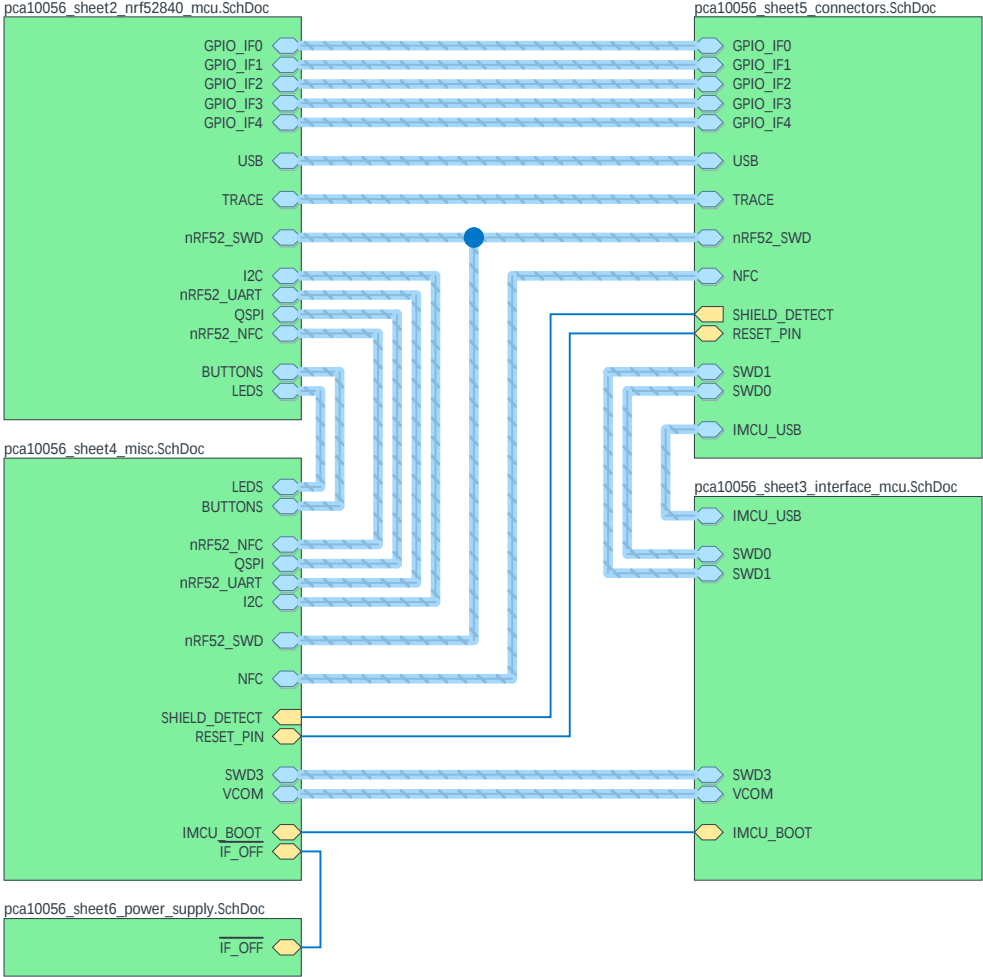


Nordic Semiconductor ASA

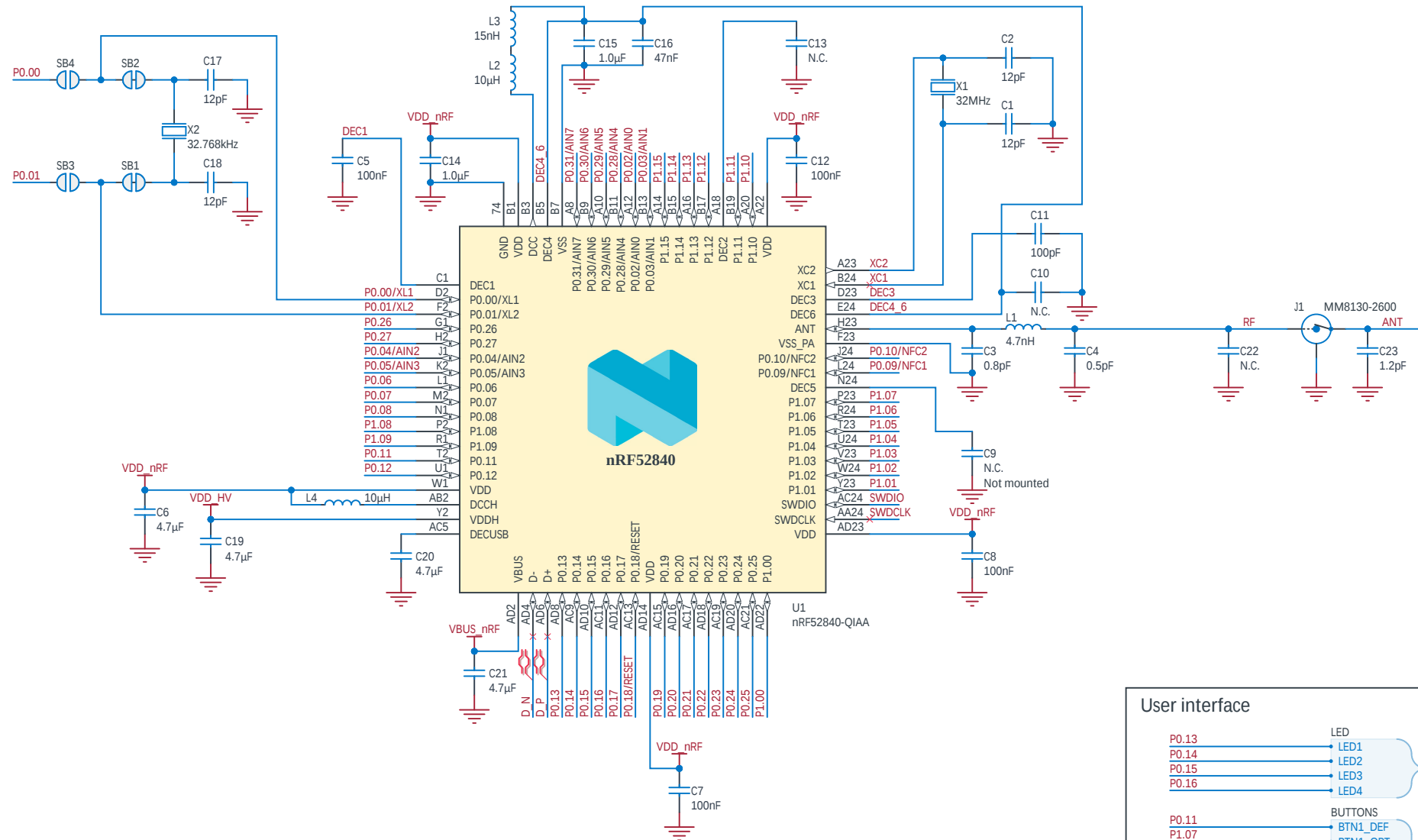
nRF52840 Bluetooth Low Energy/ANT/802.15.4/2.4GHz RF Development Board (PCA10056)

