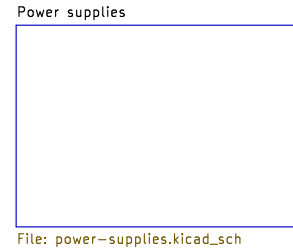




















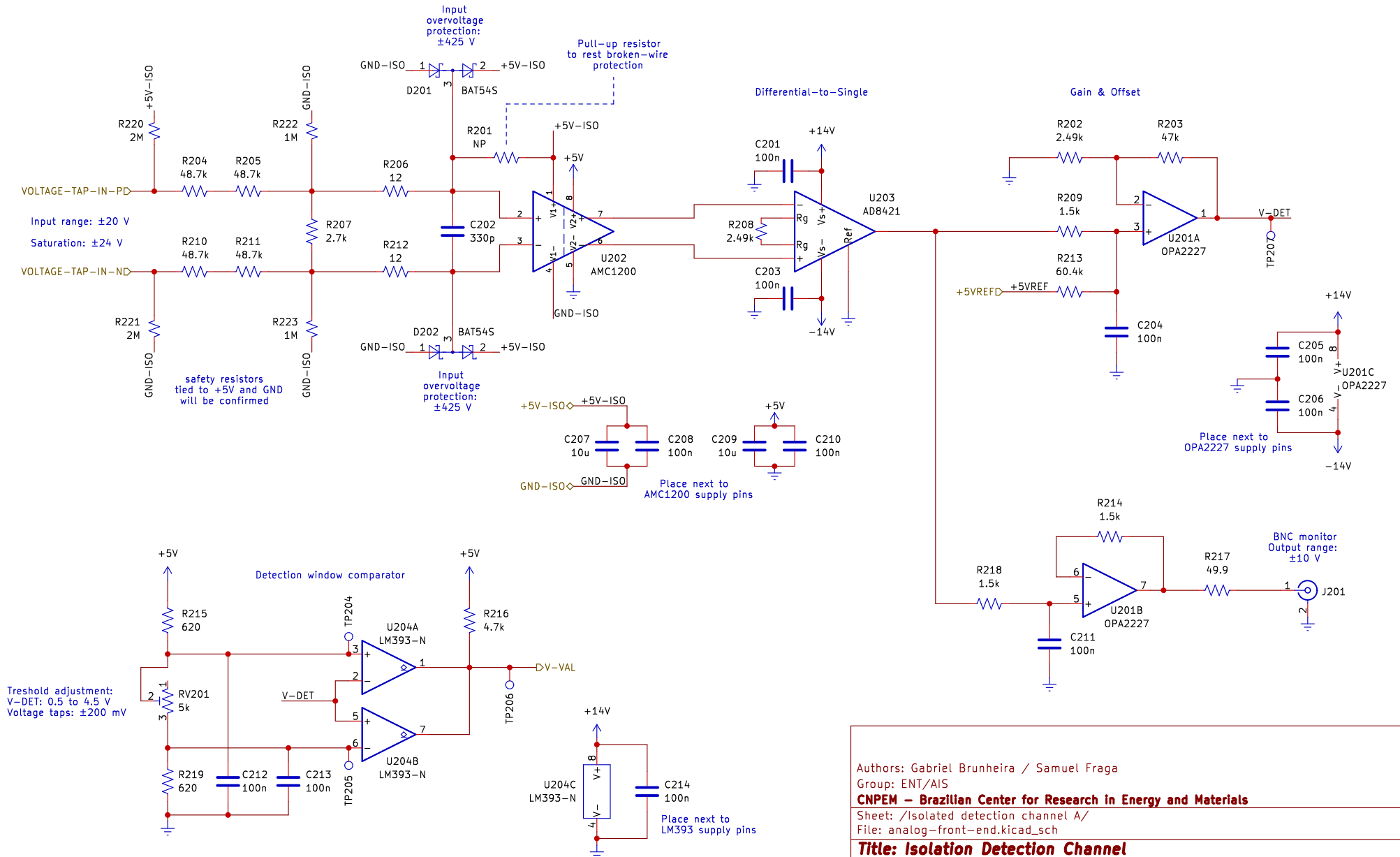
Authors: Gabriel Brunheira / Samuel Fraga  
Group: ENT/AIS  
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- +5V-ISO-A  TP105  
 +5V-ISO-B  TP106  
 +5V-ISO-C  TP107  
 +5V-ISO-D  TP108  
 GND-ISO-A  TP109  
 GND-ISO-B  TP110  
 GND-ISO-C  TP111  
 GND-ISO-D  TP112
- +15V  TP113  
 +14V  TP114  
 -14V  TP115  
 +5V  TP116
-  TP117  
 TP118  
 TP119  
 TP120  
 TP121  
 TP122

