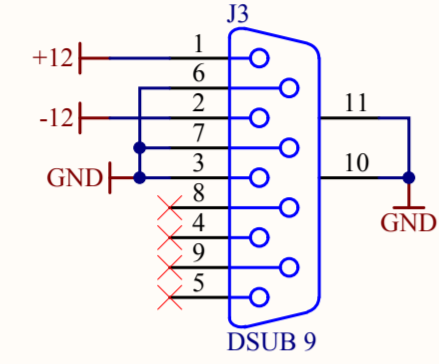
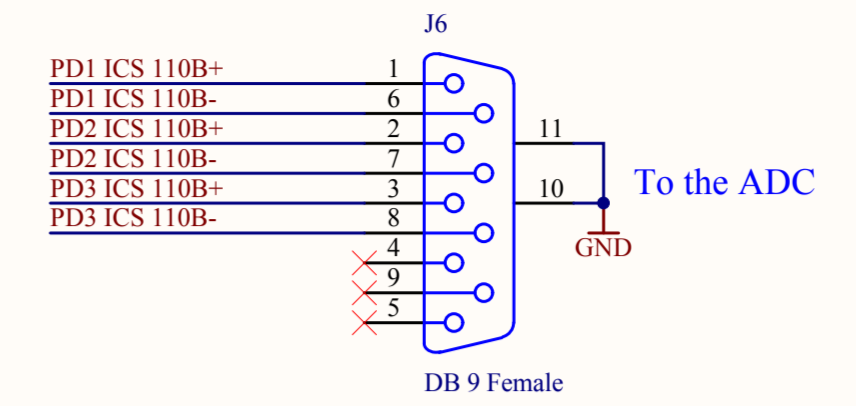
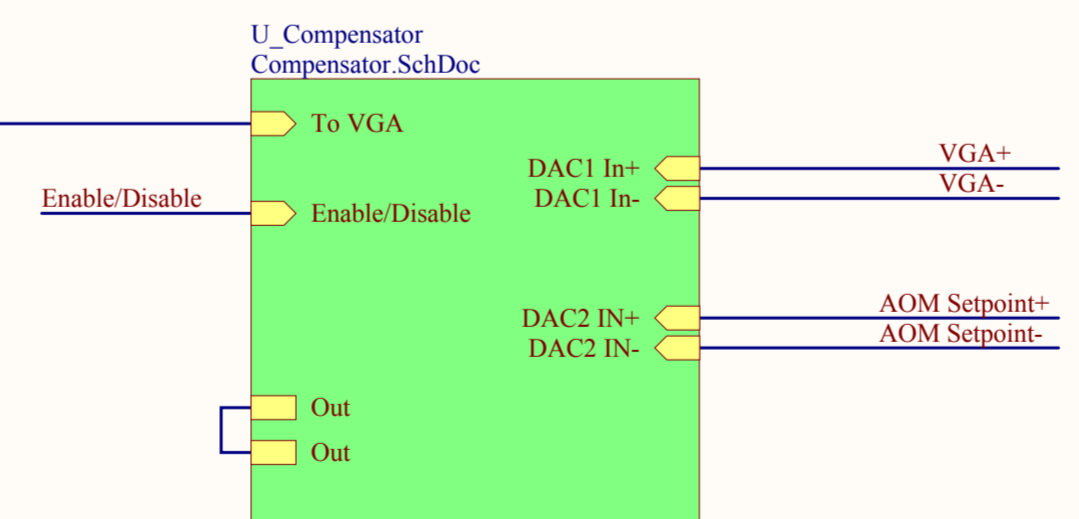
