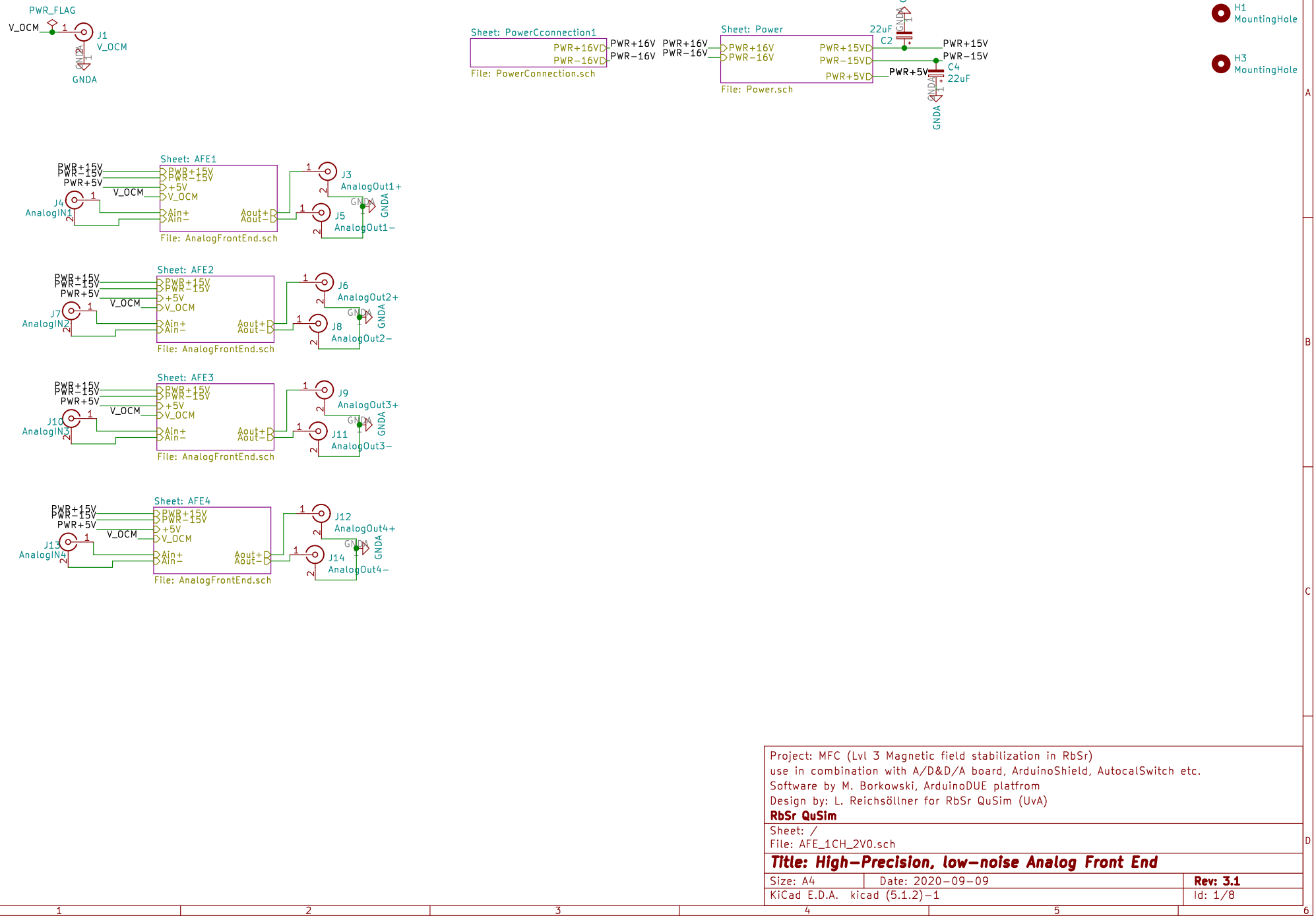


Project: MFC (Lvl 3 Magnetic field stabilization in RbSr)
use in combination with A/D&D/A board, ArduinoShield, AutocalSwitch etc.
Software by M. Borkowski, ArduinoDUE platfrom
Design by: L. Reichsöllner for RbSr QuSim (UvA)
**RbSr QuSim**

