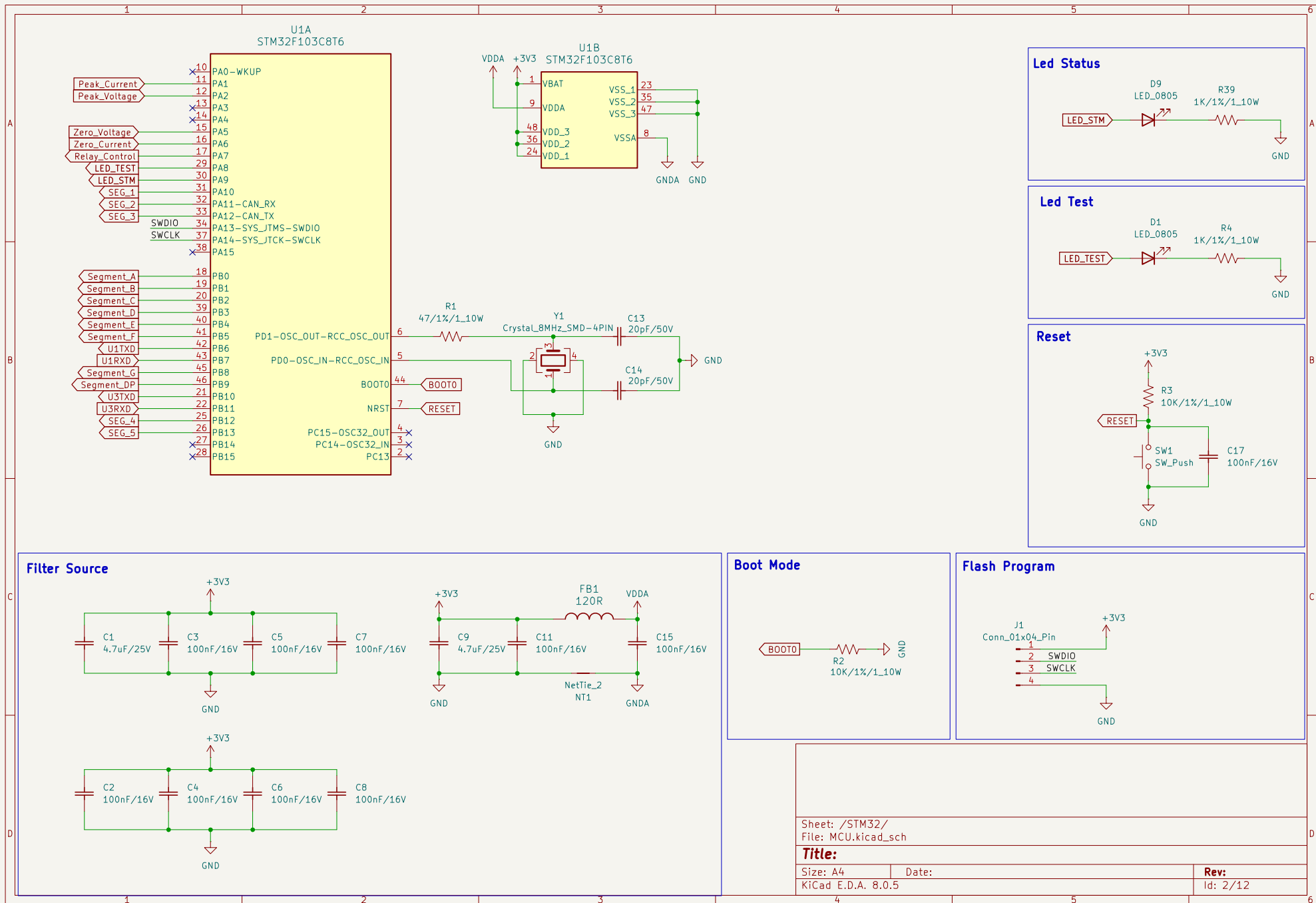
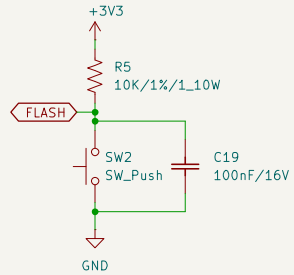