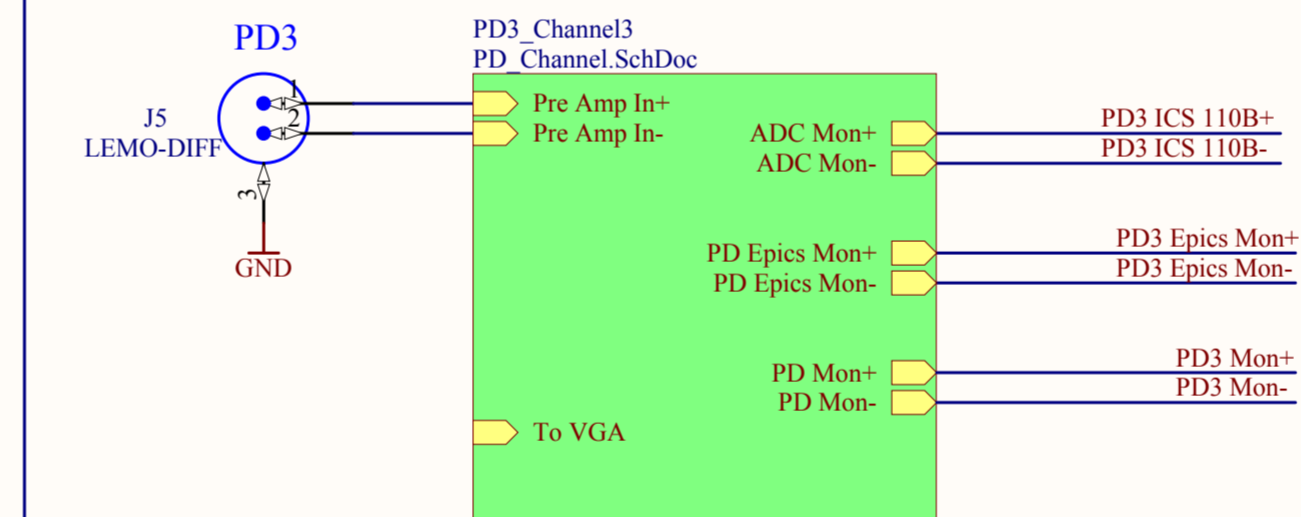
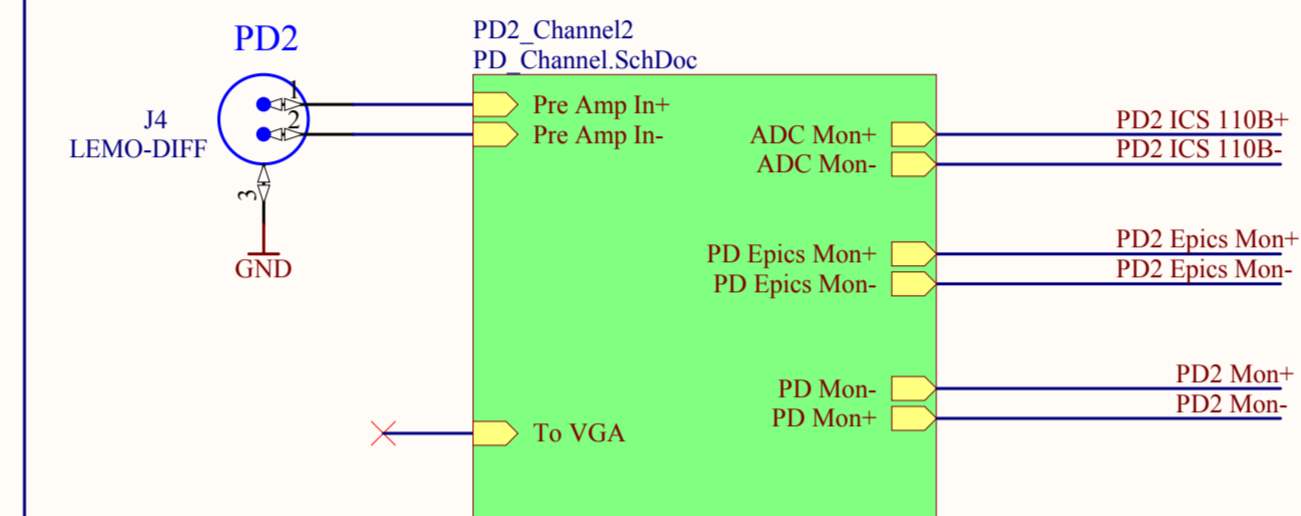
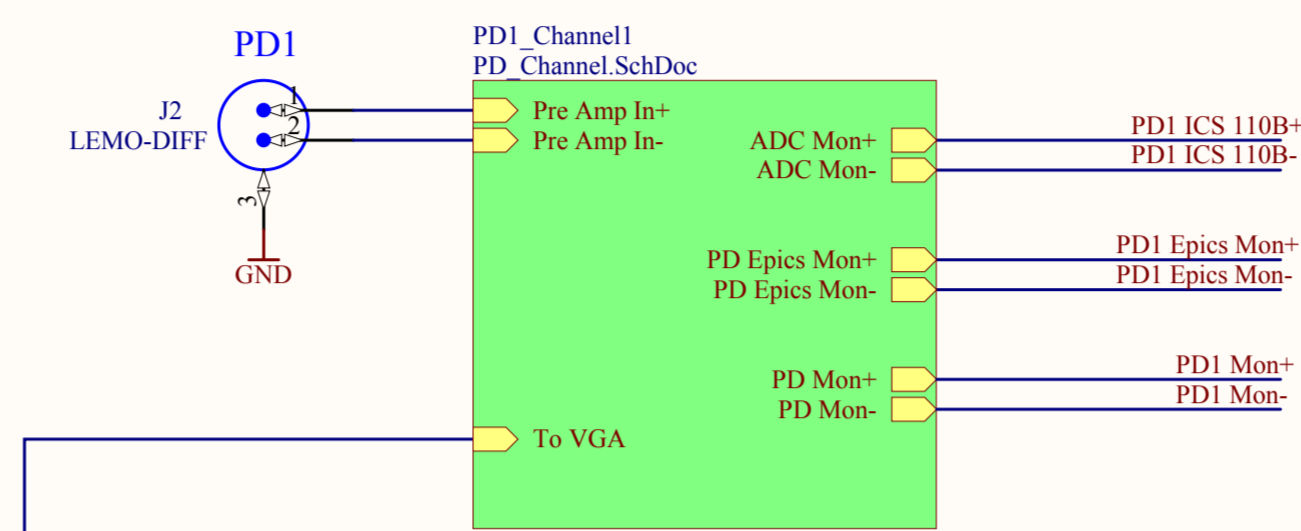
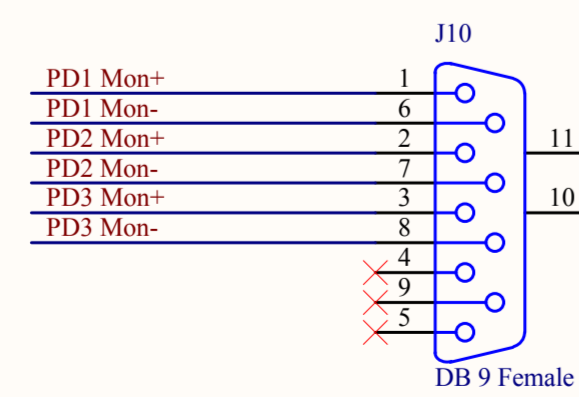
