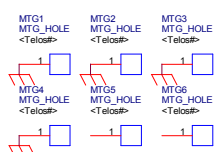
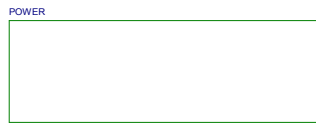
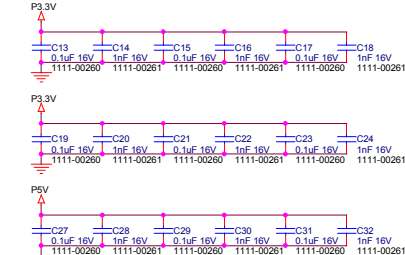
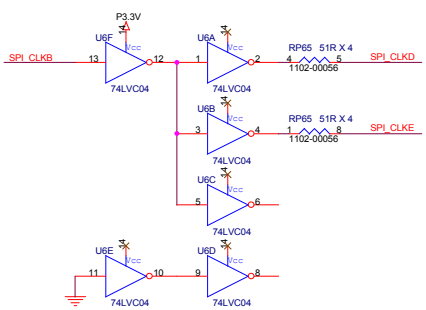
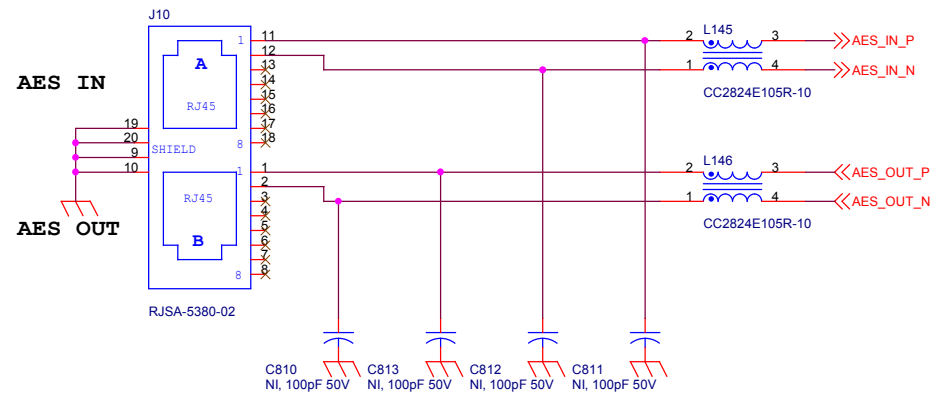
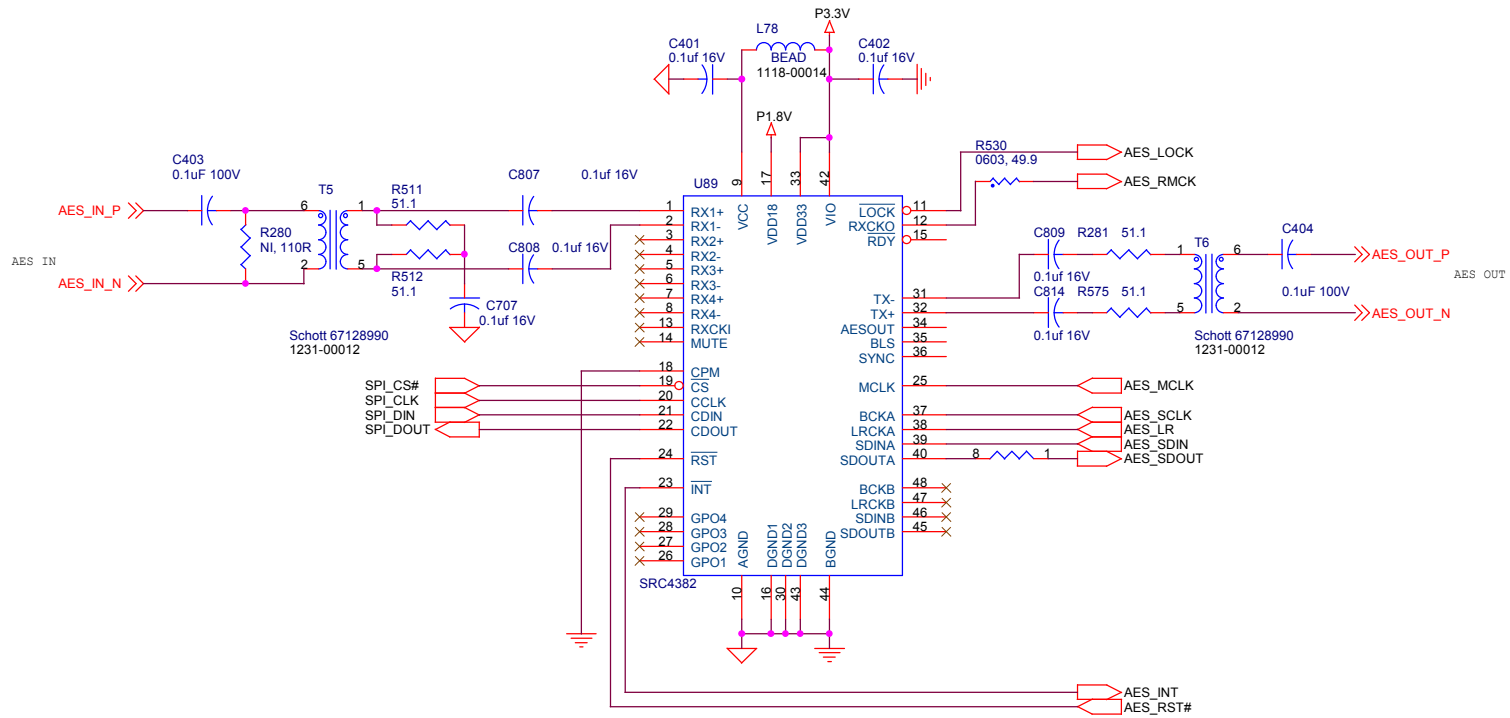


MAIN. BOARD CONNECTOR



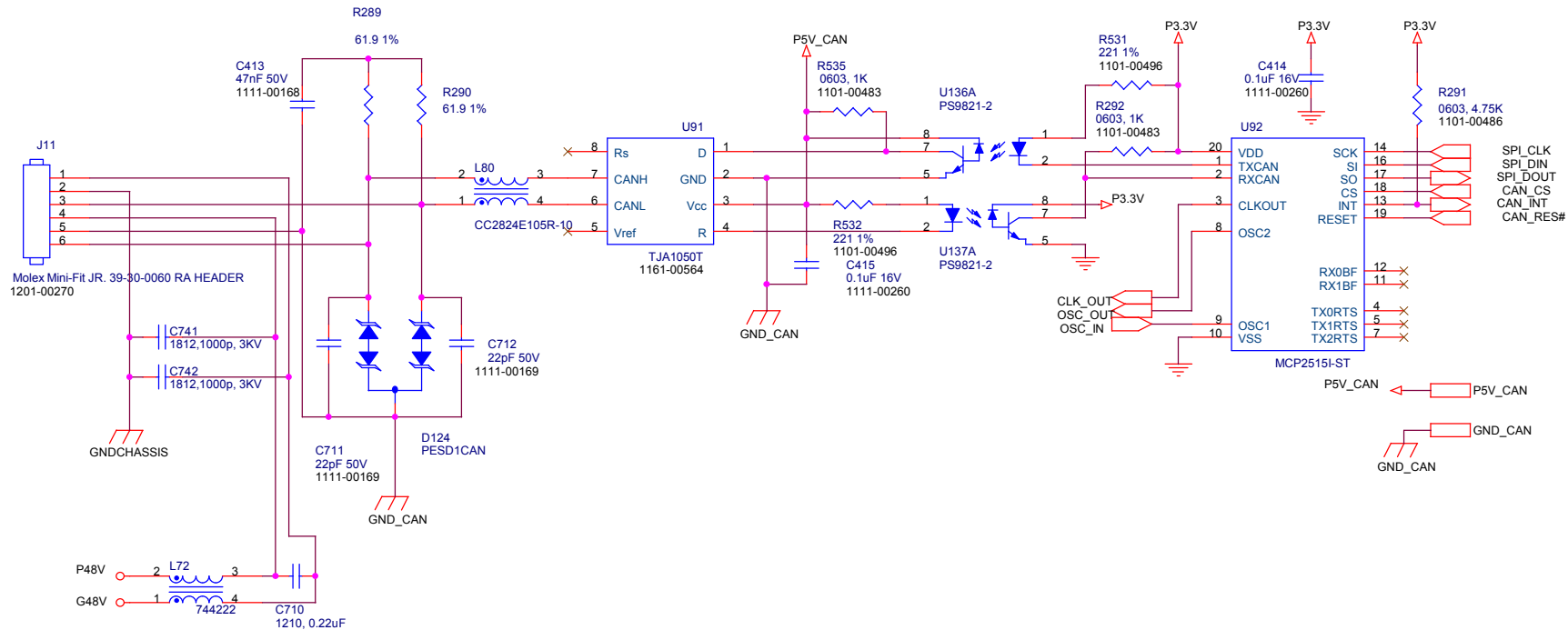
NOTES:  
1. BARE PCB IS TELOS P/N 1401-00223-107

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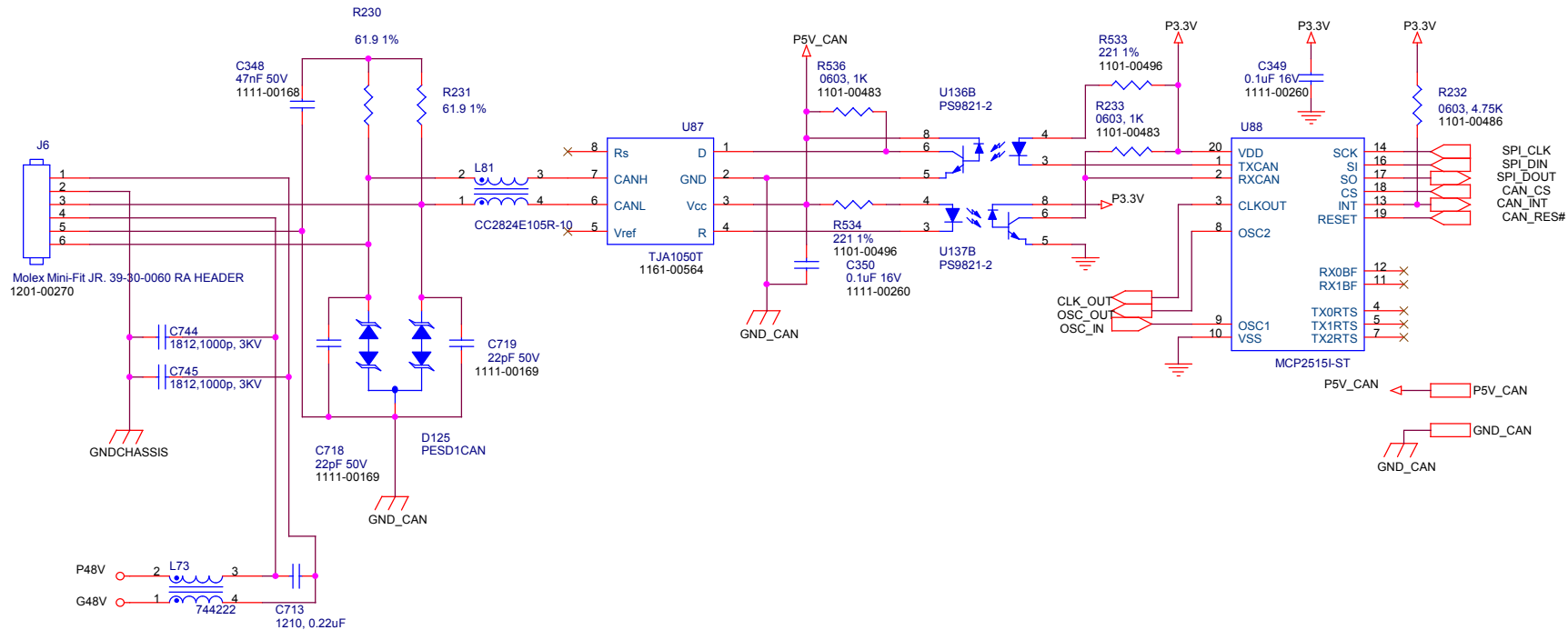


