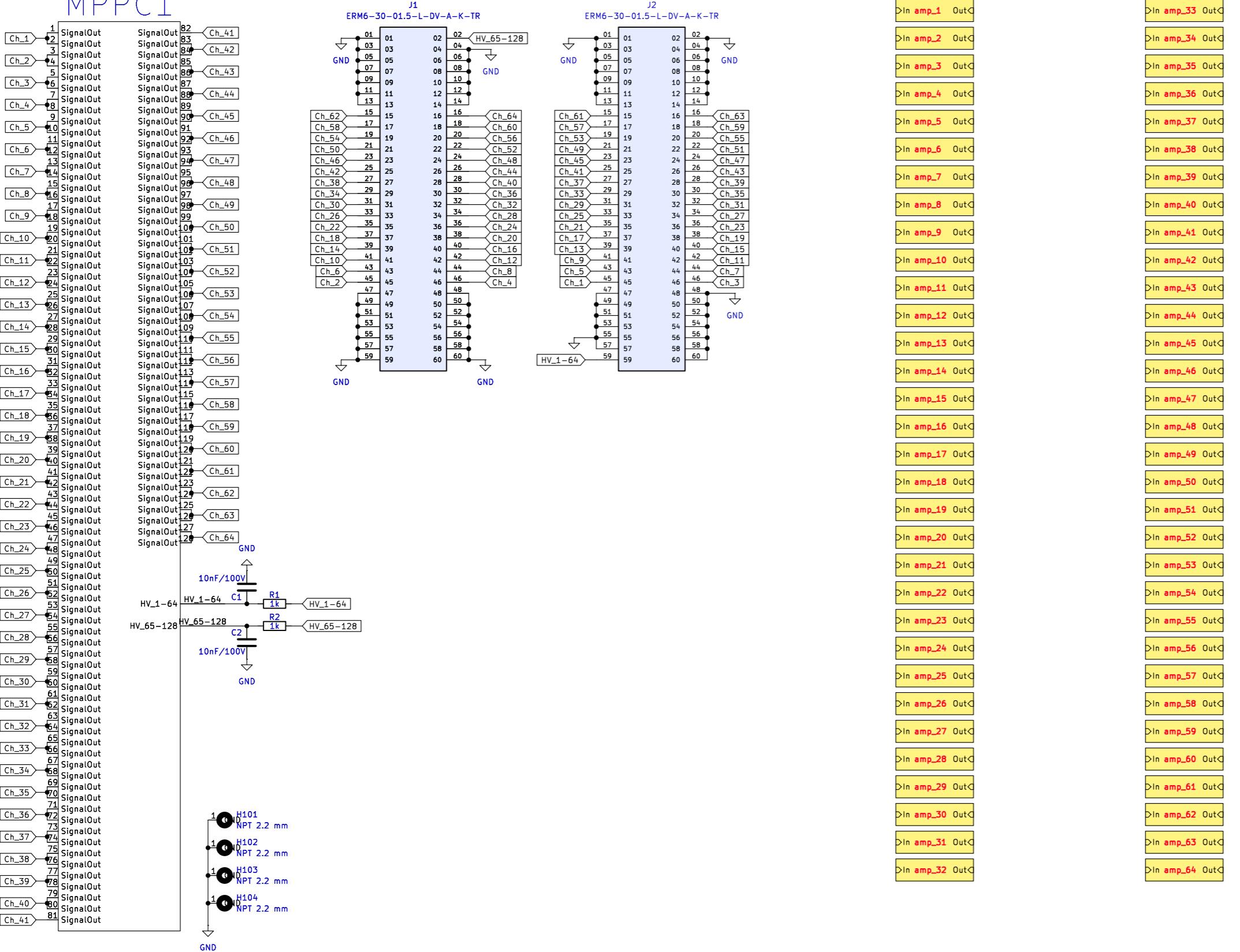


MPPC1



Stackup Info

Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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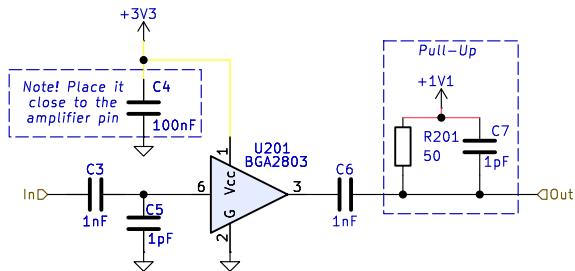
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Size: A3 Date: 2025-03-20
 KiCad E.D.A. 9.0.0

Rev: 0
 Id: 1/66

A

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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 DARMSTADT

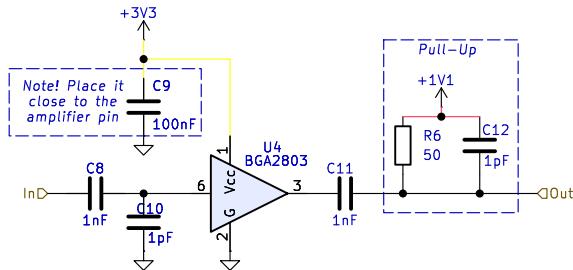
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 2/66

A

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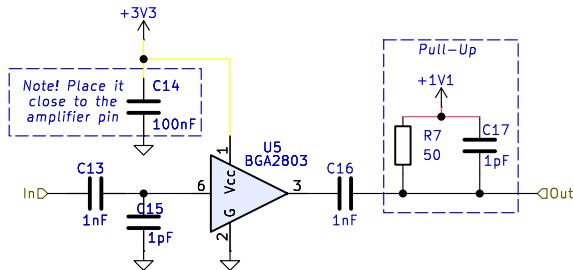
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Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 3/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
 UNIVERSITÄT
 DARMSTADT

