

Sheet: /Power Supply/  
File: power\_supply\_module.kicad\_sch

**Title:**

Size: A4

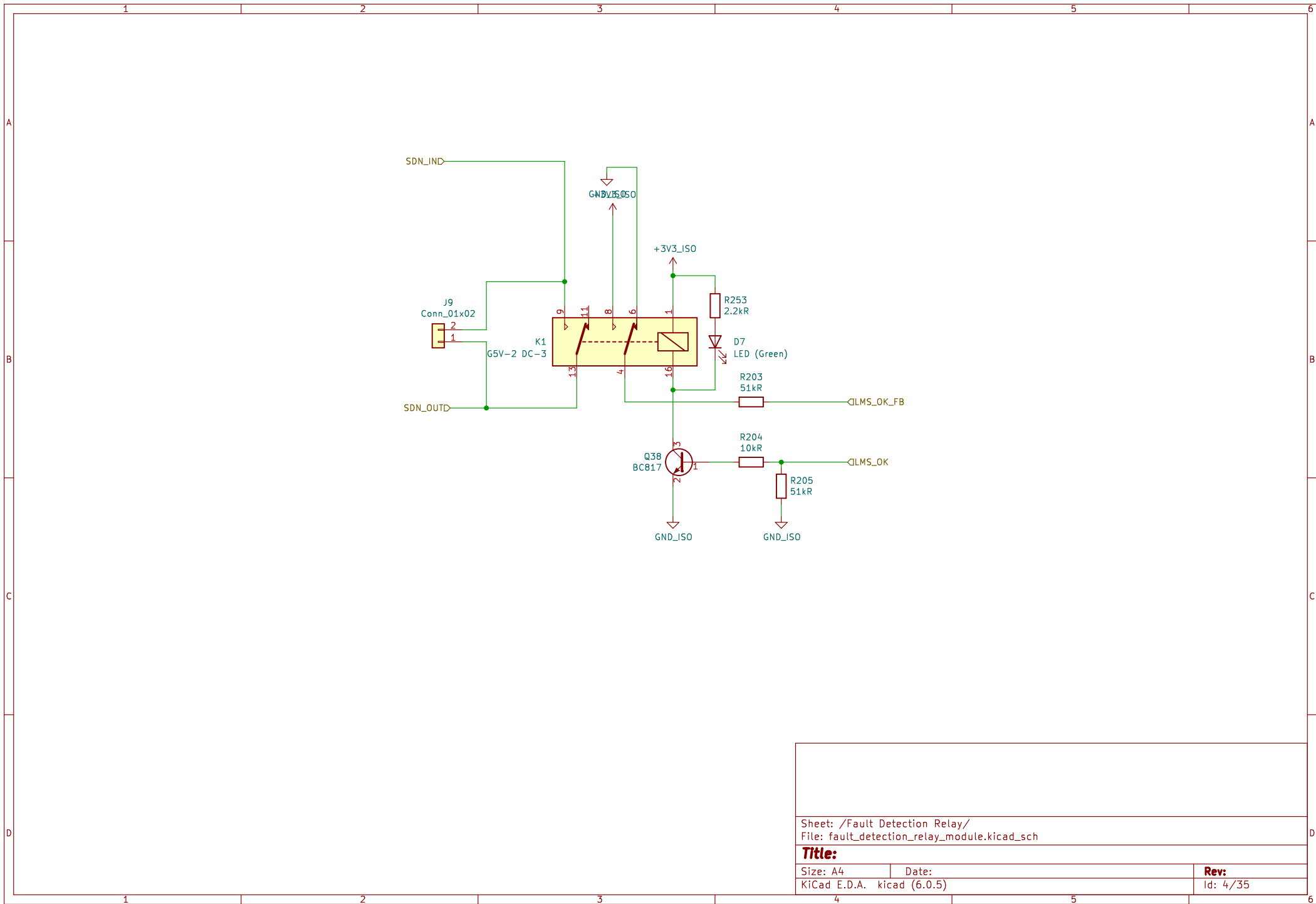
Date:

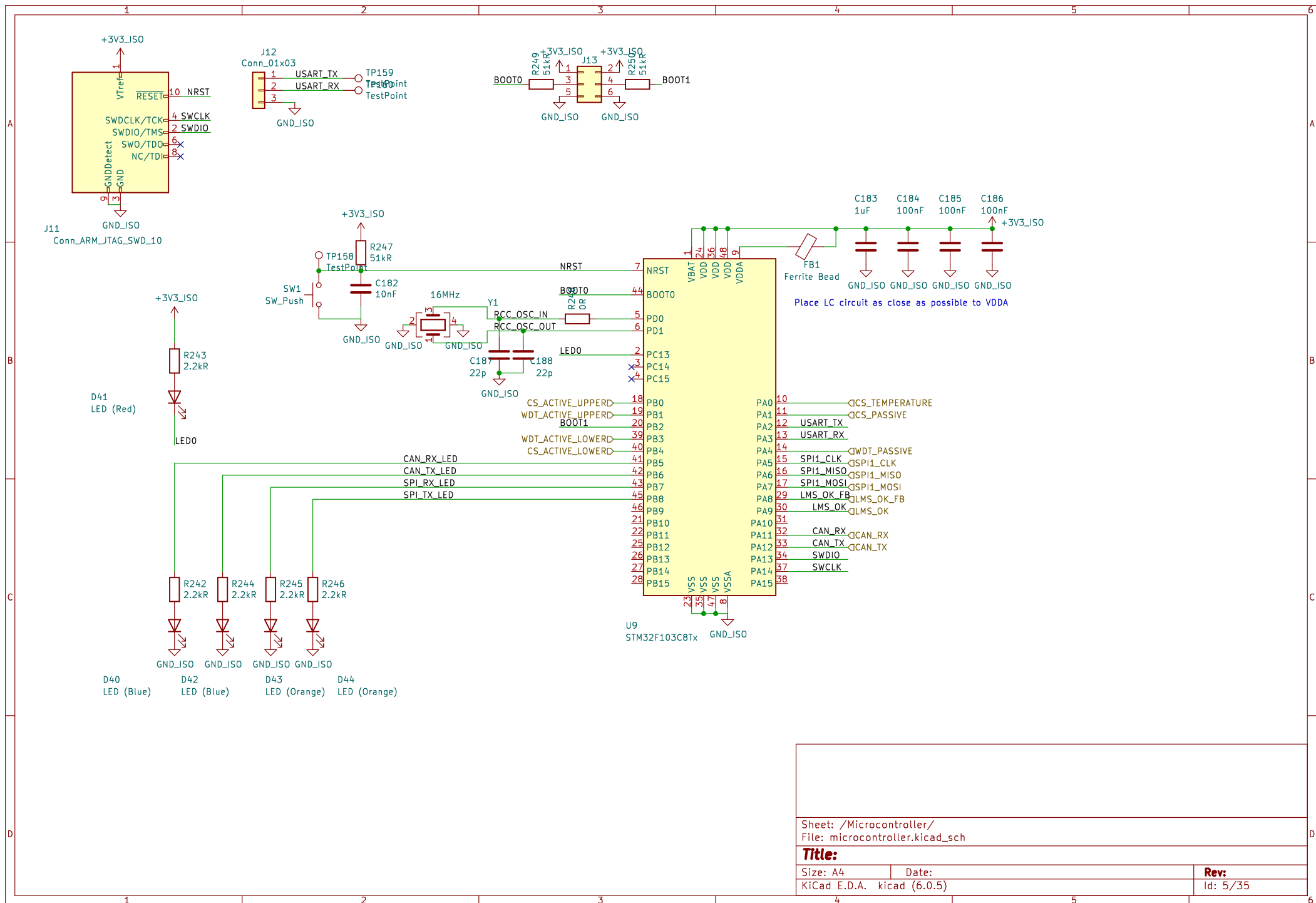
KiCad E.D.A. kicad (6.0.5)