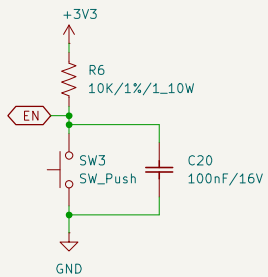
1	2	3	4	5	6
A					
B	<div>STM32</div> <div>File: MCU.kicad_sch</div>	<div>ESP32</div> <div>File: ESP32.kicad_sch</div>	<div>Current_Measurement</div> <div>File: Current_Measurement.kicad_sch</div>	<div>Voltage_Measurement</div> <div>File: Voltage_Measurement.kicad_sch</div>	
C	<div>Peak_Detector</div> <div>File: Peak_Detector.kicad_sch</div>	<div>Zero_Crossing_Detection</div> <div>File: Zero_Crossing_Detection.kicad_sch</div>	<div>RTC</div> <div>File: RTC.kicad_sch</div>	<div>Power_Supply</div> <div>File: Power_Supply.kicad_sch</div>	
D	<div>Connectors</div> <div>File: Connectors.kicad_sch</div>	<div>Display</div> <div>File: Display.kicad_sch</div>	<div>USB_To_TTL</div> <div>File: USB_To_TTL.kicad_sch</div>	<div></div> <div>Sheet: / File: MEASURE_POWER_AC.kicad_sch</div> <div>Title:</div> <div>Size: A4Date:KiCad E.D.A. 8.0.5</div> <div>Rev:Id: 1/12</div>	
1	2	3	4	5	6