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Size: A5	Date: 2025-03-25	Rev: 0
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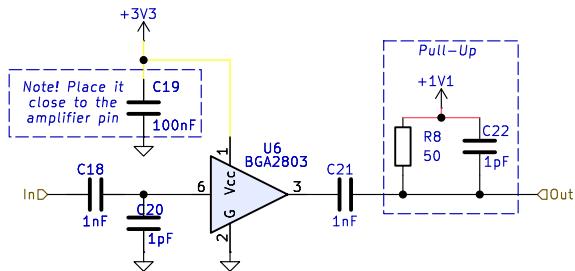
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C

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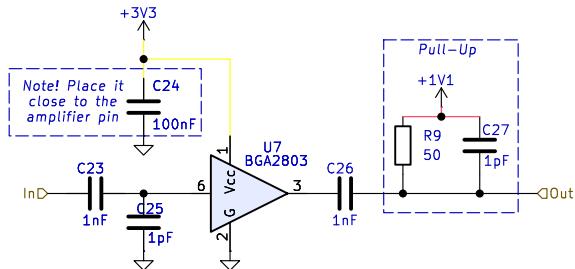
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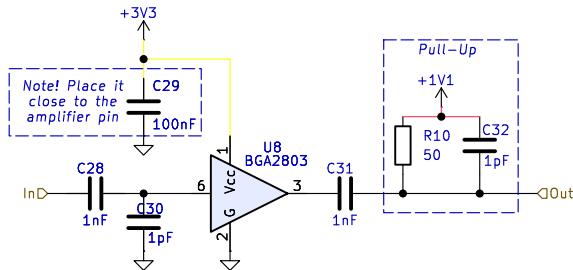
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C

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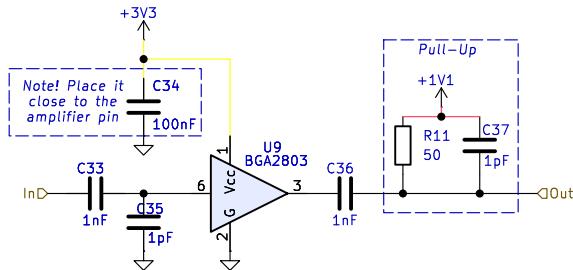
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KiCad E.D.A. 9.0.0			Id: 7/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_7/
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Size: A5	Date: 2025-03-25
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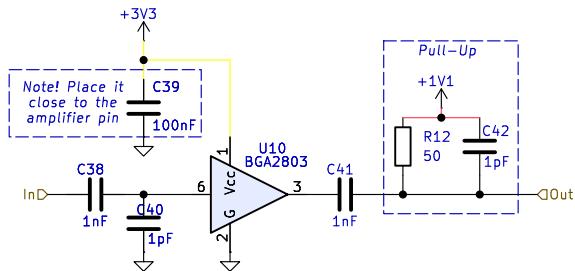
Rev: 0
Id: 8/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
 UNIVERSITÄT
 DARMSTADT

Sheet: /amp_8/
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Size: A5	Date: 2025-03-25
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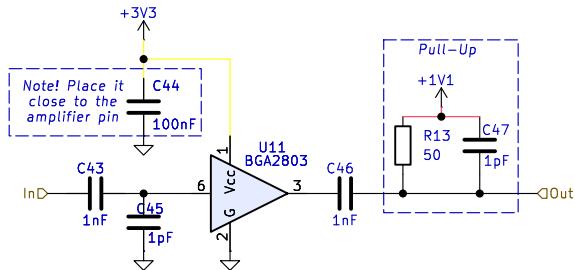
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Id: 9/66

C

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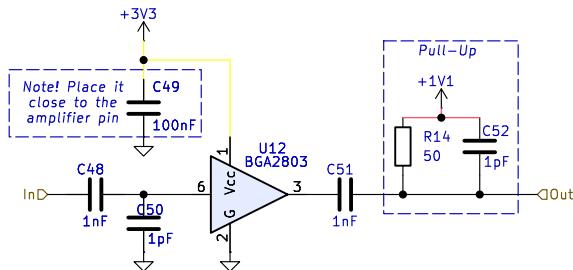
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Size: A5	Date: 2025-03-25	Rev: 0
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C

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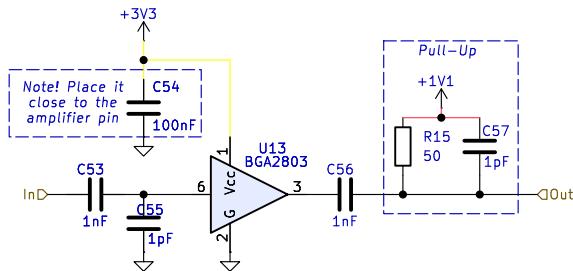
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Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 11/66

C

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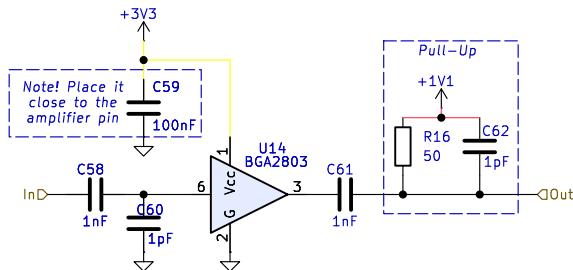
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Size: A5	Date: 2025-03-25	Rev: 0
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C

