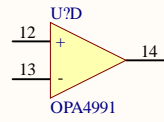
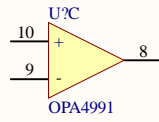
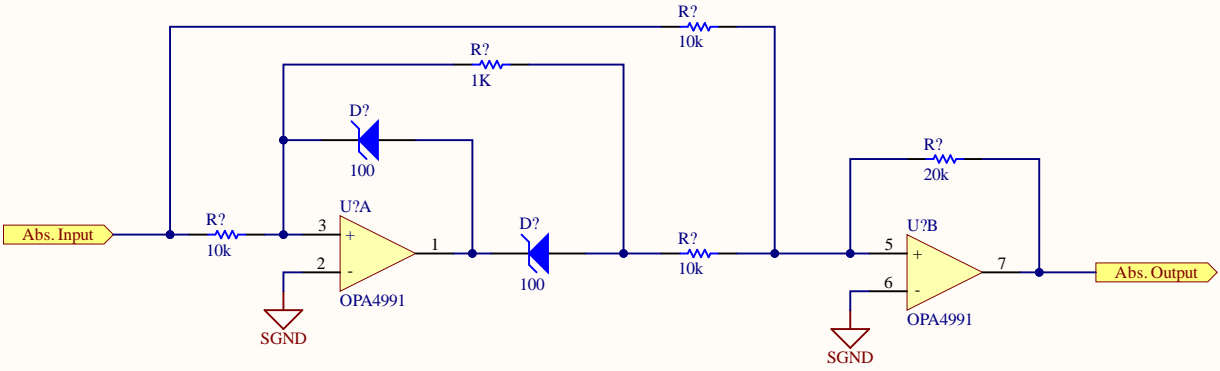
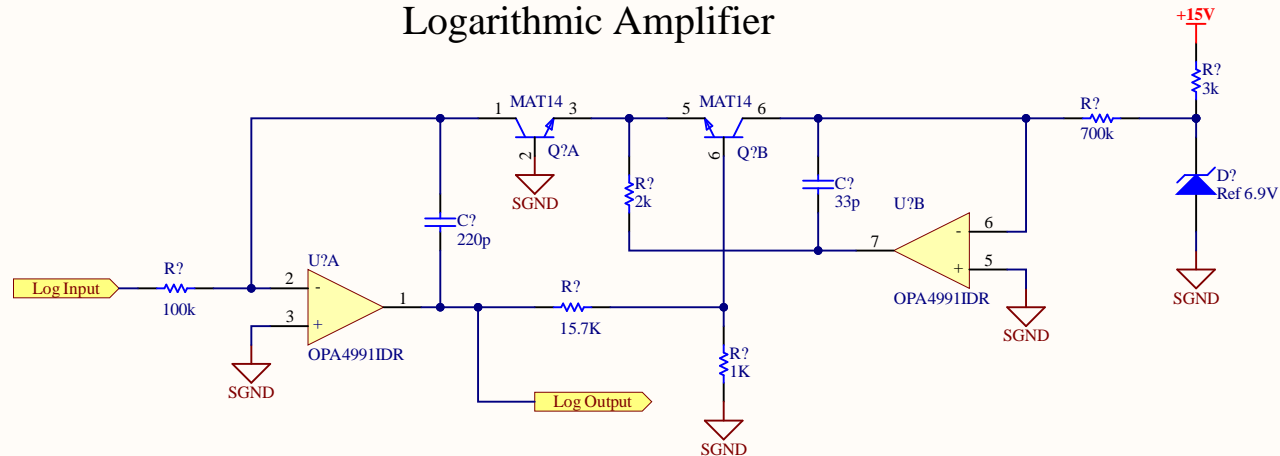


Title		
Size	Number	Revision
Letter		
Date:	2/22/2024	Sheet of
File:	C:\Users\...\Balanced Line Connectors.Sch	Drawn By:

