Analog IO

File: analog_io.kicad_sch

Power regulation

File: power_regulation.kicad_sch

Board connectors

File: board_connectors.kicad_sch

User IO

File: user_io.kicad_sch

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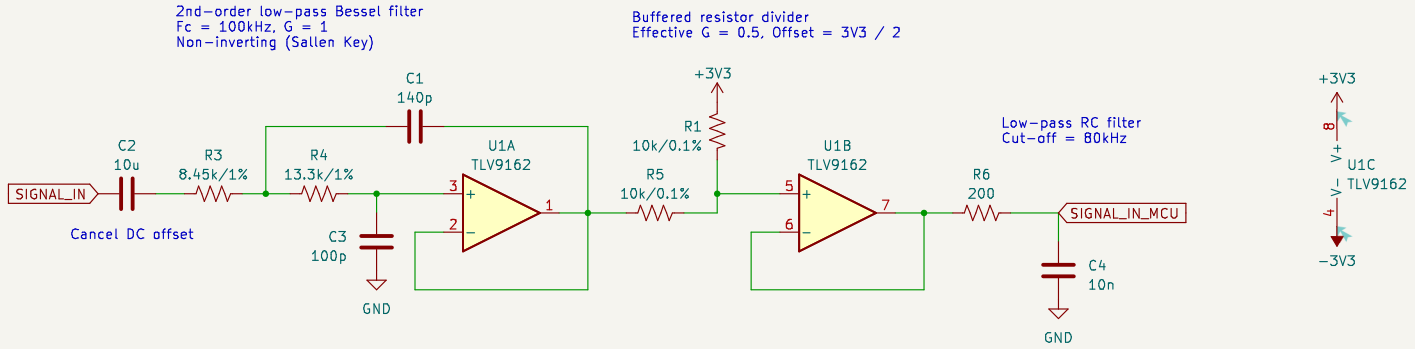
Sheet: /