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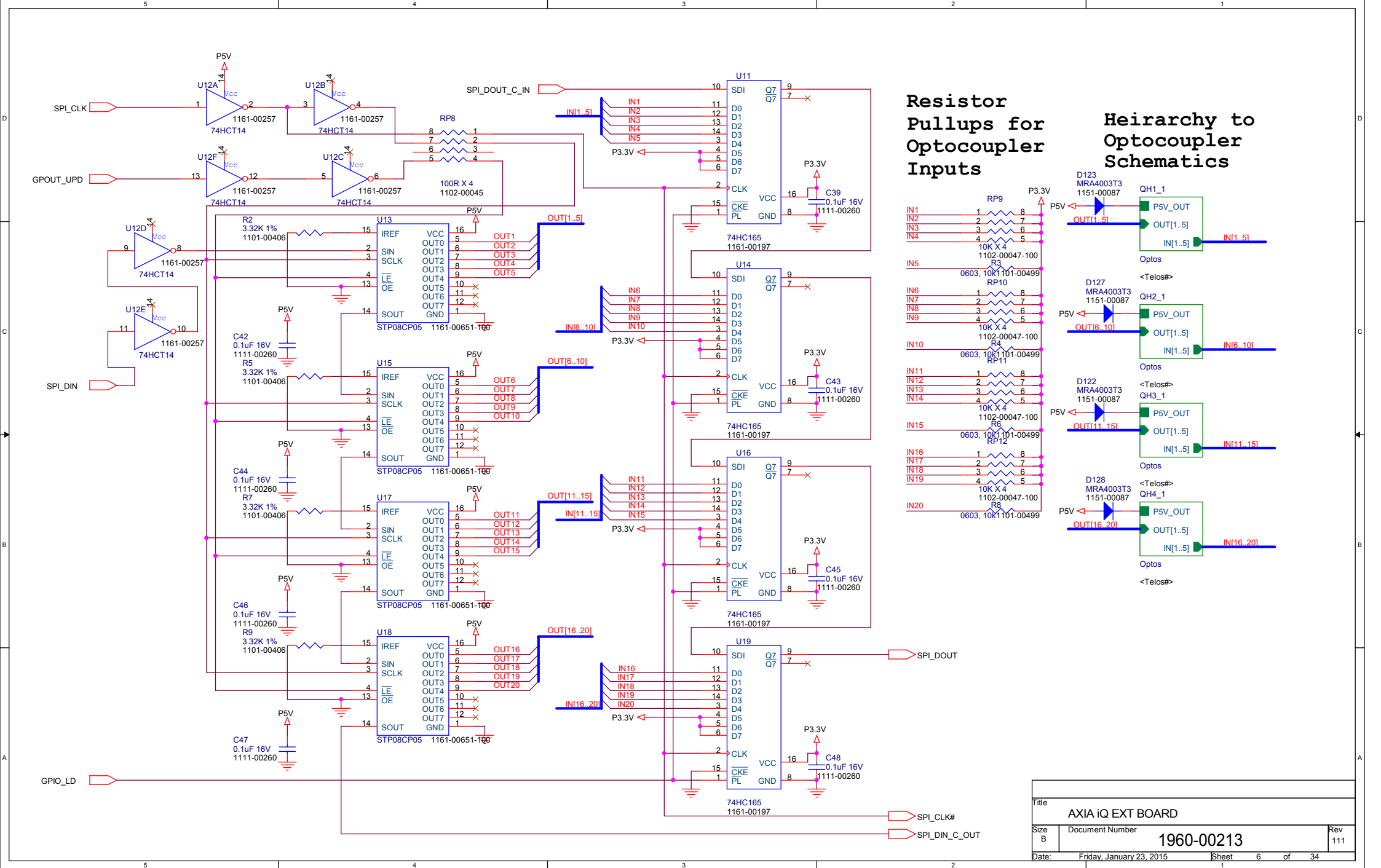




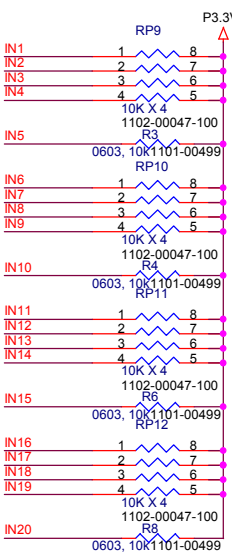
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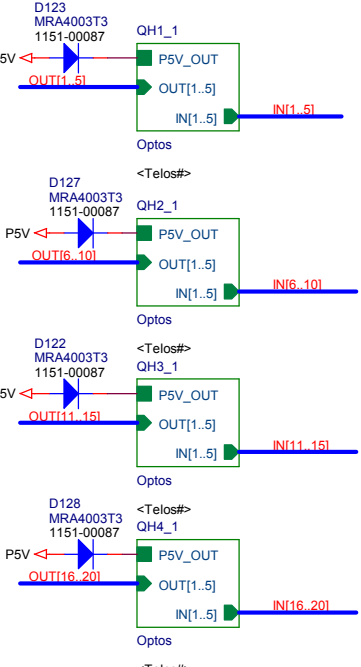
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# Resistor Pullups for Optocoupler Inputs



# Heirarchy to Optocoupler Schematics

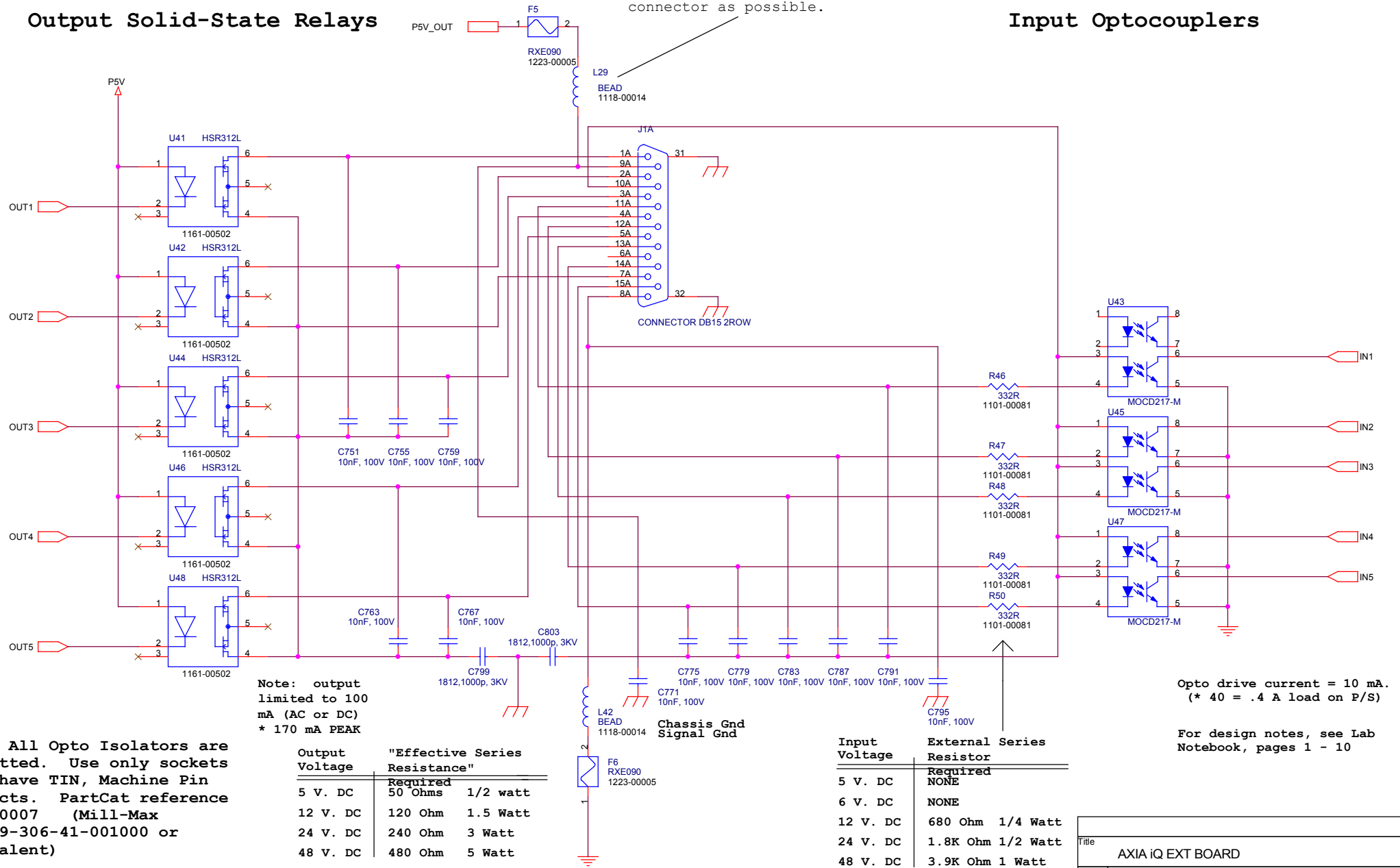


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## Output Solid-State Relays

NOTE: All EMI filters are to be located as close to the 15-pin D connector as possible.

## Input Optocouplers

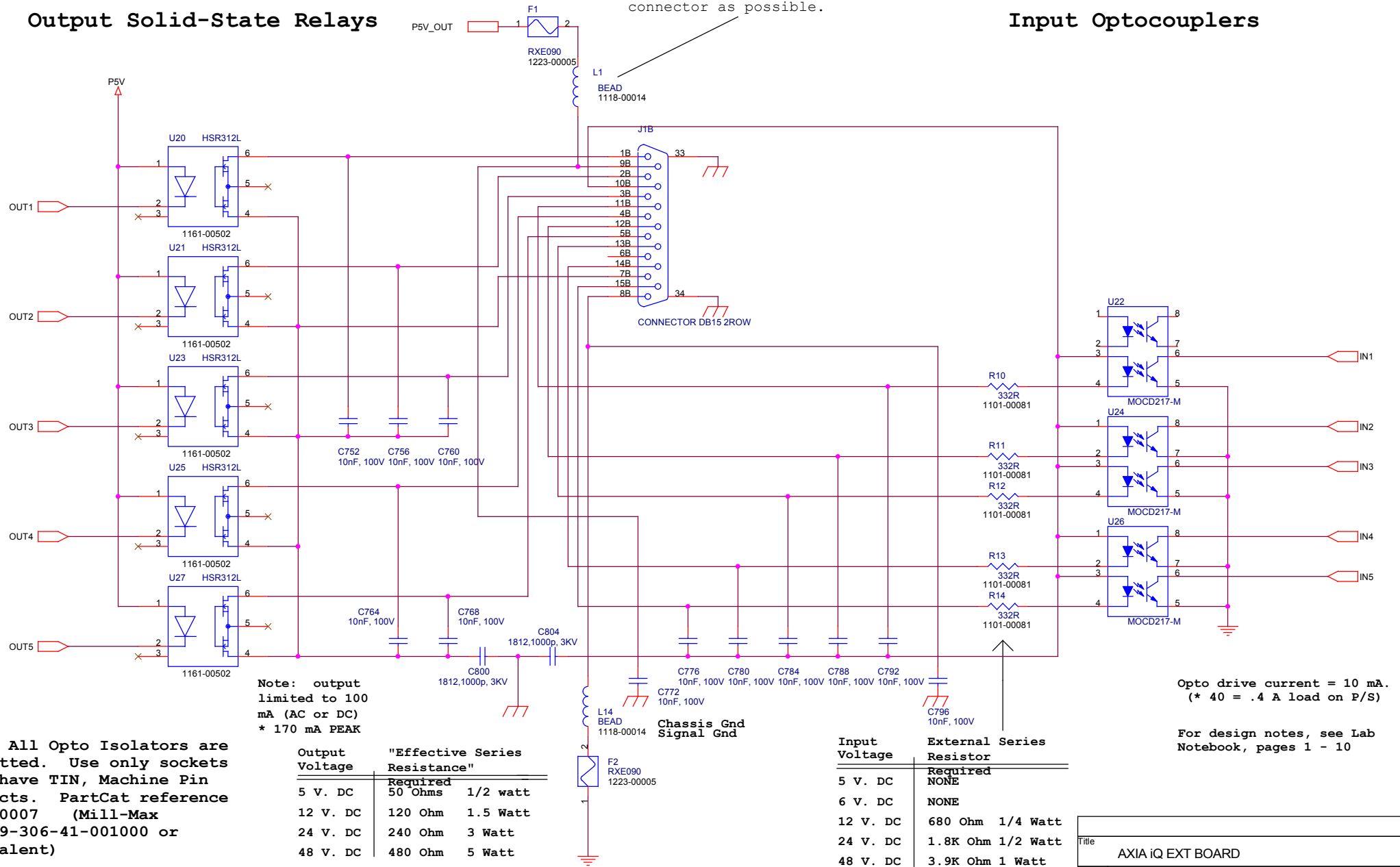


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## Output Solid-State Relays

NOTE: All EMI filters are to be located as close to the 15-pin D connector as possible.