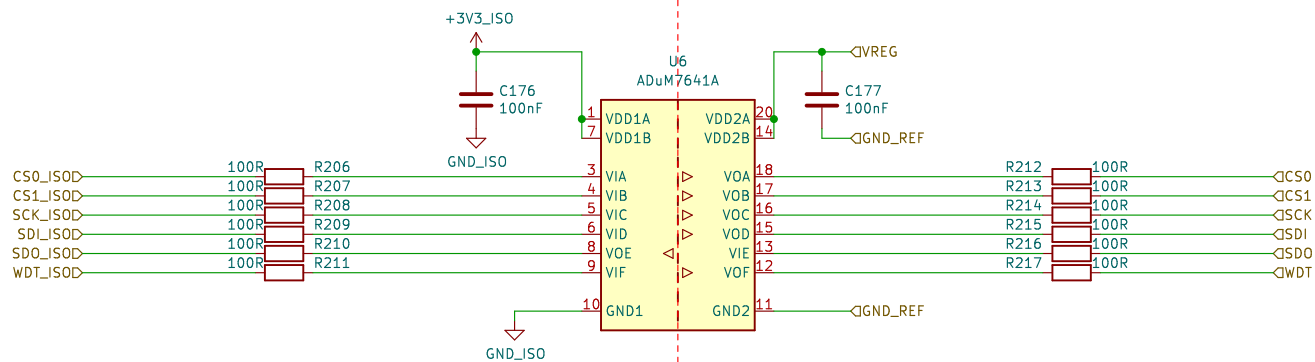
**Rev:**

Id: 2/35









Sheet: /Temperature Isolation/  
File: digital\_isolation\_module.kicad\_sch

**Title:**

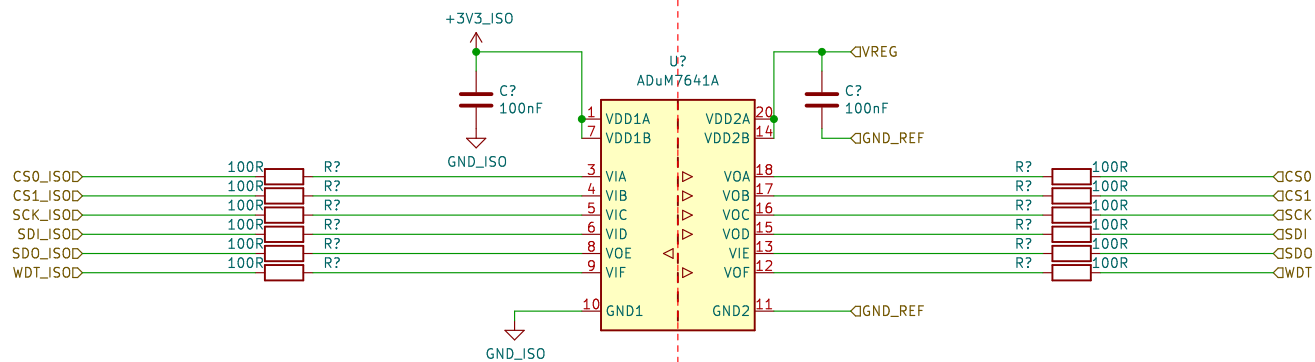
Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

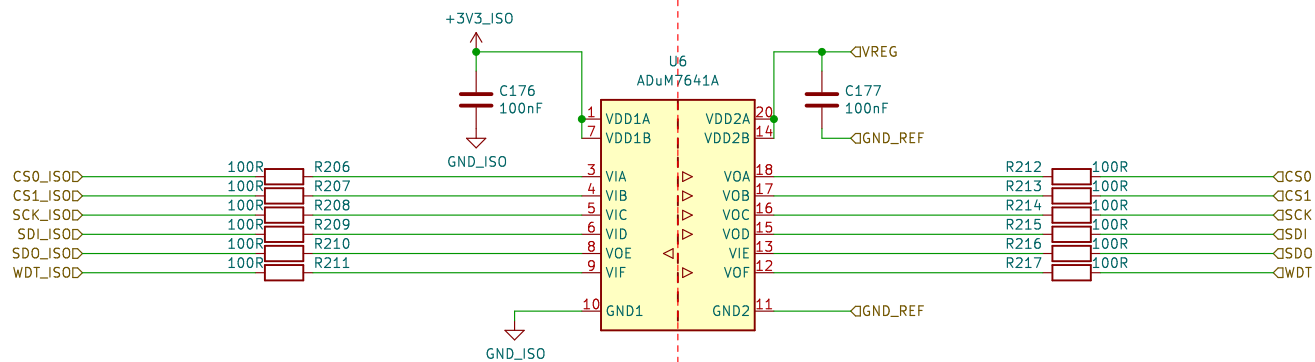
Id: 6/35



Sheet: /Upper Ground Iso/  
File: digital\_isolation\_module.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.5)		Id: 7/35



Sheet: /Lower Ground Isolation/  
File: digital\_isolation\_module.kicad\_sch

**Title:**

Size: A4

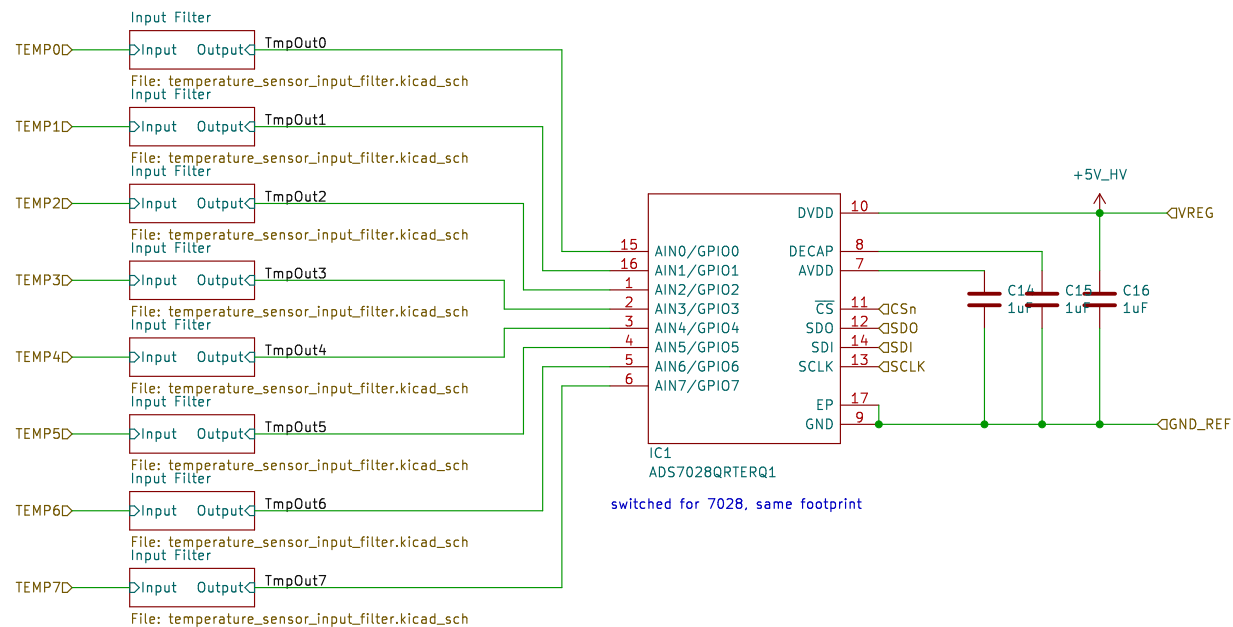
Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