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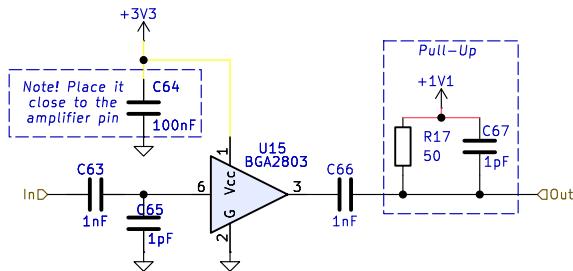
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Size: A5	Date: 2025-03-25		Rev: 0
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C

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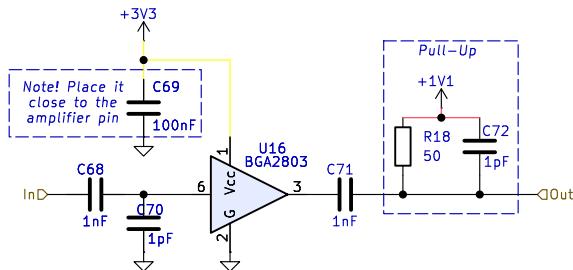
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Size: A5	Date: 2025-03-25		Rev: 0
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C

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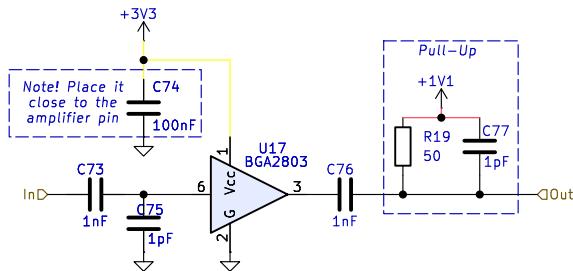
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Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 15/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Sheet: /amp_15/
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Title: Hamamatsu S13552 64 Channels Amplifier

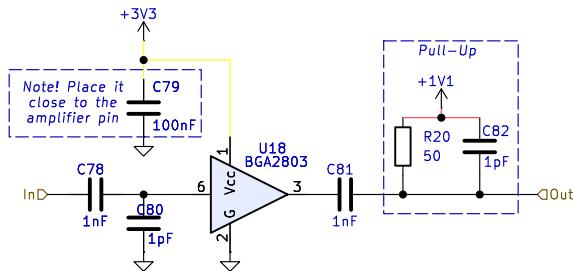
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C

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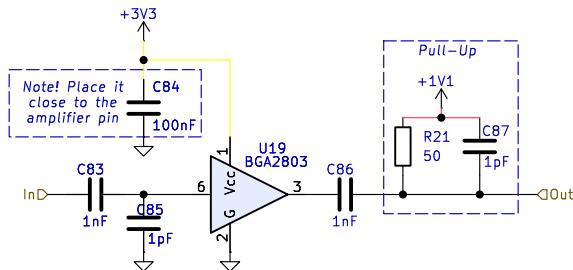
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Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 17/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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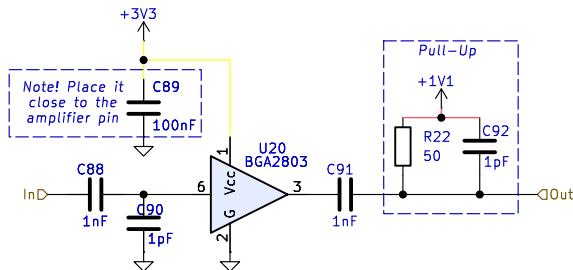
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A

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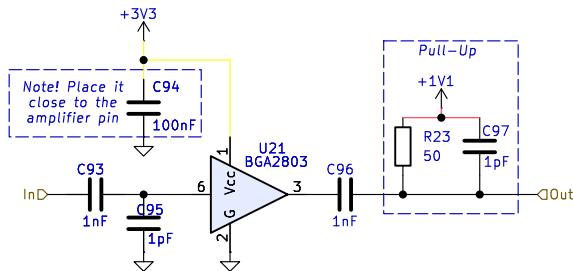
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Size: A5	Date: 2025-03-25	Rev: 0
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C

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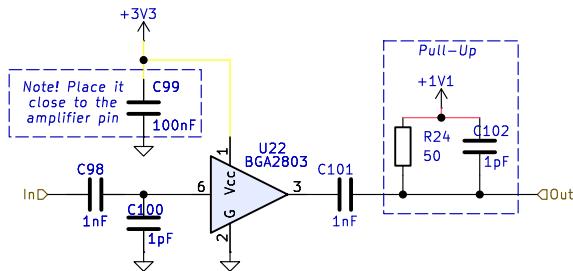
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Size: A5	Date: 2025-03-25	Rev: 0	
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C

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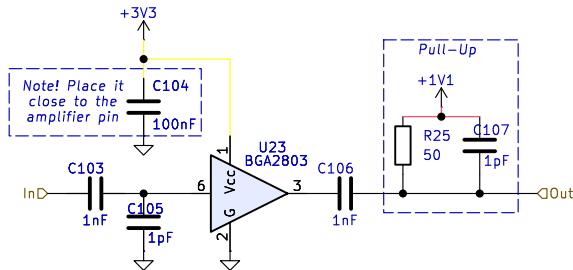
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Size: A5	Date: 2025-03-25	Rev: 0
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C

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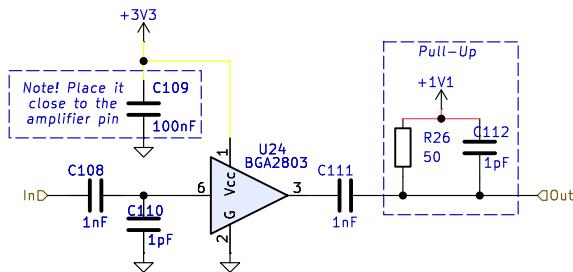
B