## Input Optocouplers

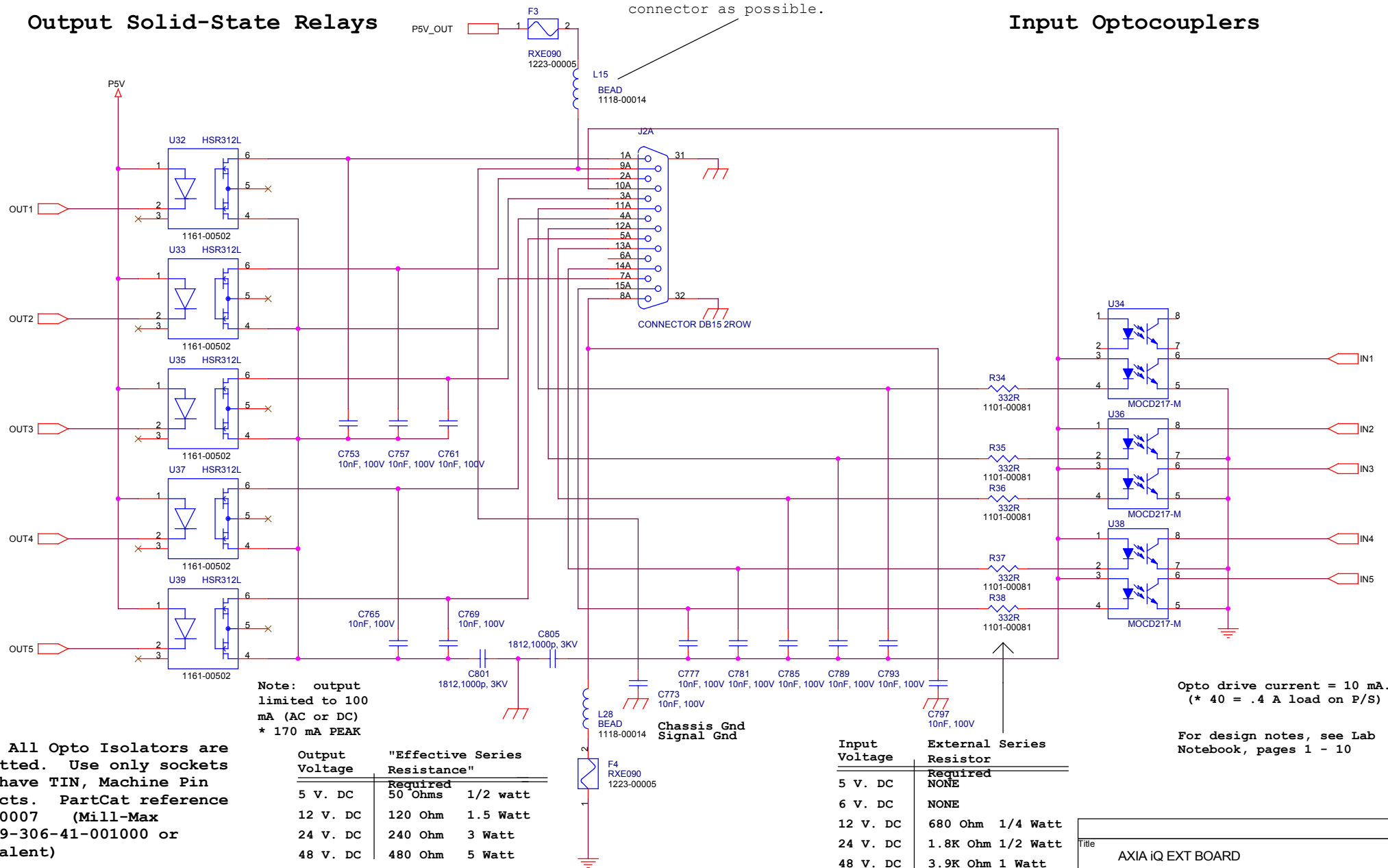




## Output Solid-State Relays

NOTE: All EMI filters are to be located as close to the 15-pin D connector as possible.

## Input Optocouplers



Opto drive current = 10 mA.  
(\* 40 = .4 A load on P/S)

For design notes, see Lab  
Notebook, pages 1 - 10

Input Voltage	External Resistor	Series
5 V. DC	Required	
6 V. DC	NONE	
12 V. DC	680 Ohm	1/4 Watt
24 V. DC	1.8K Ohm	1/2 Watt
48 V. DC	3.9K Ohm	1 Watt

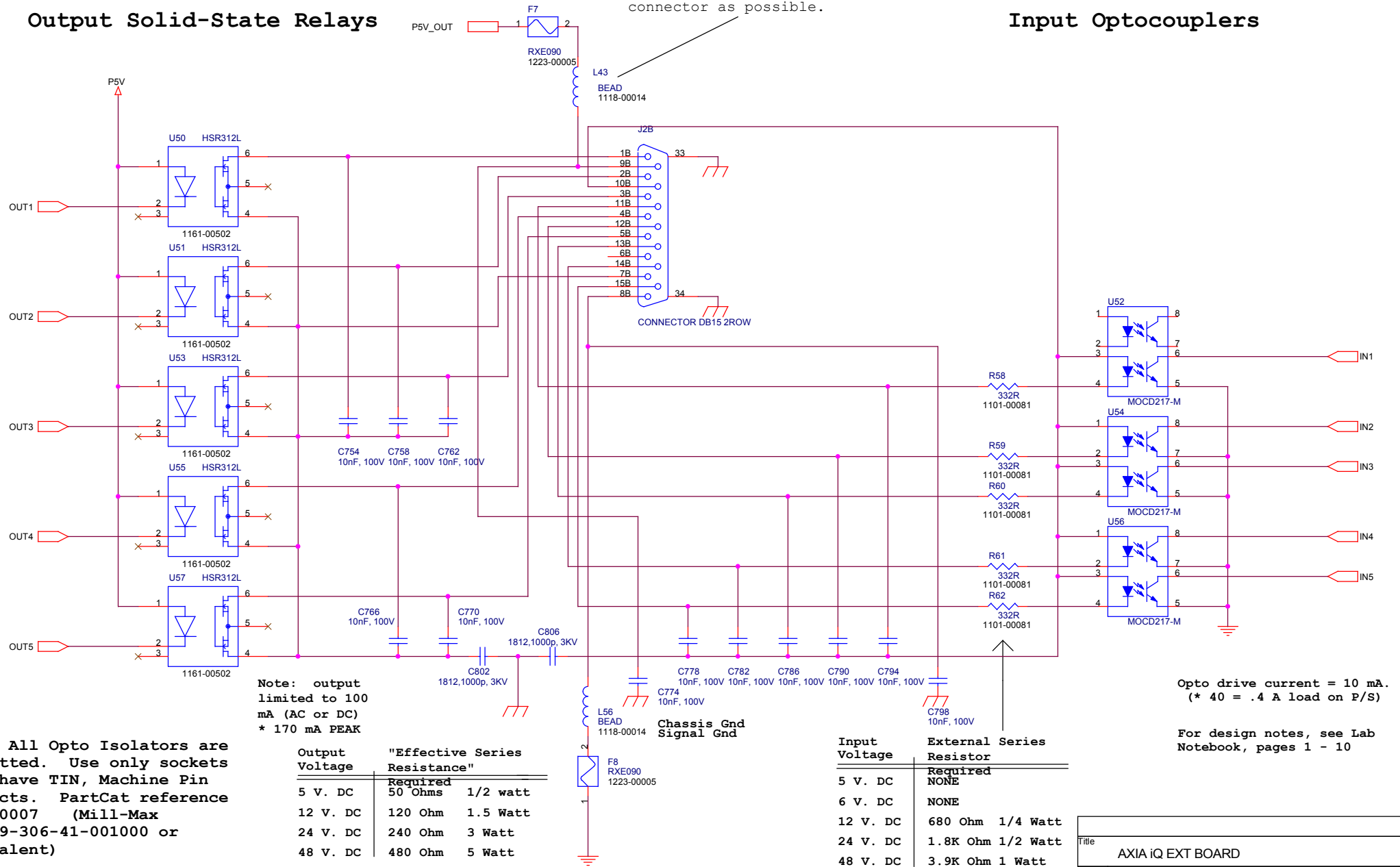
Output Voltage	Effective Series Resistance"	
5 V. DC	Required 50 Ohms	1/2 watt
12 V. DC	120 Ohm	1.5 Watt
24 V. DC	240 Ohm	3 Watt
48 V. DC	480 Ohm	5 Watt

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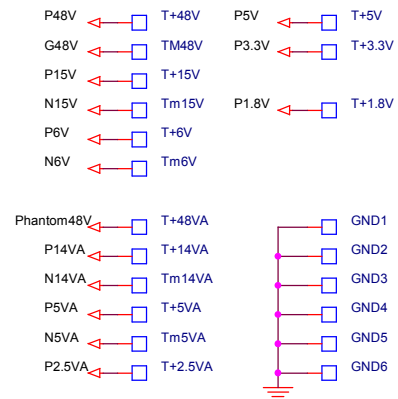
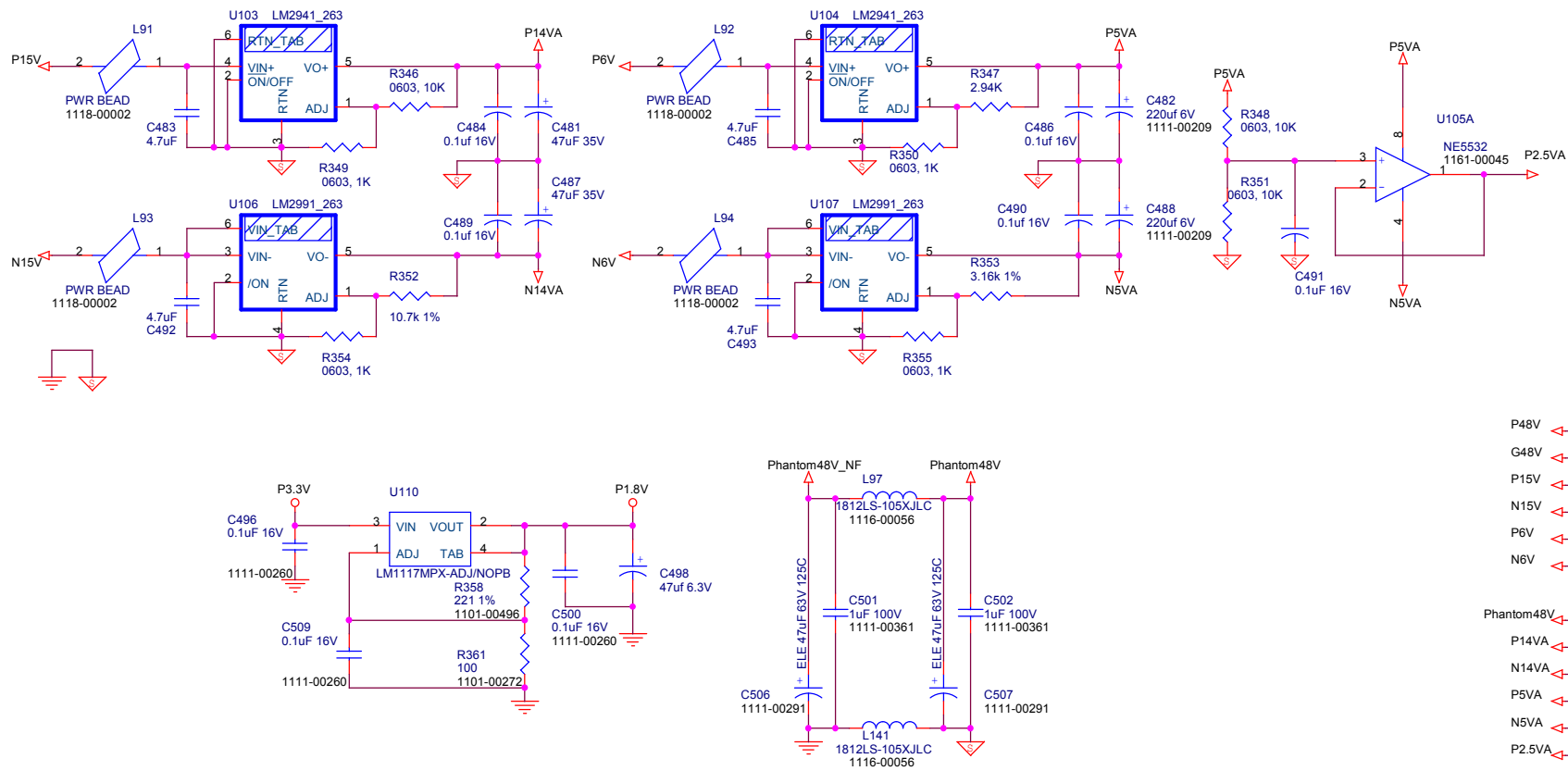
## Output Solid-State Relays

NOTE: All EMI filters are to be located as close to the 15-pin D connector as possible.