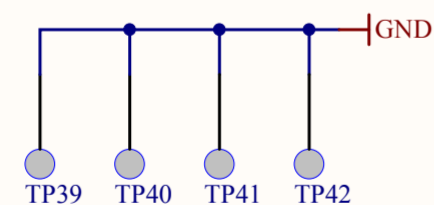
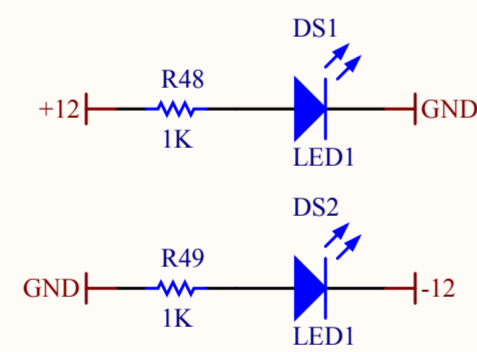
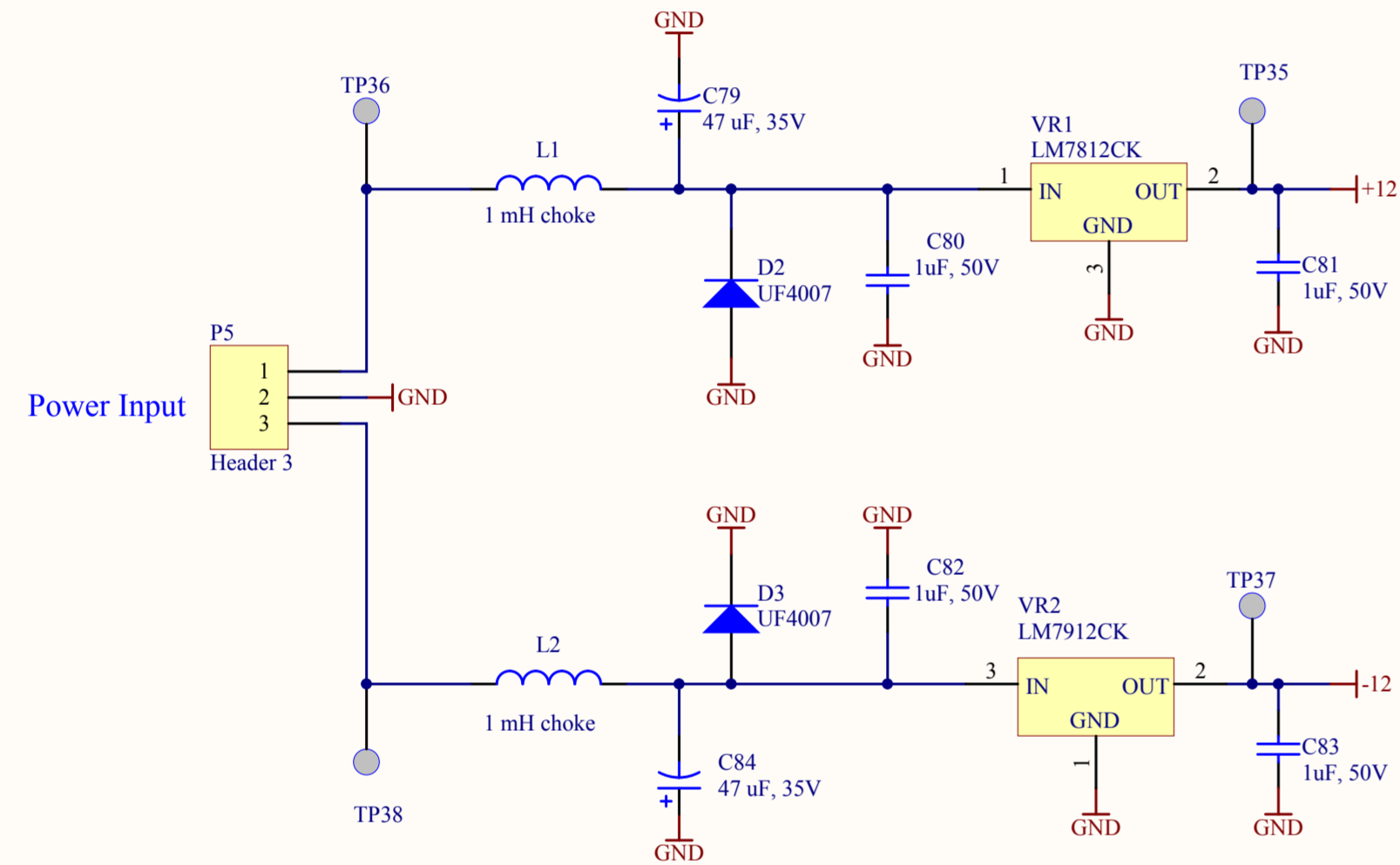