Id: 8/35





<https://www.instructables.com/Arduino-LTC6804-Battery-Management-System/>

Sheet: /Temperature Sensor/  
File: temperature\_sensor\_module.kicad\_sch

**Title:**

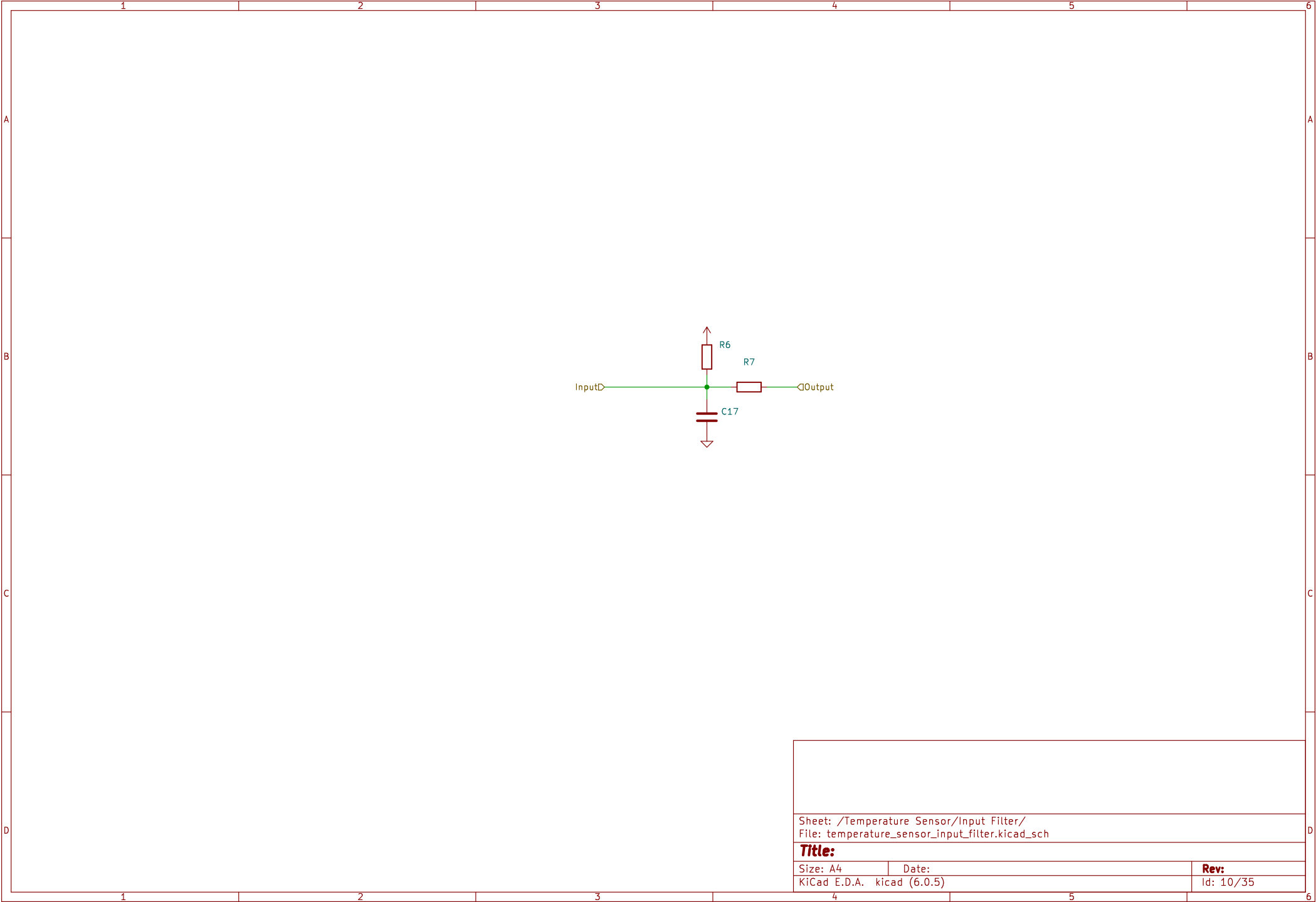
Size: A4

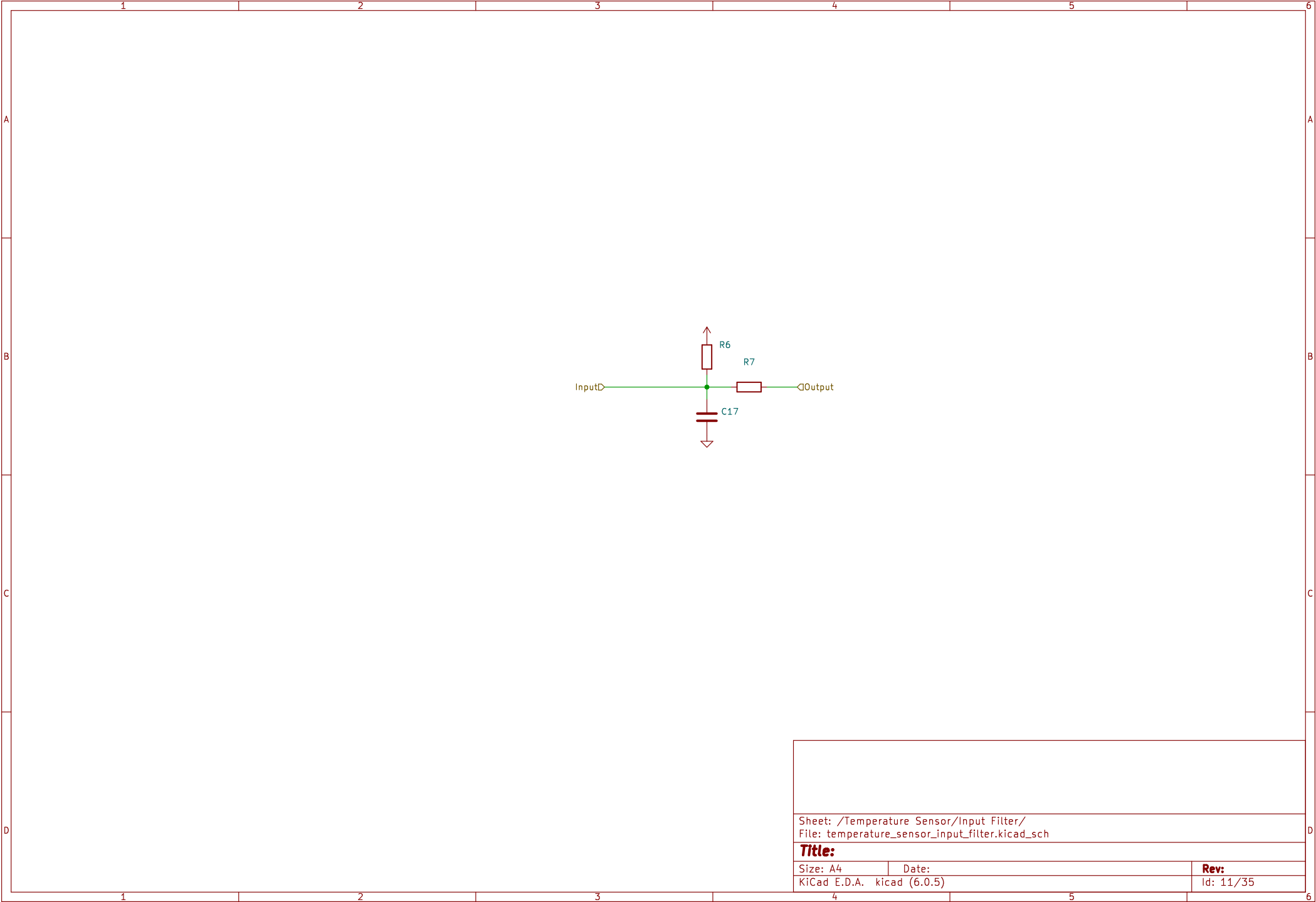
Date:

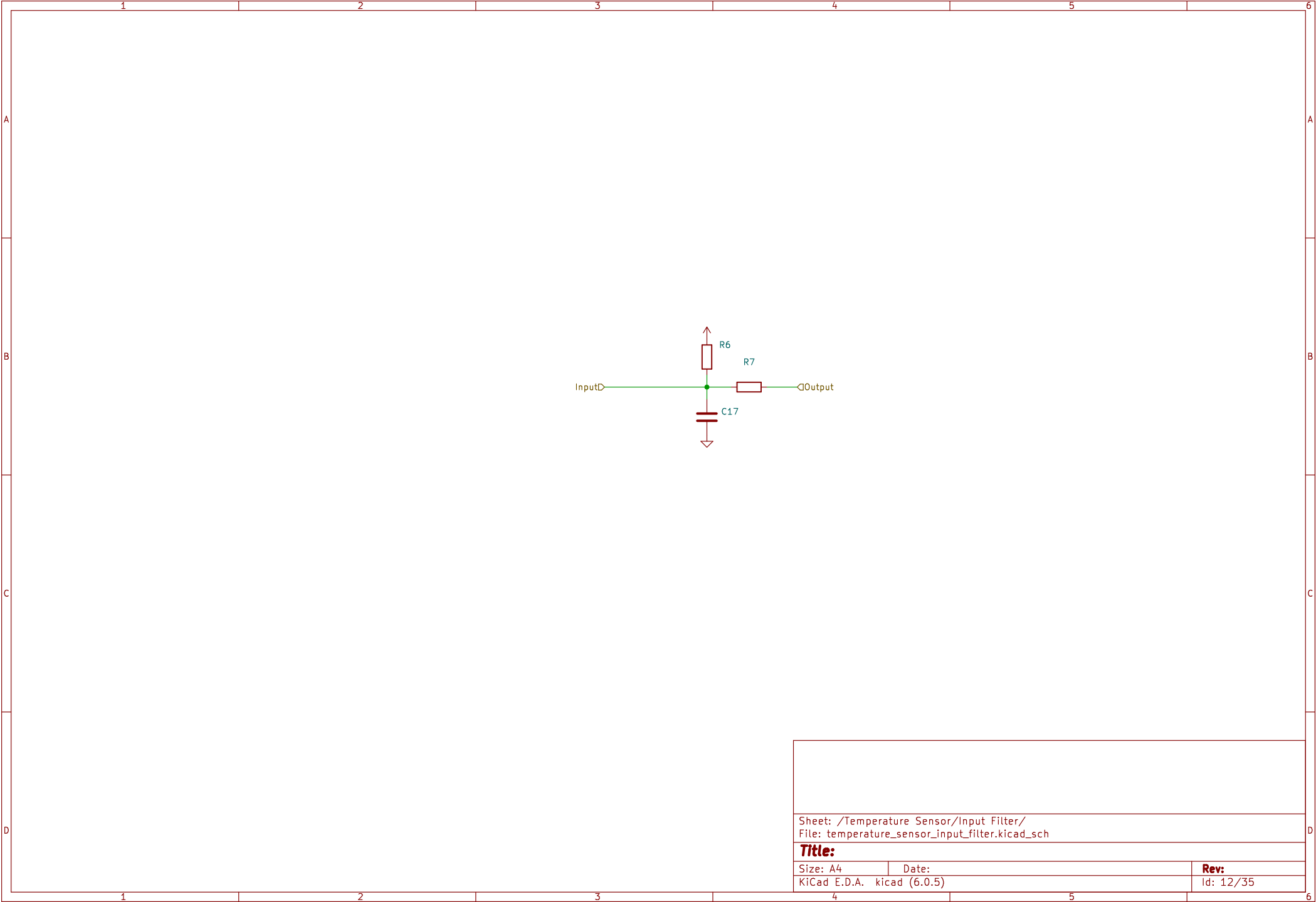
KiCad E.D.A. kicad (6.0.5)