Id: 1/9

# Isolated detection channel



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

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Sheet: /Isolated detection channel A/

File: analog-front-end.kicad\_sch

**Title: Isolation Detection Channel**

Size: A4

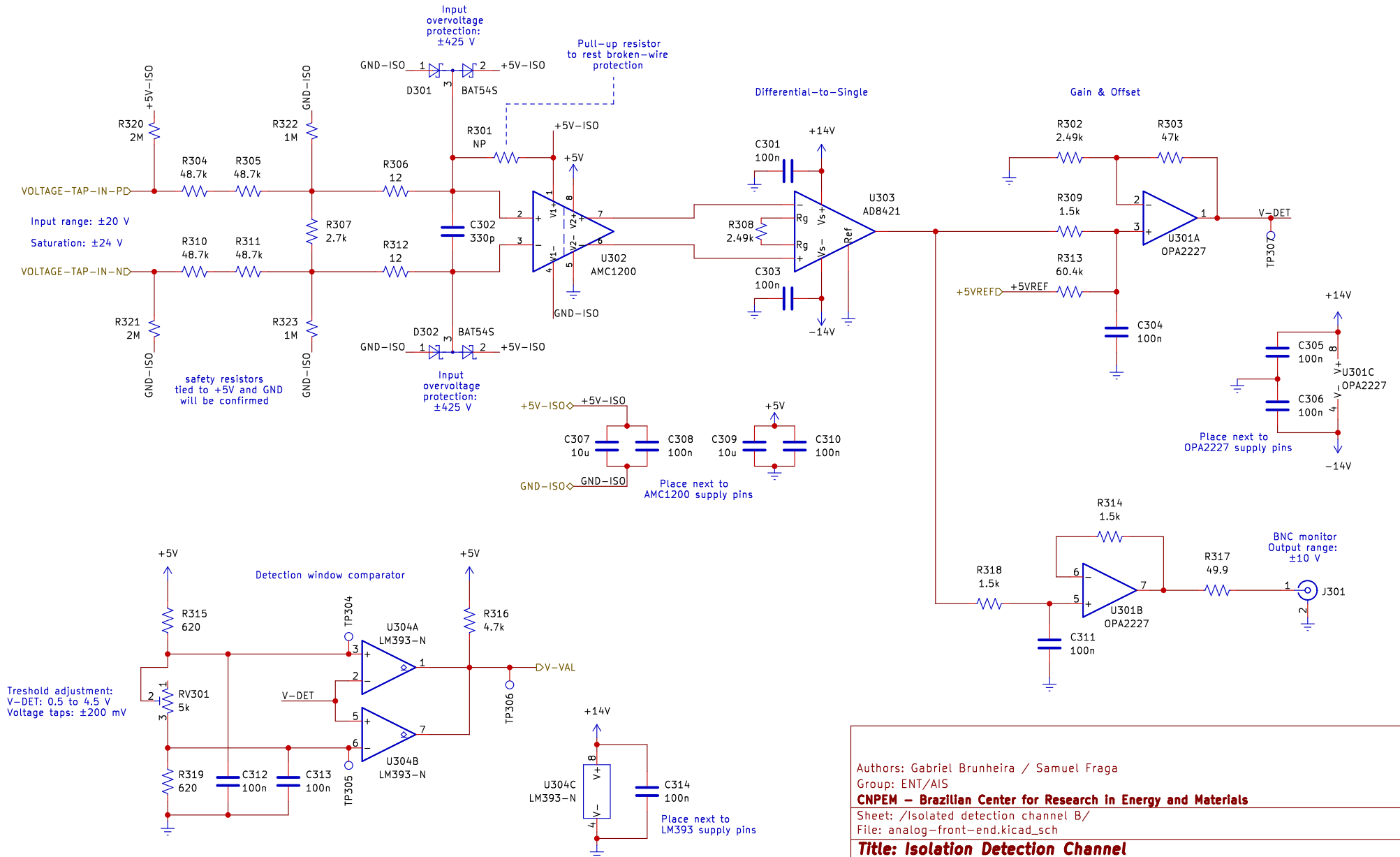
Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v1.0.0**