Sheet 1:	Cover
Sheet 2:	nRF52840 MCU
Sheet 3:	Interface MCU
Sheet 4:	Miscellaneous
Sheet 5:	Connectors
Sheet 6:	Power Supply

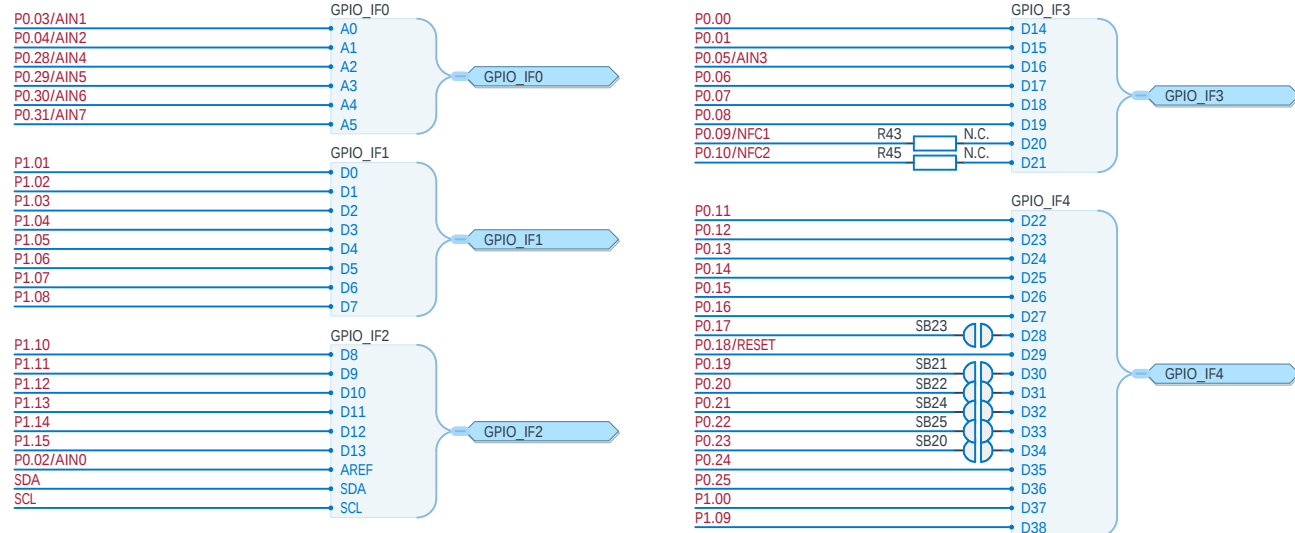


✖ The No ERC object is a design directive.
This directive is placed on a node in the circuit to suppress harmless warnings and/or error violation conditions that are detected when the schematic project is compiled.

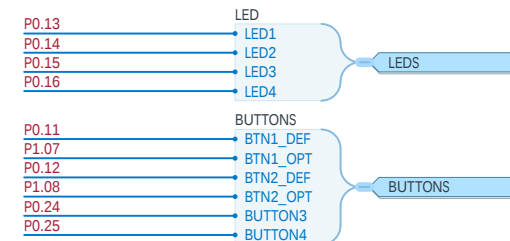
Title nRF52840 Development Board - Cover			
Size A3	PCB Assembly Number PCA10056	Revision 3.0.2	
Date: 2023.02.07			Sheet 1 of 6
File: pca10056_sheet1_cover.SchDoc			
Classification: Public			
			Drawn By: MASI/RUBR/STL1/RSK