Sheet: /
File: AFE_1CH_2V0.sch

***Title: High−Precision, low−noise Analog Front End***

| Size: A4 | Date: 2020−09−09 | **Rev: 3.1** |
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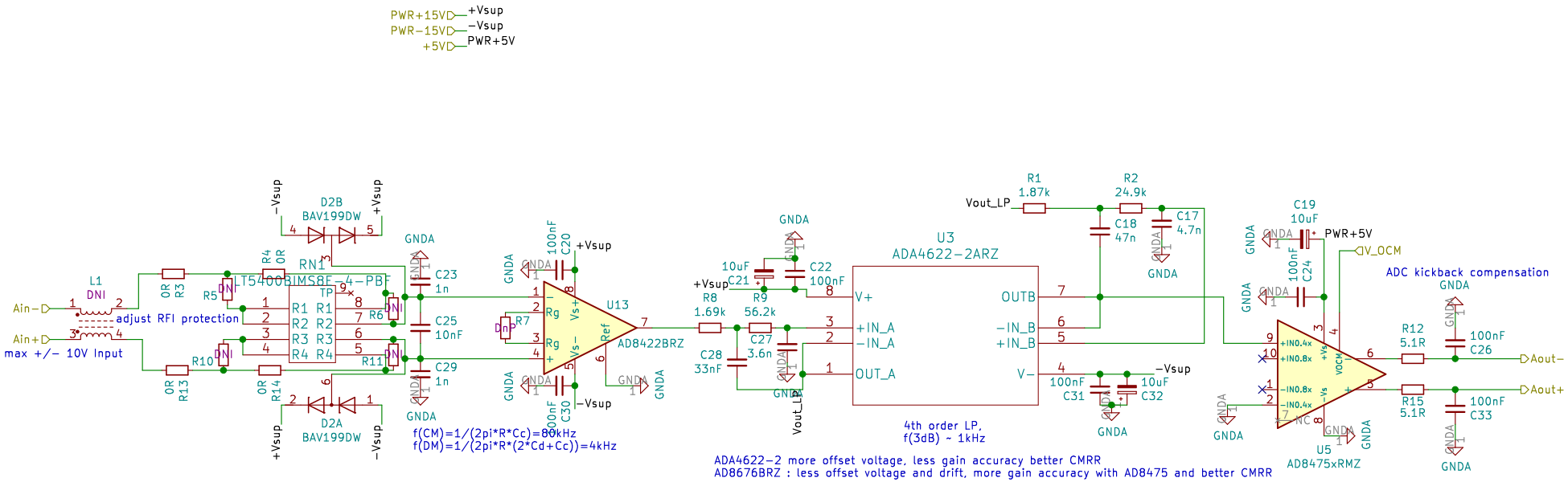
| KiCad E.D.A. kicad (5.1.2)−1 | | Id: 1/8 |

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|---|---|
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| Sheet: /AFE1/<br>File: AnalogFrontEnd.sch | |
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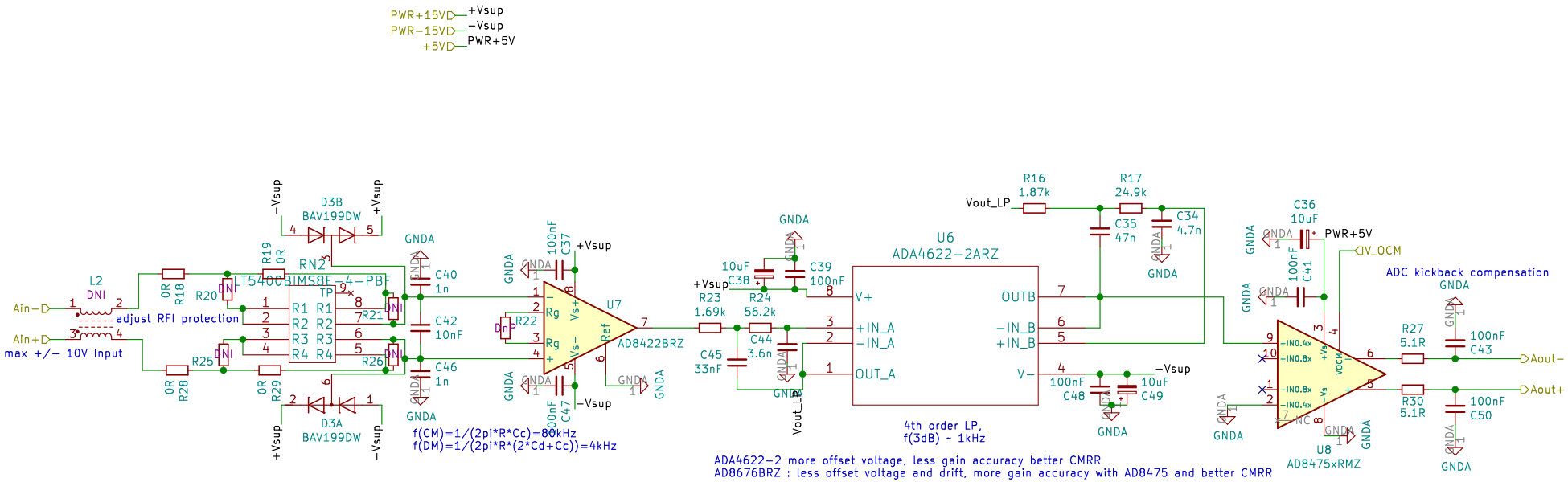
| Size: A4 | Date: 2020−09−09 |
| KiCad E.D.A. kicad (5.1.2)−1 | Id: 2/8 |
| | **Rev: 3.1** |