Id: 2/9

# Isolated detection channel



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

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Sheet: /Isolated detection channel B/

File: analog-front-end.kicad\_sch

**Title: Isolation Detection Channel**

Size: A4

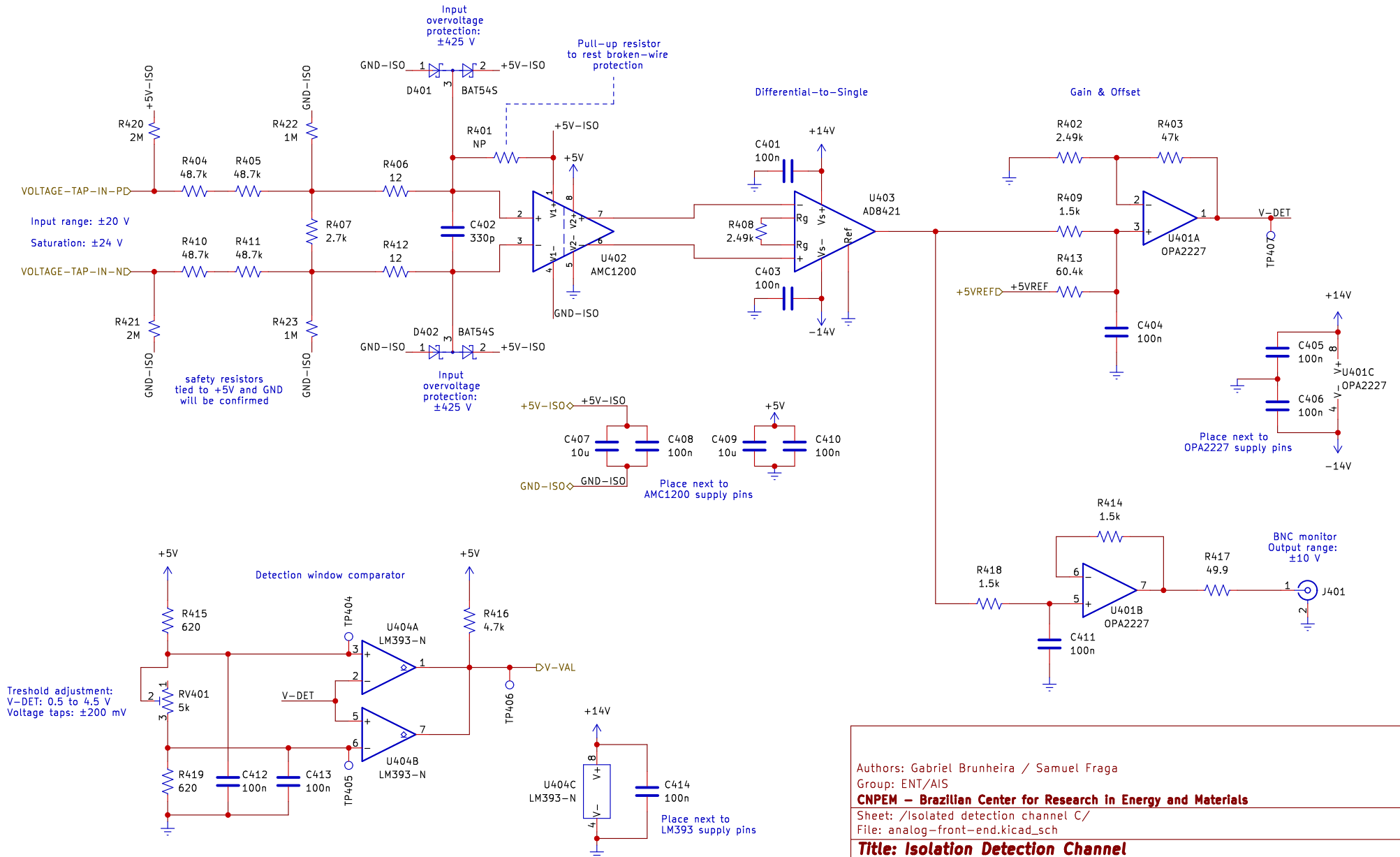
Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v1.0.0**