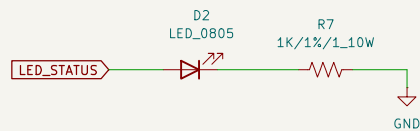
## Flash



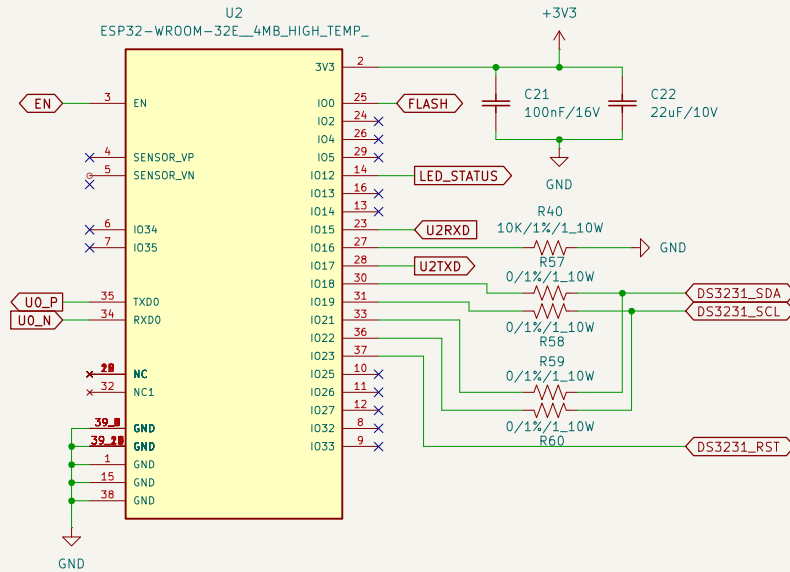
## Enable



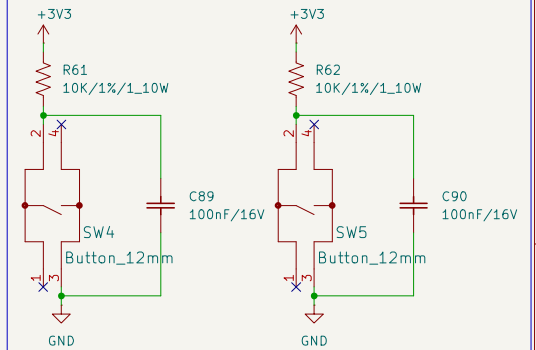
## LED Test



## MCU



## User Button



Sheet: /ESP32/  
File: ESP32.kicad\_sch

### Title:

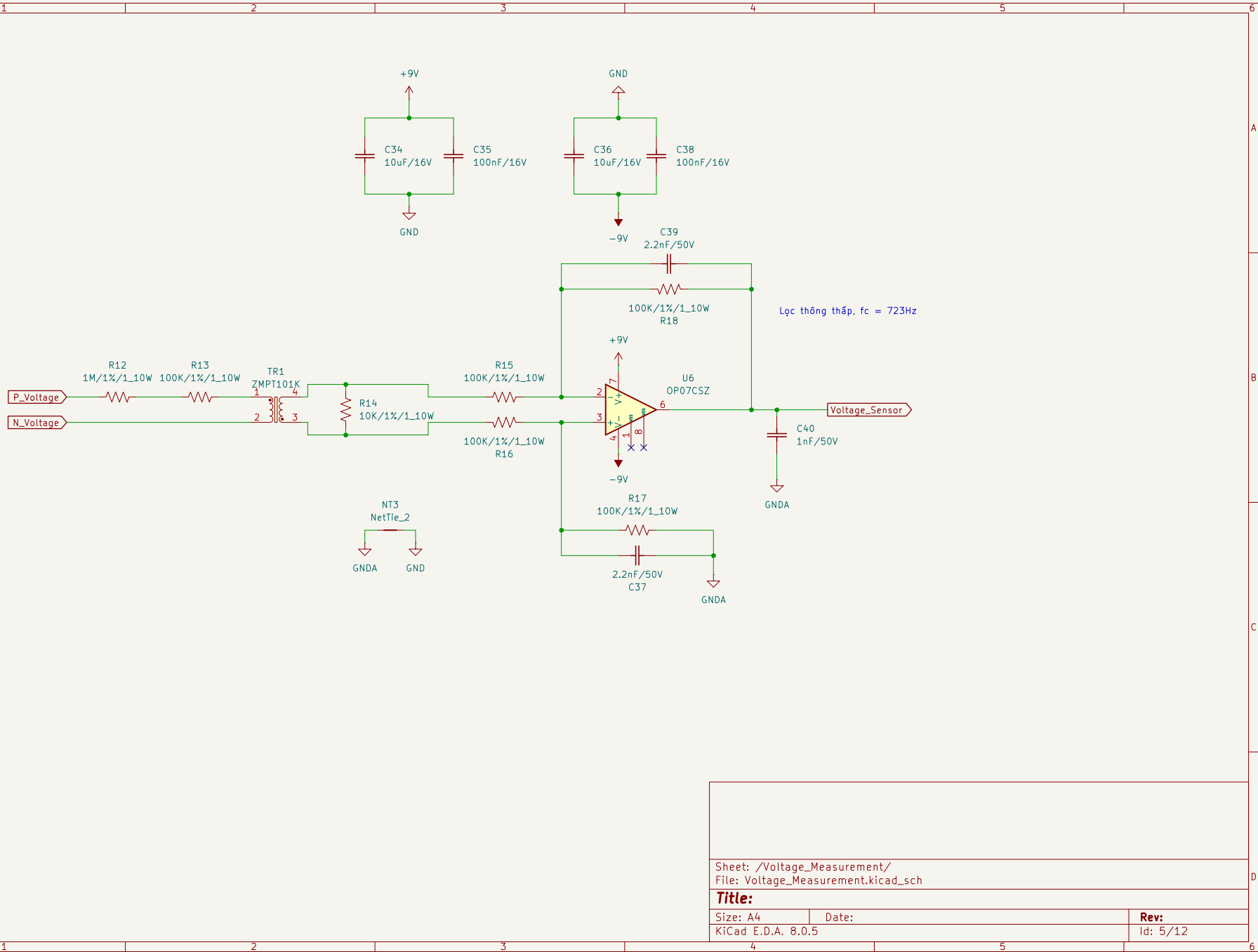
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KiCad E.D.A. 8.0.5

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Sheet: /Voltage\_Measurement/  
File: Voltage\_Measurement.kicad\_sch