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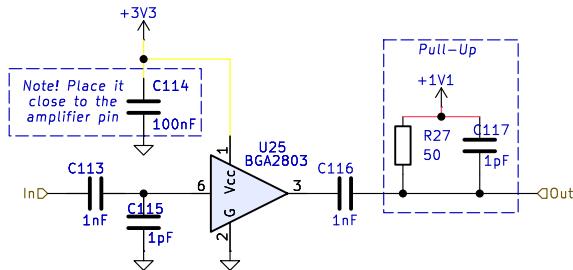
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Size: A5	Date: 2025-03-25	Rev: 0	
KiCad E.D.A. 9.0.0			Id: 23/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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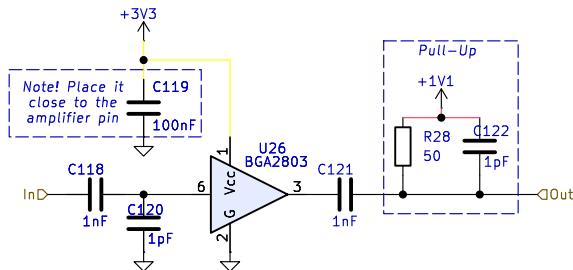
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C

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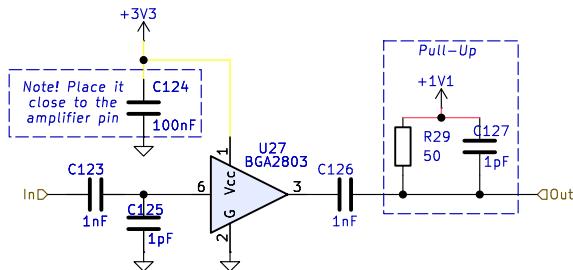
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Size: A5	Date: 2025-03-25	Rev: 0	
KiCad E.D.A. 9.0.0			Id: 25/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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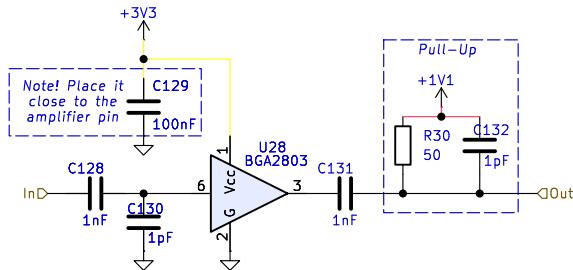
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Size: A5	Date: 2025-03-25	Rev: 0
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A

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_26/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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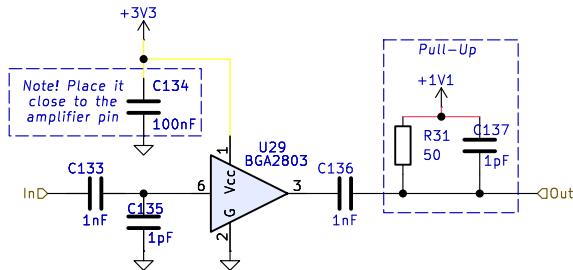
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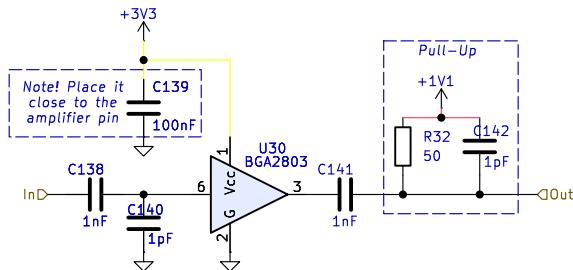
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Size: A5	Date: 2025-03-25		Rev: 0
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C

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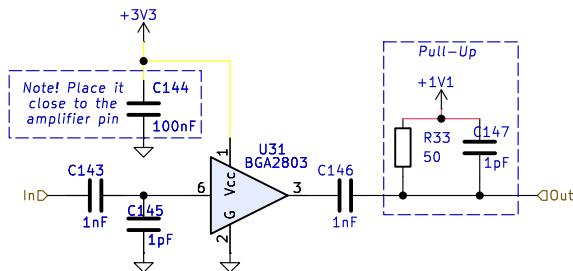
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Title: Hamamatsu S13552 64 Channels Amplifier		
Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 29/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_29/
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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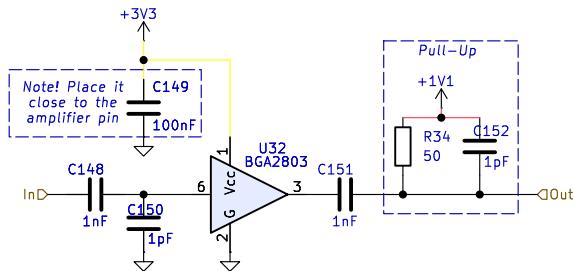
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C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
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 DARMSTADT

Sheet: /amp_30/

File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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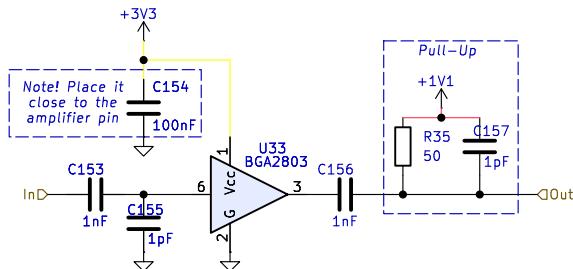
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C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
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 DARMSTADT