Id: 3/9

# Isolated detection channel



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

**CNPEN - Brazilian Center for Research in Energy and Materials**

Sheet: /Isolated detection channel C/

File: analog-front-end.kicad\_sch

**Title: Isolation Detection Channel**

Size: A4

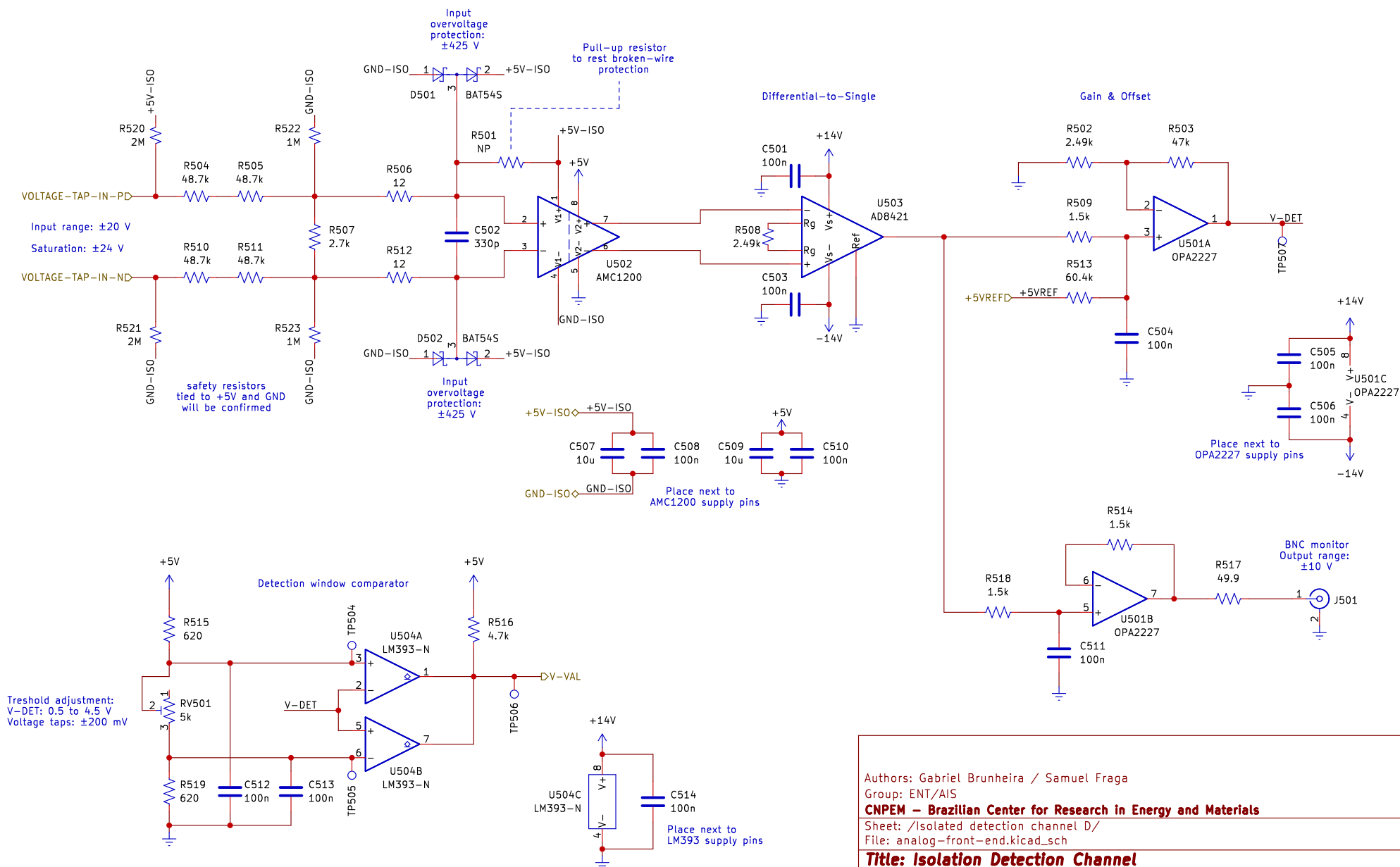
Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v1.0.0**

