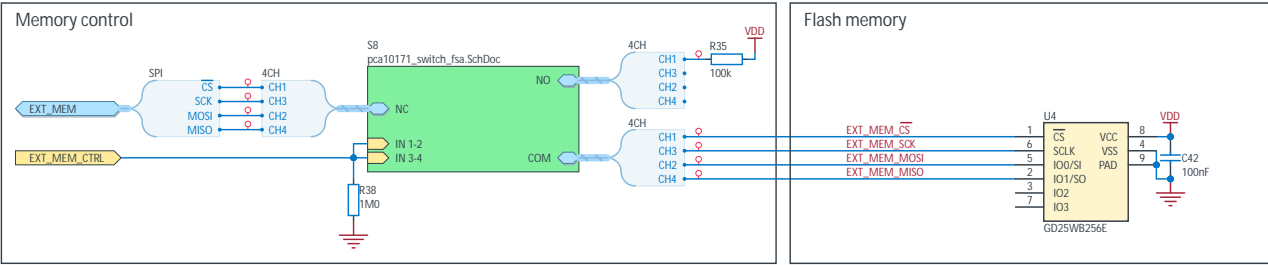
D

A

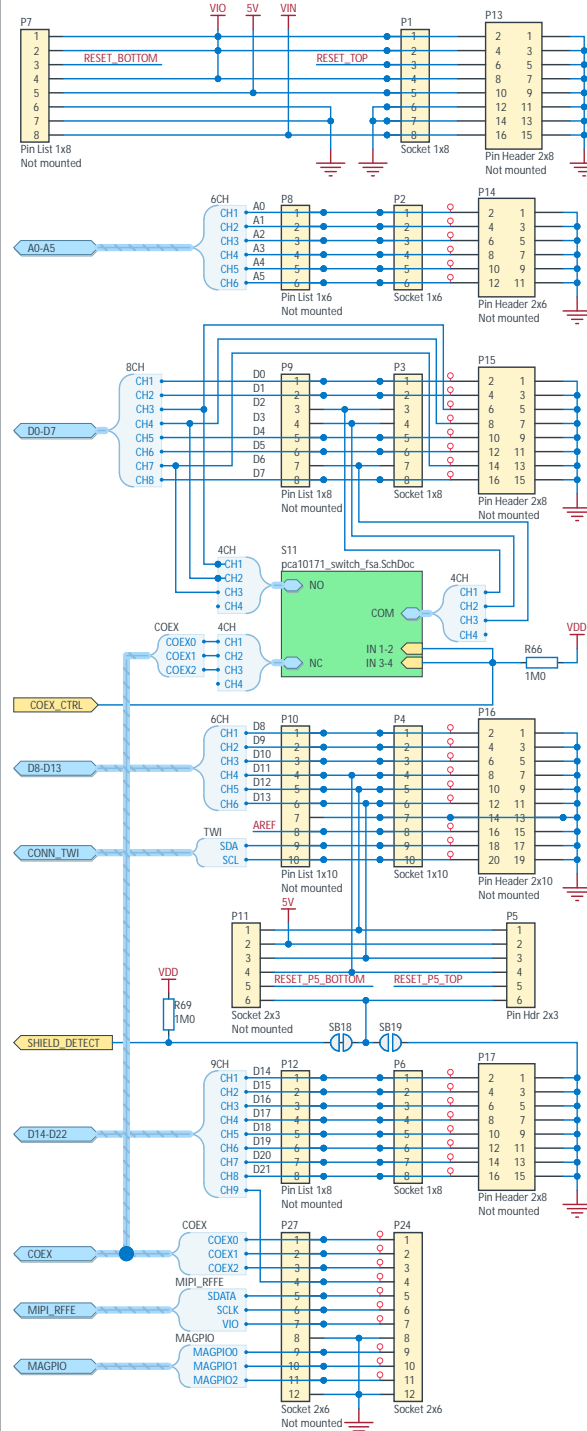
B

C

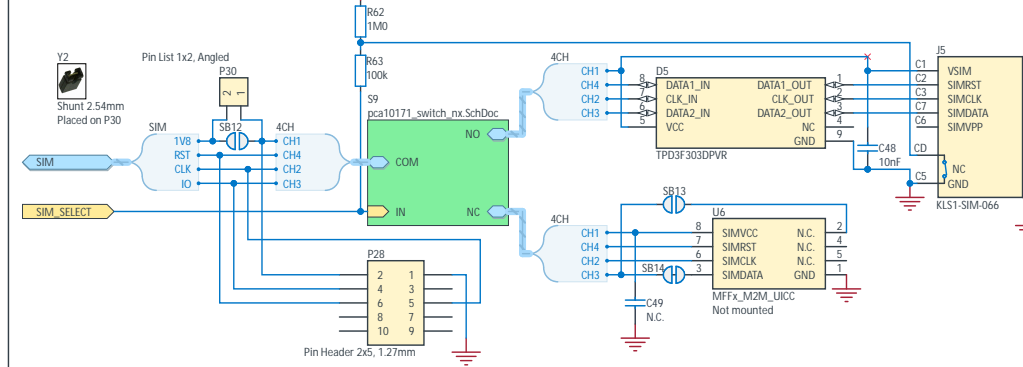
D



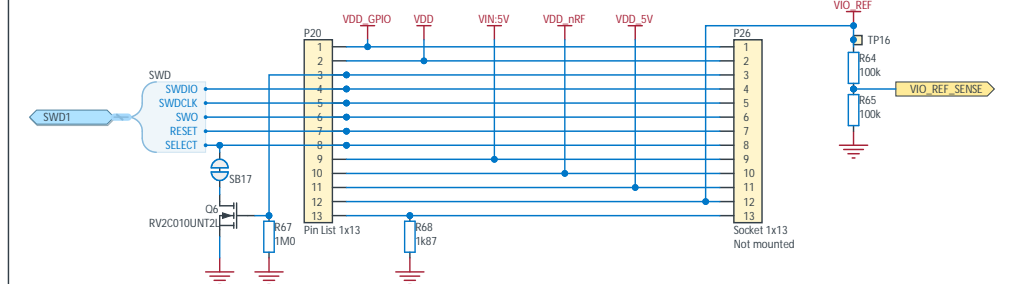