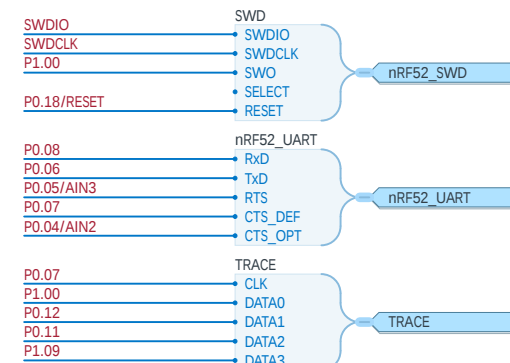
GPIO interface



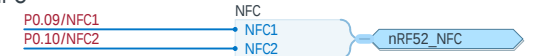
User interface



Debug interface



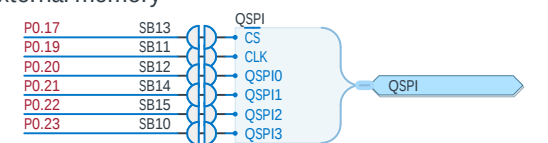
NFC



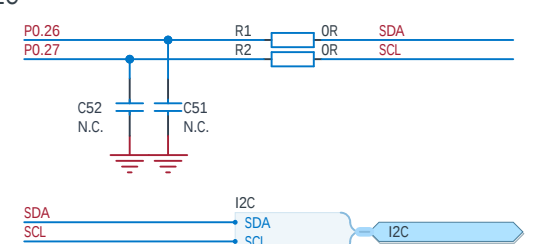
USB



External memory

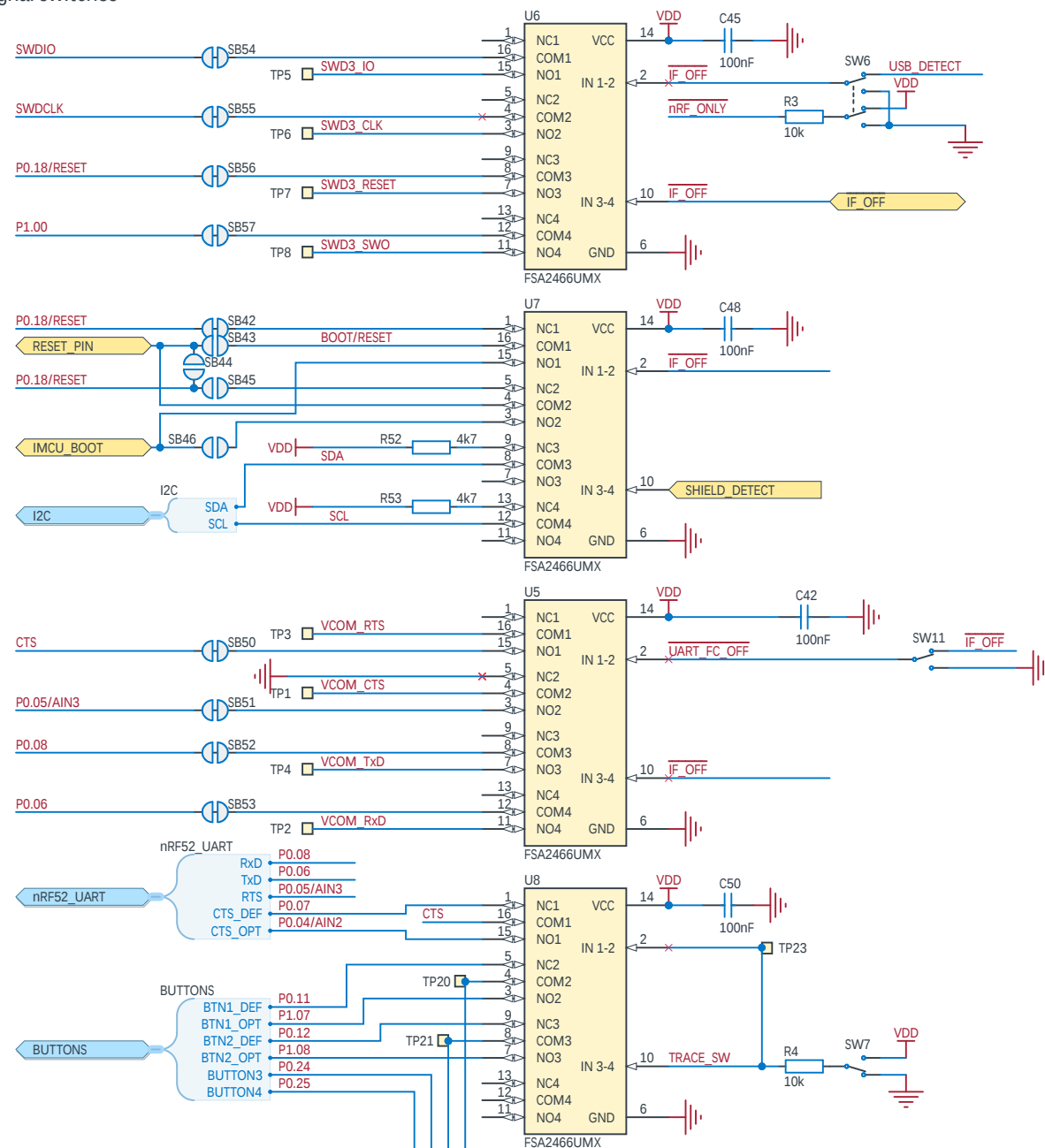


I2C

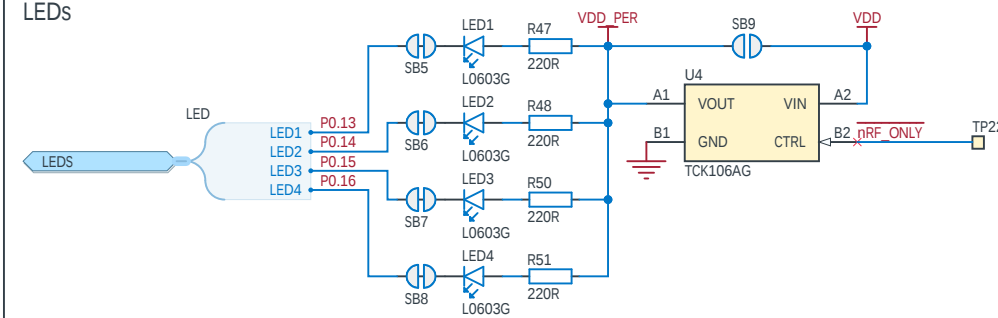


Title nRF52840 Development Board - nRF52840 MCU			
Size A3	PCB Assembly Number PCA10056	Revision 3.0.2	
Date: 2023.02.07		Sheet 2 of 6	
File: pca10056_sheet2_nrf52840_mcu.SchDoc		Drawn By: MASI/RUBR/STL1/RSK	
Classification: Public			