Sheet: /amp_31/

File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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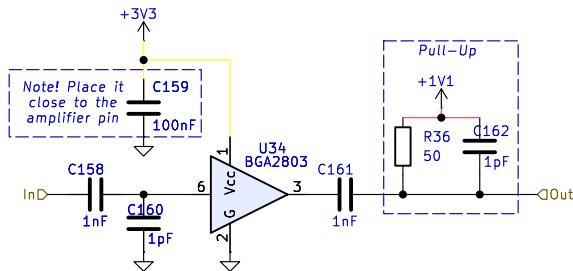
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C

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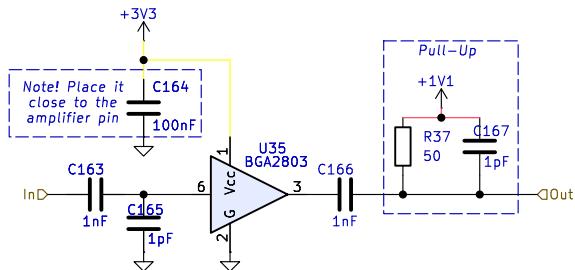
B

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
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 DARMSTADT

Sheet: /amp_33/
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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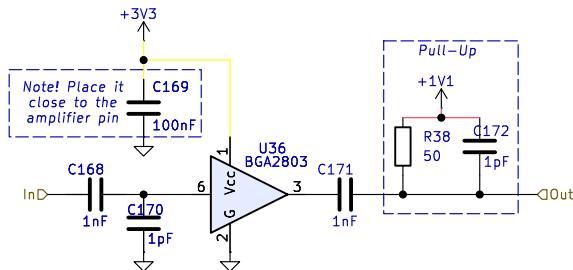
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C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_34/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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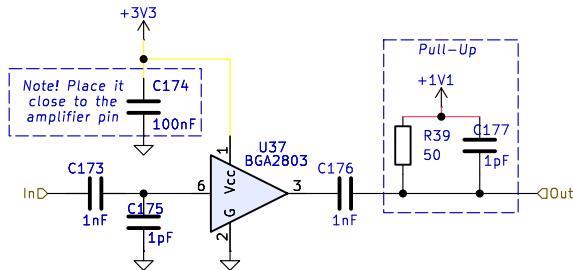
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C

C

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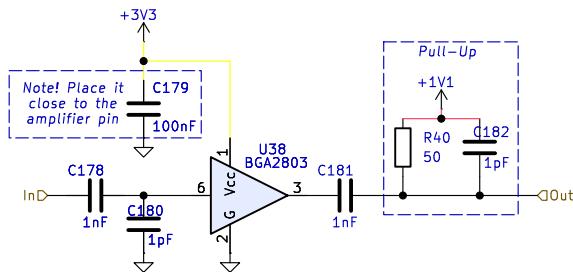
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
Sheet: /amp_35/ File: BGA2803_amplifier.kicad_sch			
Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25	Rev: 0	
KiCad E.D.A. 9.0.0			Id: 36/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_36/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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KiCad E.D.A. 9.0.0

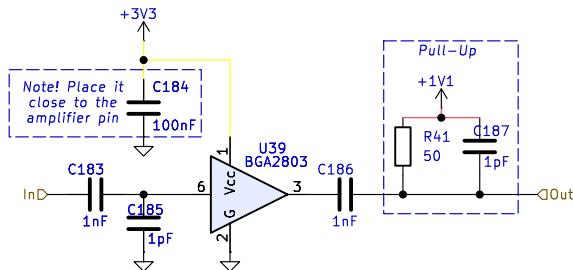
Id: 37/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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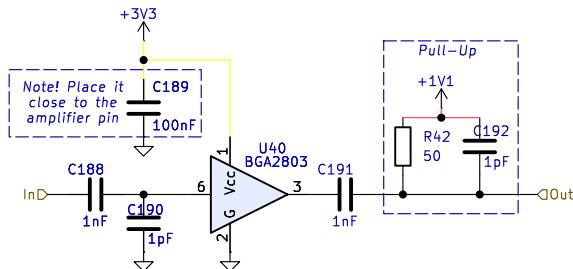
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 38/66

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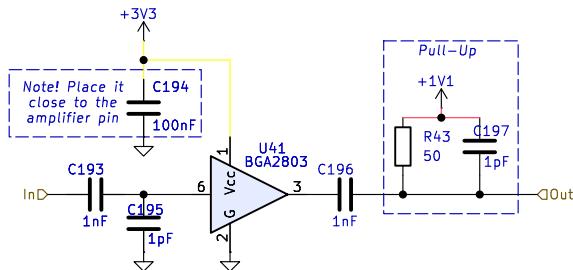
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
Sheet: /amp_38/ File: BGA2803_amplifier.kicad_sch			
Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 39/66

C

C

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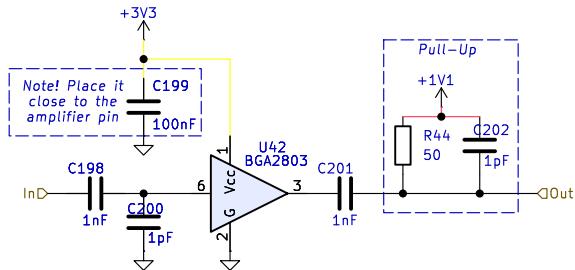
B

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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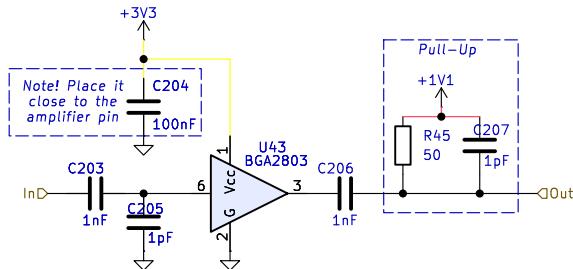
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 41/66