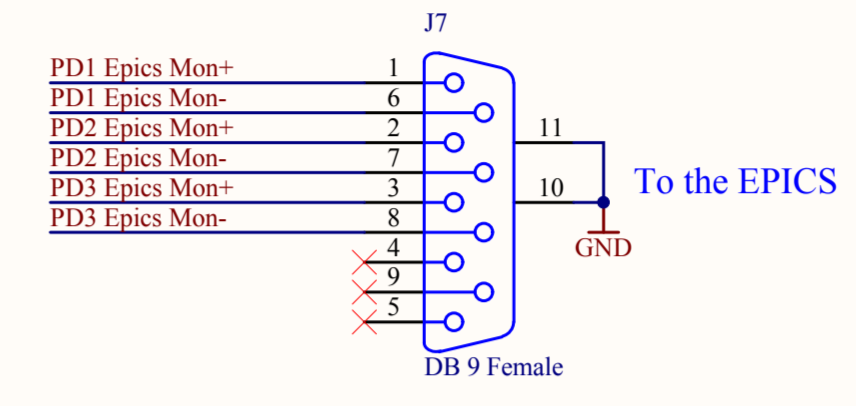
To the Pre Amplifier1



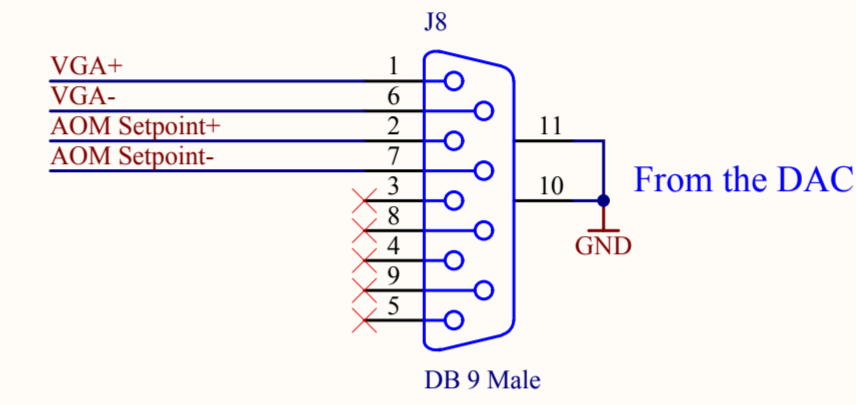
To the Pre Amplifier2



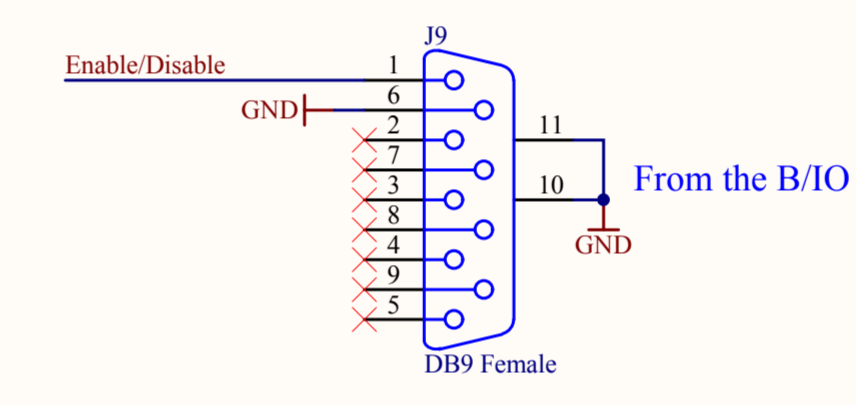
To the ADC



To the EPICS



From the DAC



From the B/I/O

**REV A3**

**NOTE 1**  
R4 is replaced from 100K to 200K on PD1 and PD2  