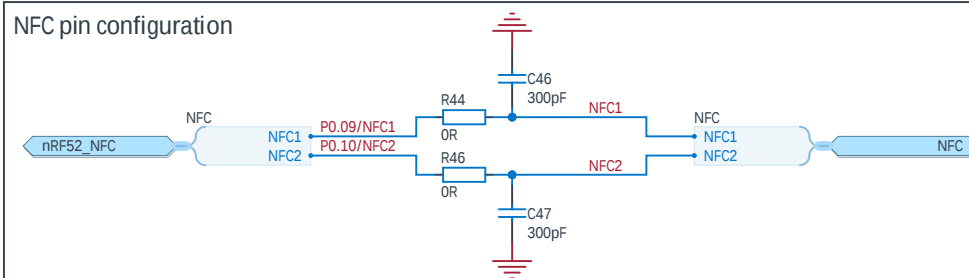
Signal switches



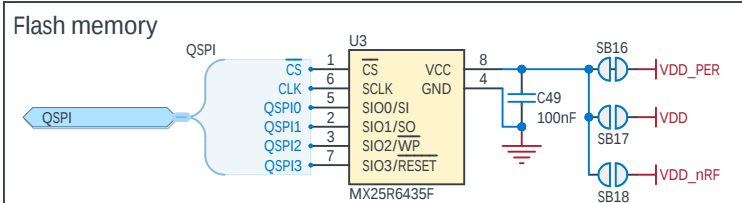
LEDs



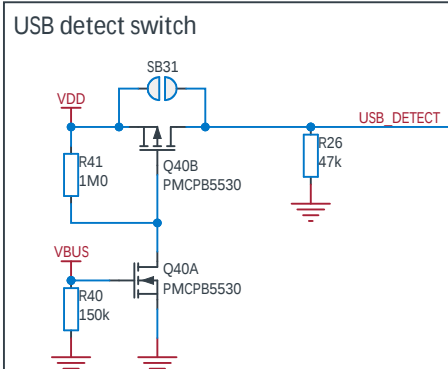
NFC pin configuration



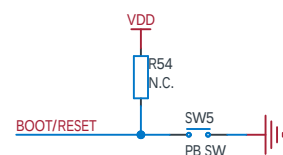
Flash memory



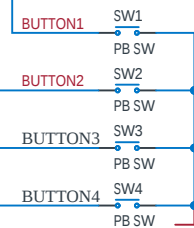
USB detect switch



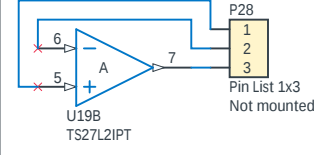
Boot/Reset button



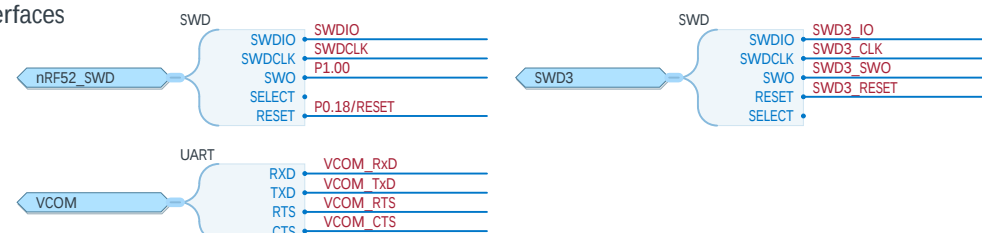