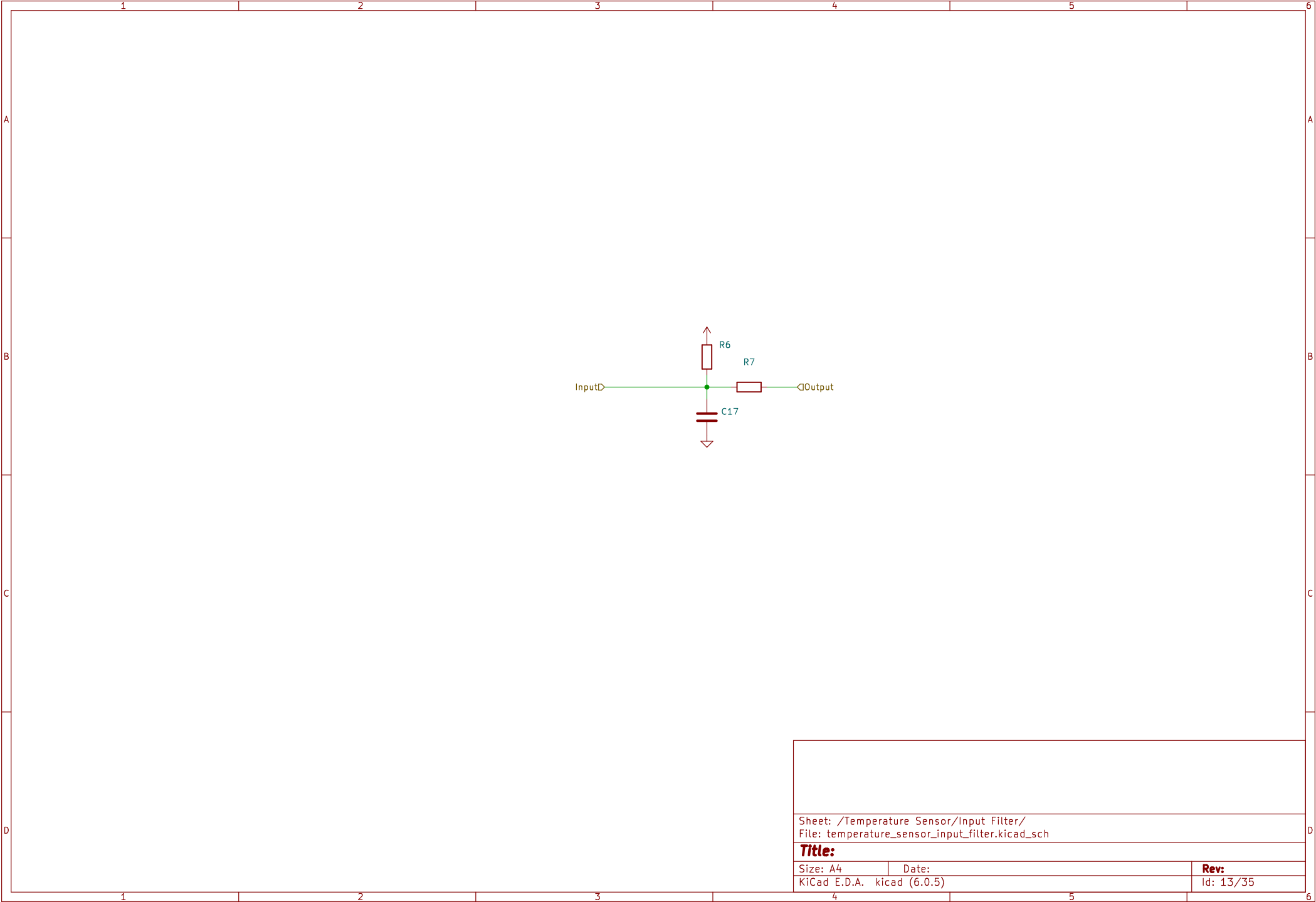
**Rev:**

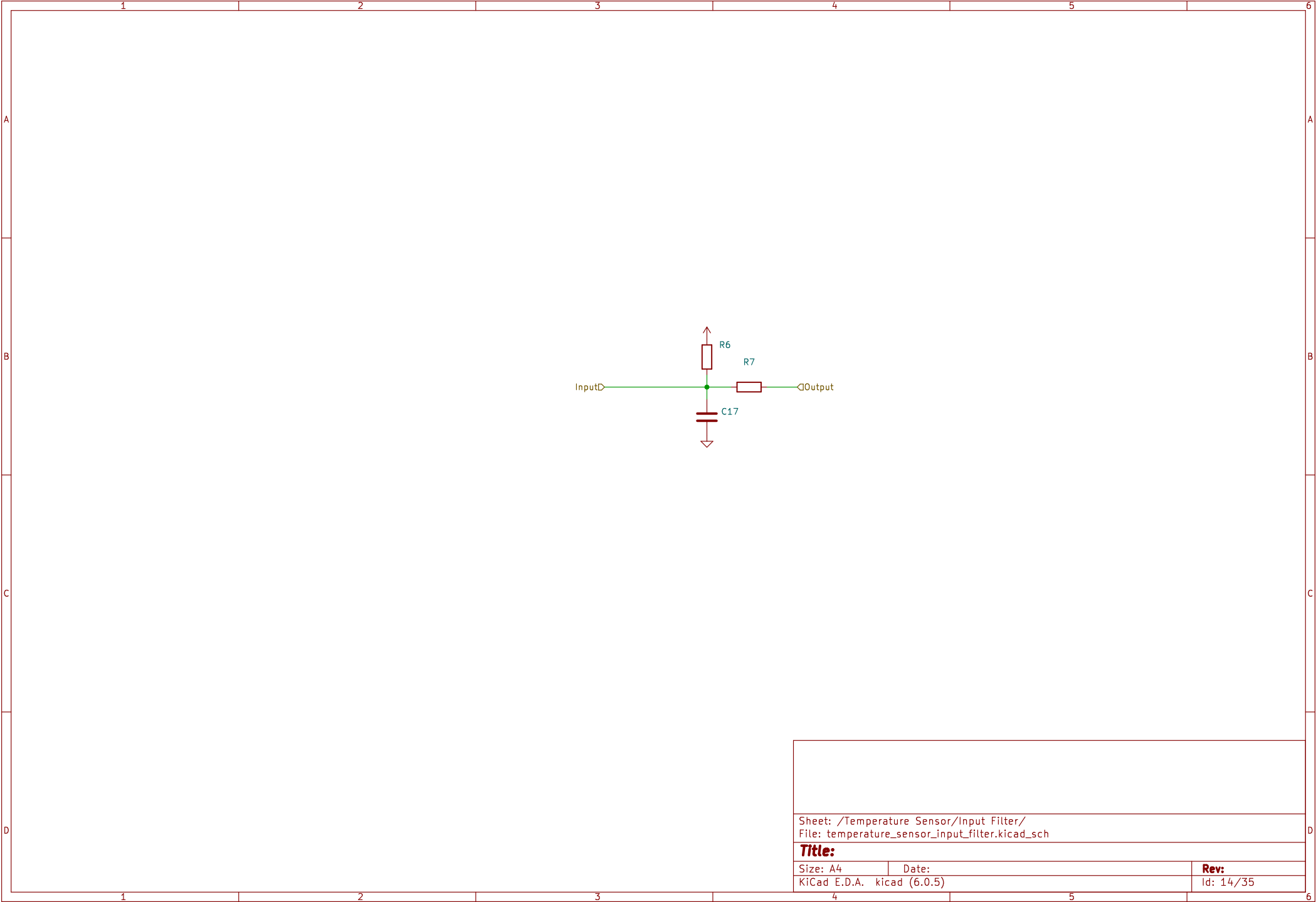
Id: 9/35

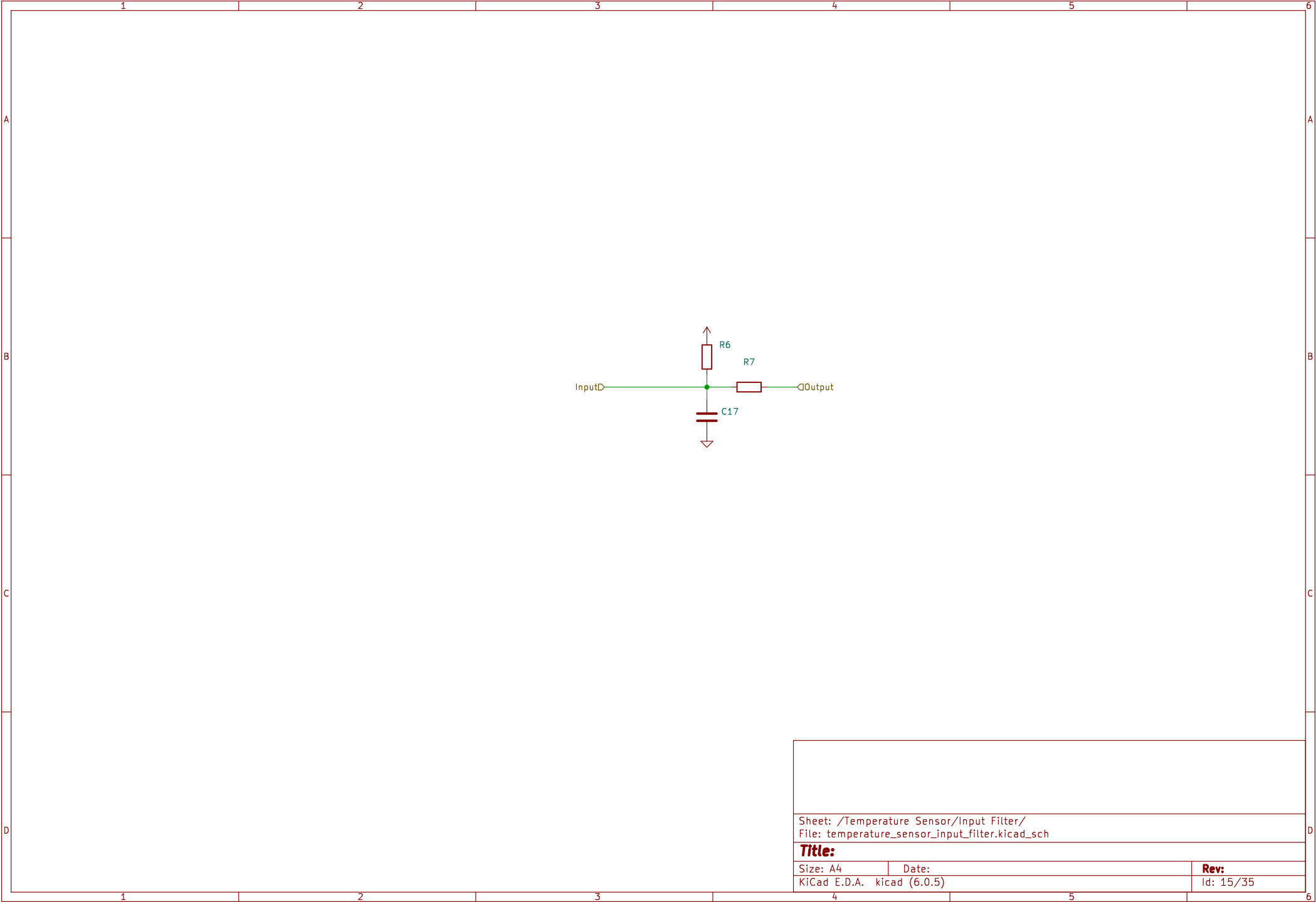


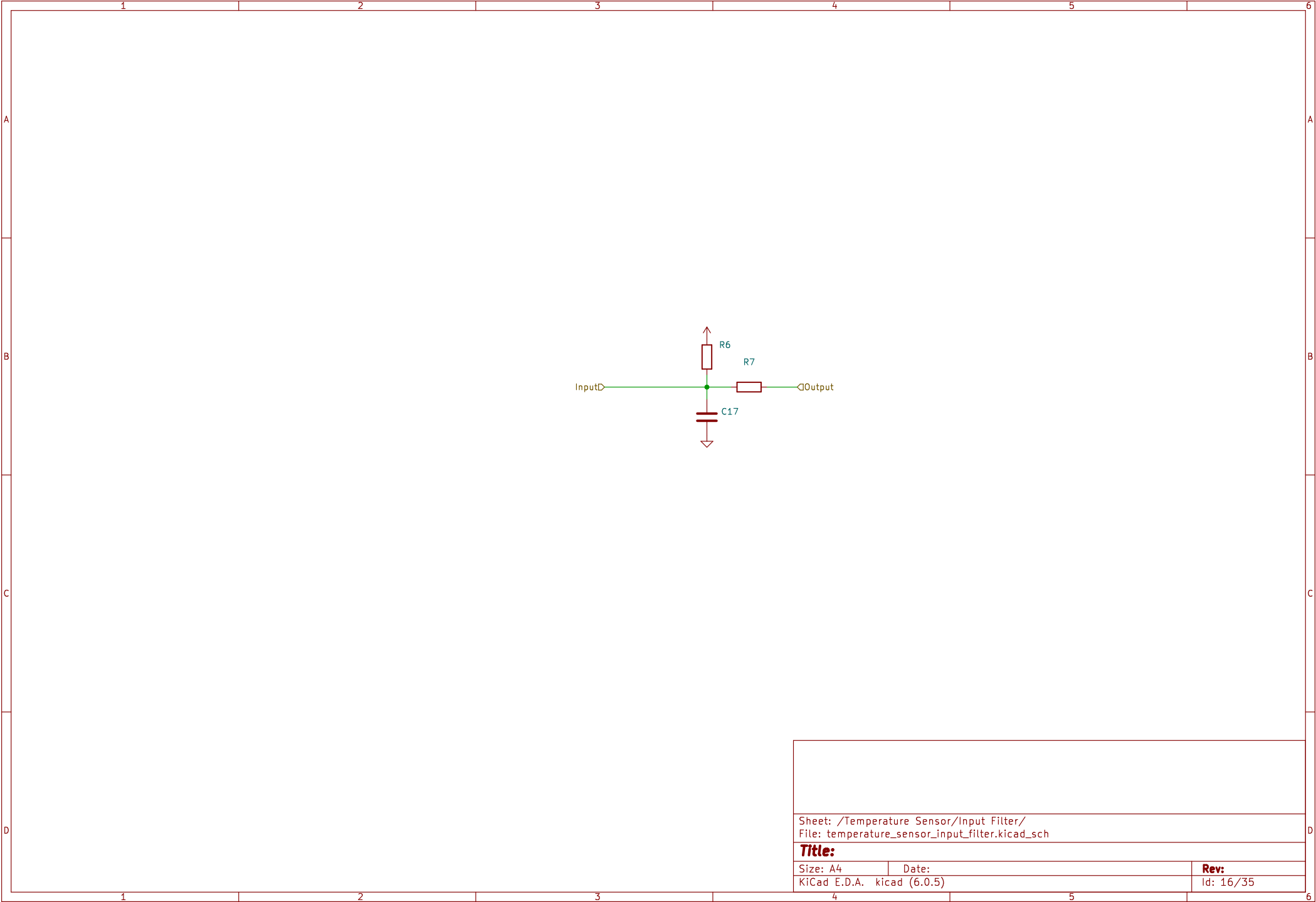