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|---|---|---|
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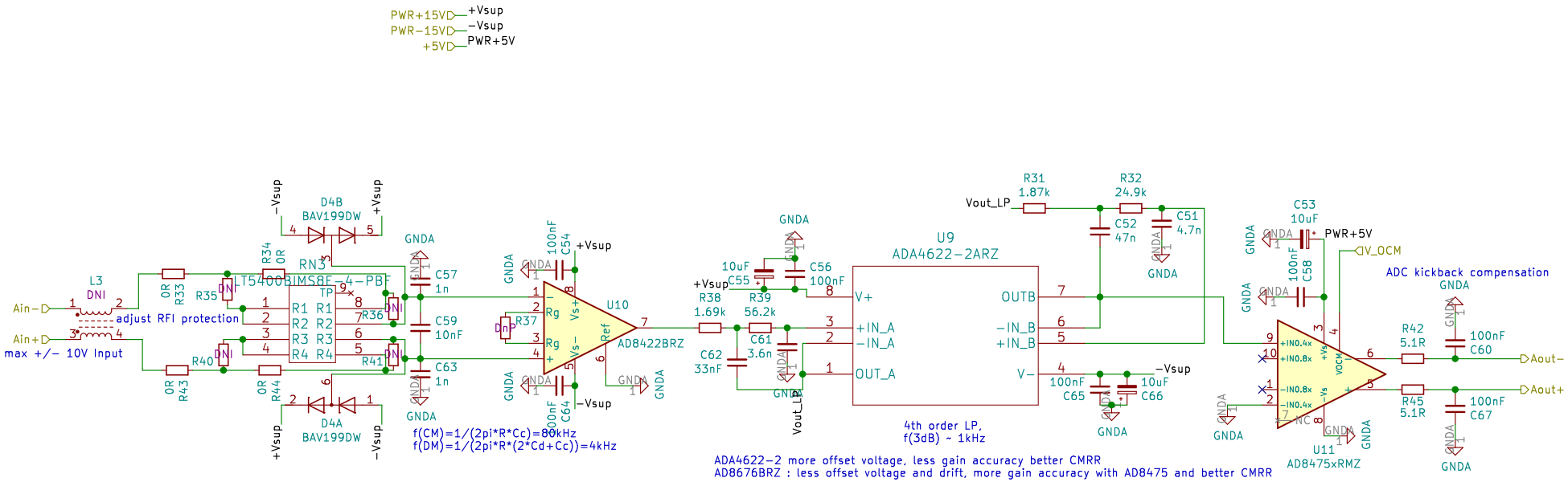
| Sheet: /AFE2/<br>File: AnalogFrontEnd.sch | | |
| ***Title: High−Precision, low−noise Analog Front End*** | | |
| Size: A4 | Date: 2020−09−09 | **Rev: 3.1** |
| KiCad E.D.A. kicad (5.1.2)−1 | | Id: 3/8 |




ADA4622−2 more offset voltage, less gain accuracy better CMRR
AD8676BRZ : less offset voltage and drift, more gain accuracy with AD8475 and better CMRR

set R3−R6 and  to select total resistance of RN1:500R or 1k or 2k(default)
make path R10,R11,R13,R14 identical!! (otherwise CMRR compromised)