Id: 4/9

## Isolated detection channel



Group: ENT/AIS

Sheet: /Isolated detection channel D/

**Title: Isolation Detection**

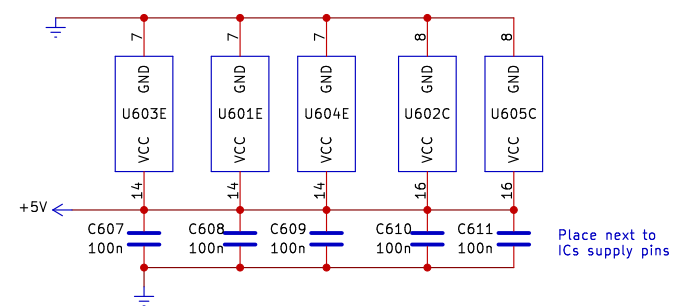
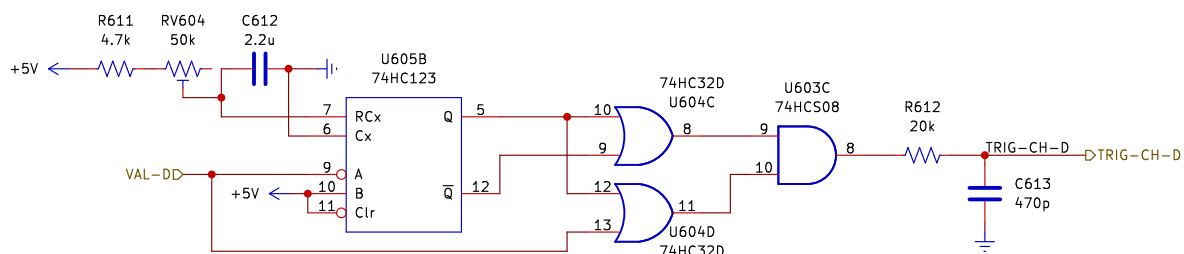
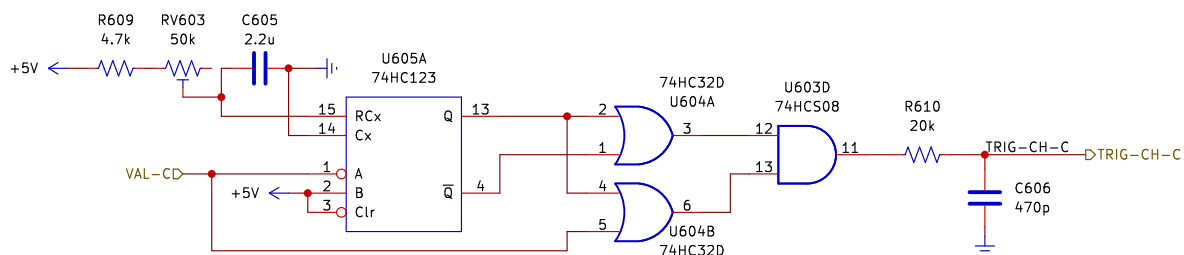
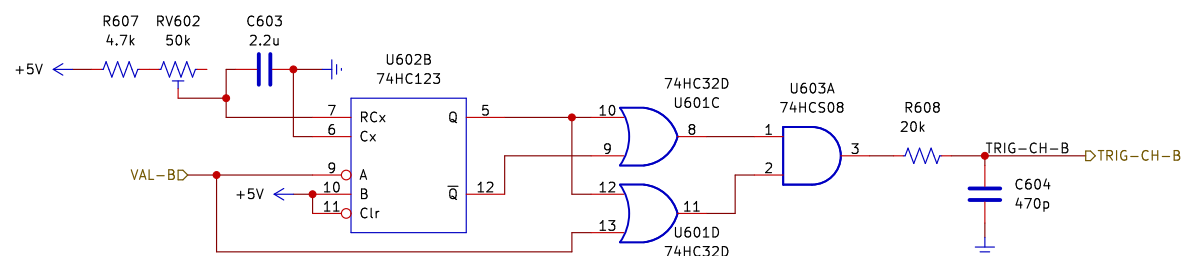
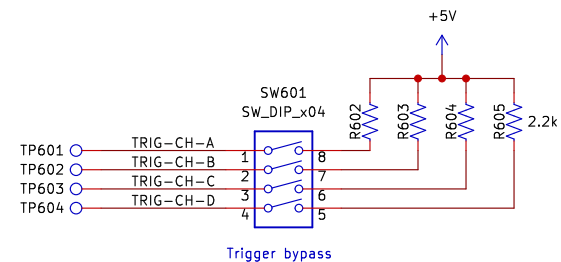
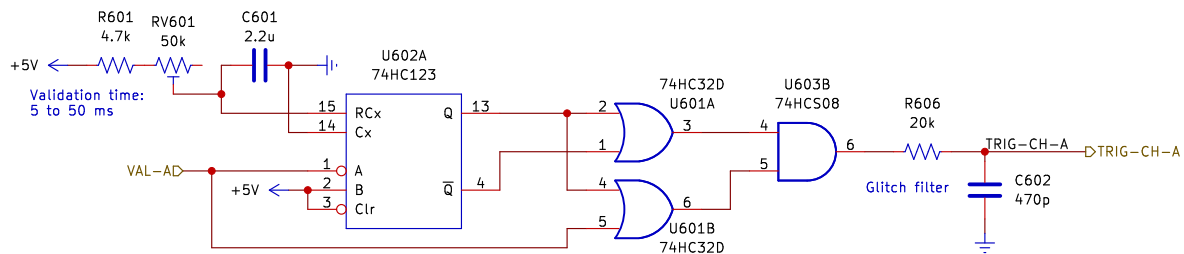
Size: A4	Date:
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Date:

Rev: v1.0.0

Size: 11	Date:
KiCad E.D.A. kicad (6.0.11)	

# Detection validation



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

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Sheet: /Detection validation/

File: detection-validation.kicad\_sch

**Title: Detection Validation Circuits**

Size: A4

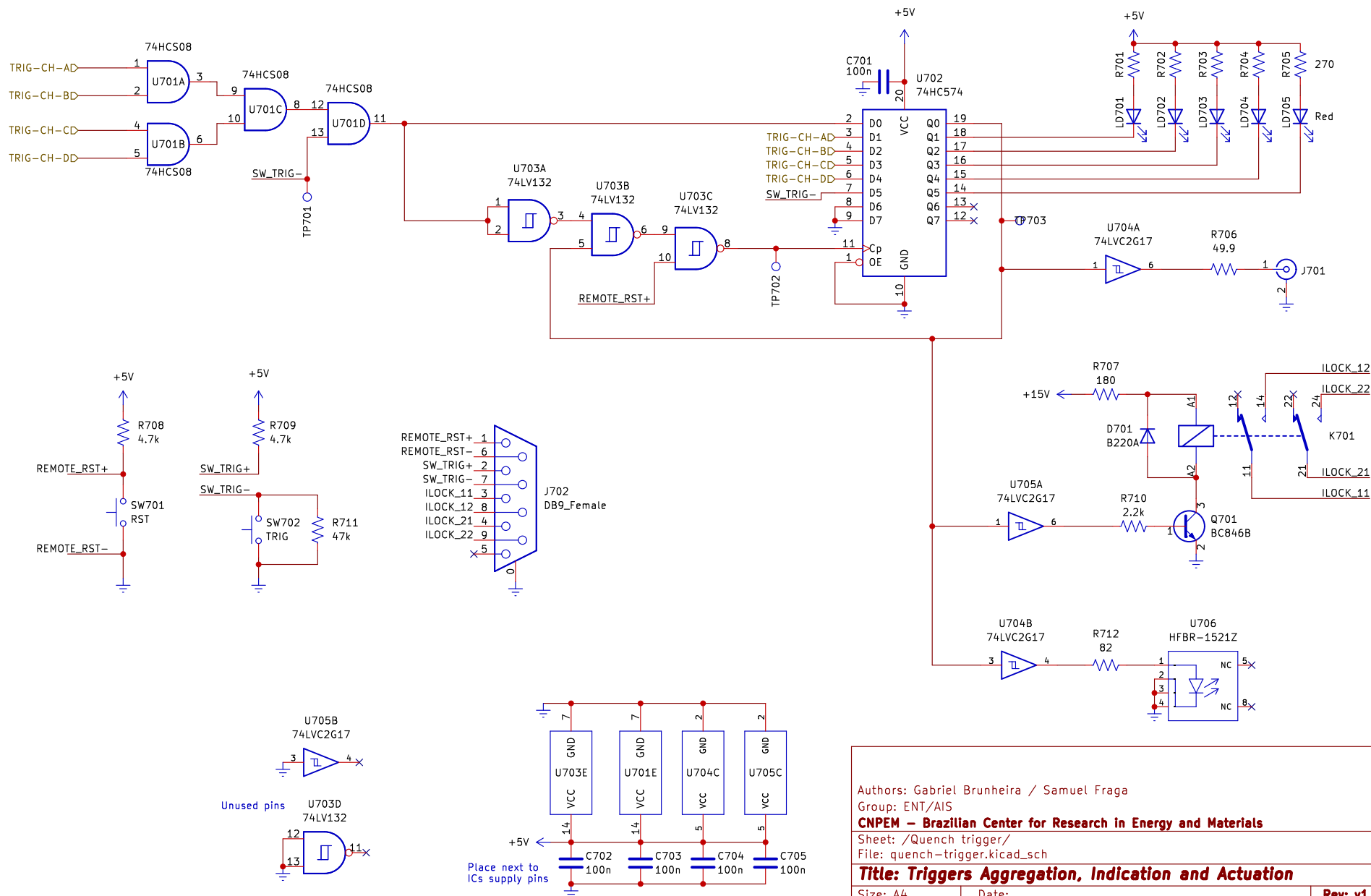
Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v1.0.0**