Buttons



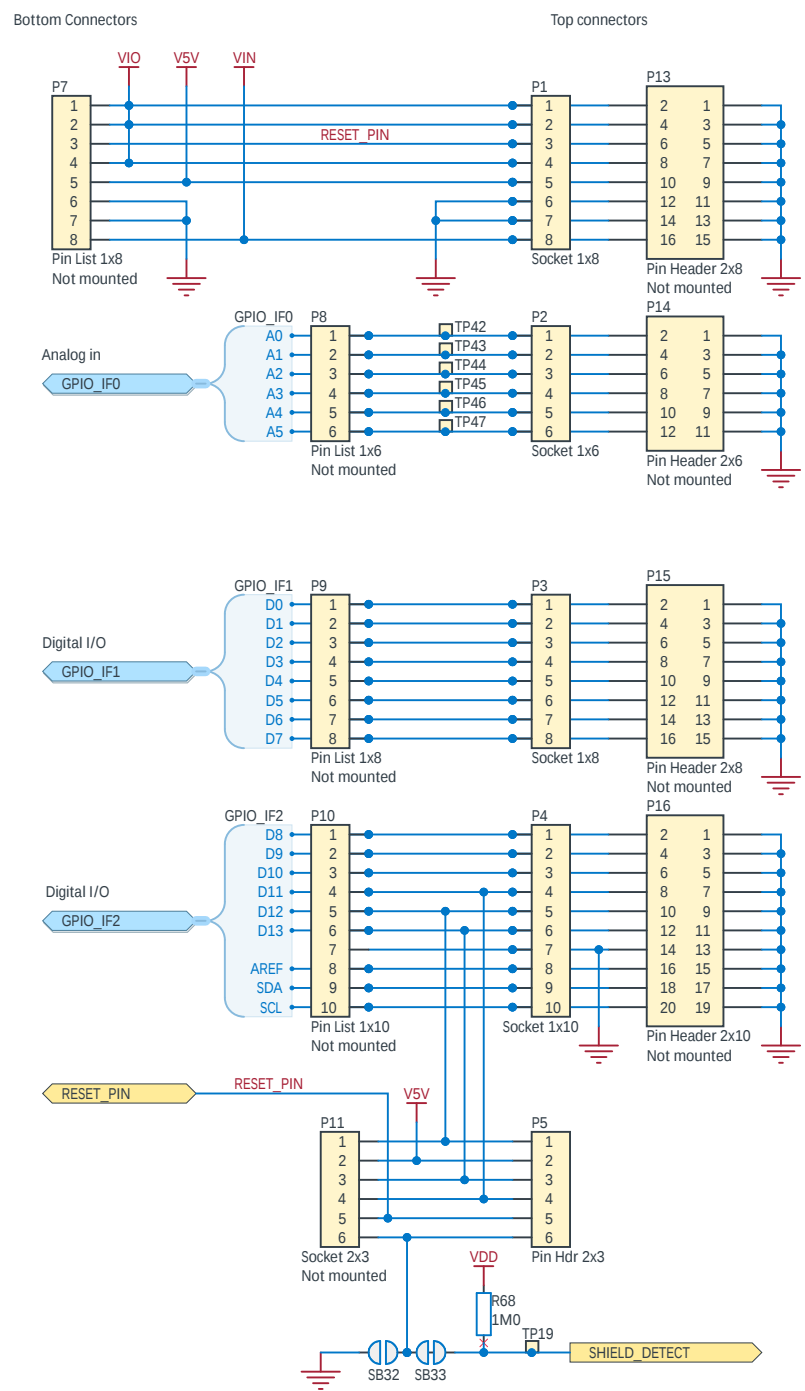
Extra Op-amp



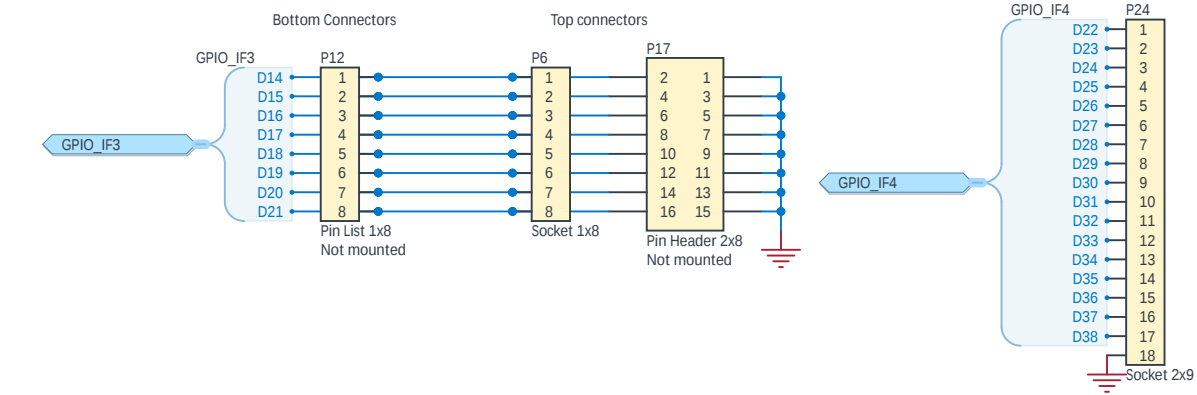
Debug interfaces



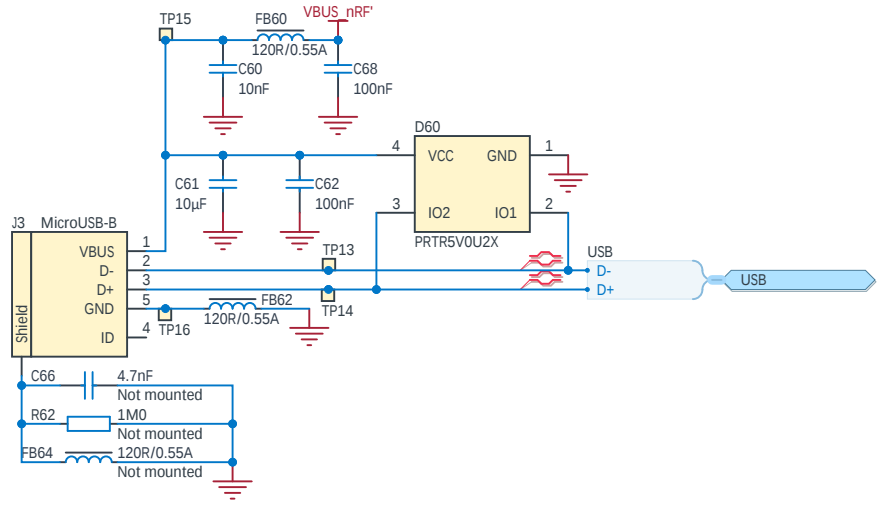
Arduino Interface Connectors



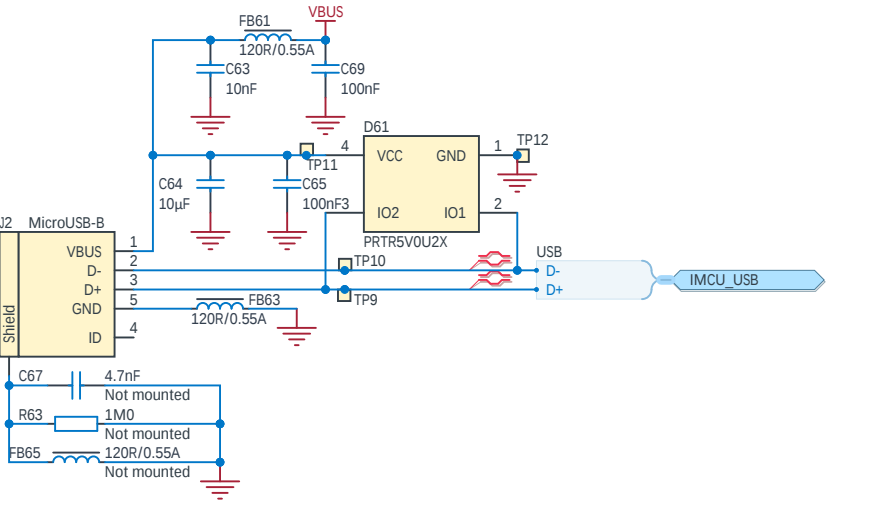
Auxiliary Connectors



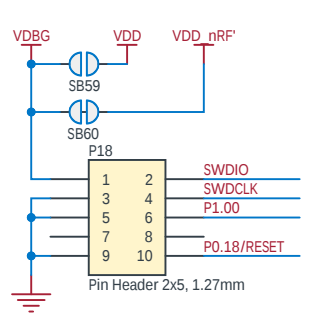
nRF USB Connector



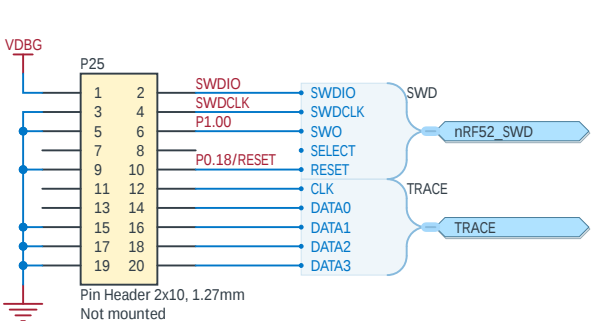
Interface MCU USB Connector