File: DSP PAW add-on board.kicad_sch

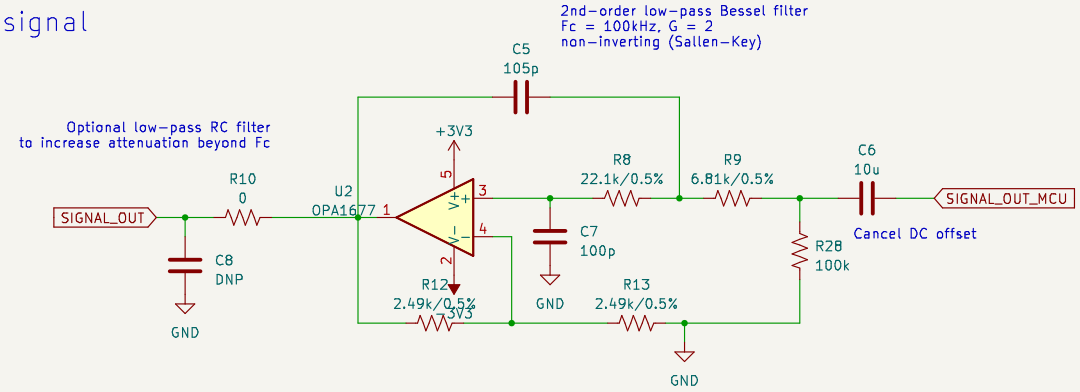
Title: DSP PAW add-on board

Size: A4	Date: 2023-09-23	**Rev: 2**
KiCad E.D.A. kicad 7.0.6+dfsg-1		Id: 1/5

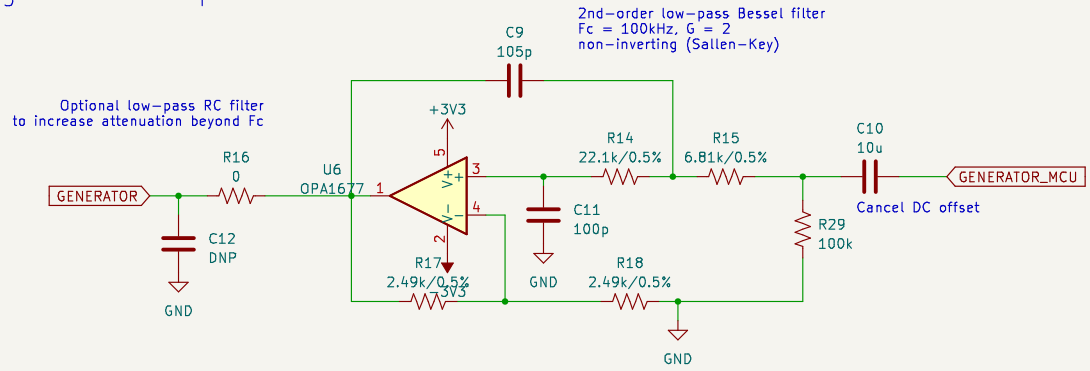
Input signal



Output signal



Signal generator output



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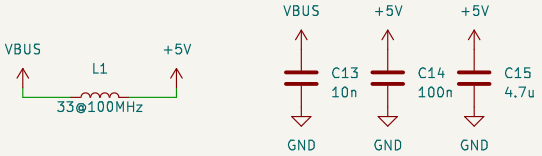
Sheet: /Analog IO/
File: analog_io.kicad_sch