Id: 6/9

# Triggers aggregation, indication and actuation



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

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Sheet: /Quench trigger/

File: quench-trigger.kicad\_sch

**Title: Triggers Aggregation, Indication and Actuation**

Size: A4

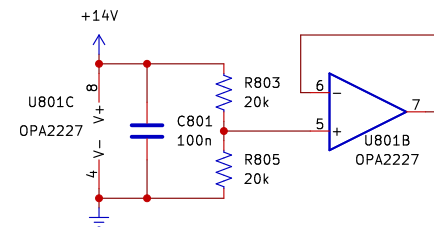
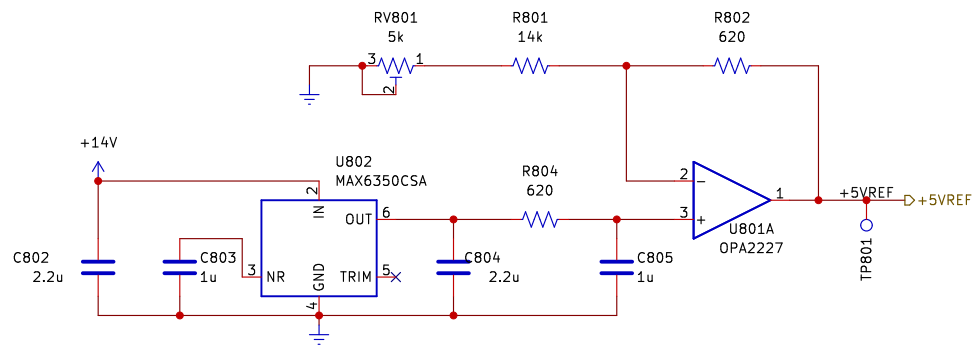
Date:

KiCad E.D.A. kicad (6.0.11)

Rev: v1.0.0

Id: 7/9

# +5V reference circuit



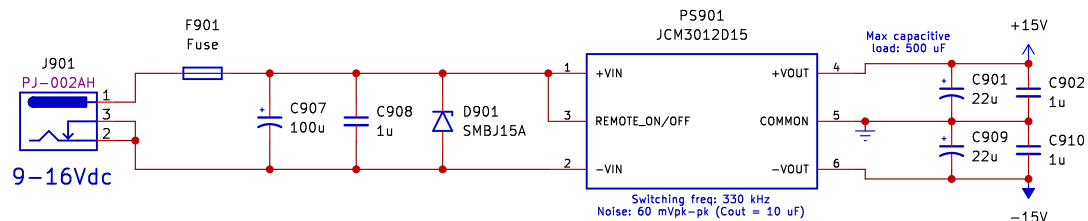
Authors: Gabriel Brunheira / Samuel Fraga  
Group: ENT/AIS  
**CNPEN – Brazilian Center for Research in Energy and Materials**  
Sheet: /+5V reference/  
File: 5v-reference.kicad\_sch

<b>Title:</b>		
Size: A4	Date:	<b>Rev: v1.0.0</b>
KiCad E.D.A. kicad (6.0.11)		Id: 8/9