## Interface connectors



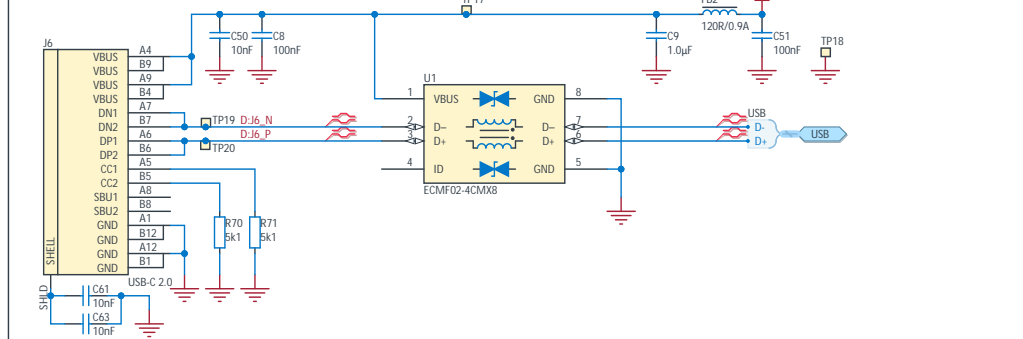
## SIM card, eSIM, and selection switch



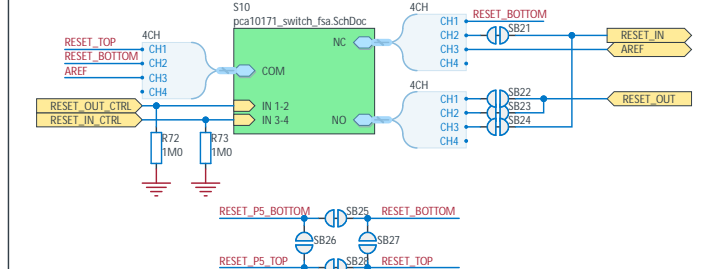
## Shield debug and current measurement connector