R4 is replaced from 100K to 10K on PD3 ( Y-arm )  
R4 is replaced from 100K to 2K on PD3 ( X-arm )

**NOTE 2**  
R10 is replaced from 10K to 100K on PD1 and PD2

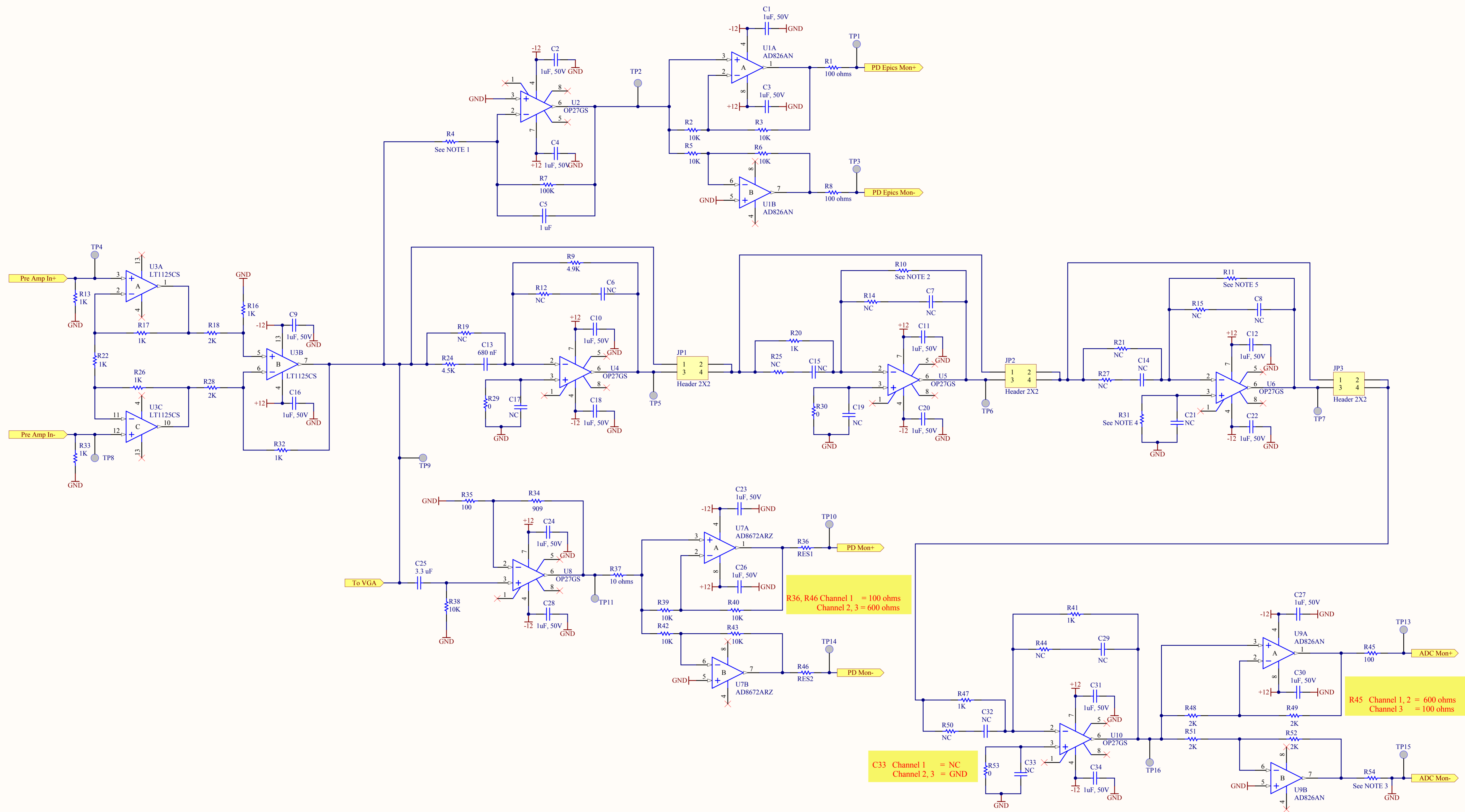
**NOTE 3**  
R54 is removed and grounded on PD1, PD2 and PD3 ( X-arm )  
R54 is removed and grounded on PD1 and PD2 ( Y-arm )