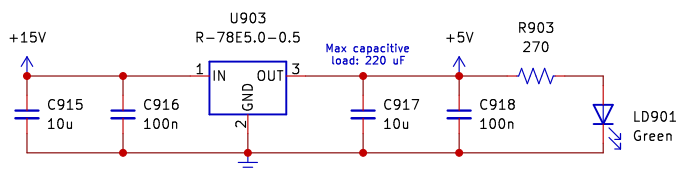


# Power supplies

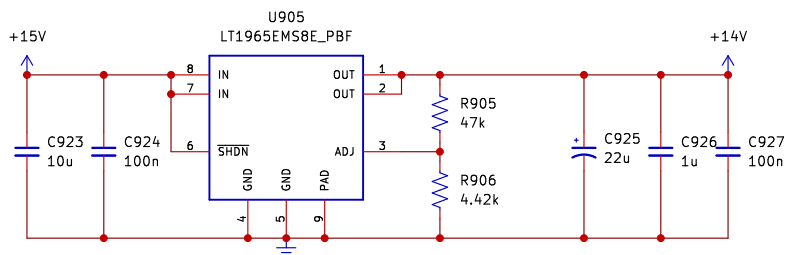
## ±15V main isolated DC-DC converter



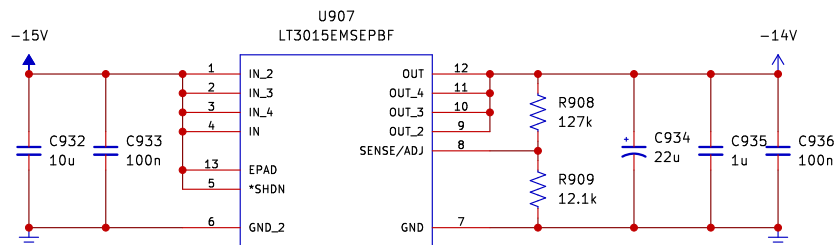
## +5V DC-DC converter



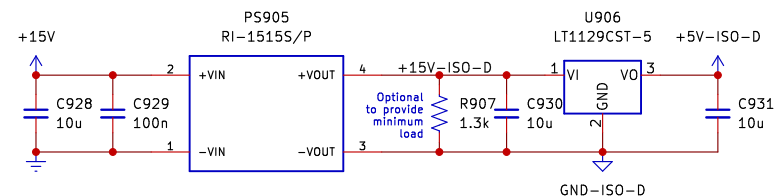
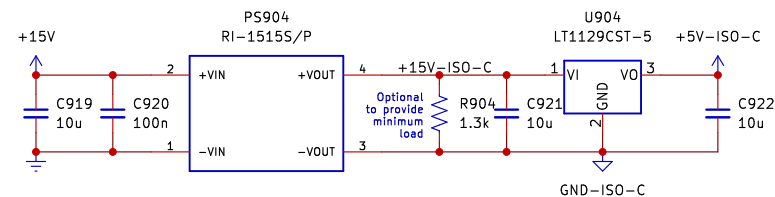
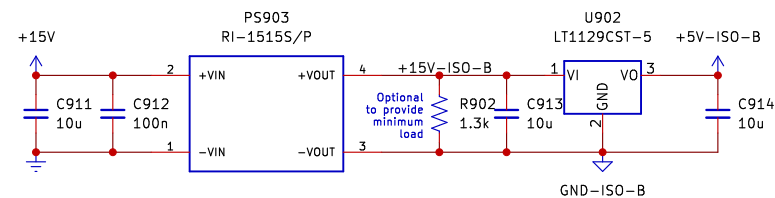
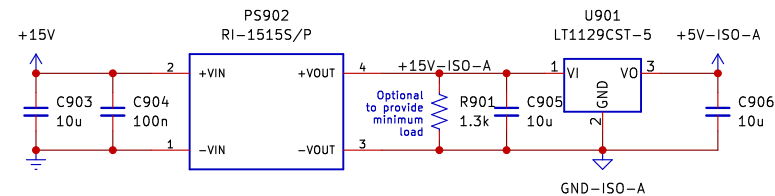
## +14V linear regulator



## -14V linear regulator



## Isolated power supplies



Authors: Gabriel Brunheira / Samuel Fraga

Group: ENT/AIS

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Sheet: /Power supplies/

File: power-supplies.kicad\_sch

**Title: Power Supplies**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.11)

**Rev: v1.0.0**

Id: 9/9