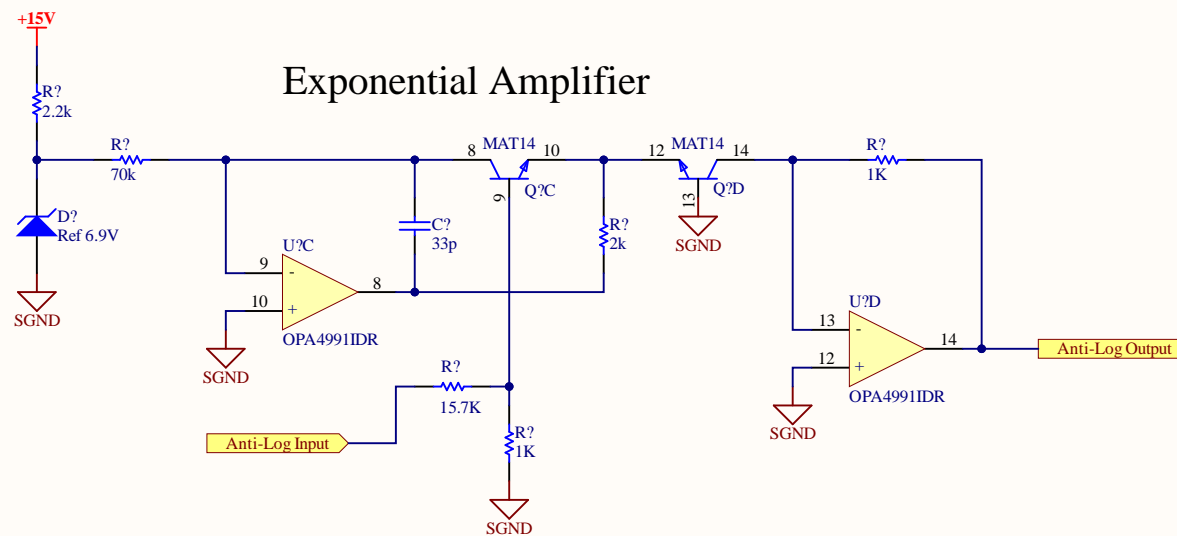


Title			
Size	Number		Revision
Letter			
Date:	2/22/2024		Sheet of
File:	C:\Users\...\Precision Full-Bridge Rectifier		Drawn By:

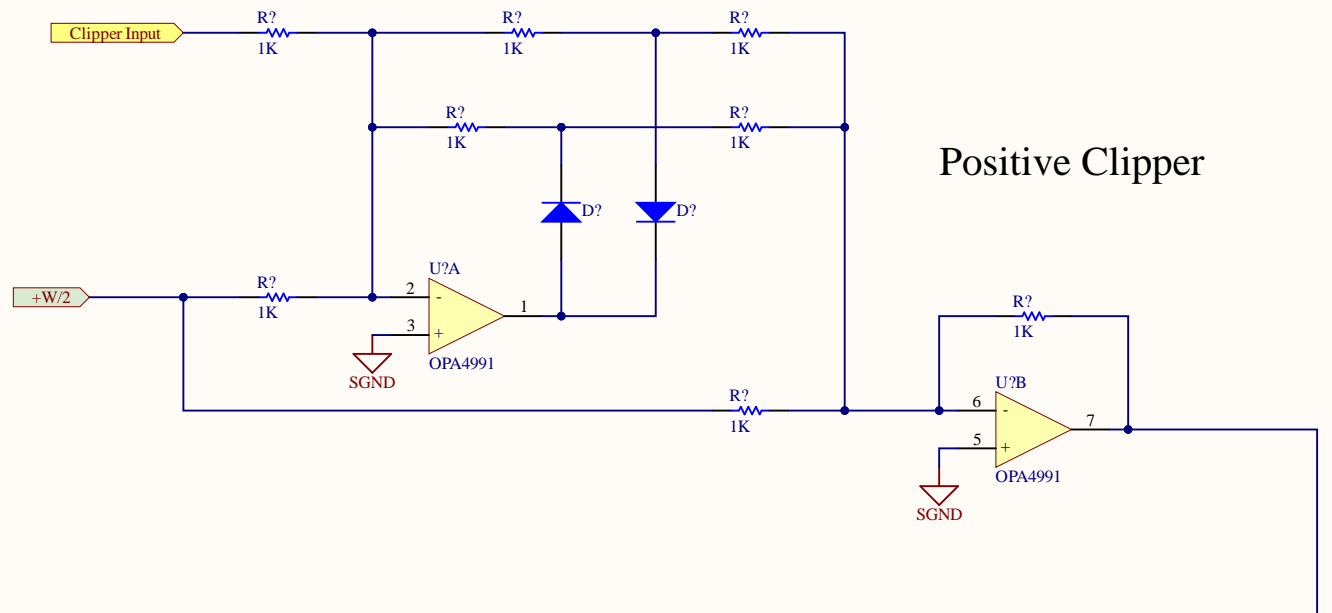
Logarithmic Amplifier



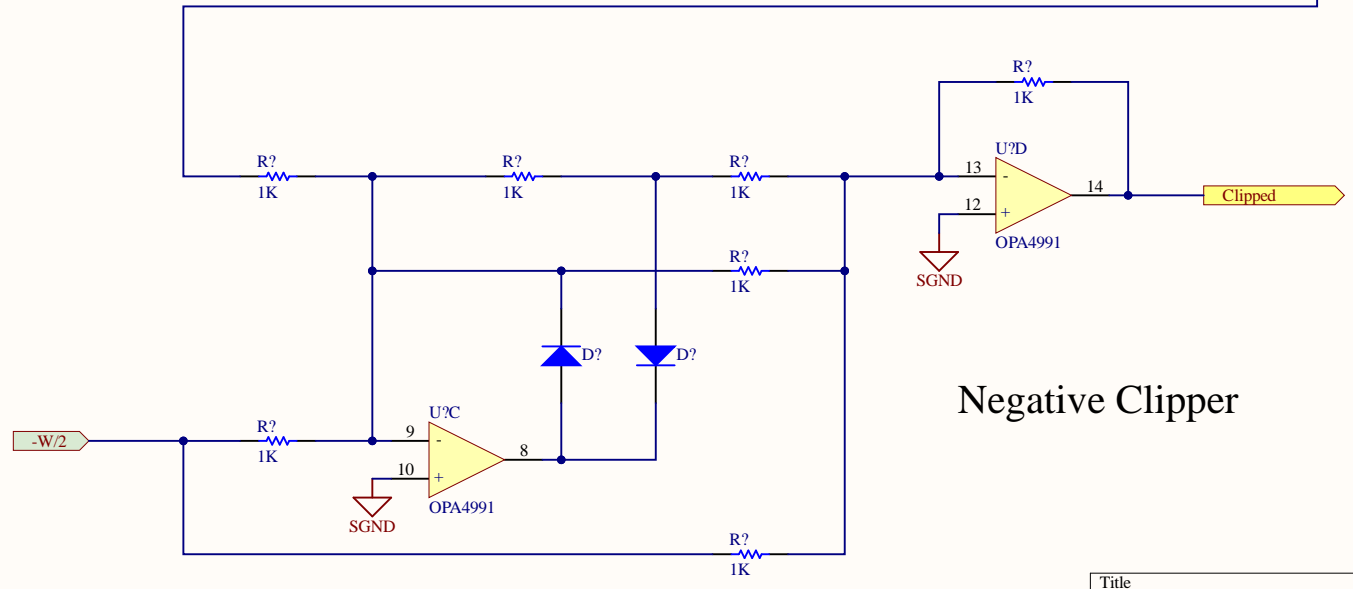
Exponential Amplifier



Title		
Size	Number	Revision
Letter		
Date:	2/22/2024	Sheet of
File:	C:\Users\...\Log and Anti-Log Converters	Drawn By:



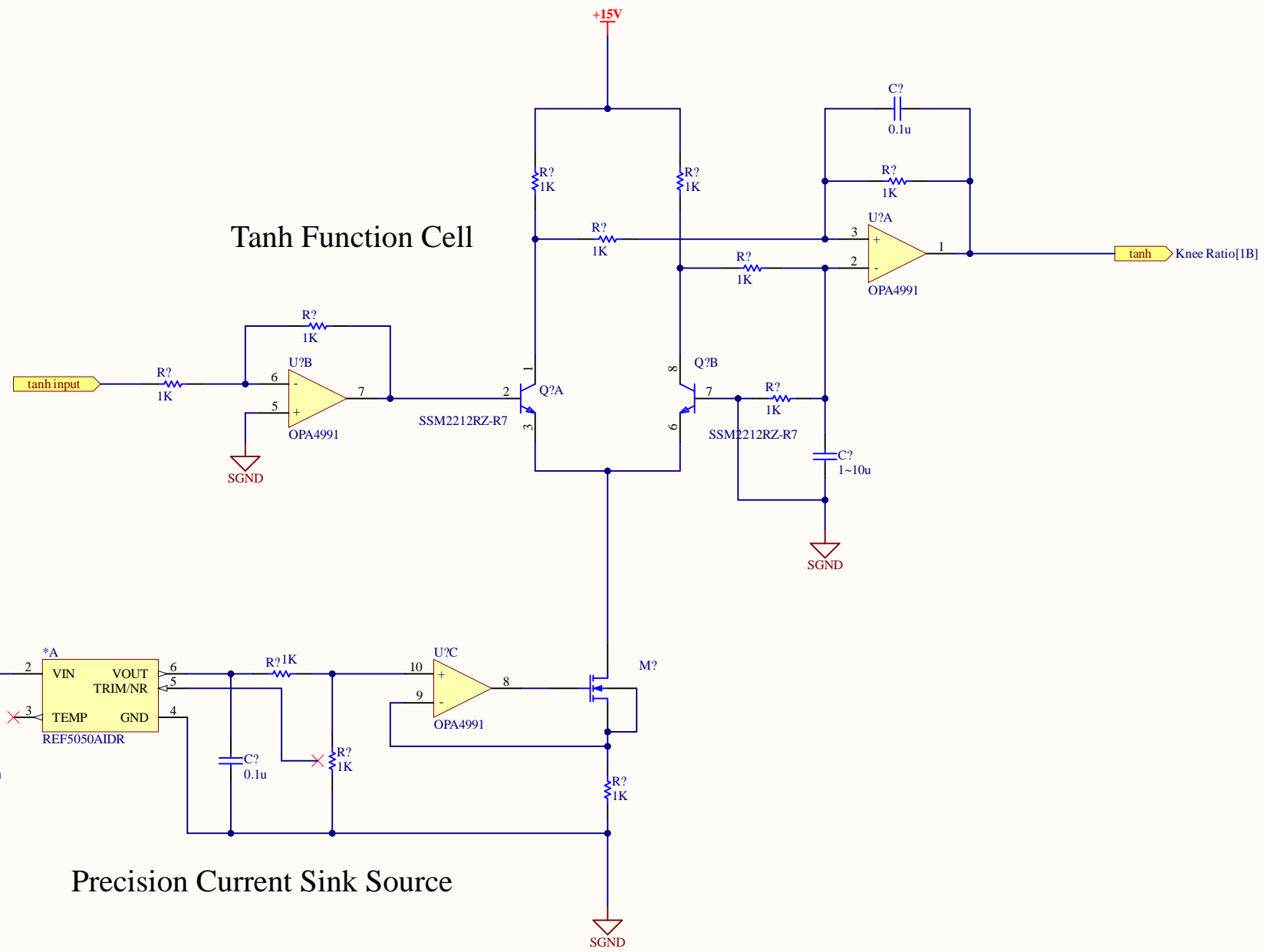
Positive Clipper



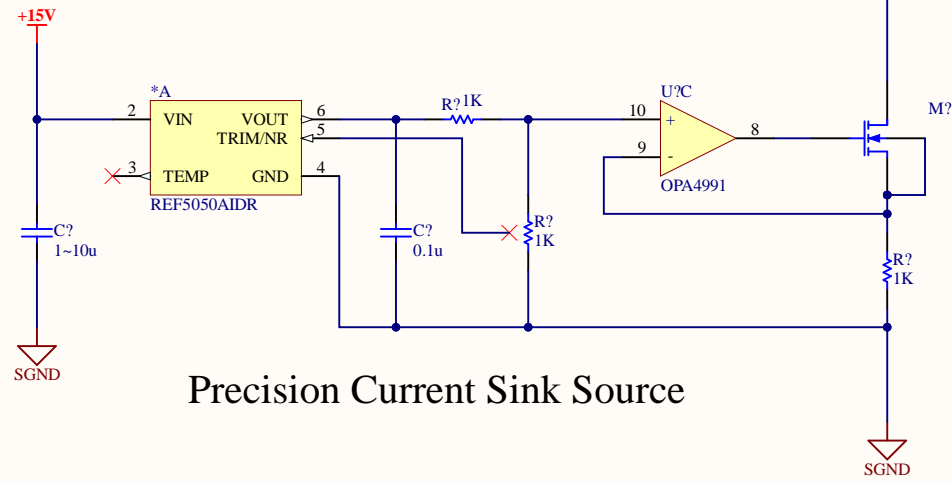
Negative Clipper

Title		
Size	Number	Revision
Letter		
Date:	2/22/2024	Sheet of
File:	C:\Users\...\Precision Positive & Negative Clipper.Brd	

Tanh Function Cell



Precision Current Sink Source



Sink current should be adjusted here so that the output of the tanh cell is normalized to $-0.5V < V_{out} < 0.5V$