A

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_41/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
KiCad E.D.A. 9.0.0	

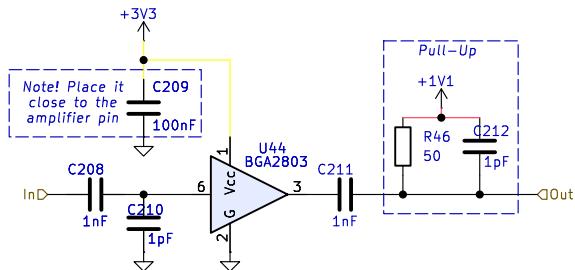
Rev: 0
Id: 42/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Sheet: /amp_42/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
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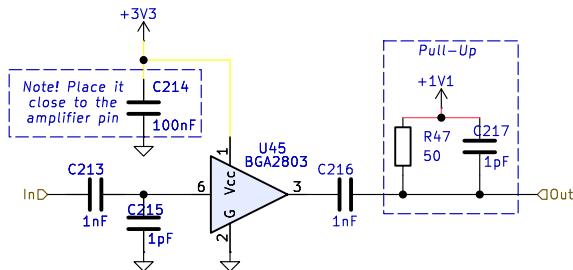
Rev: 0
Id: 43/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



TECHNISCHE
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Sheet: /amp_43/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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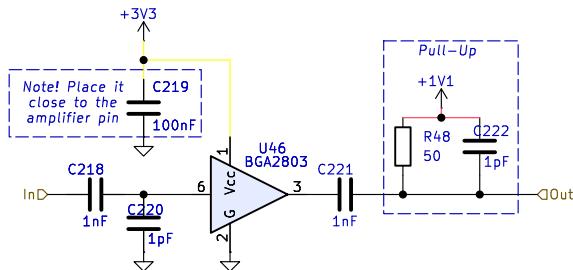
 KiCad E.D.A. 9.0.0 | Id: 44/66 |

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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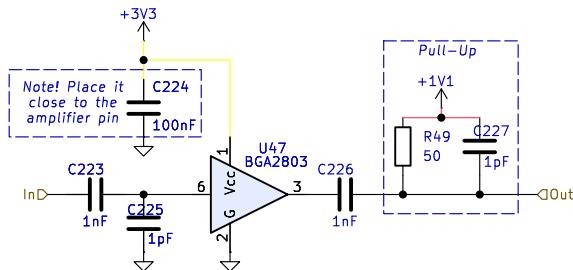
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Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 45/66

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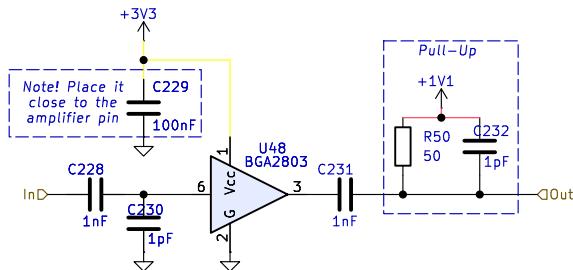
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
Sheet: /amp_45/ File: BGA2803_amplifier.kicad_sch			
Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 46/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Sheet: /amp_46/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
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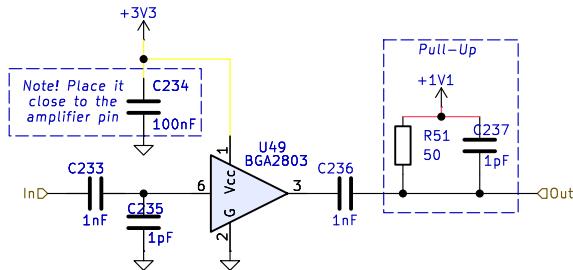
Rev: 0
Id: 47/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Sheet: /amp_47/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
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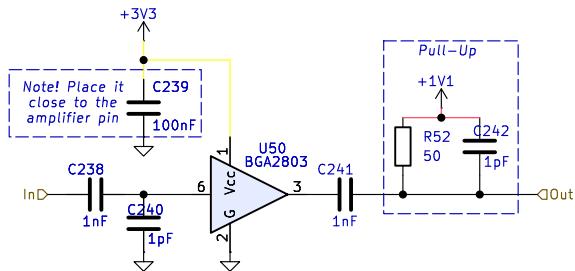
Rev: 0
Id: 48/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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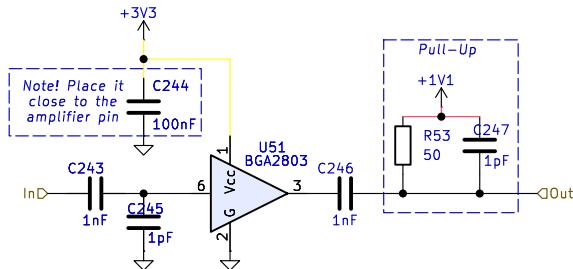
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Size: A5	Date: 2025-03-25	Rev: 0
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A