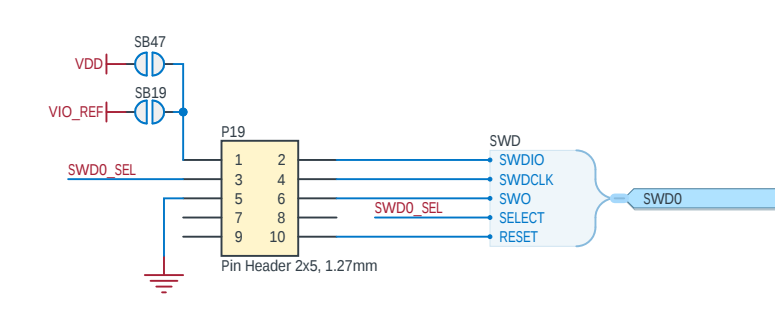
Debug IN Connector



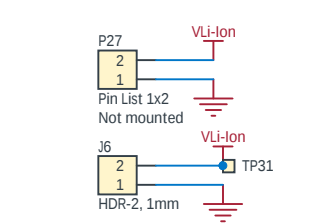
Trace connector



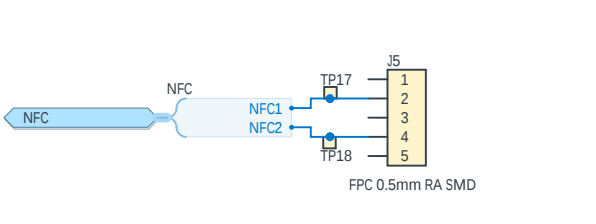
Debug OUT Connector



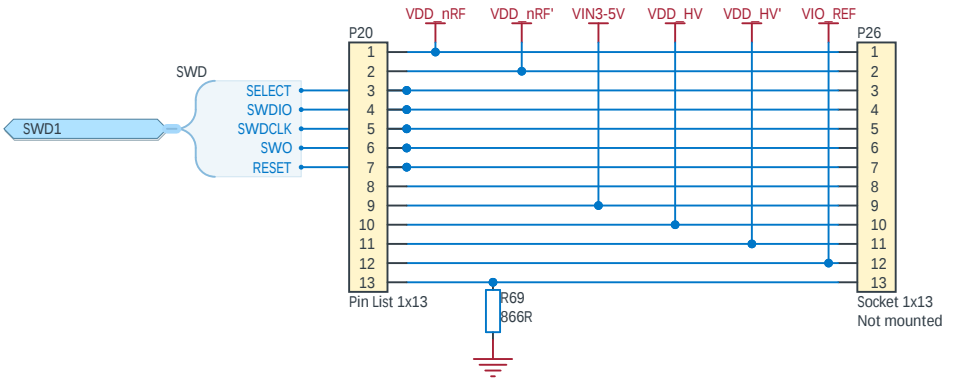
Li-ion connector



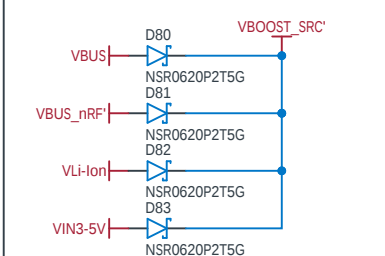
NFCT Antenna Connector



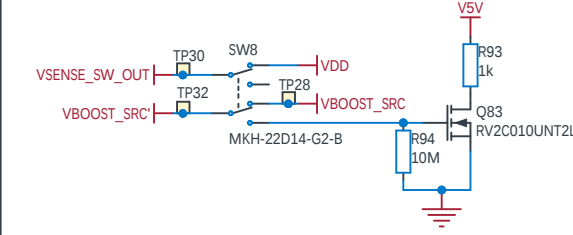
Shield Debug and Current measurement Connector