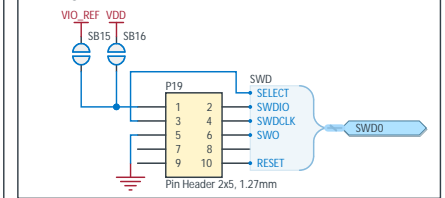
## USB connector



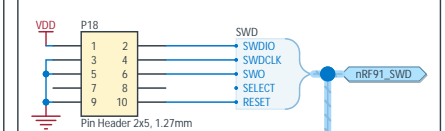
## RESET config



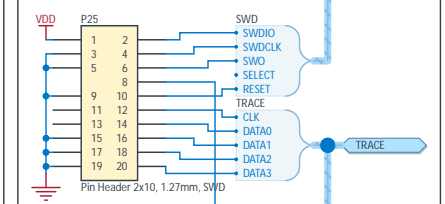
## Debug OUT connector



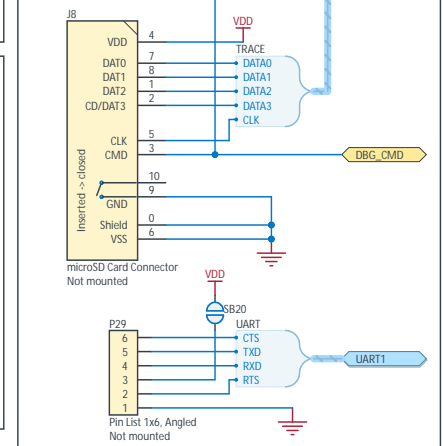
## Debug IN connector



## Trace connector



## Debugging interface



Title  
nRF9151 Development Kit - Connectors

Size  
A3

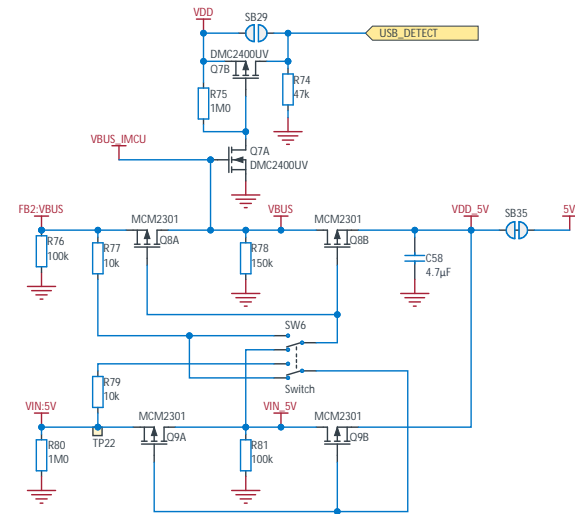
Date: 16/08/2024  
File: pca10171\_connectors.SchDoc  
Classification: PUBLIC

Revision  
1.0.1

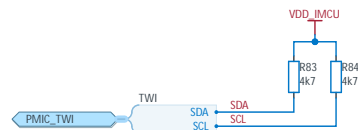
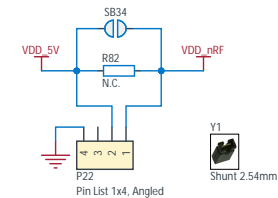
Sheet 7 of 10  
Drawn By: KOD1



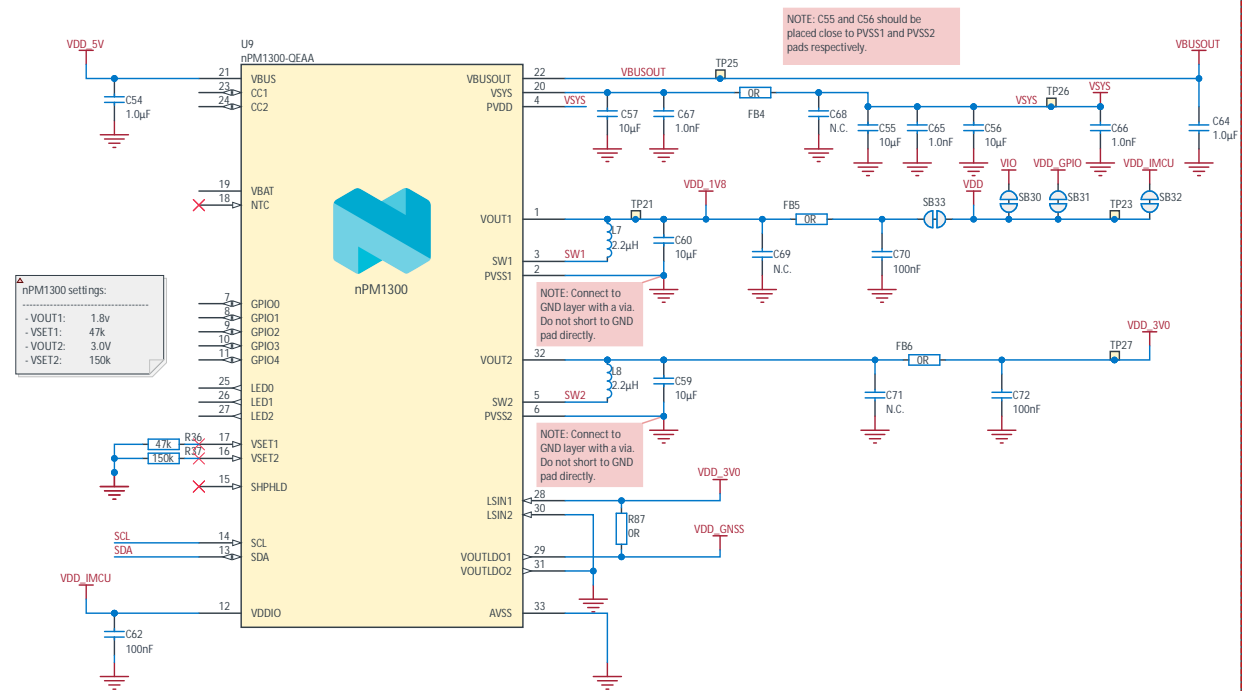
## Power input selection and power switch



## nRF91 VDD current measurement



## Power management



Instrument ground



Title <b>nRF9151 Development Kit - Power Supply</b>			
Size <b>A3</b>	PCB Assembly Number <b>PCA10171</b>	Revision <b>1.0.1</b>	
Date: 13/11/2024		Sheet 8 of 10	
File: pca10171_power_supply_SchDoc		Drawn By: KOD1	
Classification: PUBLIC			