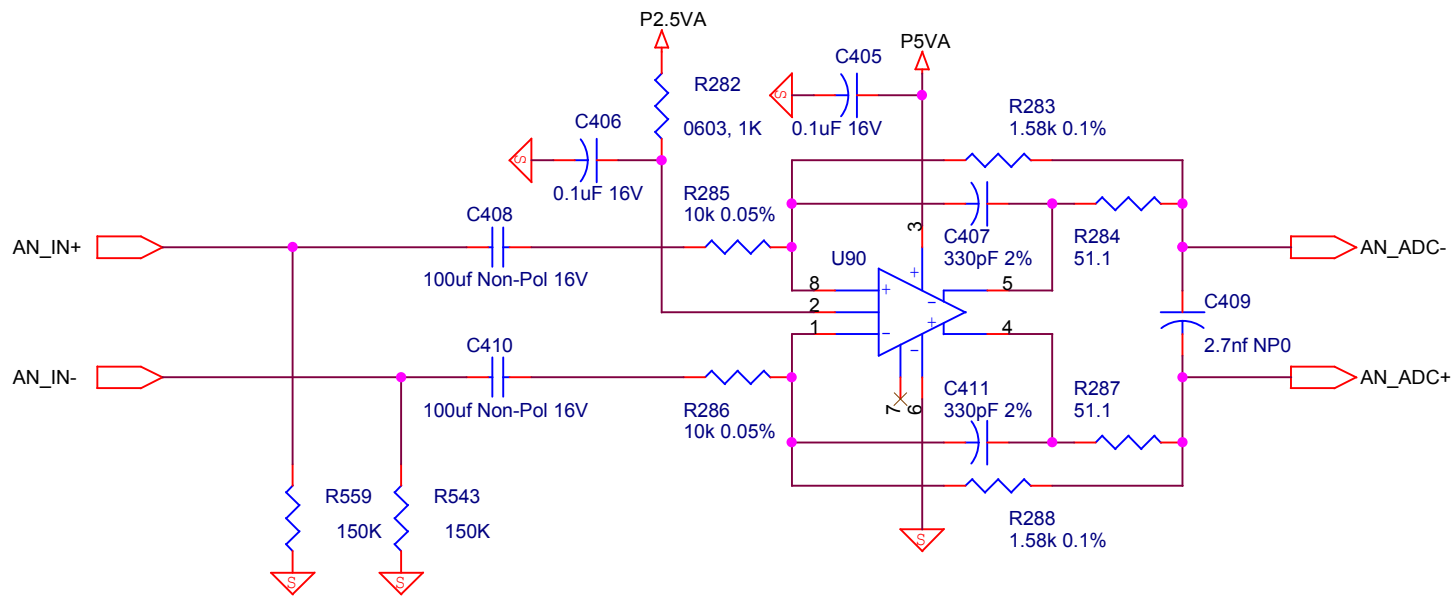
## Input Optocouplers



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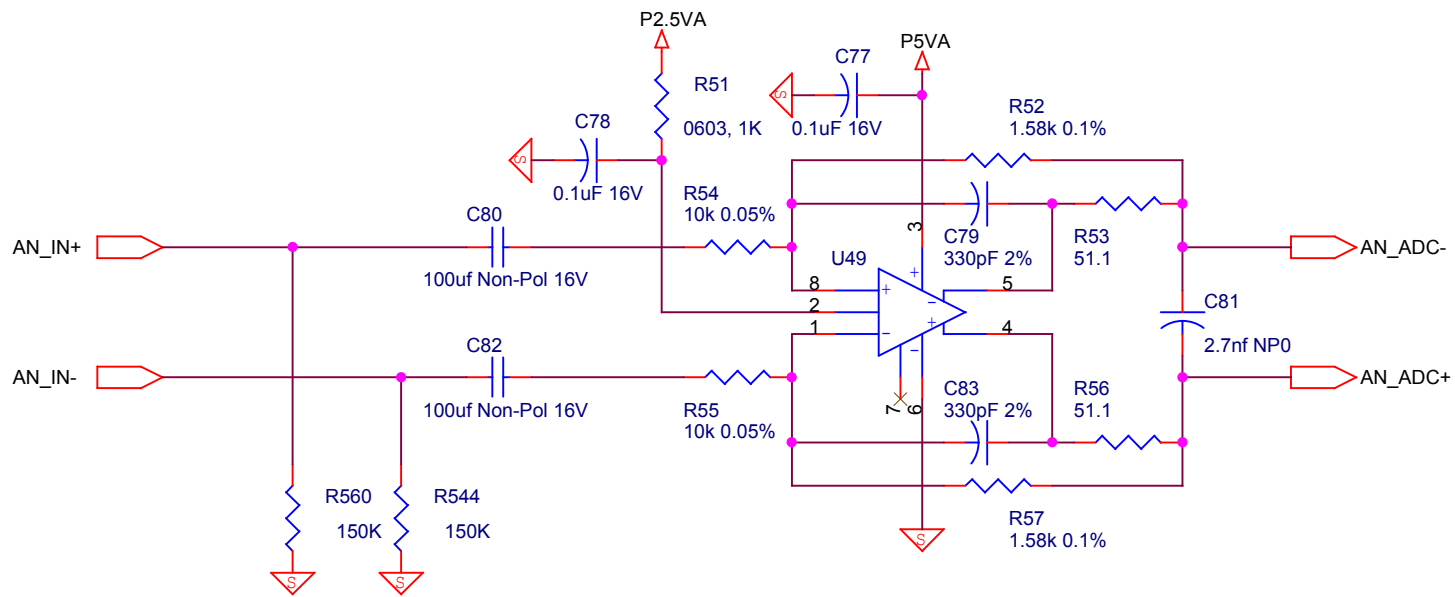


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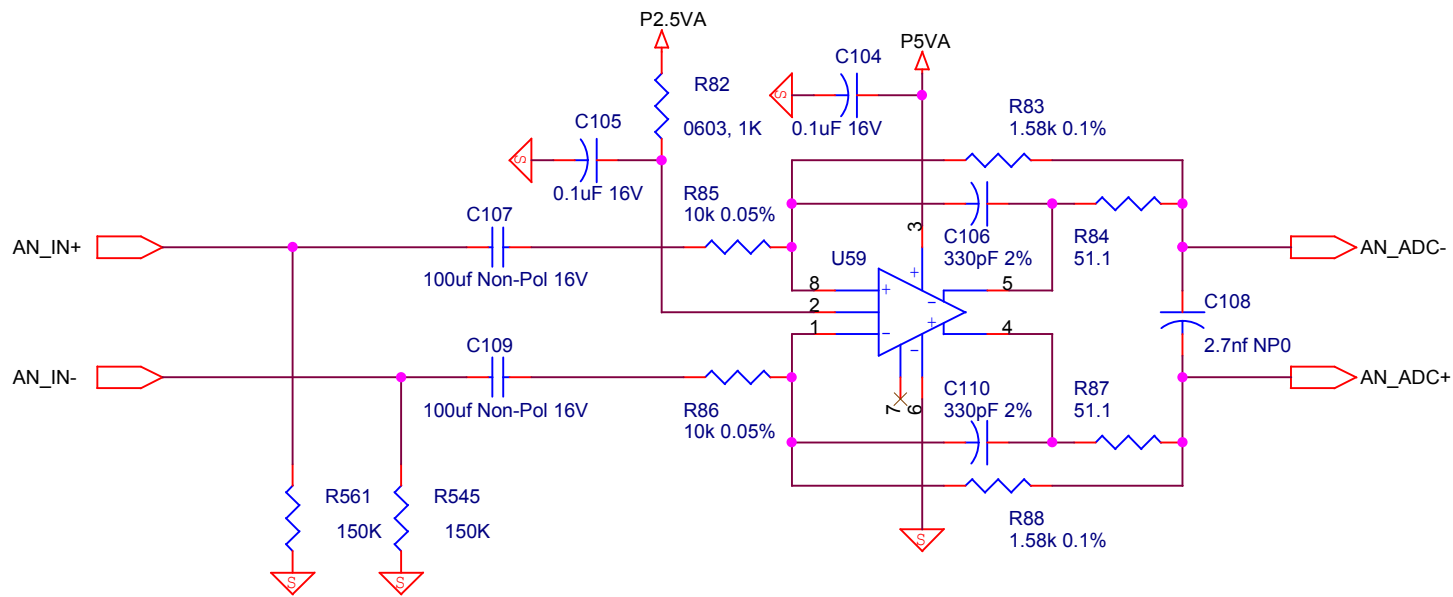
10uF, 10kOm: -0.109dB@10Hz

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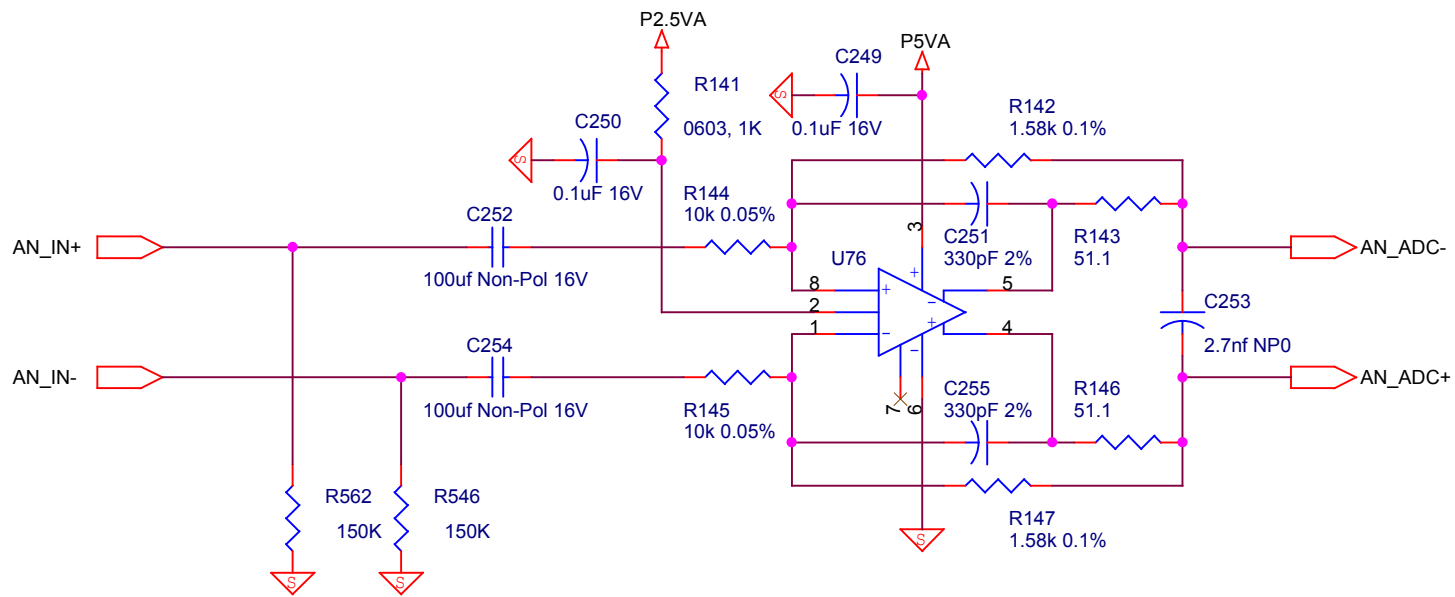