**NOTE 4**  
R31 is 0 ohms in all the channels.

**NOTE 5**  
R11 is 0 ohms in all the channels.

**NOTE 6**  
R82 is 10K on both X and Y.

**NOTE 7**  
Port TTL In is changed to Enable/Disable  
Open = Disable GND = Enable.

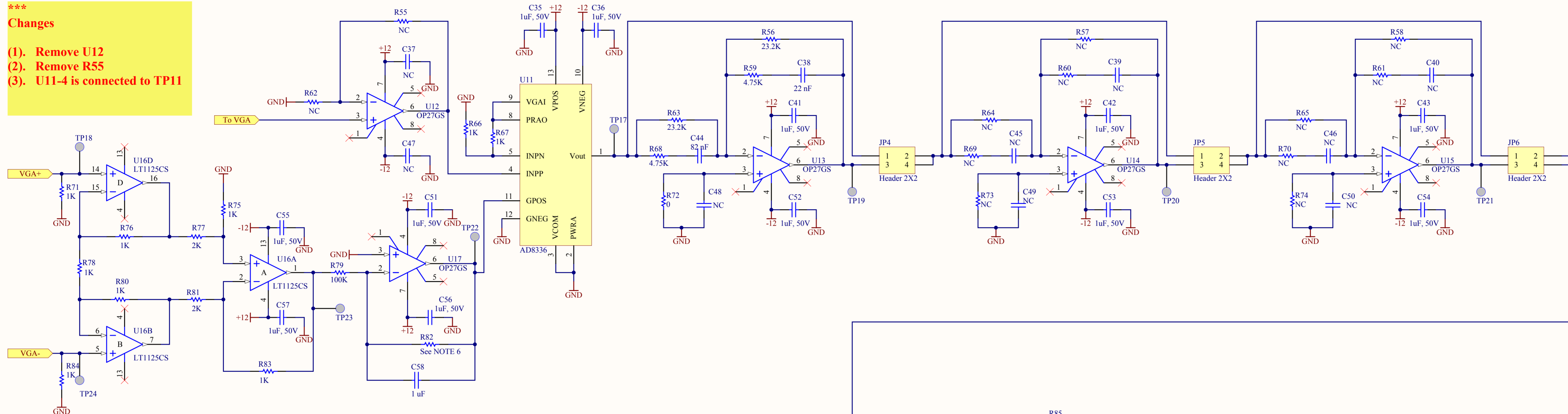


Last Edited: September 23rd, 2009 - LLO

VGA needs to be AC Coupled \*\*\*

\*\*\*  
**Changes**  
 (1). Remove U12  
 (2). Remove R55  
 (3). U11-4 is connected to TP11

Variable Gain Stage



Flip Sign Stage