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_49/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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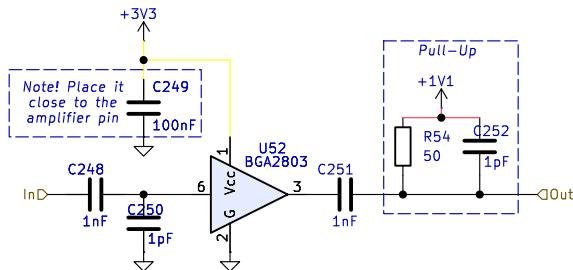
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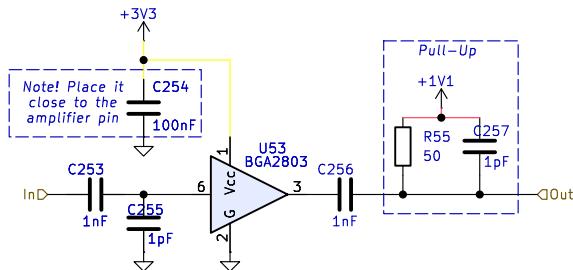
B

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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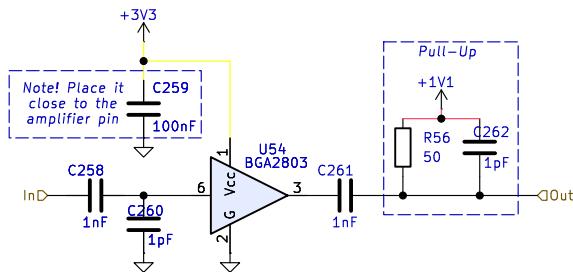
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Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 52/66

A

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_52/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
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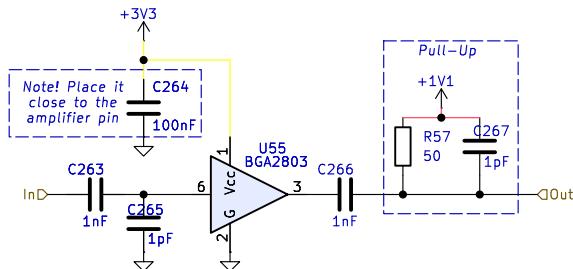
Rev: 0
Id: 53/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



TECHNISCHE
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Sheet: /amp_53/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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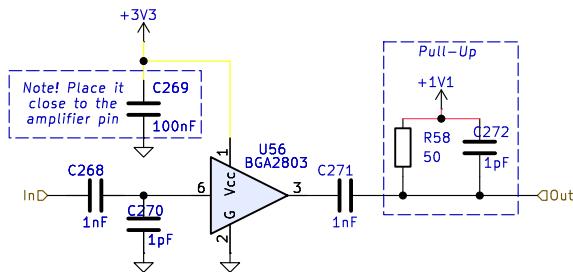
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C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_54/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
KiCad E.D.A. 9.0.0	

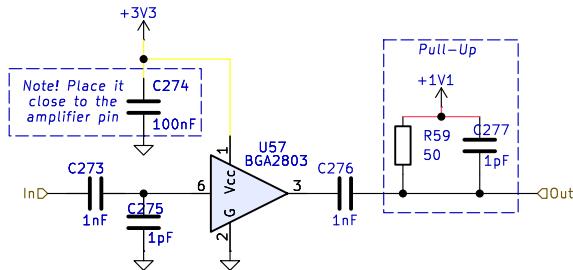
Rev: 0
Id: 55/66

C

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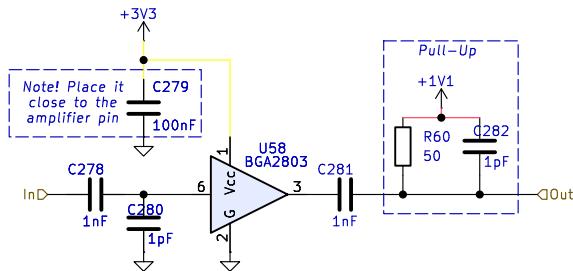
B

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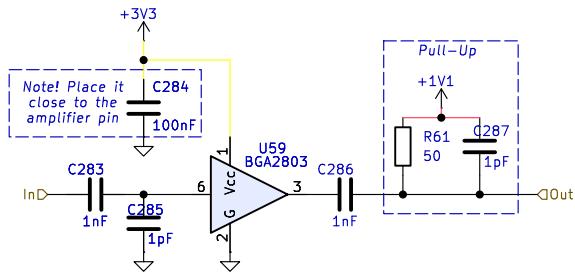
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B

Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
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Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 57/66

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Project: HYDRA TPC & Fiber Tracker

Author: Dr. Alexandru Enciu

Institution: Technische Universität Darmstadt



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Sheet: /amp 57/

Sheet: /amp_37/
File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5 Date: 2025-03-25

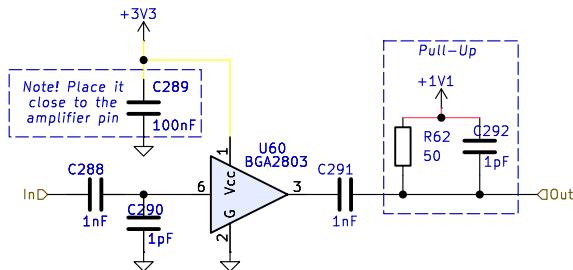
KiCad EDA 9.0.0

Rev. 0

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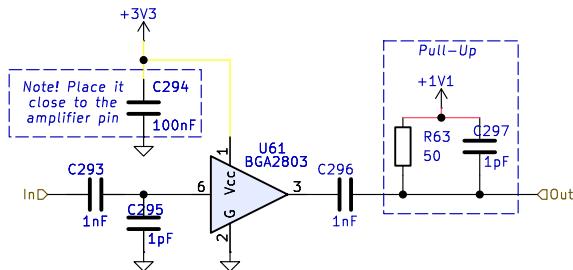
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
Sheet: /amp_58/ File: BGA2803_amplifier.kicad_sch			
Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 59/66