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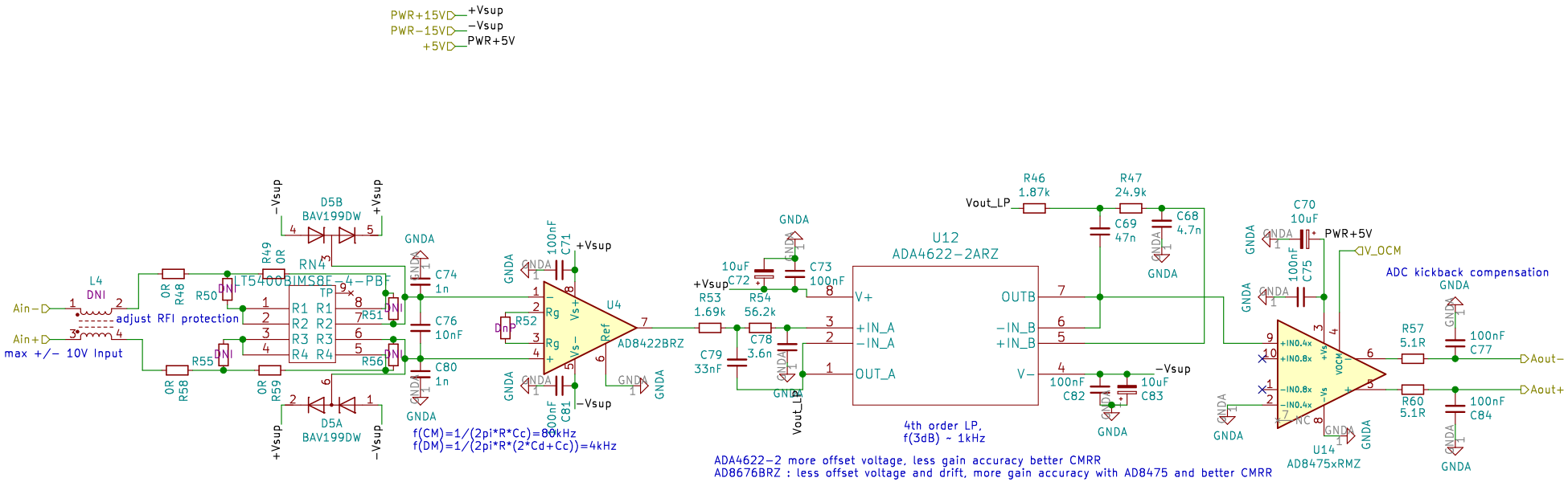
**RbSr QuSim**

Sheet: /AFE3/
File: AnalogFrontEnd.sch

***Title: High−Precision, low−noise Analog Front End***

| Size: A4 | Date: 2020−09−09 | **Rev: 3.1** |
|---|---|---|
| KiCad E.D.A. kicad (5.1.2)−1 | | Id: 4/8 |

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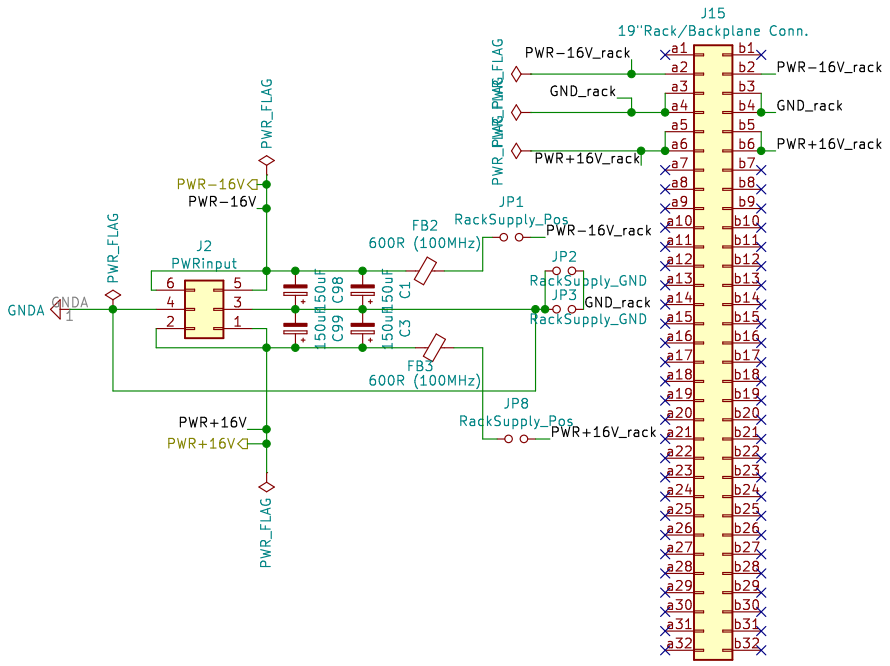
Design by: L. Reichsöllner for RbSr QuSim (UvA)
**RbSr QuSim**