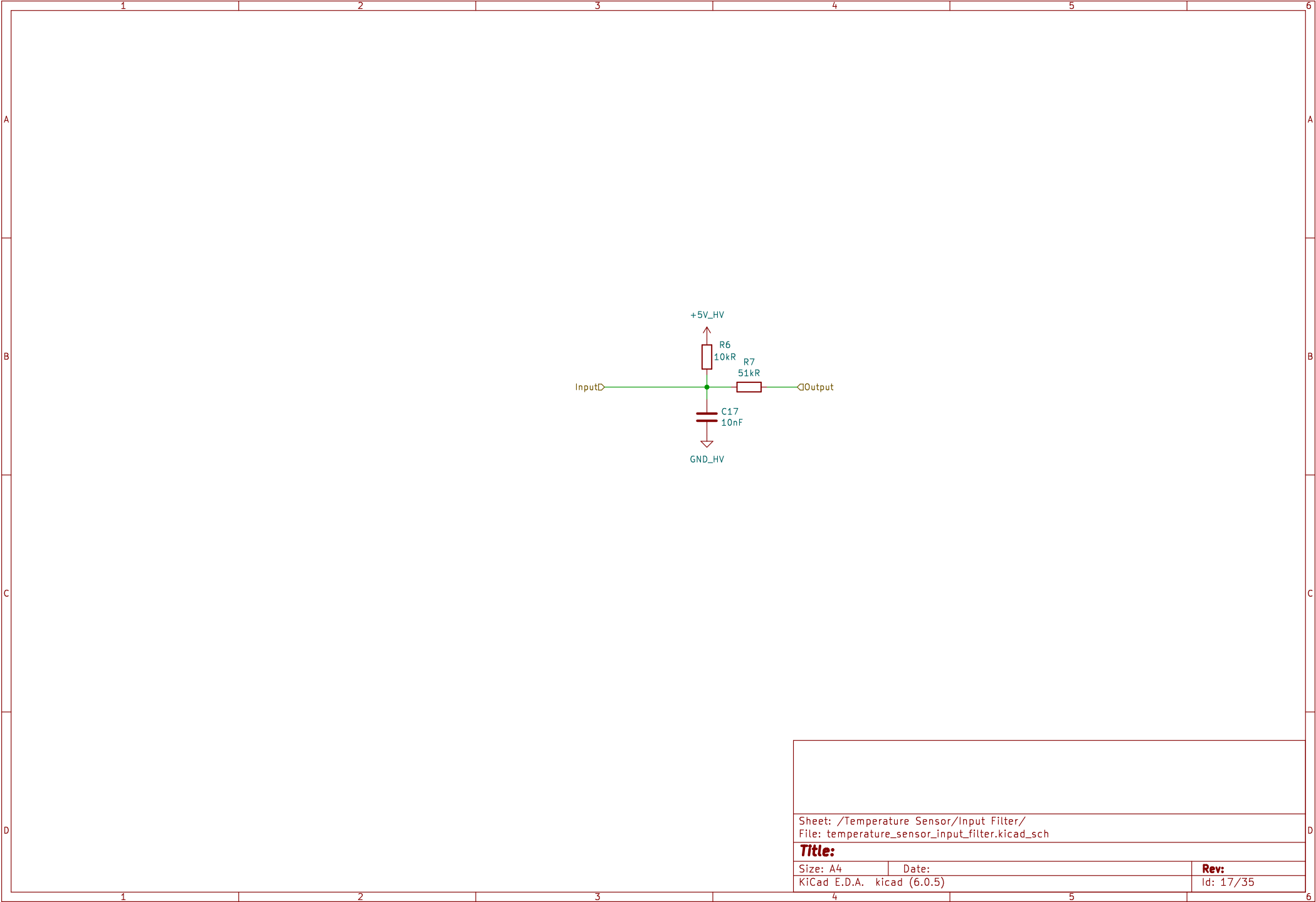




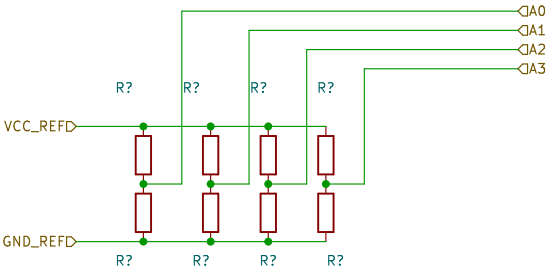












Sheet: /Balance Interface/UPPER\_ADDRESS/  
File: address\_selection\_module.kicad\_sch

**Title:**

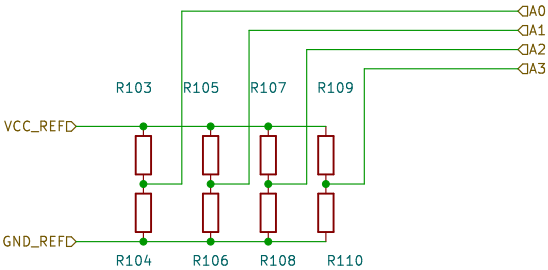
Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

Id: 19/35



Sheet: /Balance Interface/LOWER\_ADDRESS/  
File: address\_selection\_module.kicad\_sch