Title		
Size	Number	Revision
Letter		
Date:	2/22/2024	Sheet of
File:	C:\Users\...\tanh function cell.SchDoc	Drawn By:

1

2

3

4

A

A

B

B

C

C

D

D

Title			
Size Letter	Number		Revision
Date:	2/22/2024		Sheet of
File:	C:\Users\...\Gain Computer.SchDoc		Drawn By:

1

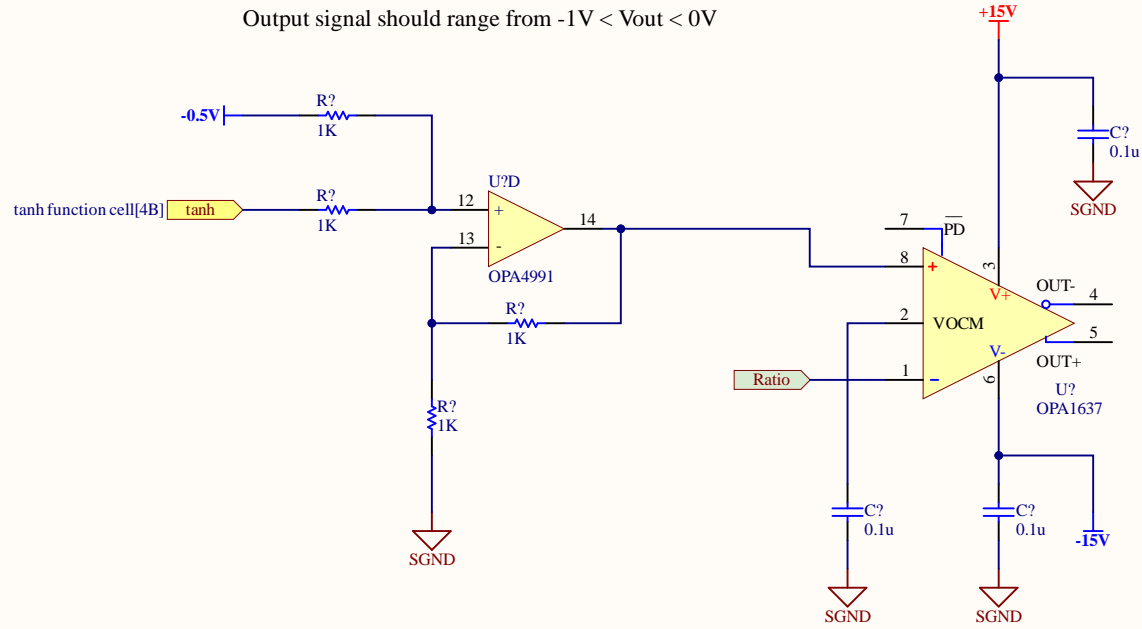
2

3

4

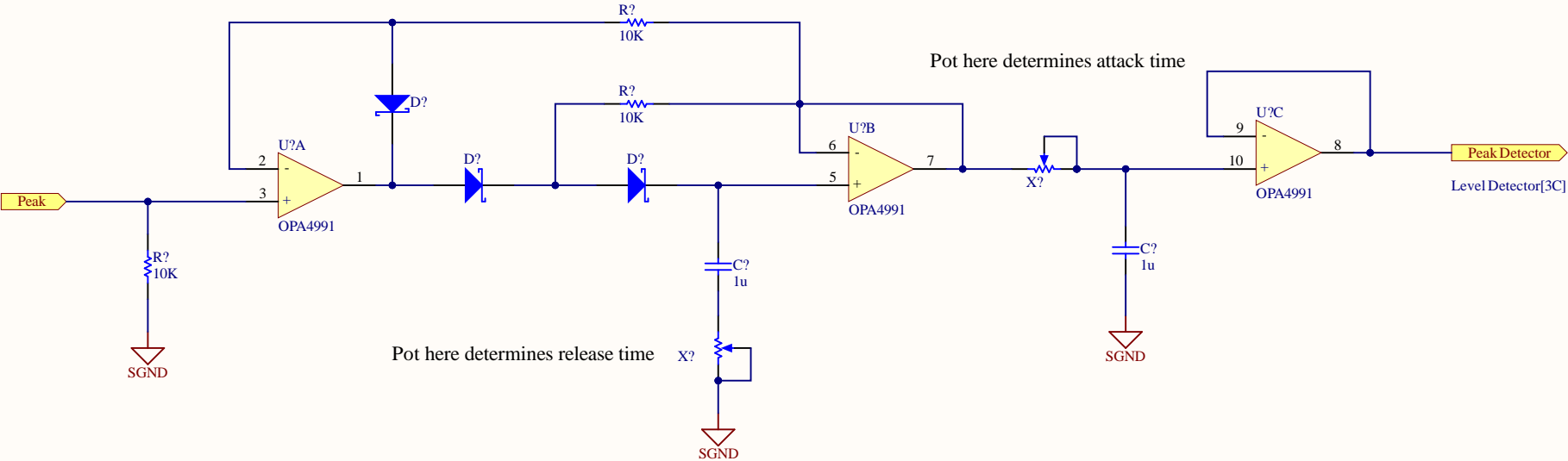
-0.5V offset is applied here

Output signal should range from $-1V < V_{out} < 0V$

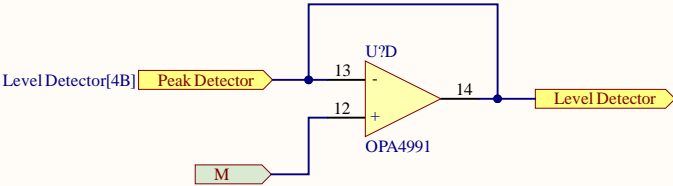
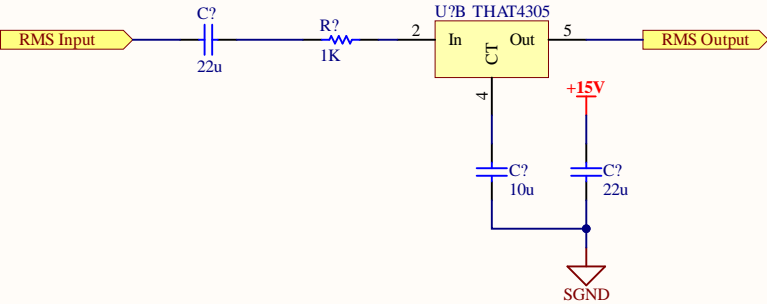


Title		
Size Letter	Number	Revision
Date:	2/22/2024	Sheet of
File:	C:\Users\...\Knee Ratio.SchDoc	Drawn By:

Precision Peak Detector with Attack and Release Control



RMS Detector



Title			
Size	Number	Revision	
