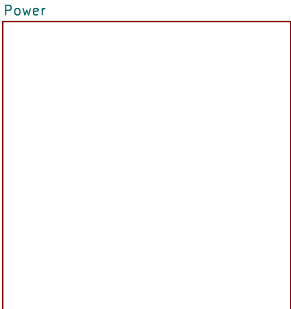


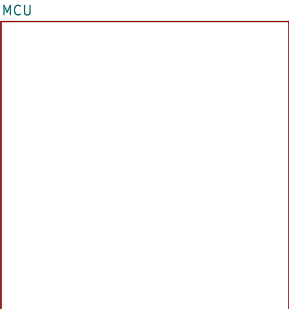
# Mixed–Signal Demo PCB

## [1] Power



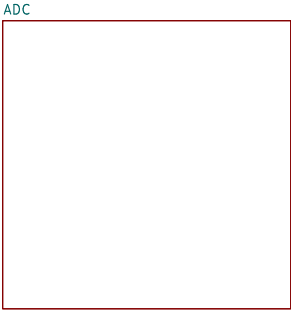
File: Power.kicad\_sch

## [2] MCU



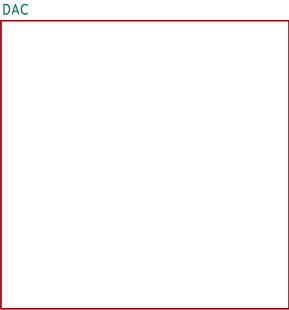
File: MCU.kicad\_sch

## [3] ADC



File: ADC.kicad\_sch

## [4] DAC



File: DAC.kicad\_sch

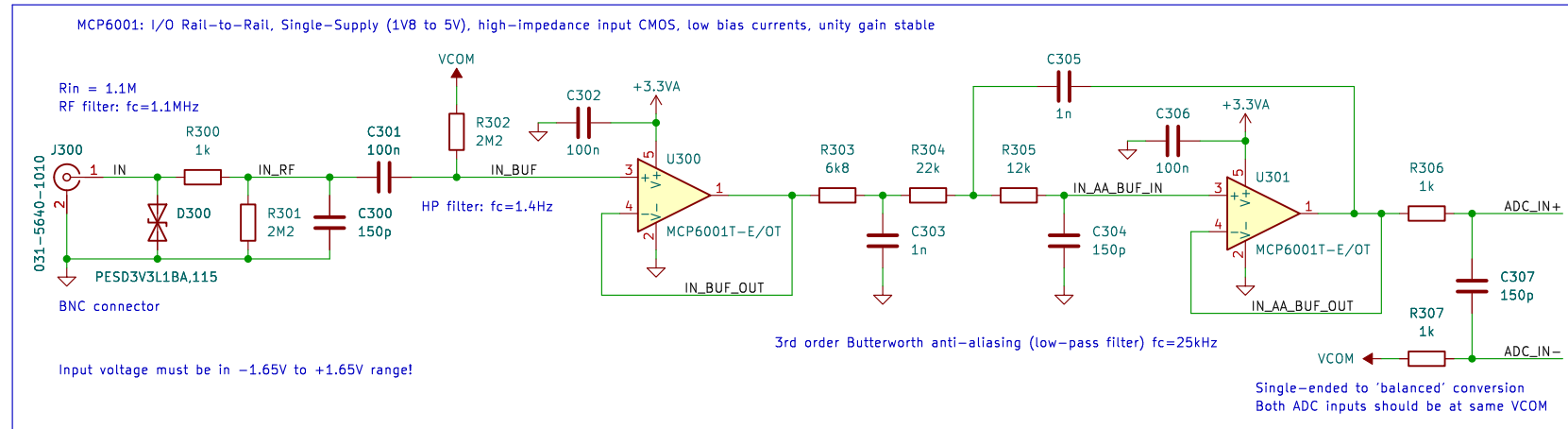
### Mounting Holes (M3)

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

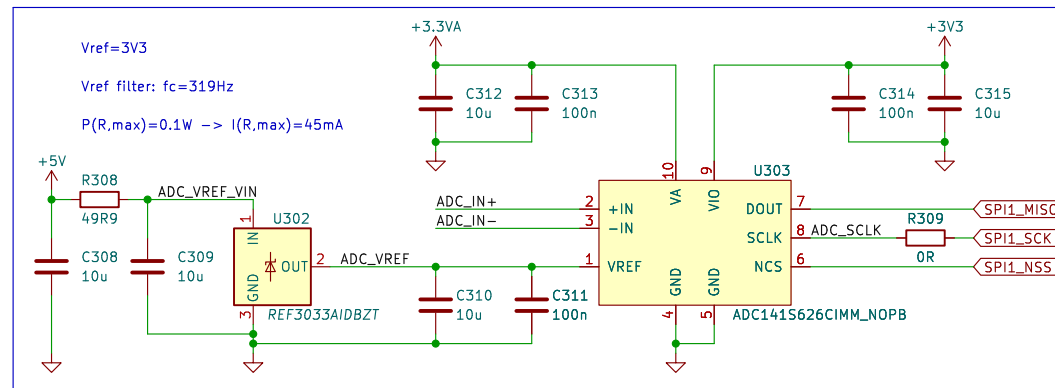
Sheet: /		
File: Nemesis–MixSigPCB.kicad_sch		
Title: <b>Mixed–Signal Demo PCB</b>		
Size: A4	Date: 2022–01–04	Rev: 0.1
KiCad E.D.A. 9.0.6		Id: 1/5