**Title:**

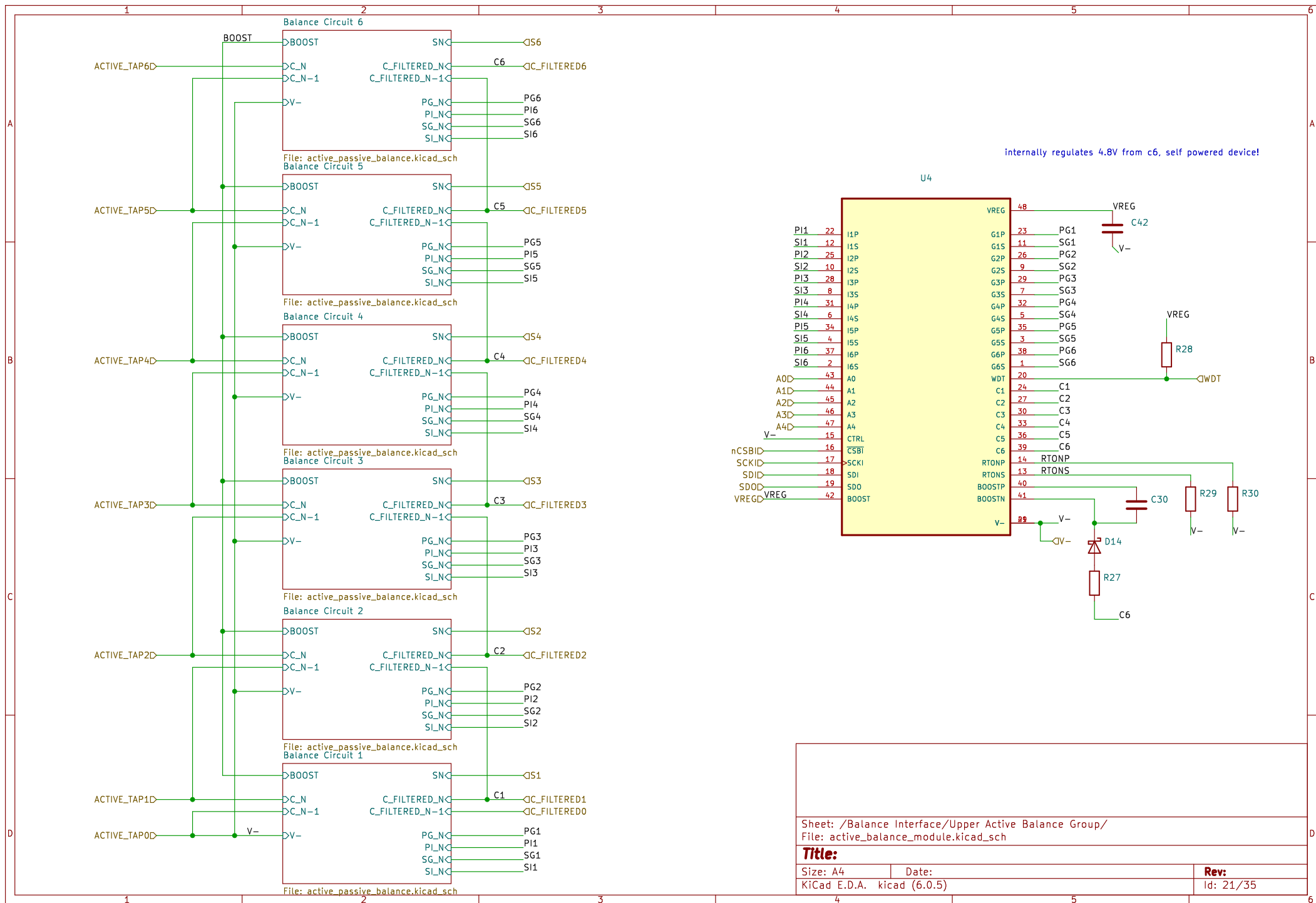
Size: A4

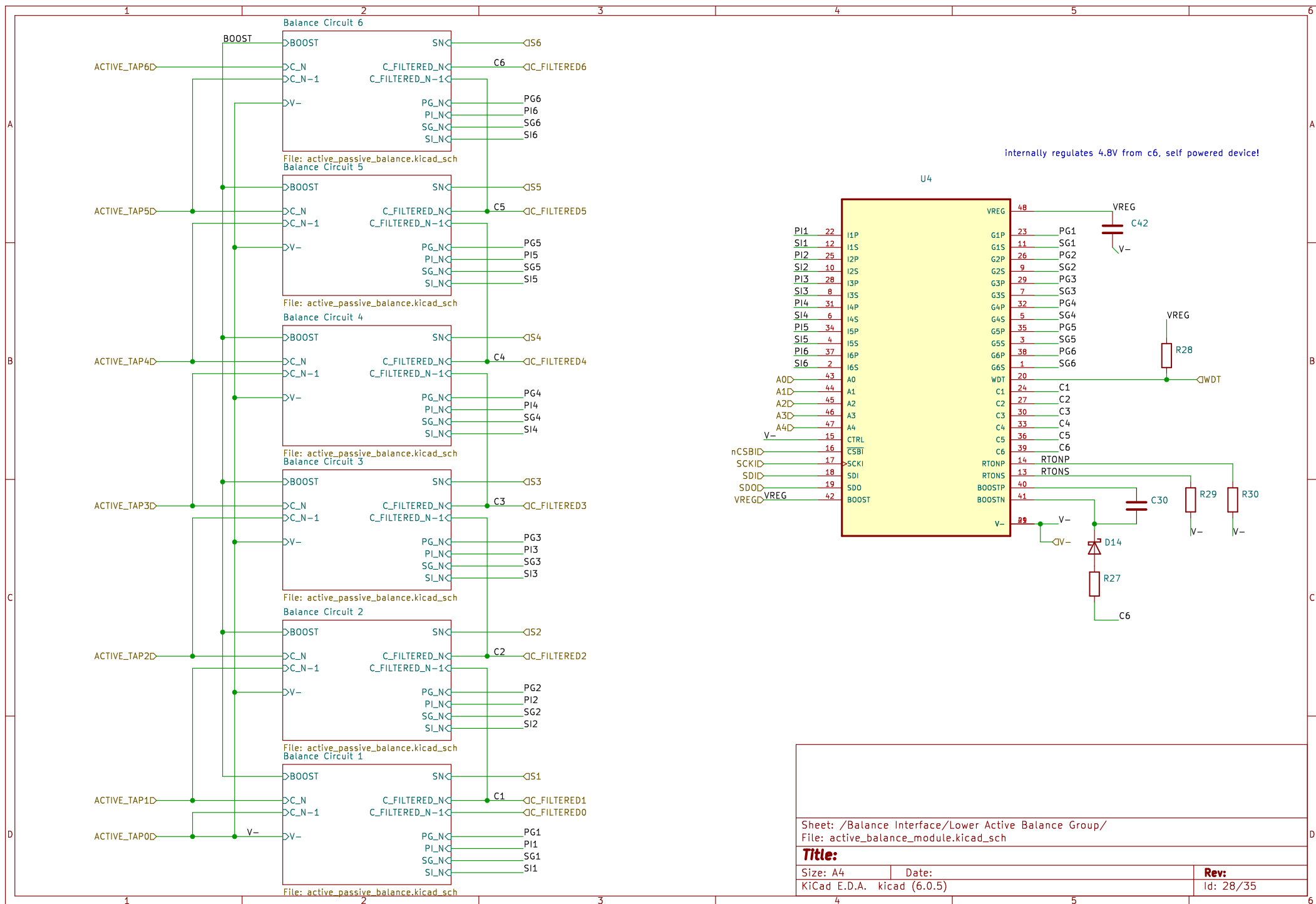
Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

Id: 20/35

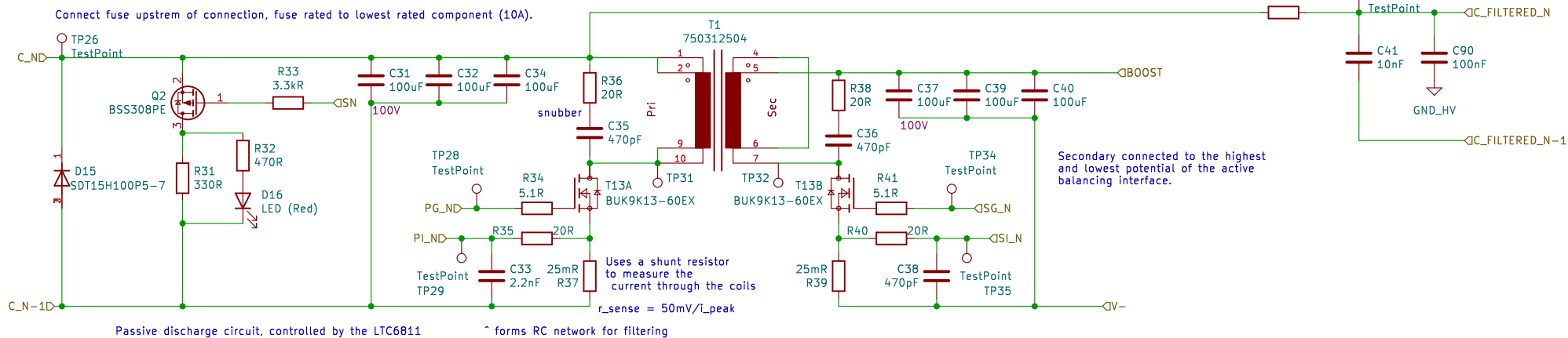




can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 6/  
File: active\_passive\_balance.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

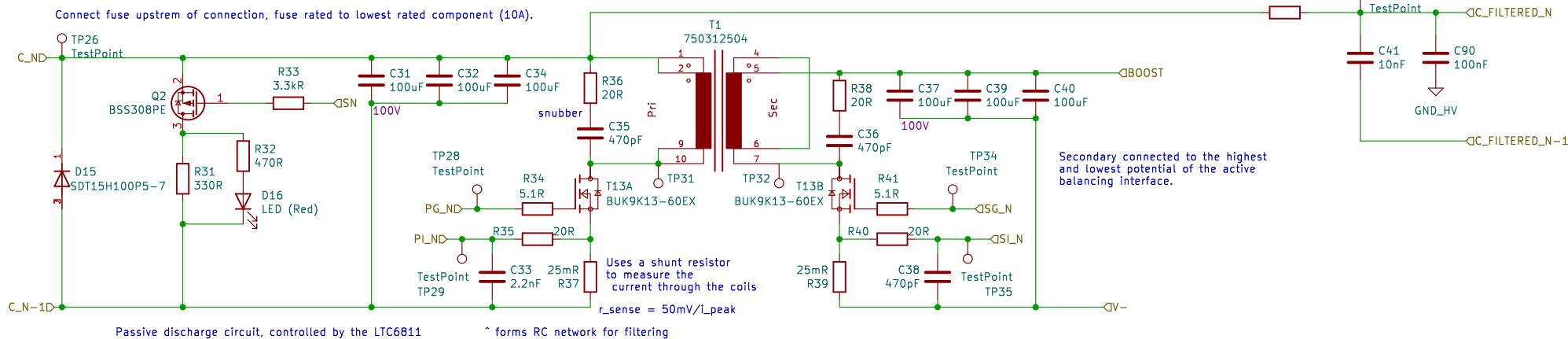
**Rev:**

Id: 29/35

can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 5/  
File: active\_passive\_balance.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