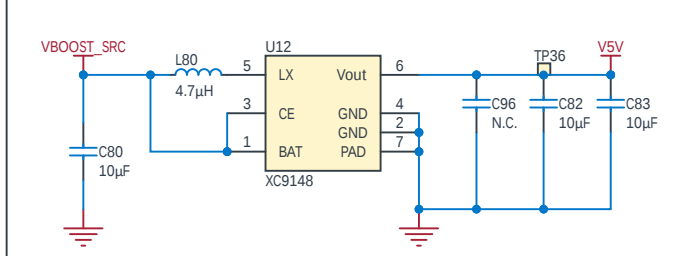
Power input, reverse protection



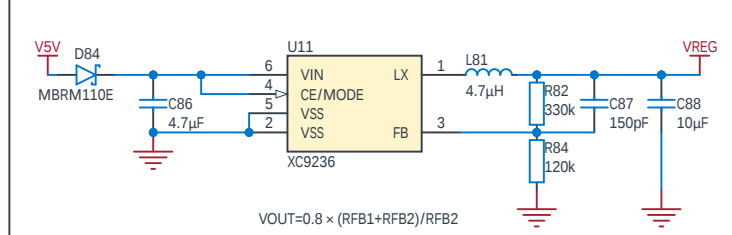
Power switch



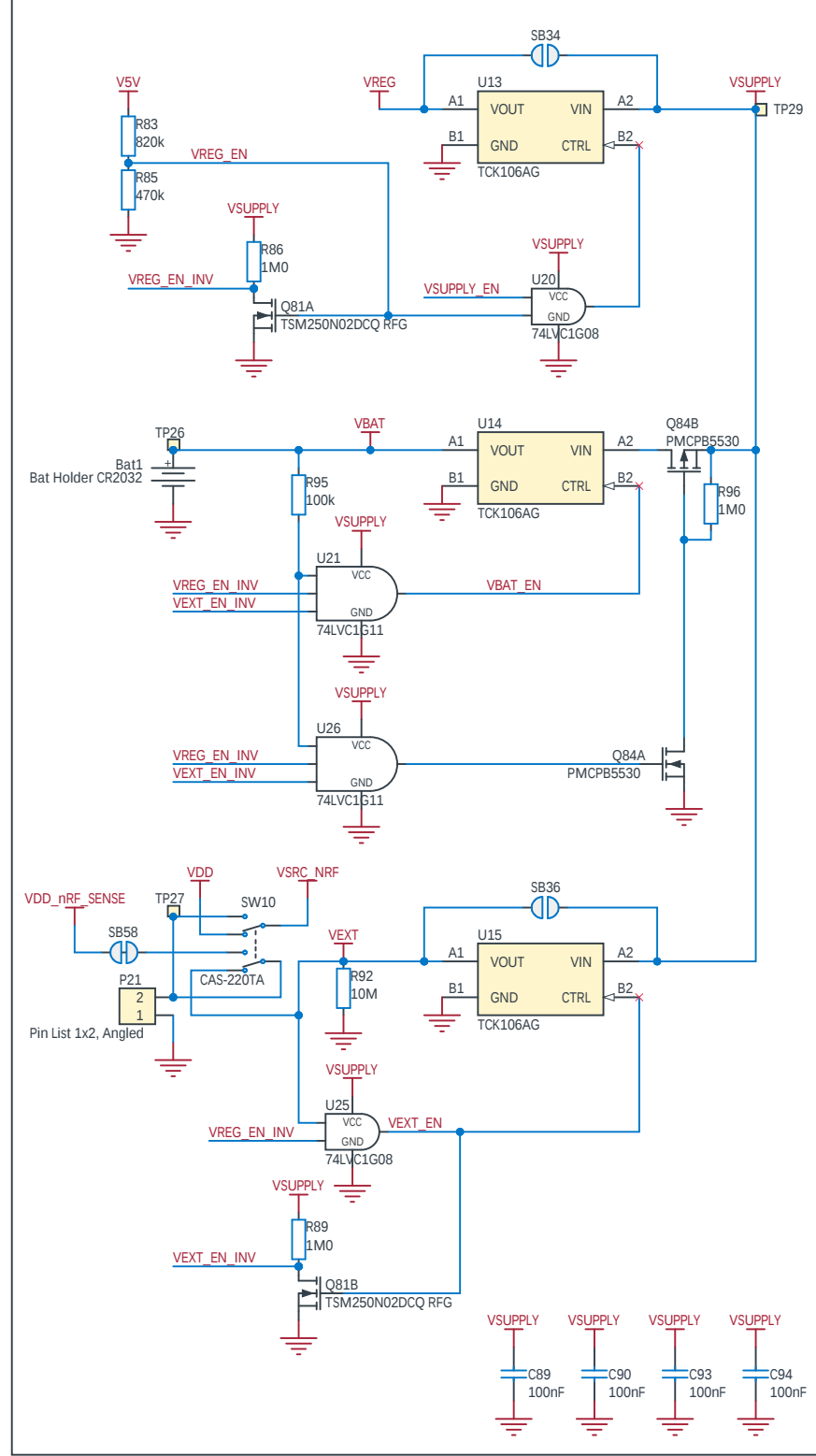
5V Boost regulator



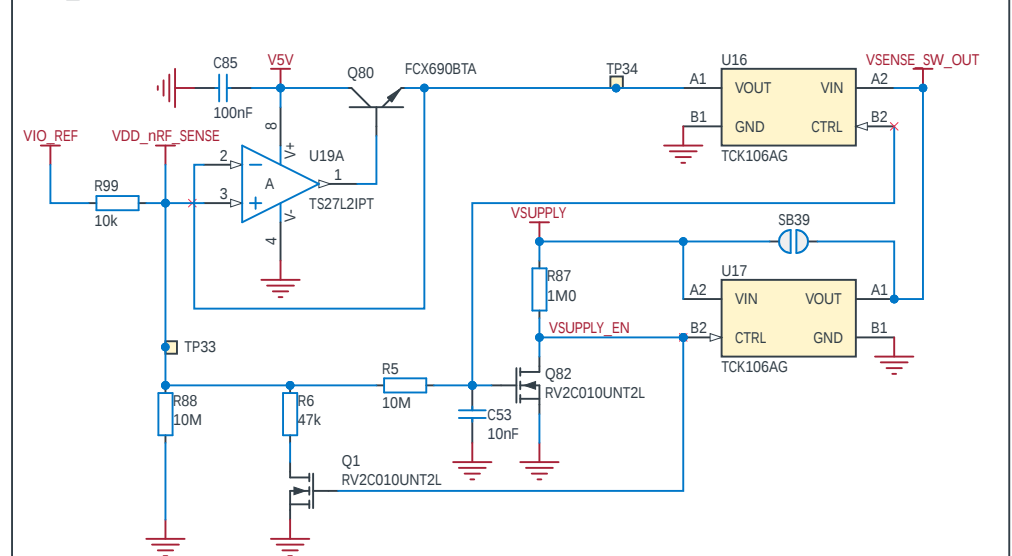
Buck regulator for VDD



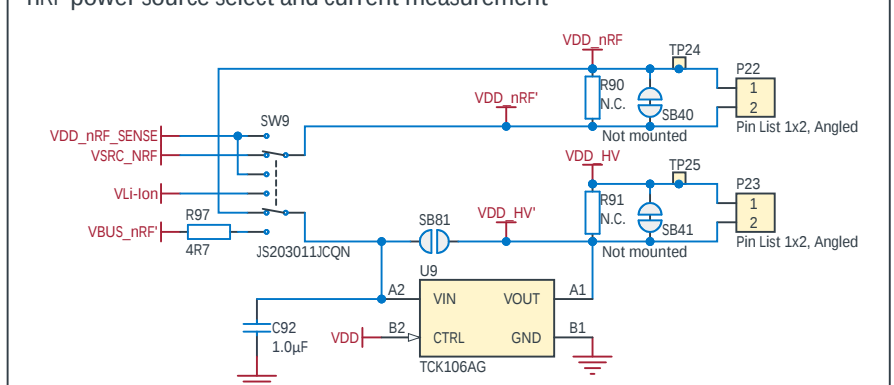
Power sources and switches



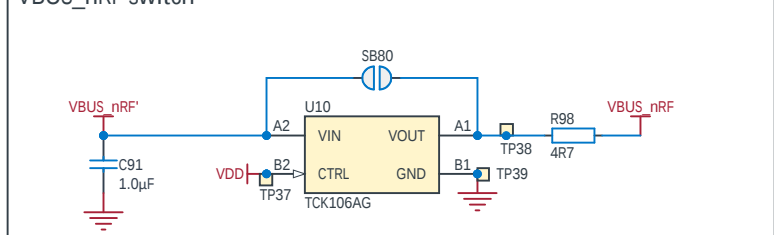
VDD_nRF sense buffer and switch