10uF, 10kOm: -0.109dB@10Hz

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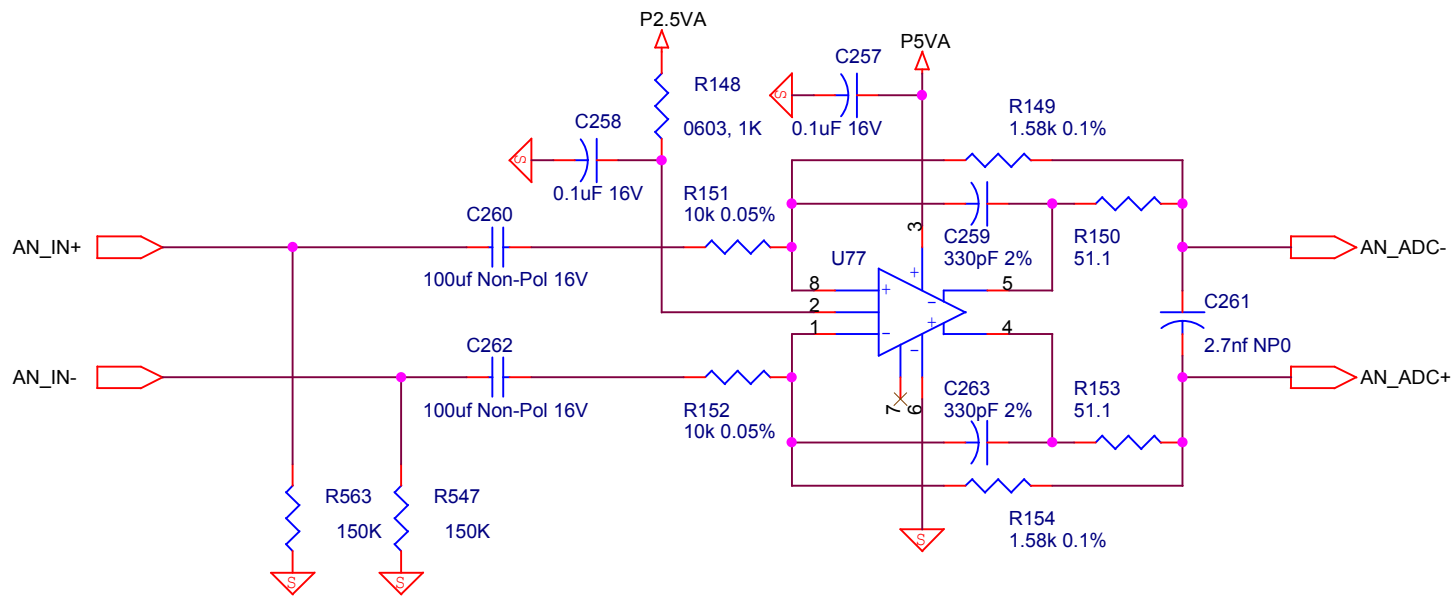


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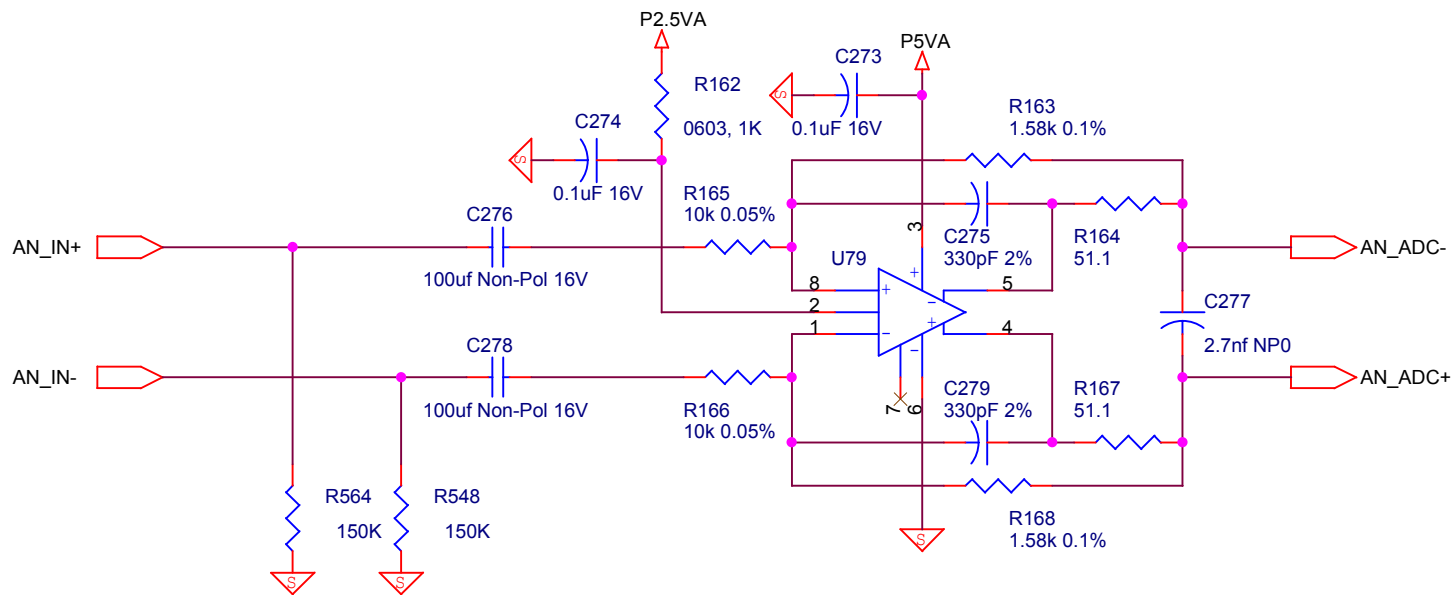
10uF, 10kOm: -0.109dB@10Hz

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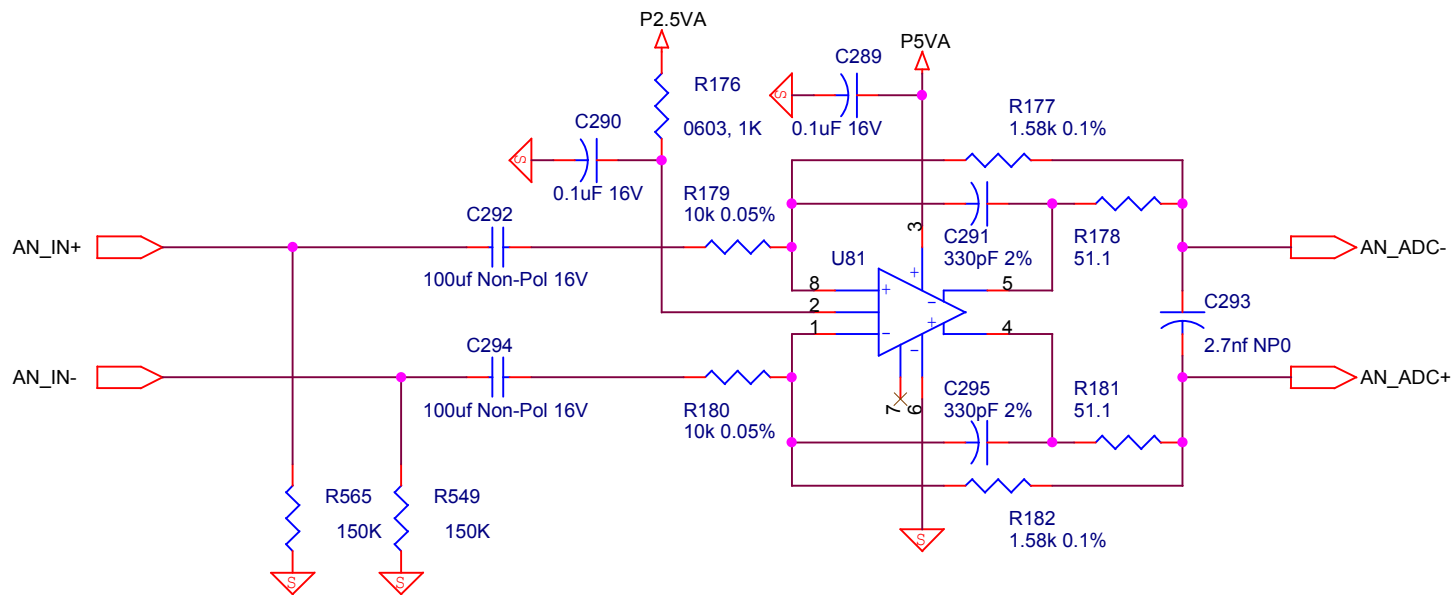
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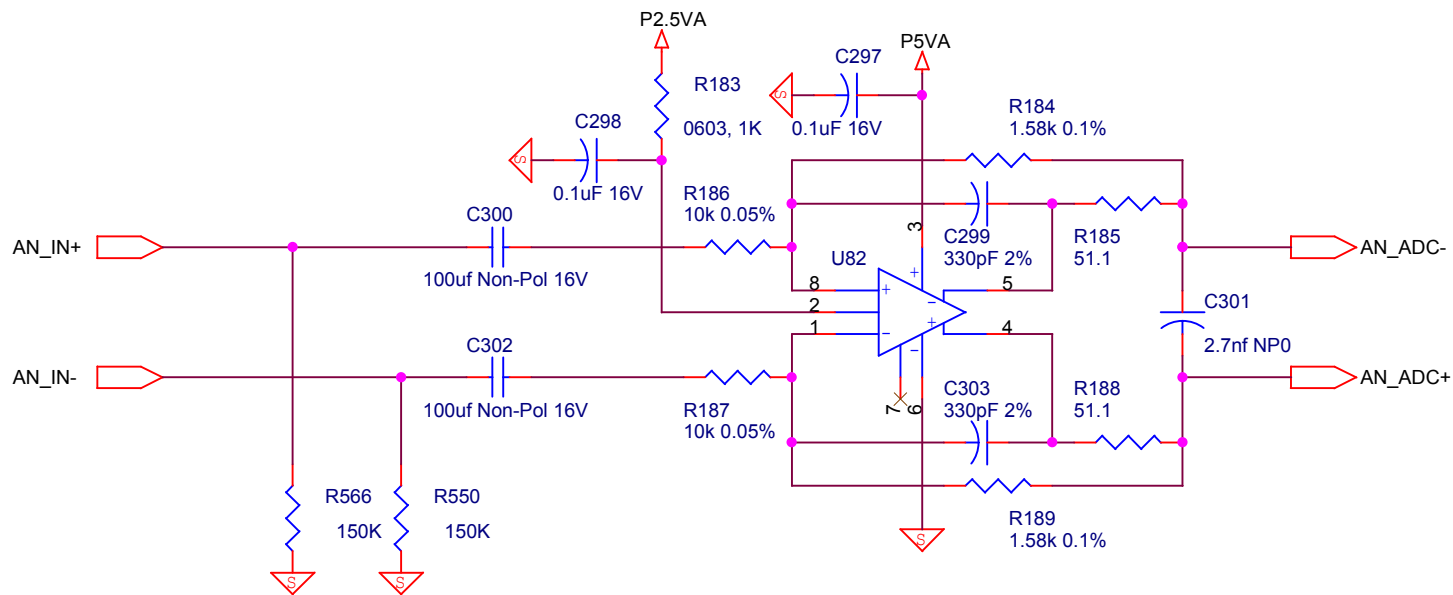
10uF, 10kOm: -0.109dB@10Hz