# [3] ADC & Analog Front-End

## Analogue Front-End



## 14-Bit S/H ADC



Sheet: /ADC/  
File: ADC.kicad\_sch

**Title: Mixed-Signal Demo PCB**

Size: A4  
KiCad E.D.A. 9.0.6

Date:

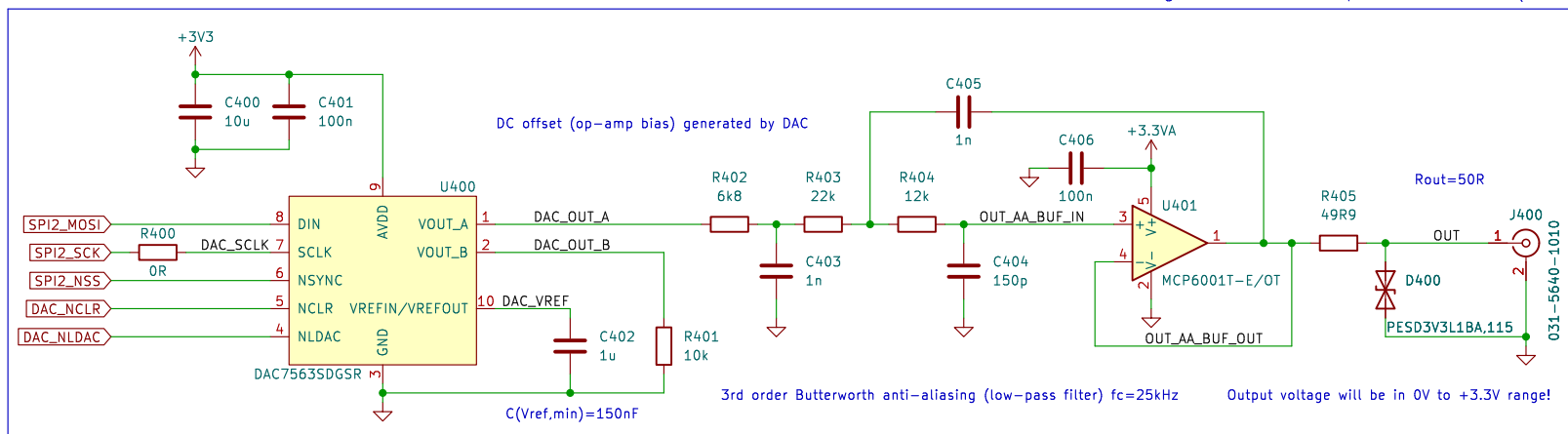
Rev: 0.1

Id: 2/5

## [4] DAC & Analog Output Circuitry

DAC

Anti-Aliasing Filter and Output Connector (BNC)