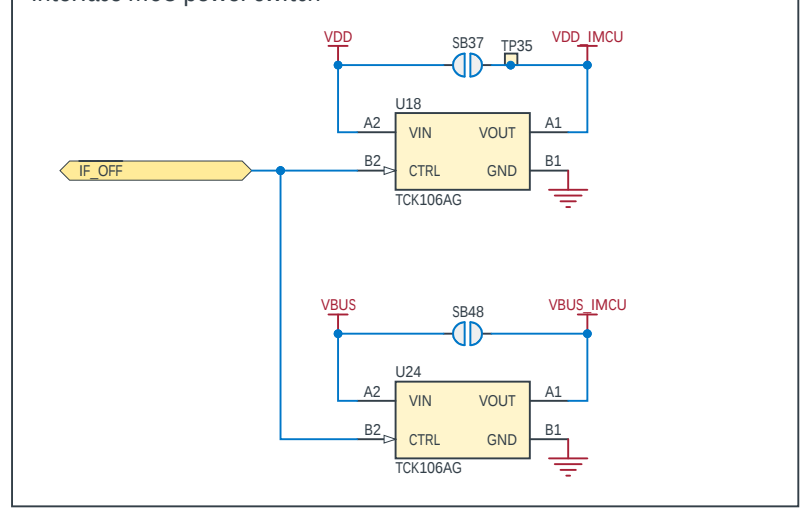
nRF power source select and current measurement



VBUS_nRF switch



Interface MCU power switch



Instrument ground



Title nRF52840 Development Board - Power Supply			
Size A3	PCB Assembly Number PCA10056	Revision 3.0.2	
Date: 2023.02.07		Sheet 6 of 6	
File: pca10056_sheet6_power_supply.SchDoc		Drawn By: MASI/RUBR/STL1/RSK	
Classification: Public			