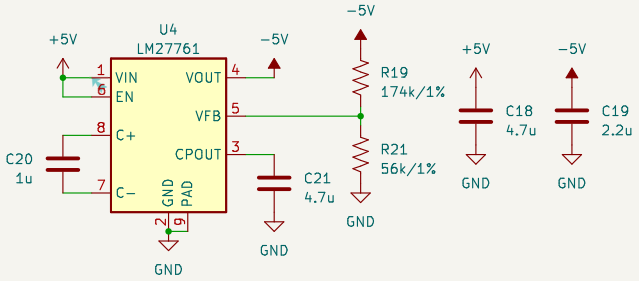
Title: DSP PAW add-on board

Size: A4	Date: 2023-09-23	**Rev: 2**
KiCad E.D.A. kicad 7.0.6+dfsg-1		Id: 2/5

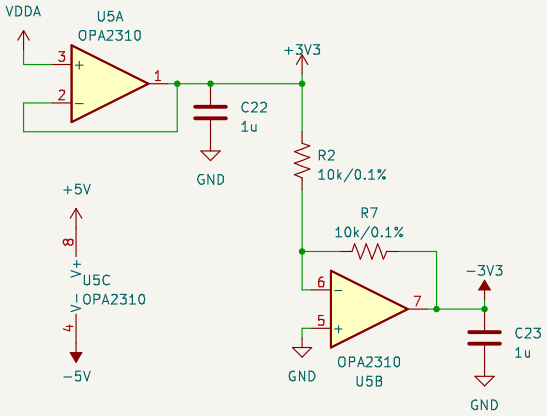
Noise filtering for +5V from VBUS



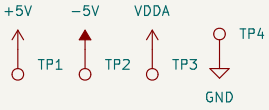
+5V inverter



Analog voltage reference



Supply test points



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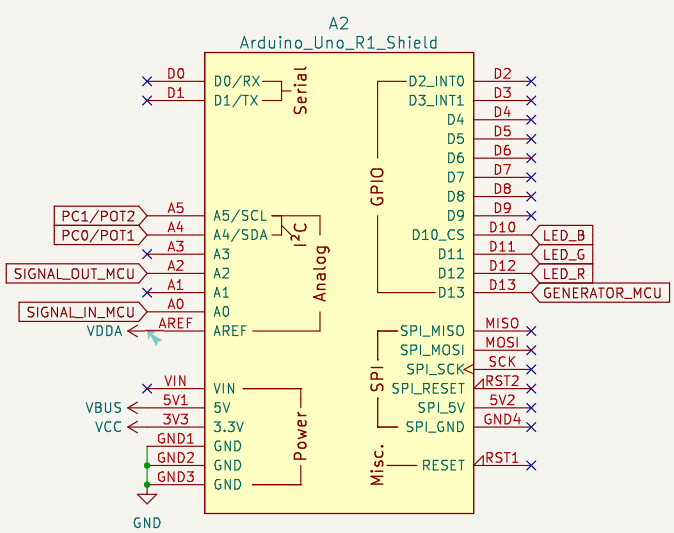
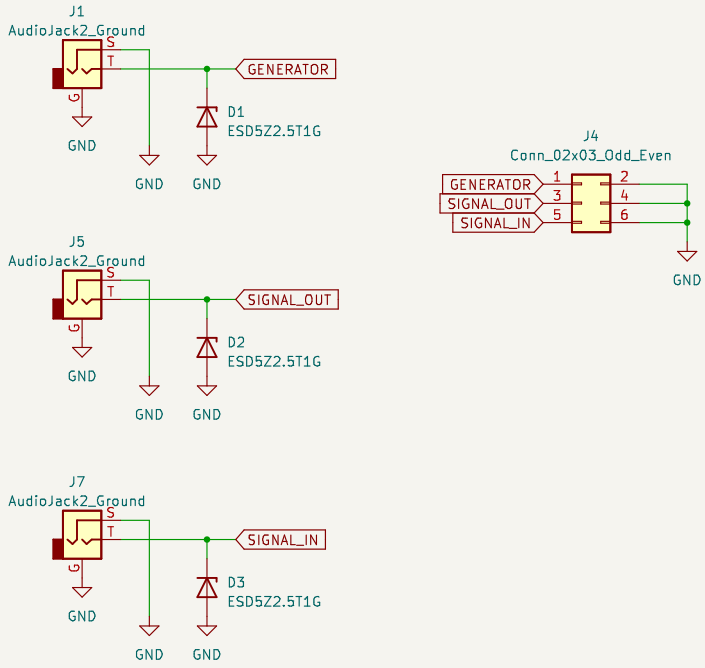
Sheet: /Power regulation/ File: power_regulation.kicad_sch		
Title: DSP PAW add-on board		
Size: A4	Date: 2023-09-23	**Rev: 2**
KiCad E.D.A. kicad 7.0.6+dfsg-1		Id: 3/5

Arduino shield connector

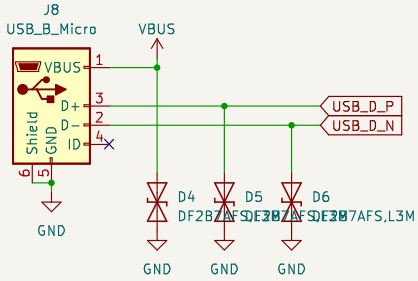


External signal connectors

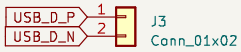
External signals are to be within +/− 2V.



USB to host computer



to NUCLEO board



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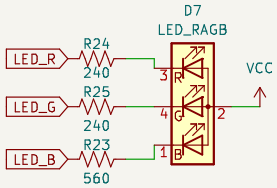
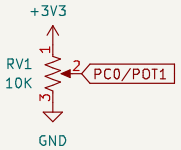
Sheet: /Board connectors/
File: board_connectors.kicad_sch

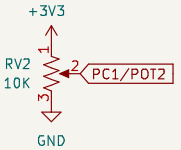
Title: DSP PAW add-on board

Size: A4	Date: 2023-09-23	**Rev: 2**
KiCad E.D.A. kicad 7.0.6+dfsg-1		Id: 4/5

Status LEDs and parameter knobs







Can substitute other resistances given component availability

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Sheet: /User IO/
File: user_io.kicad_sch

Title: DSP PAW add-on board

Size: A4	Date: 2023-09-23	**Rev: 2**
KiCad E.D.A. kicad 7.0.6+dfsg-1		Id: 5/5