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
 Institution: Technische Universität Darmstadt



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Sheet: /amp_59/
 File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25
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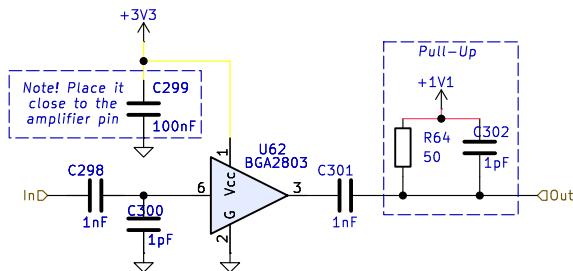
Rev: 0
Id: 60/66

C

C

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Project: HYDRA TPC & Fiber Tracker
 Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt



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Sheet: /amp_60/

File: BGA2803_amplifier.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A5	Date: 2025-03-25	Rev: 0
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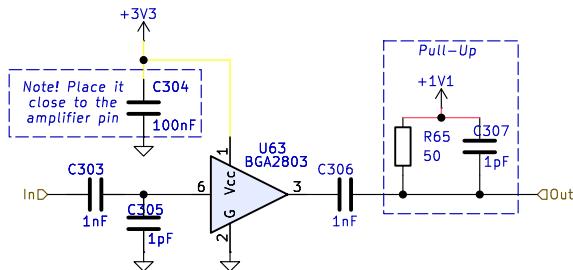
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C

C

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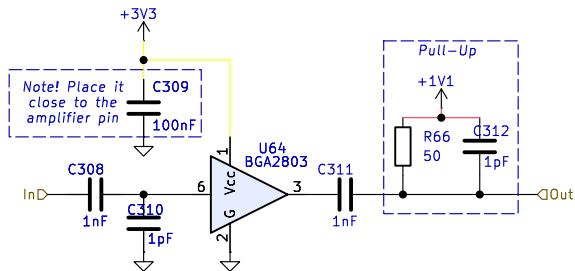
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
Sheet: /amp_61/ File: BGA2803_amplifier.kicad_sch			
Title: Hamamatsu S13552 64 Channels Amplifier			
Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 62/66

C

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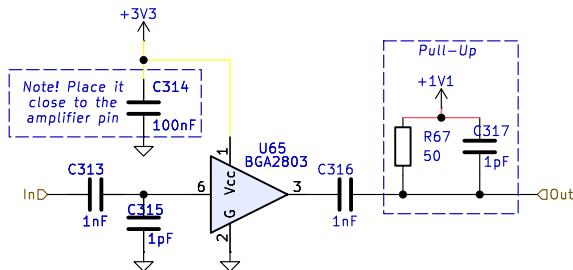
B

C

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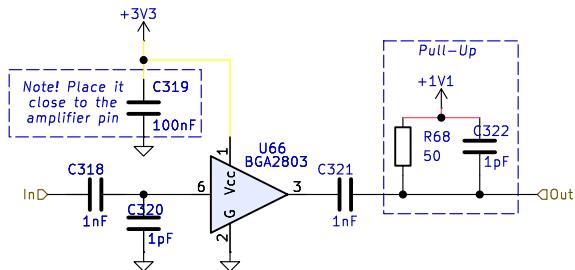
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt			TECHNISCHE UNIVERSITÄT DARMSTADT
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Size: A5	Date: 2025-03-25		Rev: 0
KiCad E.D.A. 9.0.0			Id: 64/66

C

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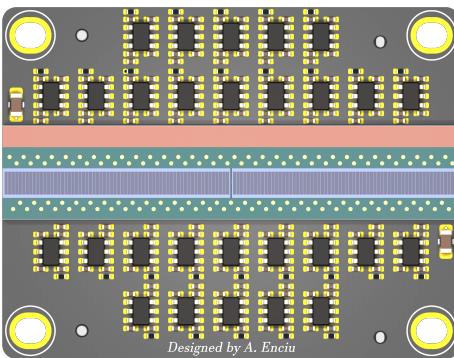
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B

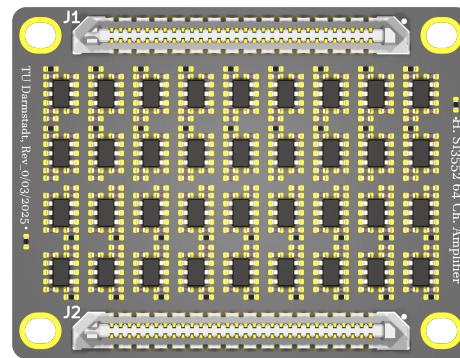
Project: HYDRA TPC & Fiber Tracker Author: Dr. Alexandru Enciu Institution: Technische Universität Darmstadt		 TECHNISCHE UNIVERSITÄT DARMSTADT
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Title: Hamamatsu S13552 64 Channels Amplifier		
Size: A5	Date: 2025-03-25	Rev: 0
KiCad E.D.A. 9.0.0		Id: 65/66

C

C



TOP VIEW



BOTTOM VIEW

Top	Signal
Inner_1	Ground
Inner_2	Signal
Inner_3	Ground
Inner_4	Power 3V3/1V1
Inner_5	Ground
Inner_6	Ground
Bottom	Signal

B

B

C

C

D

D

Project: HYDRA TPC & Fiber Tracker
Author: Dr. Alexandru Enciu
Institution: Technische Universität Darmstadt

Sheet: /Stackup_Info/
File: PCB_Stackup.kicad_sch

Title: Hamamatsu S13552 64 Channels Amplifier

Size: A4 Date:
KiCad E.D.A. 9.0.0



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Rev:
Id: 66/66