Sheet: /AFE4/
File: AnalogFrontEnd.sch

***Title: High−Precision, low−noise Analog Front End***

| Size: A4 | Date: 2020−09−09 | **Rev: 3.1** |
|---|---|---|
| KiCad E.D.A. kicad (5.1.2)−1 | | Id: 5/8 |

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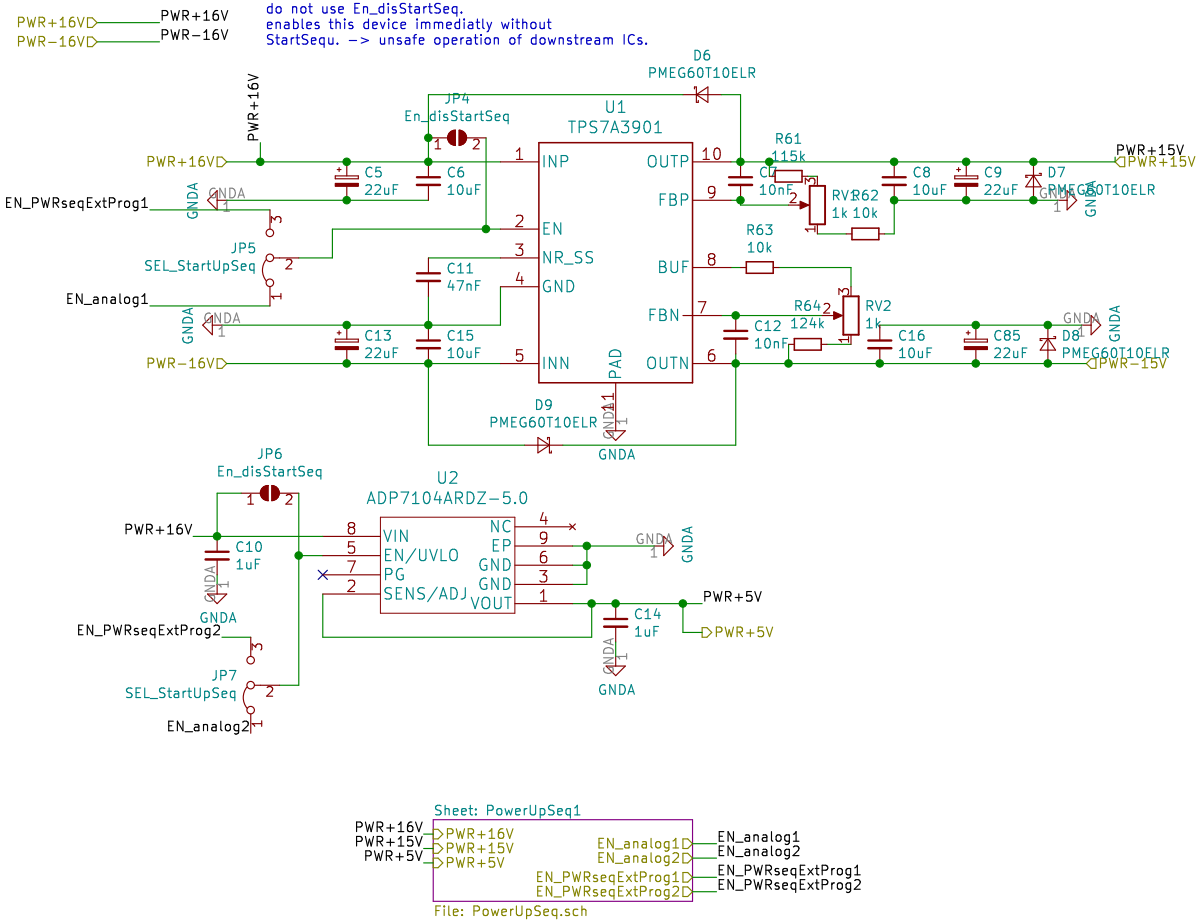
**RbSr QuSim**