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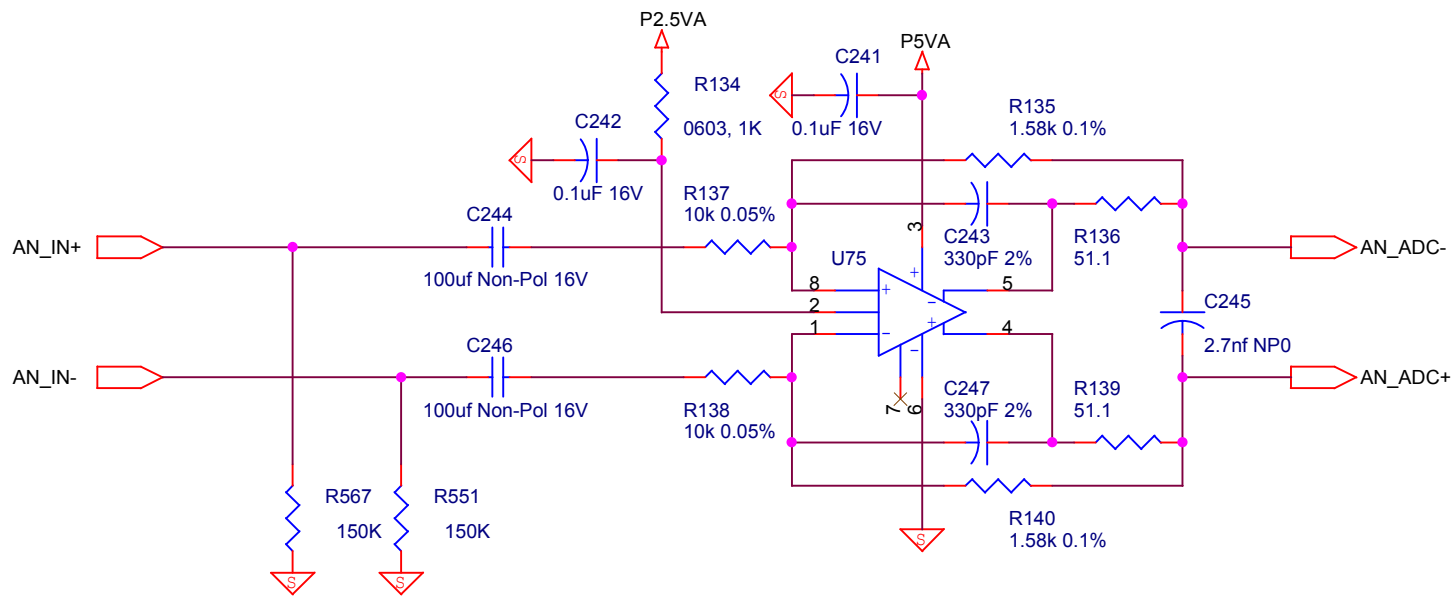


10uF, 10kOm: -0.109dB@10Hz

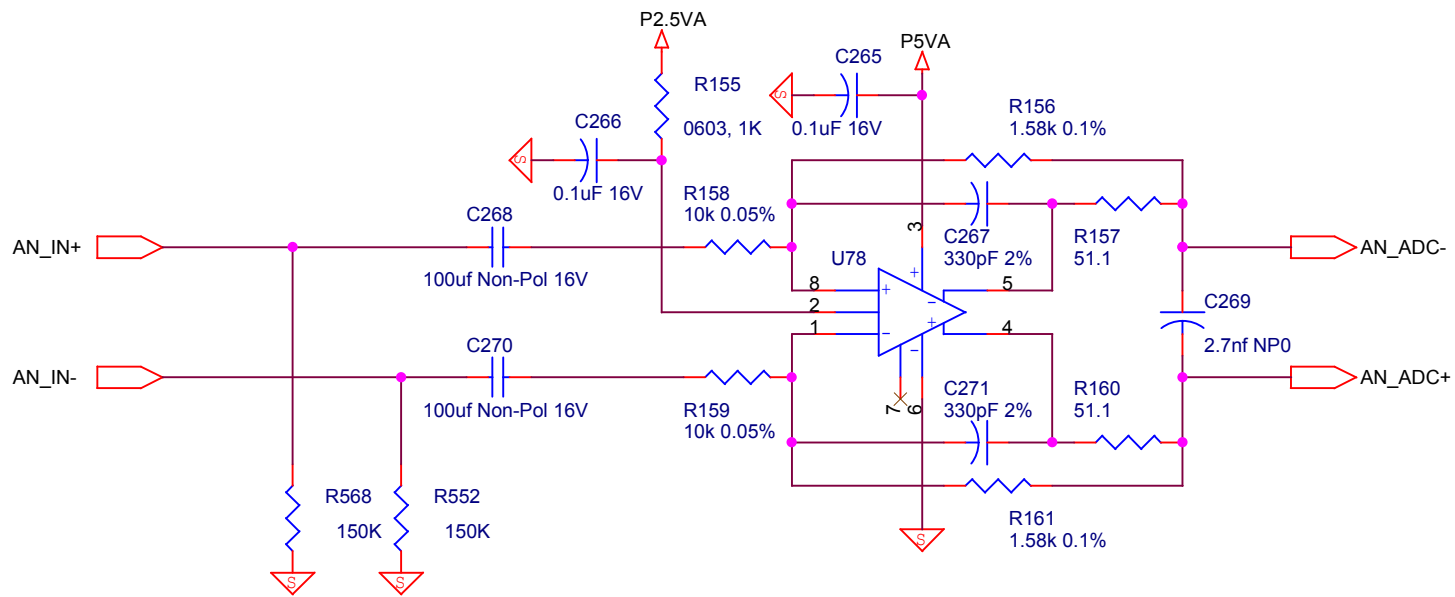
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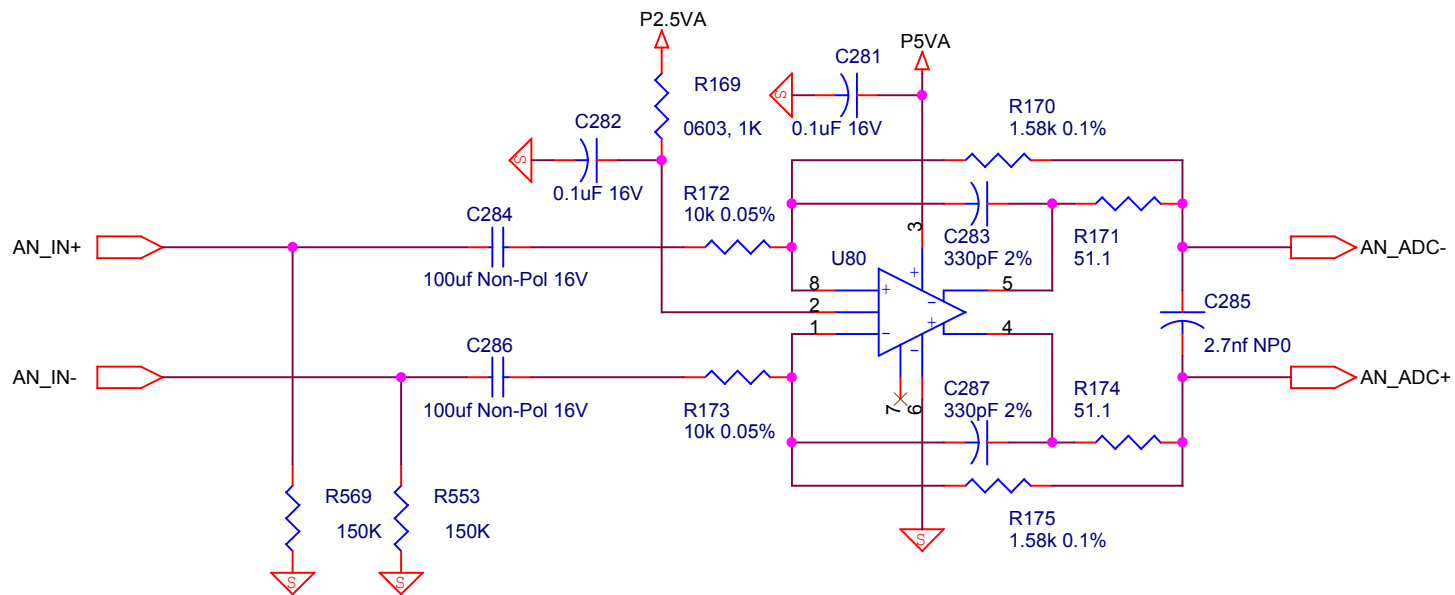
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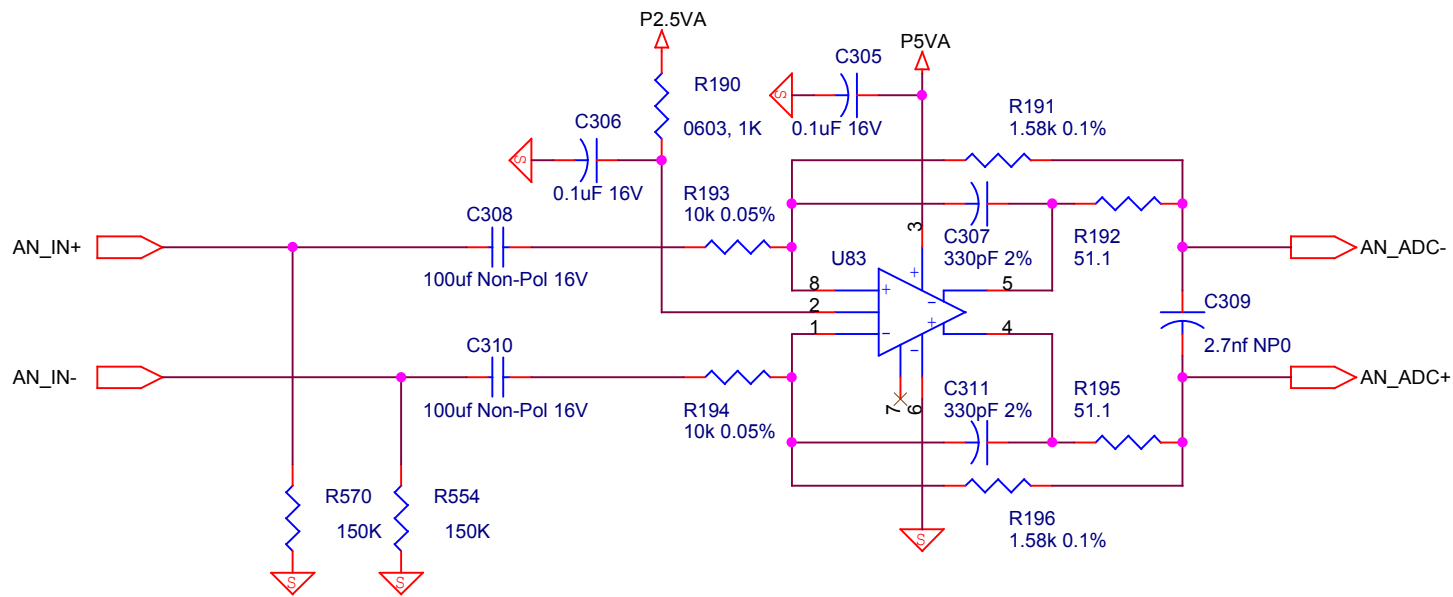


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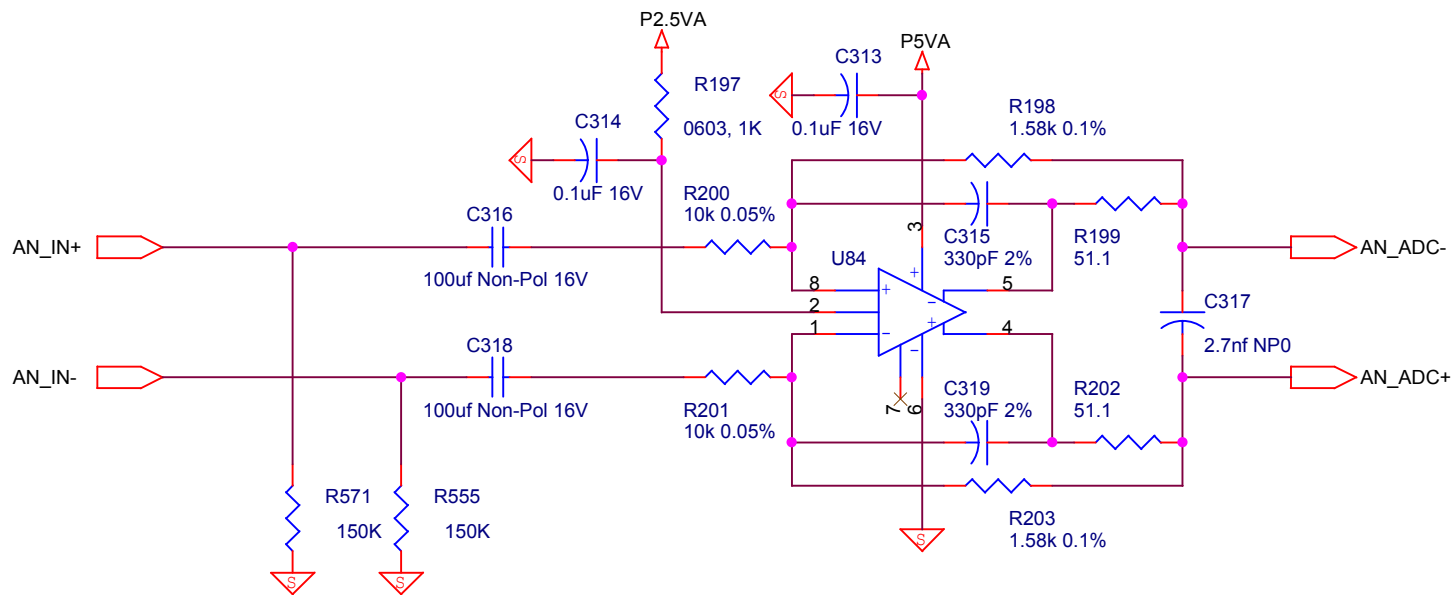
10uF, 10kOm: -0.109dB@10Hz