Sheet: /DAC/  
File: DAC.kicad\_sch

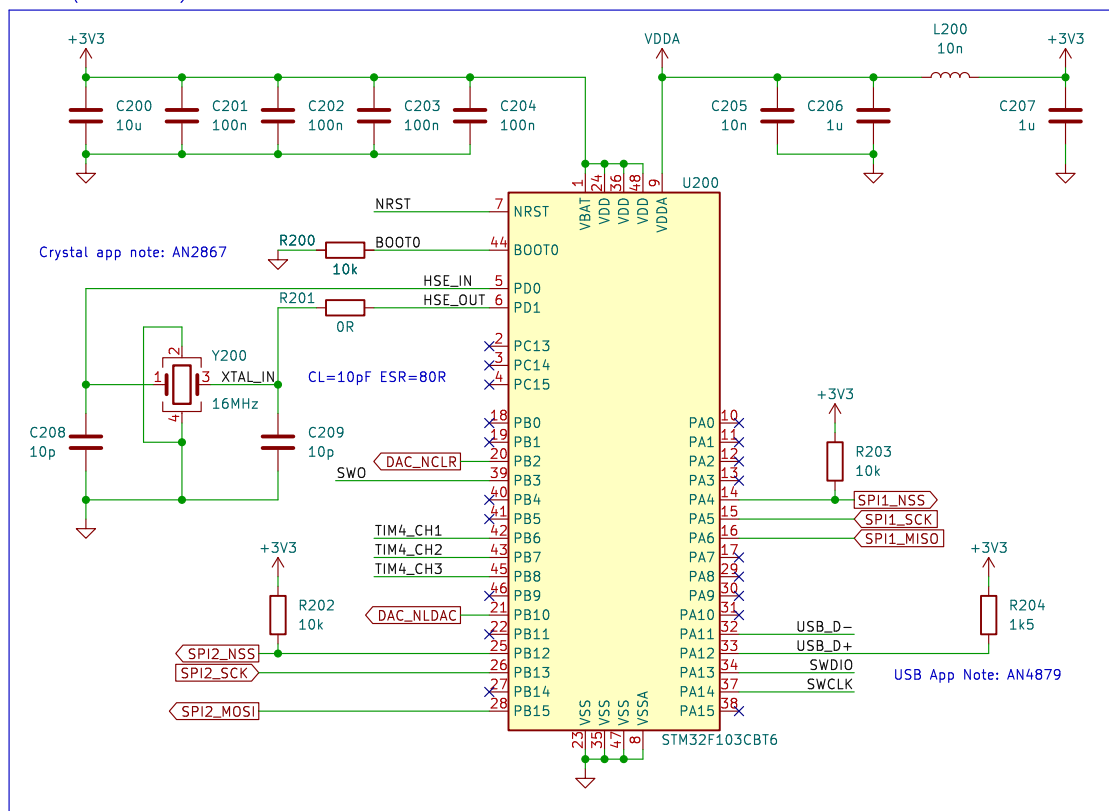
**Title: Mixed-Signal Demo PCB**

Size: A4  
KiCad E.D.A. 9.0.6

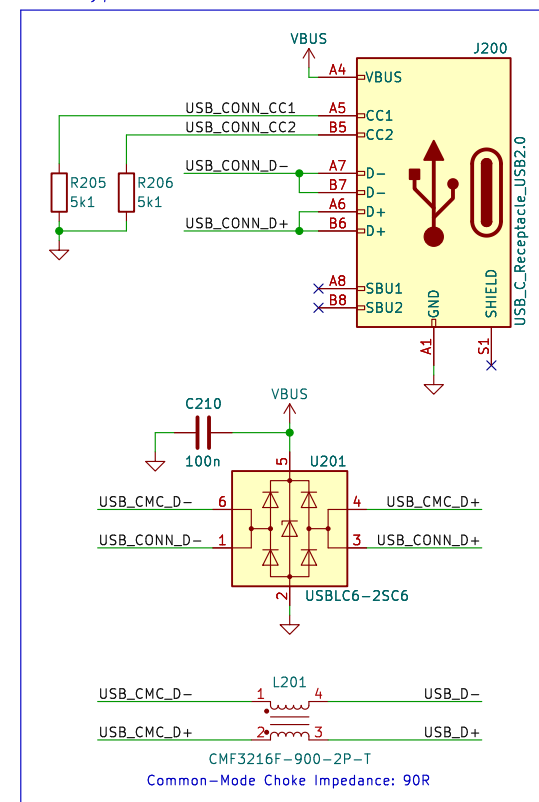
Date:

Rev: 0.1  
Id: 3/5

MCU (STM32F1)

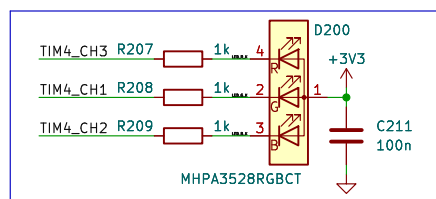


## USB Type C

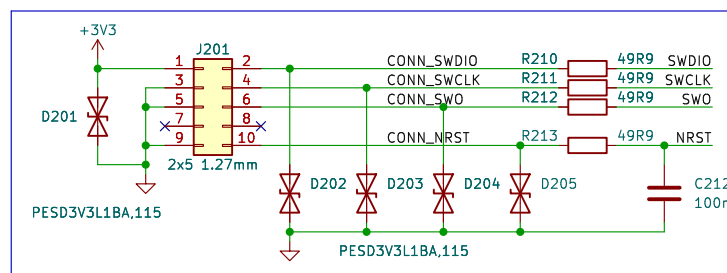


Signal Path:  
Connector <--> ESD Protection <--> Common-Mode Choke <--> Pull-Up <--> MCU

RGB LED



SWD Header



Sheet: /MCU/	
File: MCU.kicad_sch	
<b>Title: Mixed-Signal Demo PCB</b>	
Size: A4	Rev: 0.1
Date: 2021-12-24	
KiCad E.D.A. 9.0.6	Id: 4/5