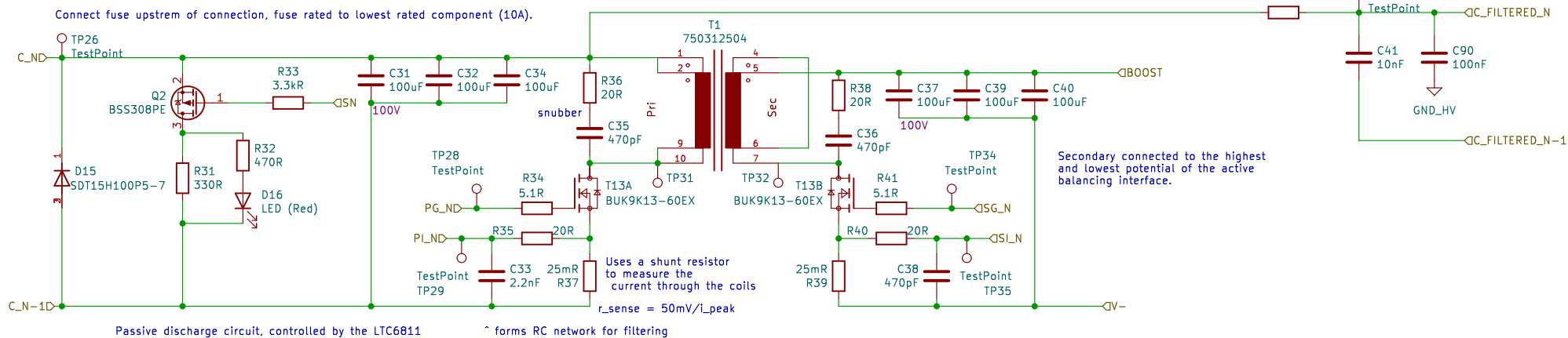
Id: 30/35



can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 4/  
File: active\_passive\_balance.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

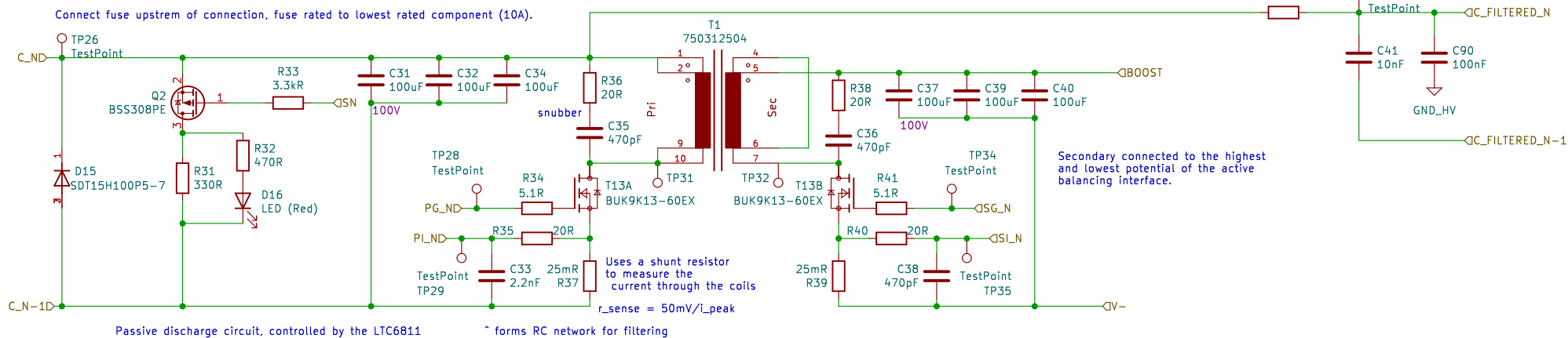
**Rev:**

Id: 31/35

can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 3/  
File: active\_passive\_balance.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

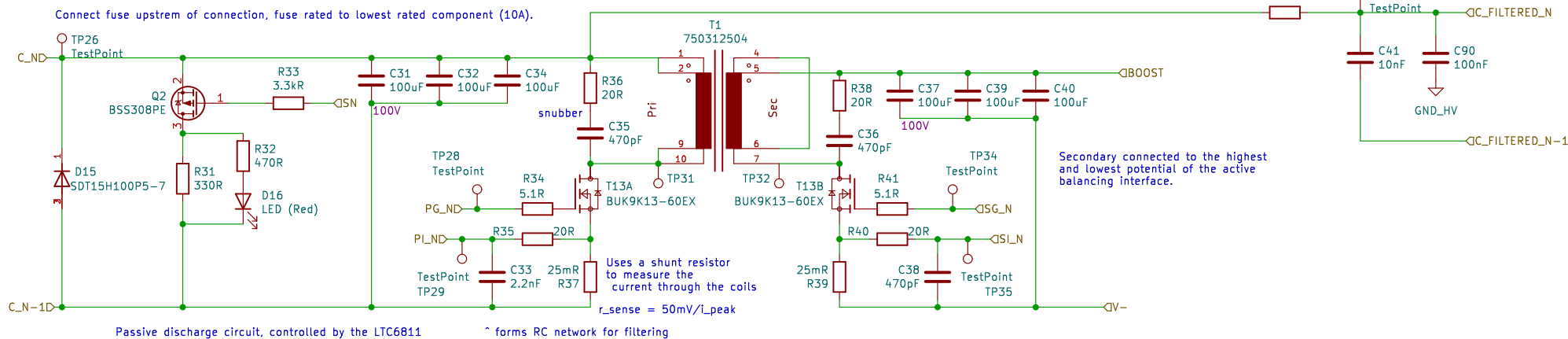
**Rev:**

Id: 32/35

can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 2/  
File: active\_passive\_balance.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

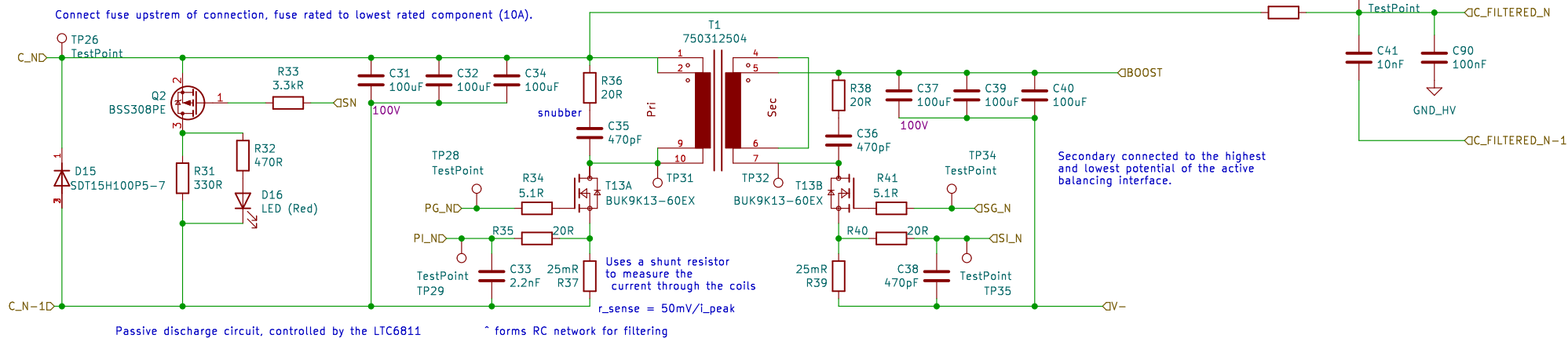
**Rev:**

Id: 33/35

can maybe substitute for BUK9K13-60EX  
order inductor from digikey  
or AOD66920

The coil is configured to act as a 2:1 coil.  
Can move 10A if required.

Uses simple RC low pass filter to remove noise.



Sheet: /Balance Interface/Lower Active Balance Group/Balance Circuit 1/  
File: active\_passive\_balance.kicad\_sch

**Title:**

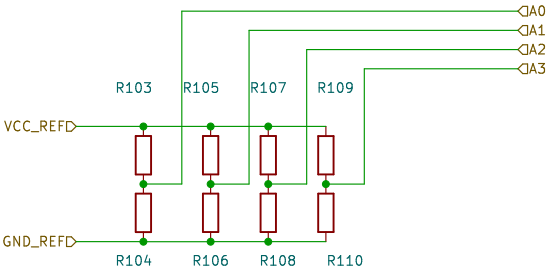
Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

Id: 34/35



Sheet: /Balance Interface/PASSIVE\_ADDRESS/  
File: address\_selection\_module.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.5)

**Rev:**

Id: 35/35