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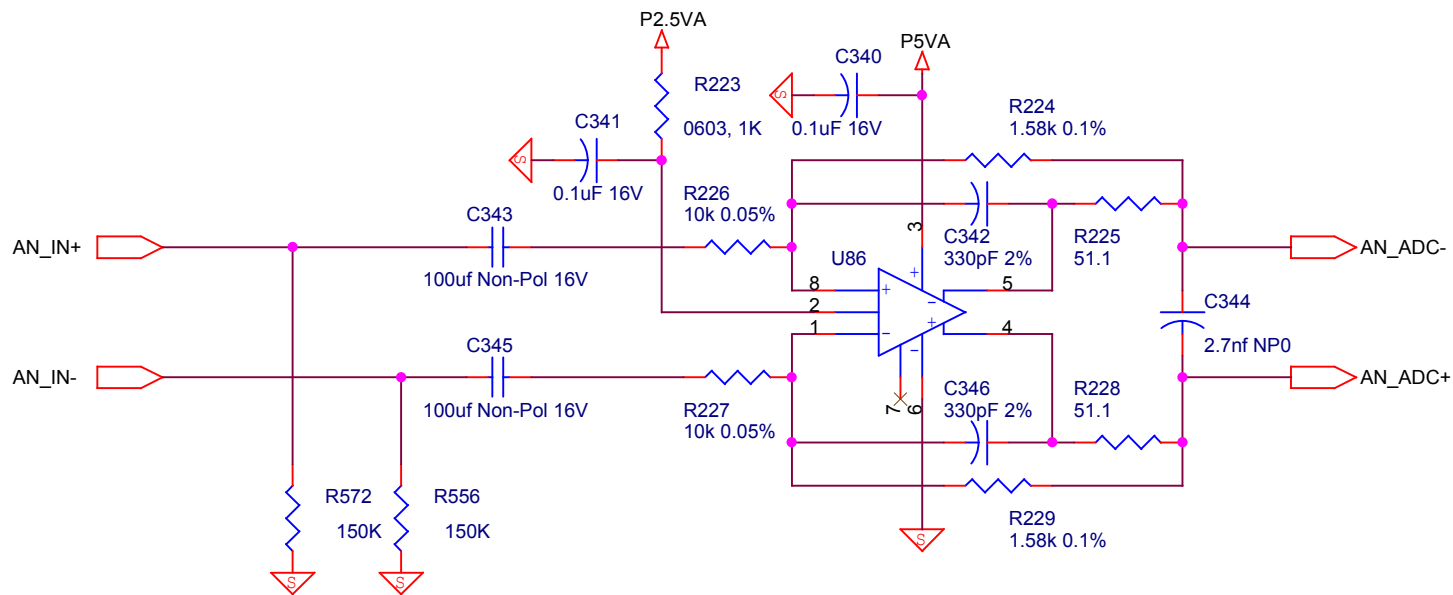
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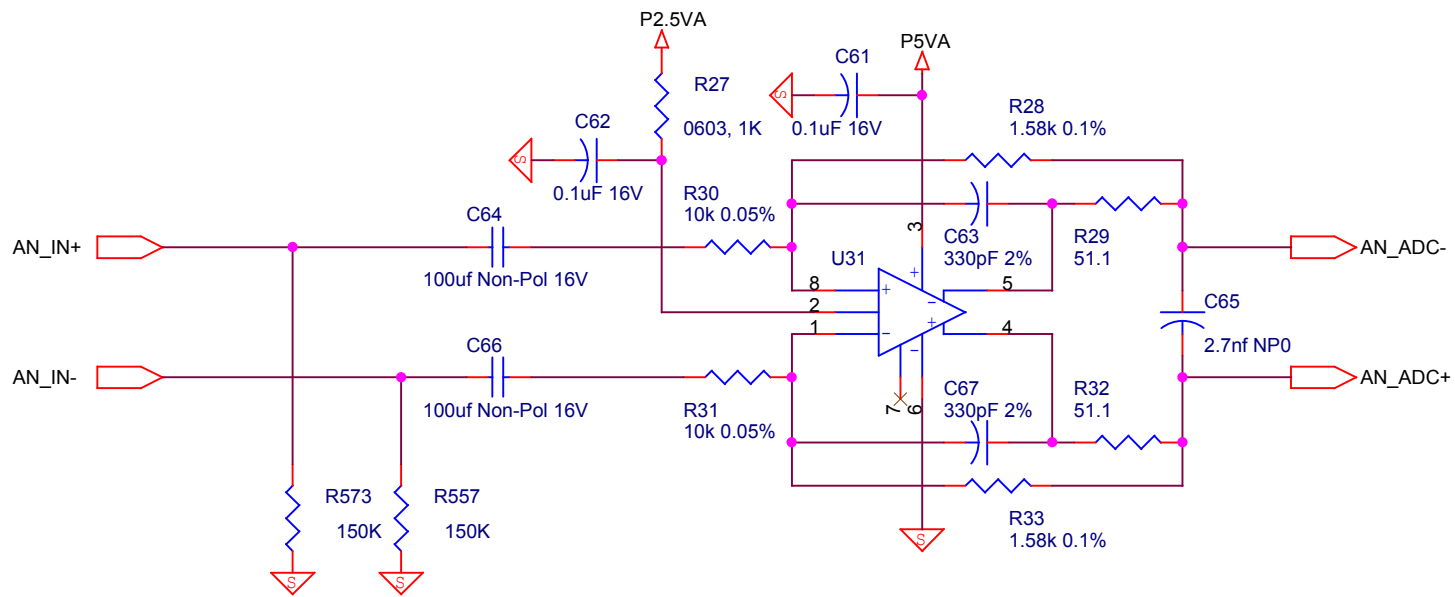
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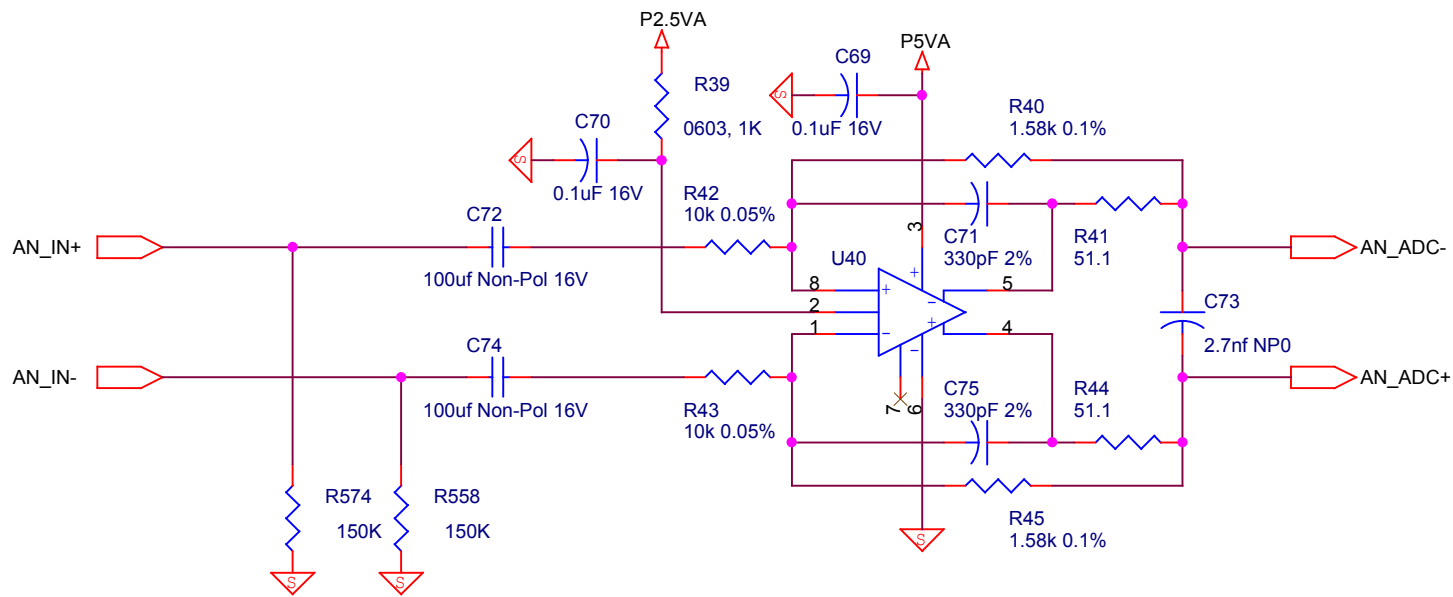


10uF, 10kOm: -0.109dB@10Hz

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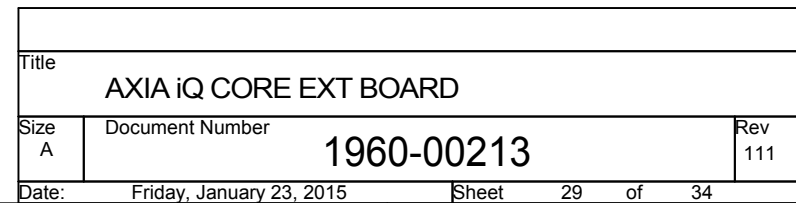


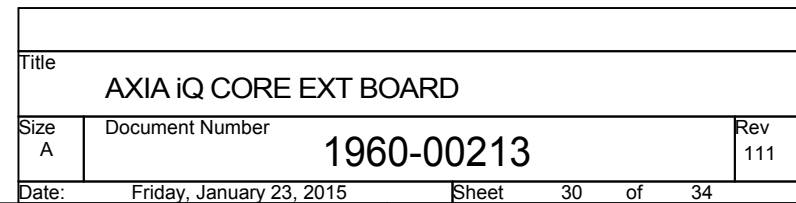
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10uF, 10kOm: -0.109dB@10Hz

