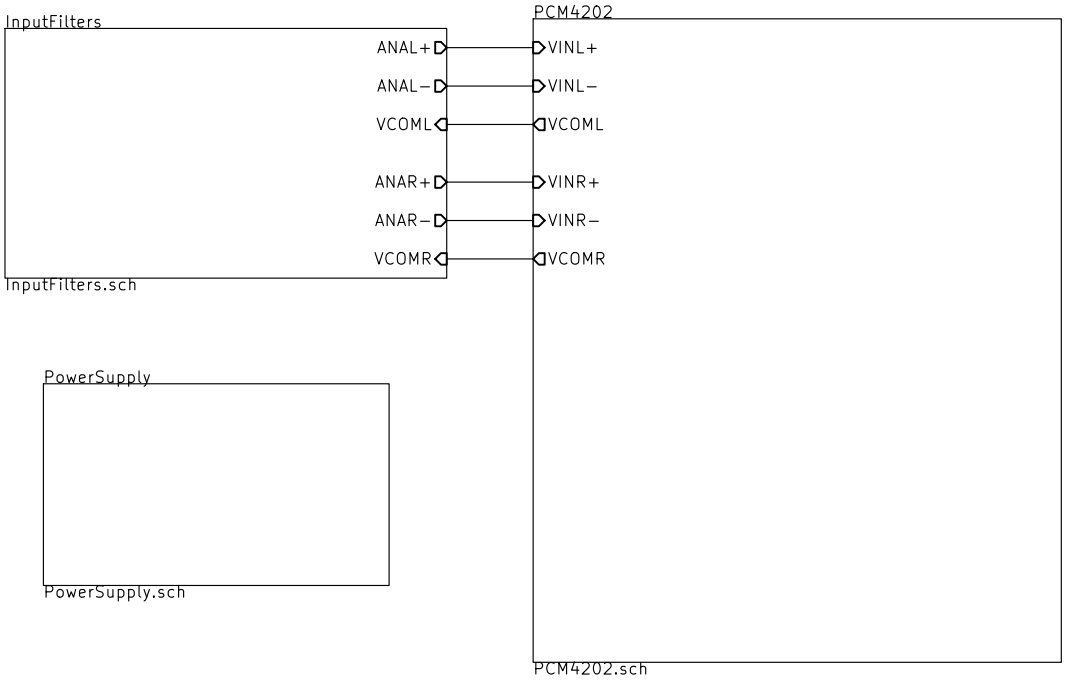
Open Hardware DSP Platform – www.ohdsp.org
PCM4202 ADC – Single Ended Inputs
Revision 1.1



Notes:

All digital I/O is 3V3. Use outside this voltage can cause damage.

See bill of materials for detailed parts information.