Sheet: /PowerCconnection1/
File: PowerConnection.sch

***Title: High-Precision, low-noise Analog Front End***

| Size: A4 | Date: 2020-09-09 | **Rev: 3.1** |
|---|---|---|
| KiCad E.D.A. kicad (5.1.2)-1 | | Id: 6/8 |

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Sheet: /Power/
File: Power.sch

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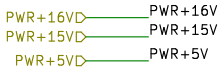
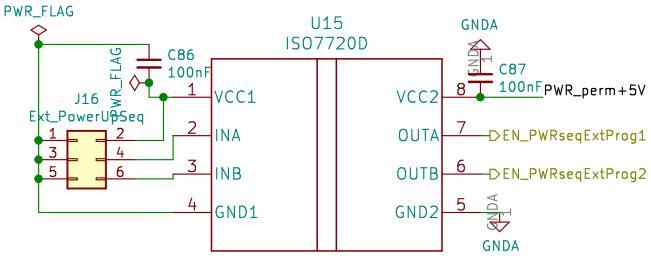
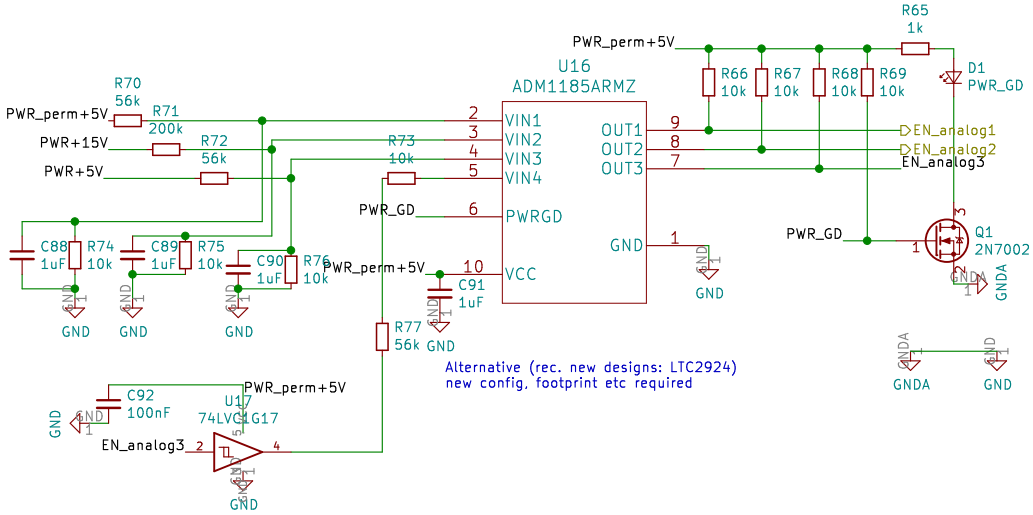
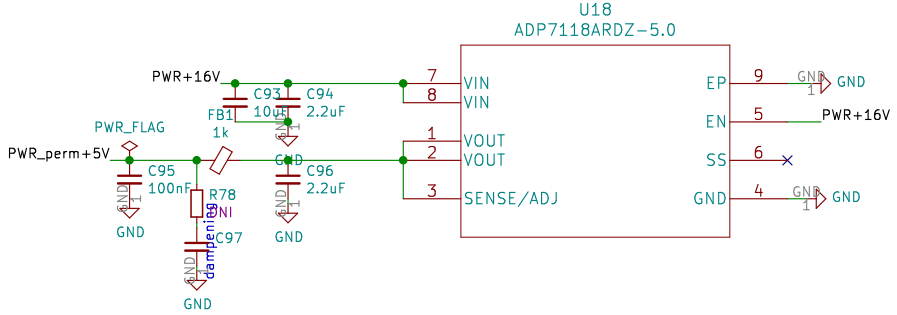
| Size: A4 | Date: 2020−09−09 | **Rev: 3.1** |
|---|---|---|
| KiCad E.D.A. kicad (5.1.2)−1 | | Id: 7/8 |




| | | |
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| Sheet: /Power/PowerUpSeq1/<br>File: PowerUpSeq.sch | | |
| **Title: High-Precision, low-noise Analog Front End** | | |
| Size: A4 | Date: 2020-09-09 | **Rev: 3.1** |
| KiCad E.D.A. kicad (5.1.2)-1 | | Id: 8/8 |