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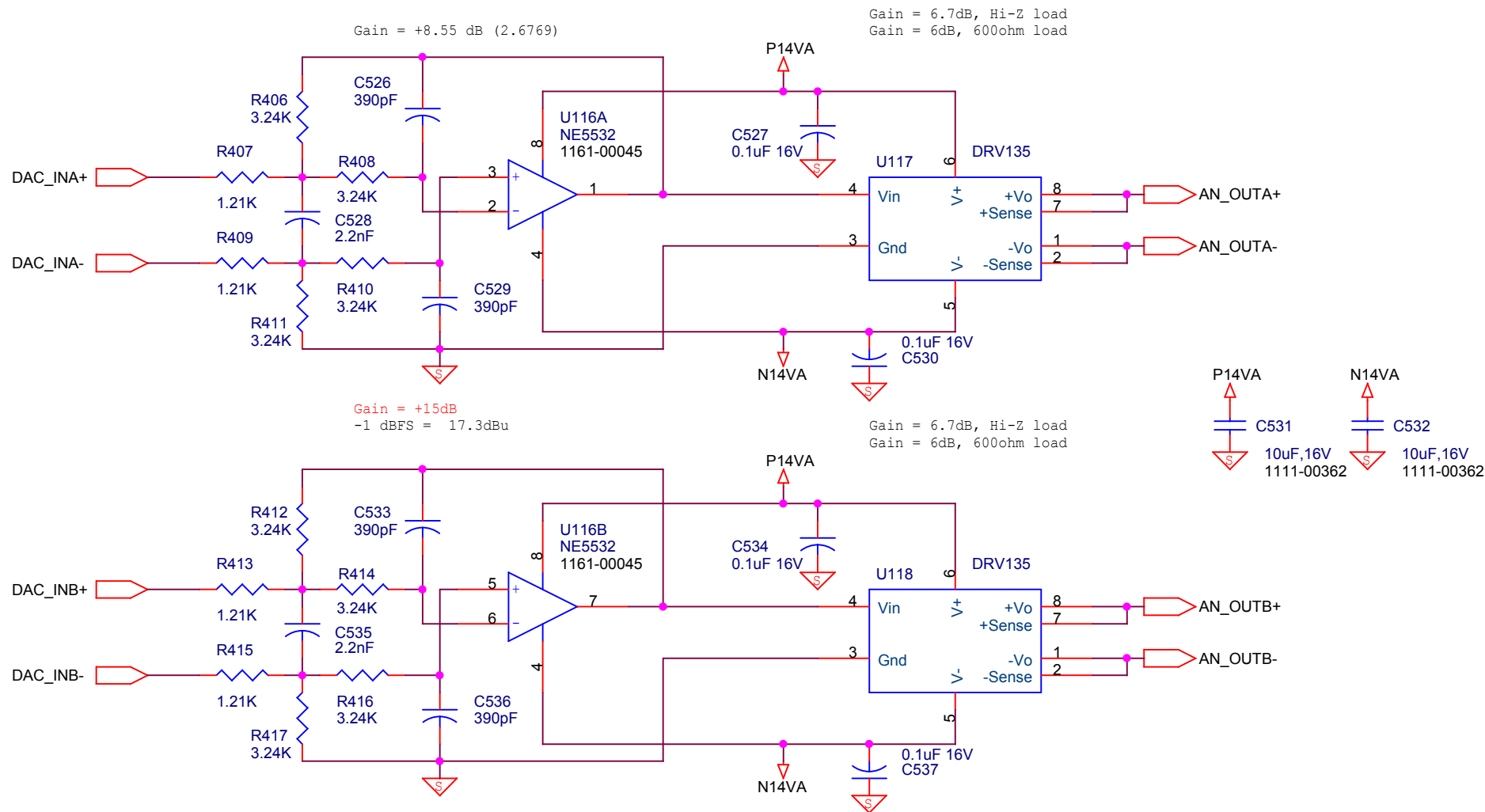
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$$0 \text{ dBFS} = +24.0 \text{ dBu} = 34.72 \text{ VPP} = 12.28 \text{ VRMS}$$


0 dBFS = 6.5 VPP = 2.3 VRMS

0 dBFS = 17.40 VPP = 6.15 VRMS

0 dBFS = +24.0 dBu = 34.72 VPP = 12.28 VRMS



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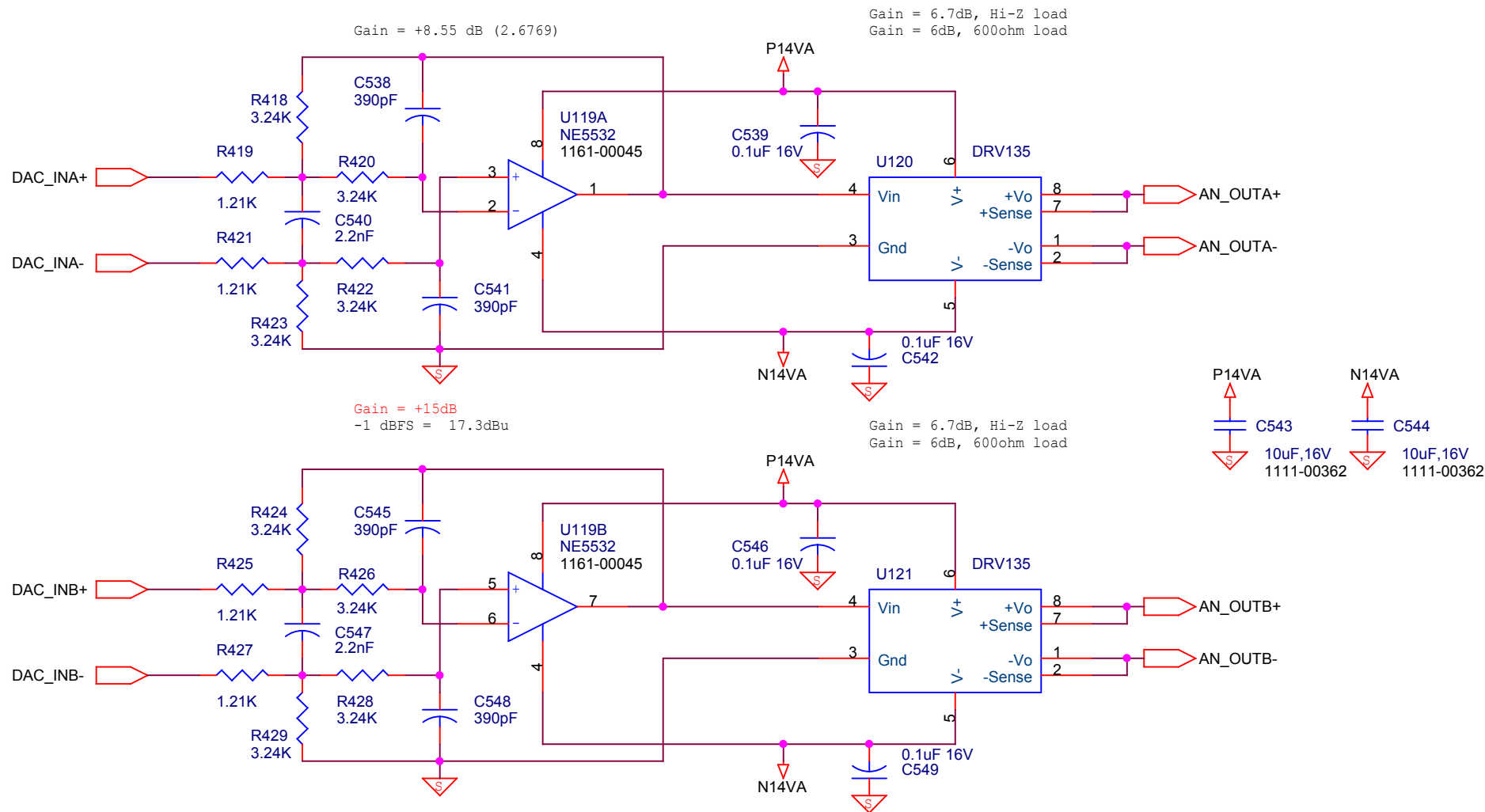
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0 dBFS = 6.5 VPP = 2.3 VRMS

0 dBFS = 17.40 VPP = 6.15 VRMS

0 dBFS = +24.0 dBu = 34.72 VPP = 12.28 VRMS



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AXIA iQ CORE EXT BOARD

Size  
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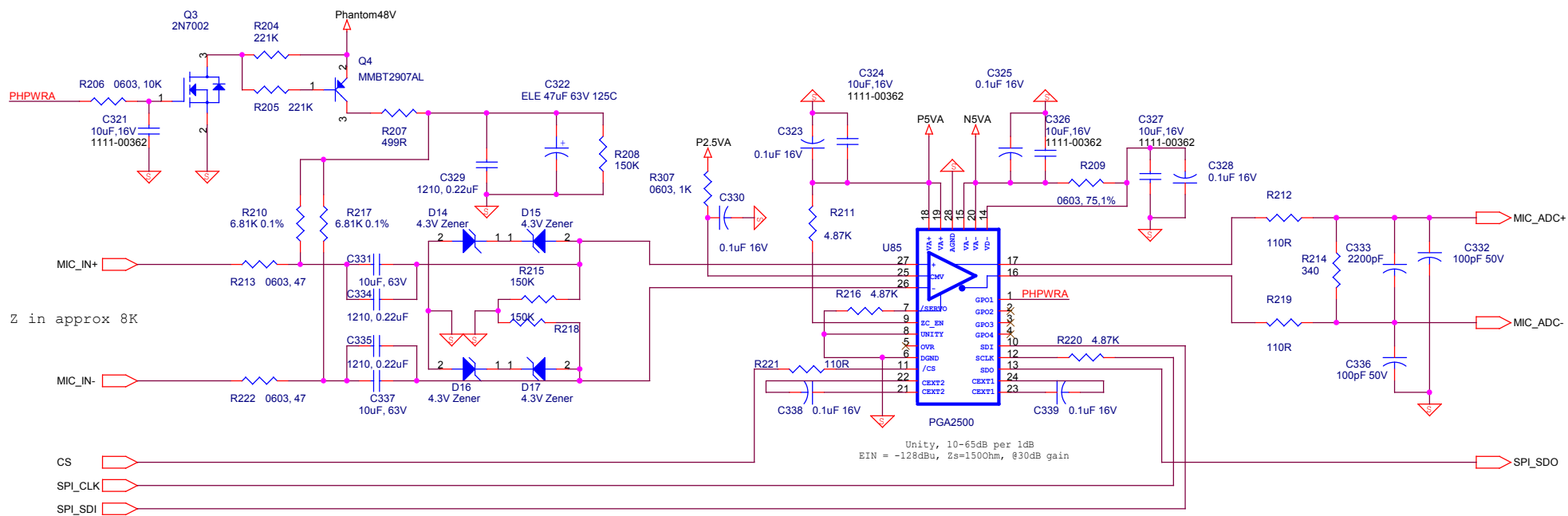
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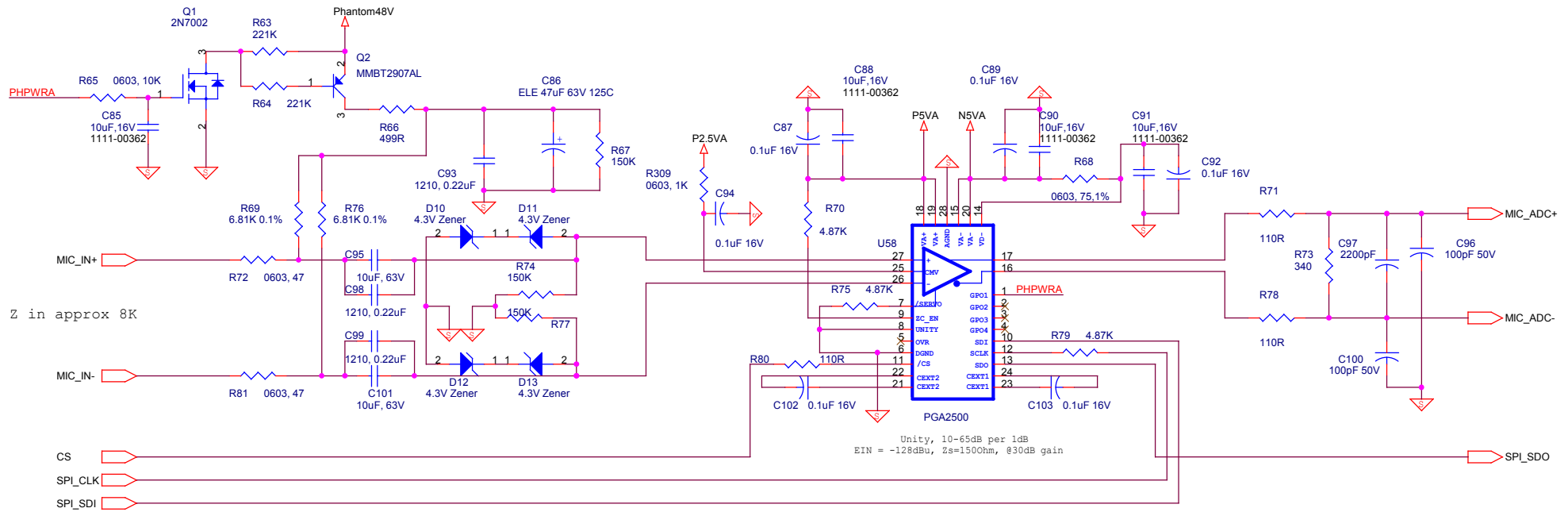
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