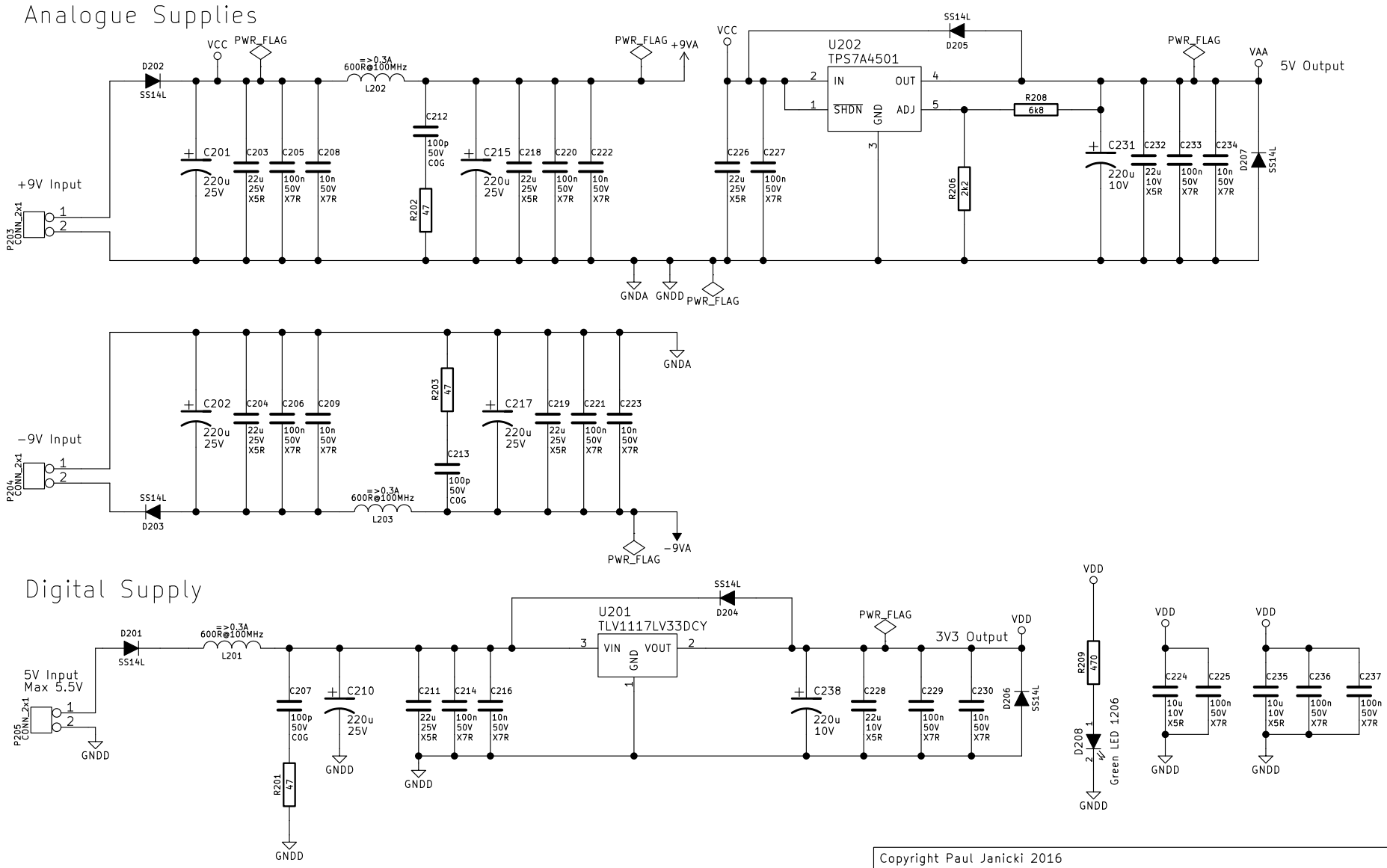
Trace impedance on MCLK and I2S is designed for approx 89ohm.
26AWG ribbon cable used with Ground–Signal–Ground is approx 89ohm.

Copyright Paul Janicki 2016
Licensed under the TAPR Open Hardware License (www.tapr.org/OHL). This documentation is distributed WITHOUT ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE.
Open Hardware DSP Platform – www.ohdsp.org

Sheet: /
File: ADC–PCM4202–SE.sch

Title: PCM4202 ADC – Single Ended Inputs

Size: A4	Date: 2016–04–20	**Rev: 1.1**
KiCad E.D.A. kicad 4.0.2–stable		Id: 1/4



Mounting Holes and Fiducials

MNT201 MNT203 FID1 FID2

MNT202 MNT204 FID3 FID4

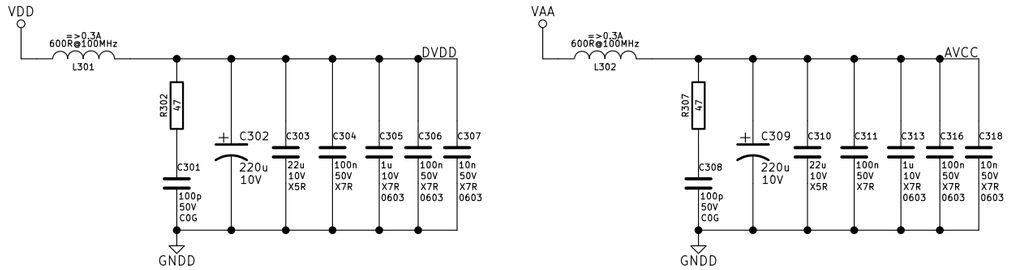
Copyright Paul Janicki 2016
Licensed under the TAPR Open Hardware License (www.tapr.org/OHL). This documentation is distributed WITHOUT ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE.
Open Hardware DSP Platform – www.ohdsp.org