Letter			
Date:	2/22/2024	Sheet	of
File:	C:\Users\...\Level Detector.SchDoc	Drawn By:	

1

2

3

4

A

A

B

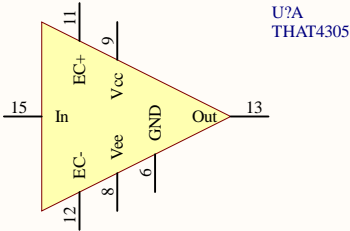
B

C

C

D

D



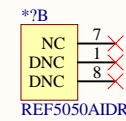
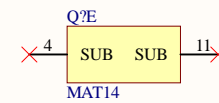
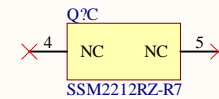
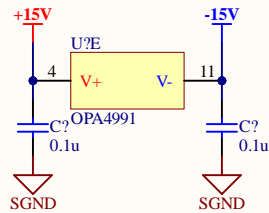
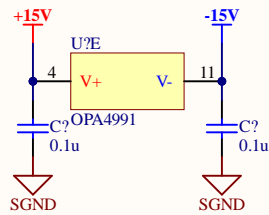
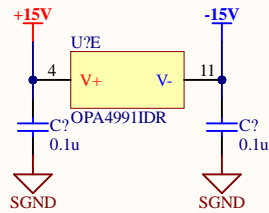
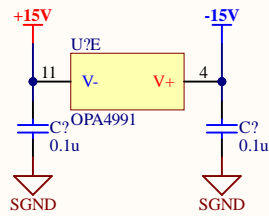
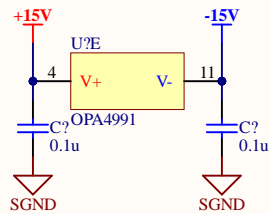
Title			
Size Letter	Number		Revision
Date:	2/22/2024		Sheet of
File:	C:\Users\...\Gain Control.SchDoc		Drawn By:

1

2

3

4



Title			
Size	Number		Revision
Letter			
Date:	2/22/2024		Sheet of
File:	C:\Users\...\Misc. Connections.SchDoc		Drawn By: