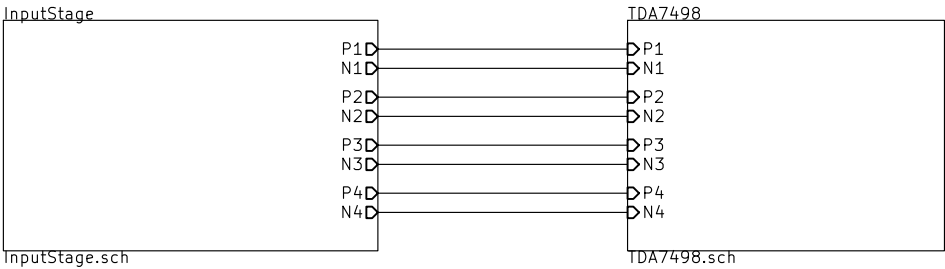


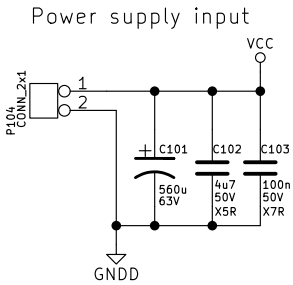
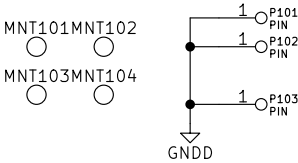
Open Hardware DSP Platform – [www.ohdsp.org](http://www.ohdsp.org)  
AmpOne – Class D Amp Module  
Revision 1.0

Notes:

Power supply voltage range is 12V to 36V depending on amp IC used.  
Peak current at 36V when pushing max power into 8ohms will approach 20A.  
Ensure input power wiring can handle 20A.  
Recommend 2.5mm2 (13AWG) or larger power cable for minimum voltage drop.



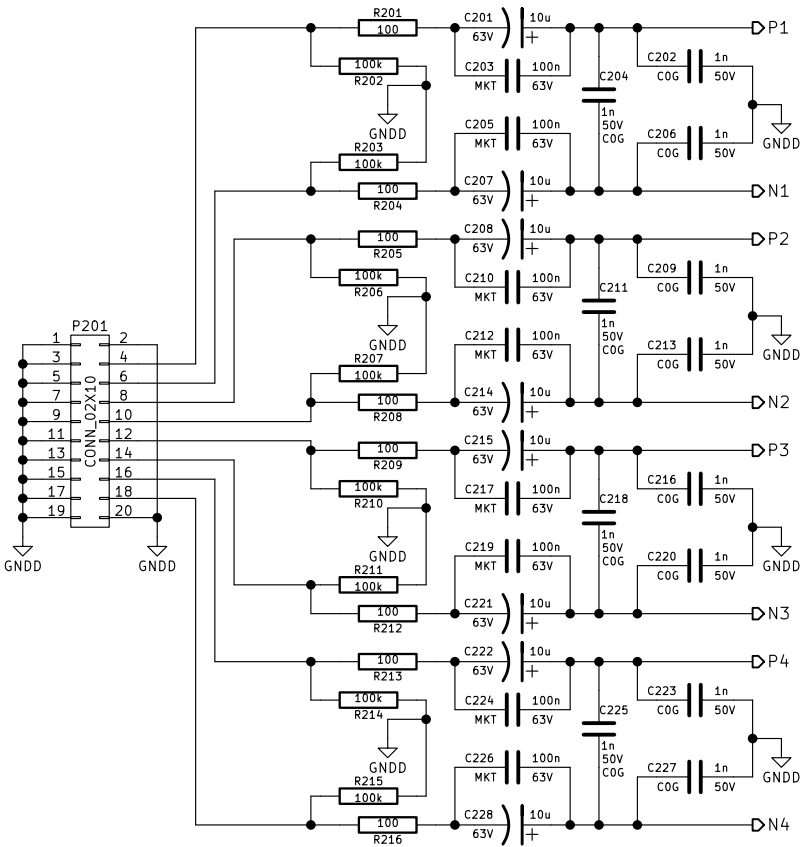
Notes:



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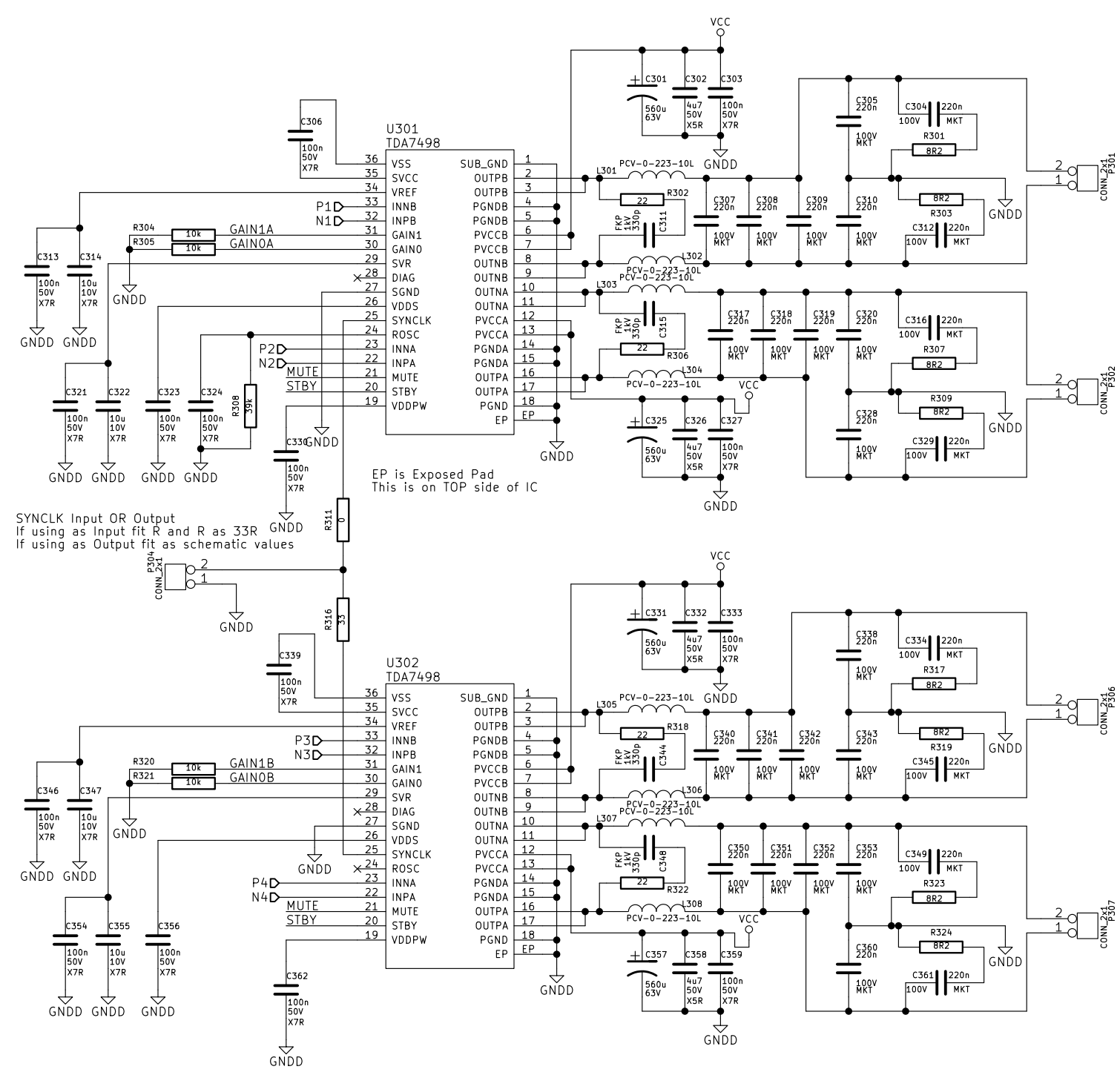
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KiCad E.D.A. kicad 4.0.5	Rev: 1.0
Id: 1/3	

Differential Input Filters



TDA749x Dual Stereo Amplifiers

Can be built with one or both amplifiers.  
This can use any pin compatible PAD UP chip: TDA7492, TDA7498, TDA7498L, TDA7498E  
See right and datasheets for recommended filter values.  
Second amplifier clock is sourced from the first amplifier. The board can also accept a clock from another board by leaving both ROSC pins unconnected.



OUTPUT FILTER VALUES:

TDA7492 4 Ohm:  
C309, C319, C342, C352 are NOT FITTED FOR 8 OHM LOAD  
C307, C308, C317, C318, C340, C341, C350, C351 – Fit as 220nF  
L301–L308 fit as 15uH PCV-0–153–10L

TDA7492 6 Ohm:  
C308, C309, C318, C319, C341, C342, C351, C352 are NOT FITTED  
C307, C317, C340, C350 – Fit as 220nF  
L301–L308 fit as 22uH PCV-0–223–10L

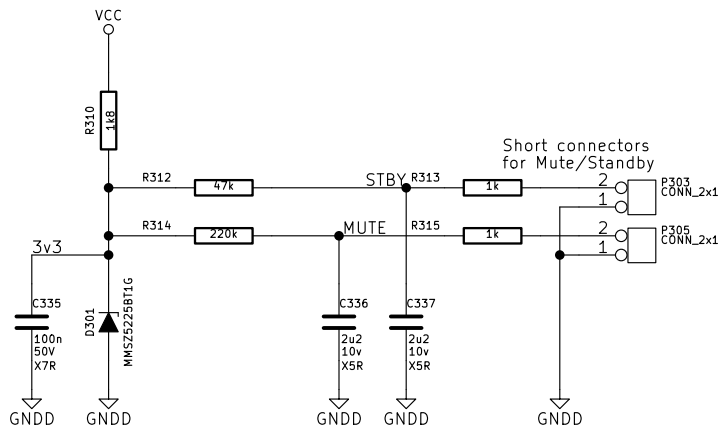
TDA7492 6 Ohm:  
C308, C309, C318, C319, C341, C342, C351, C352 are NOT FITTED  
C307, C317, C340, C350 – Fit as 220nF  
L301–L308 fit as 33uH PCV-0–333–10L

TDA7498(L) For 8 Ohm load:  
C309, C319, C342, C352 are NOT FITTED  
C307, C308, C317, C318, C340, C341, C350, C351 – Fit as 220nF  
L301–L308 fit as 22uH PCV-0–223–10L

TDA7498(L) For 8 Ohm load:  
C309, C319, C342, C352, C307, C308, C317, C318, C340, C341, C350, C351 – Fit as 220nF  
L301–L308 fit as 22uH PCV-0–223–10L

TDA7498E for 4 ohm load:  
C307, C308, C309, C317, C318, C319, C340, C341, C342 C350, C351, C352 – FIT ALL AS 330nF parts  
L301–L308 fit as 22uH PCV-0–223–10L

Standby and Mute Control



Gain/Mode Control

GAIN1A/GAIN1B act as MODE select on TDA7498E  
See datasheet for detailed information