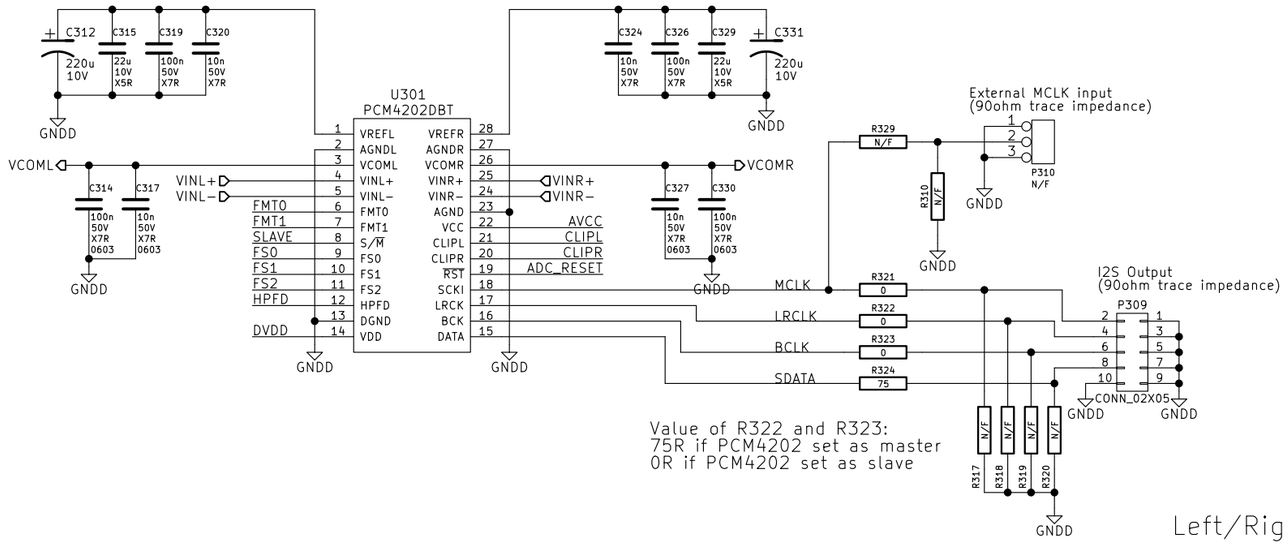
Sheet: /PowerSupply/
File: PowerSupply.sch

Title: PCM4202 ADC – Single Ended Inputs

Size: A4	Date: 2016-04-20	**Rev: 1.1**
KiCad E.D.A. kicad 4.0.2-stable		Id: 2/4

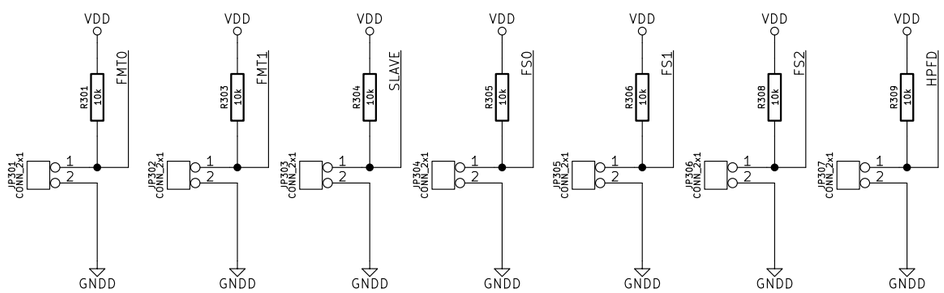
PCM4202 ADC





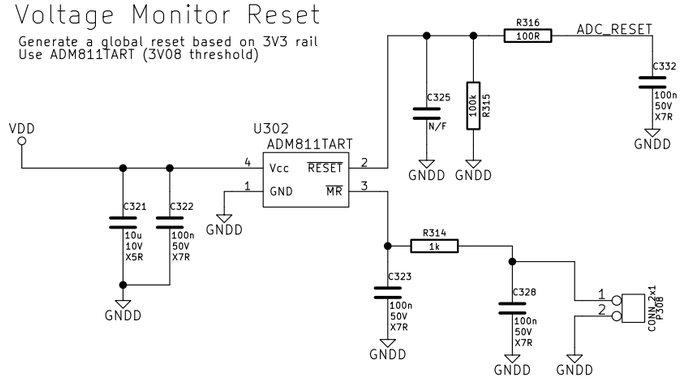
Configuration Pins

Refer to datasheet for information on configuration

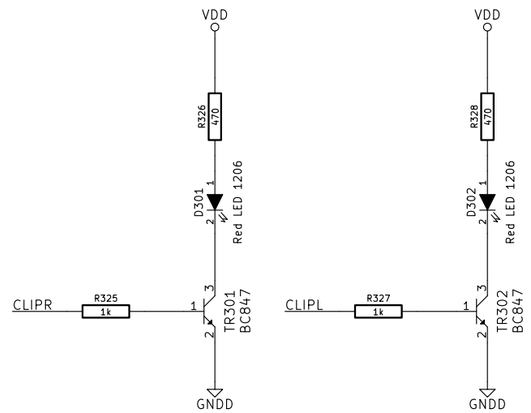


Voltage Monitor Reset

Generate a global reset based on 3V3 rail
Use ADM811TART (3V08 threshold)



Left/Right Clipping Indicators

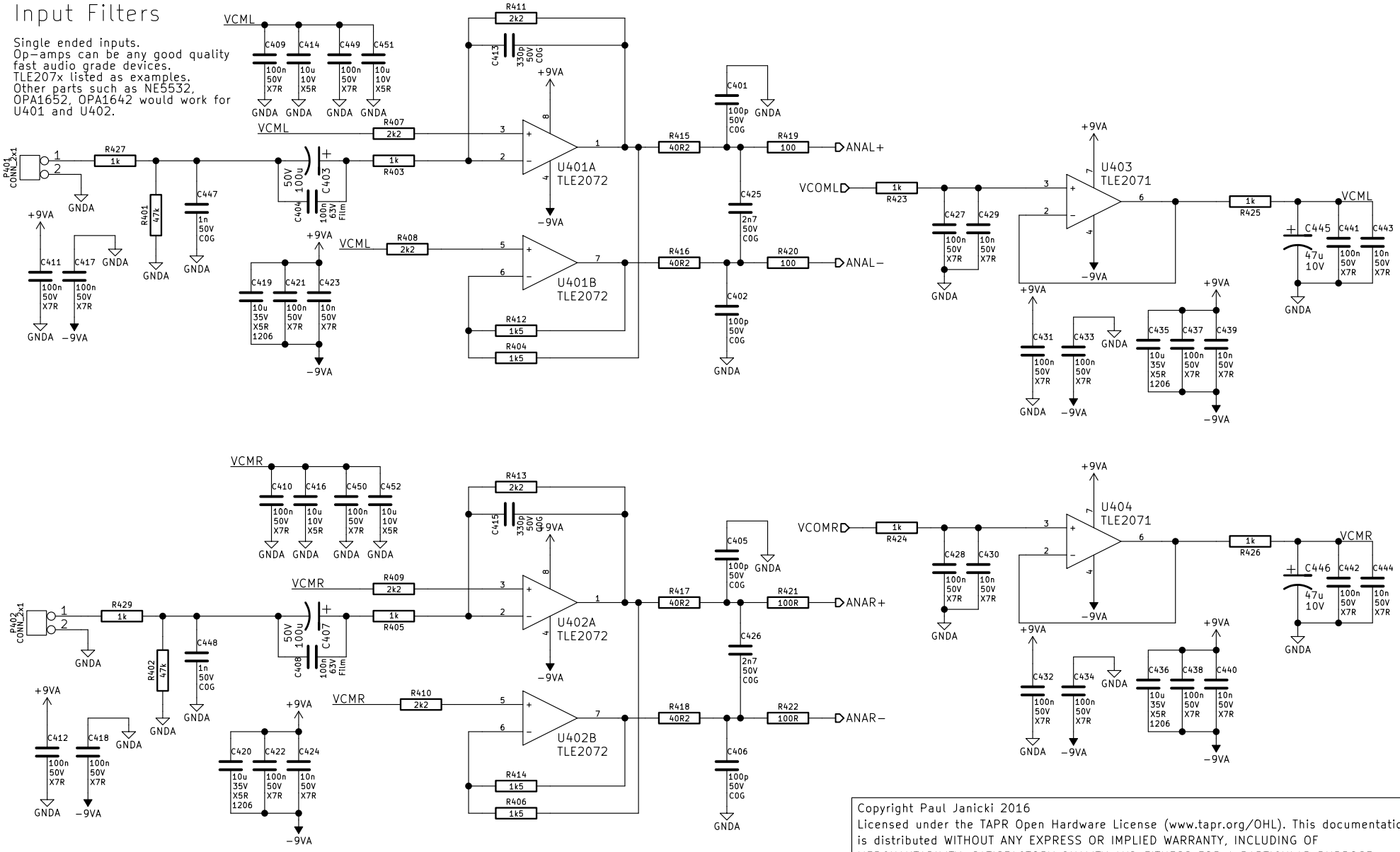


Copyright Paul Janicki 2016
Licensed under the TAPR Open Hardware License (www.tapr.org/OHL). This documentation is distributed WITHOUT ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE.
Open Hardware DSP Platform – www.ohdsp.org

Sheet: /PCM4202/
File: PCM4202.sch

Title: PCM4202 ADC – Single Ended Inputs

Size: A3	Date: 2016-04-20	**Rev: 1.1**
KiCad E.D.A. kicad 4.0.2-stable		Id: 3/4



Copyright Paul Janicki 2016
Licensed under the TAPR Open Hardware License (www.tapr.org/OHL). This documentation is distributed WITHOUT ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE.
Open Hardware DSP Platform – www.ohdsp.org

Sheet: /InputFilters/
File: InputFilters.sch

Title: PCM4202 ADC – Single Ended Inputs

Size: A4	Date: 2016-04-20	**Rev: 1.1**
KiCad E.D.A. kicad 4.0.2-stable		Id: 4/4