**Title:**

Size: A4

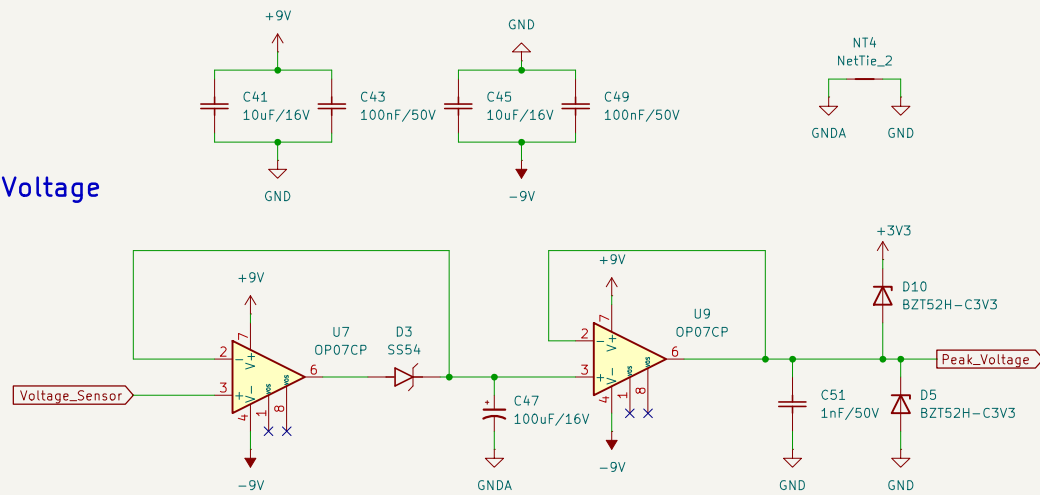
Date:

**Rev:**

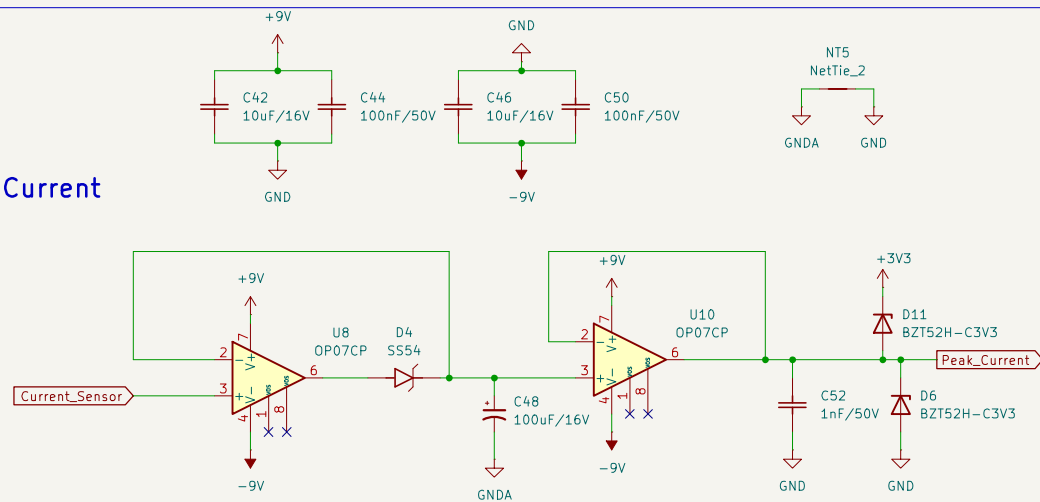
KiCad E.D.A. 8.0.5

Id: 5/12

## Peak Voltage



## Peak Current



Sheet: /Peak\_Detector/  
File: Peak\_Detector.kicad\_sch

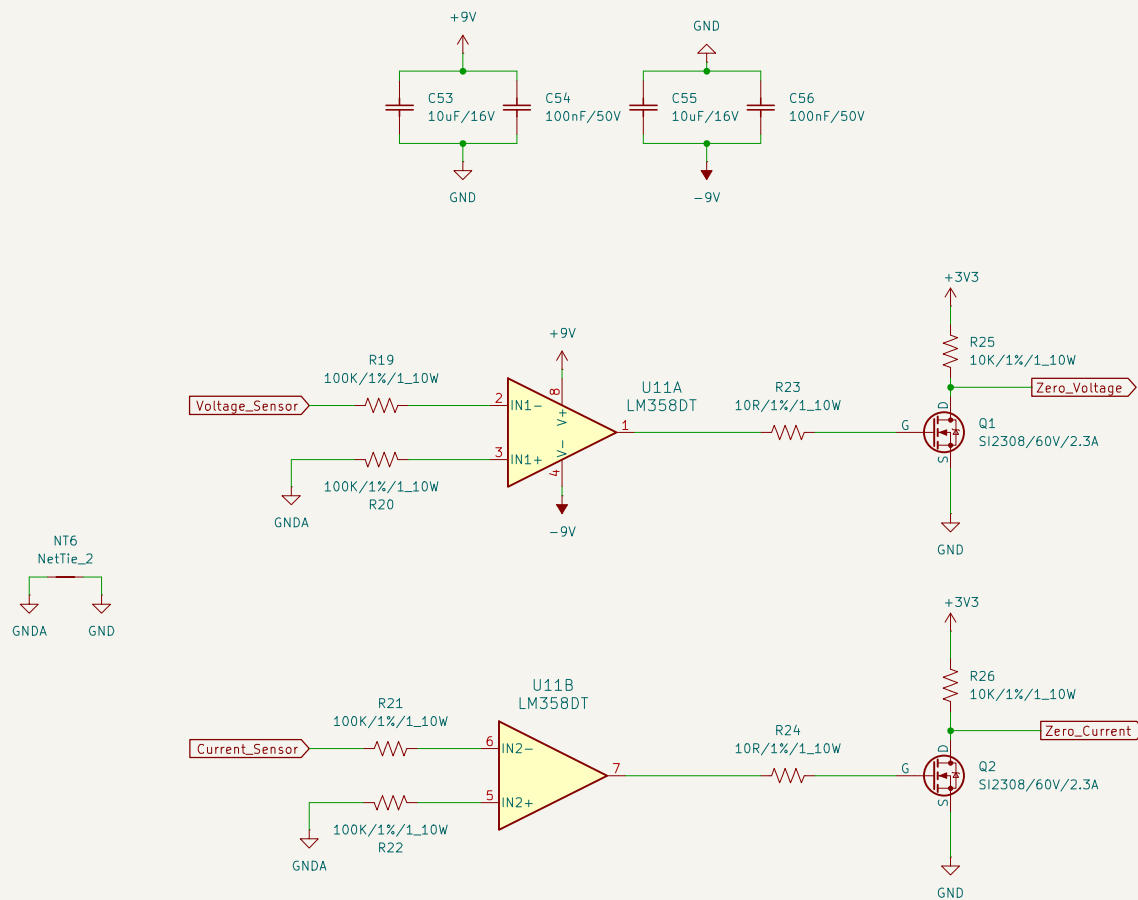
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**Rev:**

Id: 6/12



Sheet: /Zero\_Crossing\_Detection/  
File: Zero\_Crossing\_Detection.kicad\_sch

**Title:**

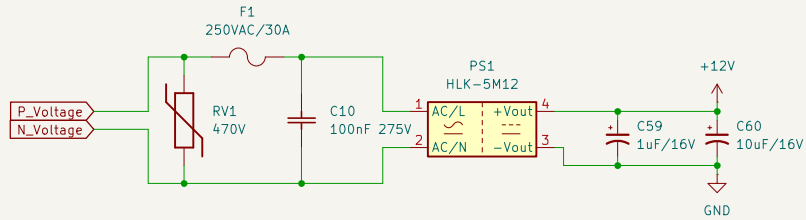
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Date:

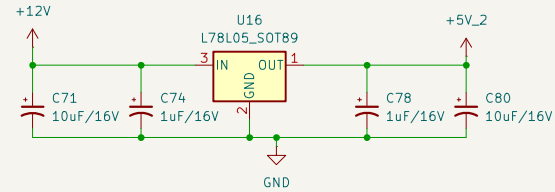
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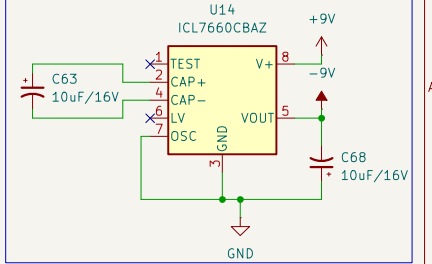
### 220VAC To 12VDC/450mA



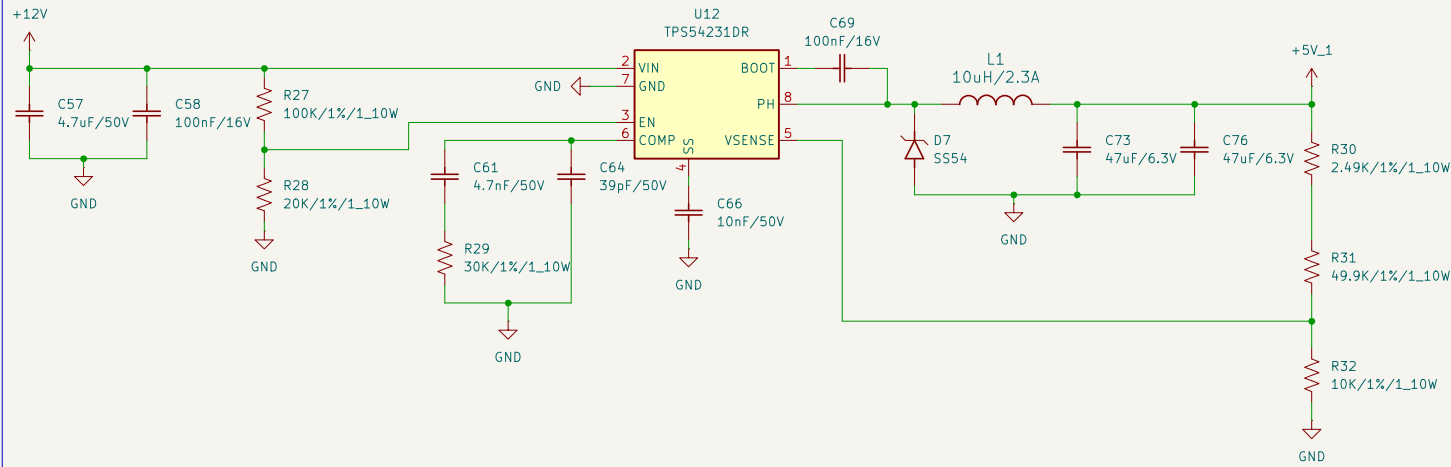
### Linear Regulator 5V – L78L05



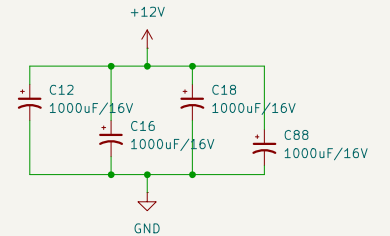
### Charge Pump –9V – ICL7660CBAZ



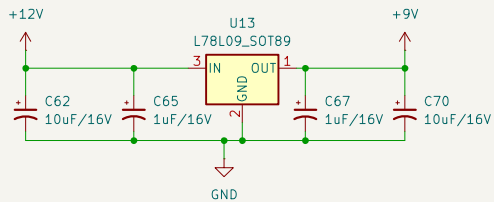
### Switching Regulator – TPS54231DR



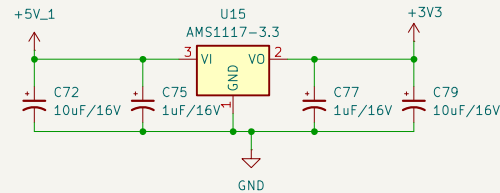
### Energy Storage



### Linear Regulator 9V – L78L09



### Linear Regulator 3V3 – AMS1117



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File: Power\_Supply.kicad\_sch

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Size: A4

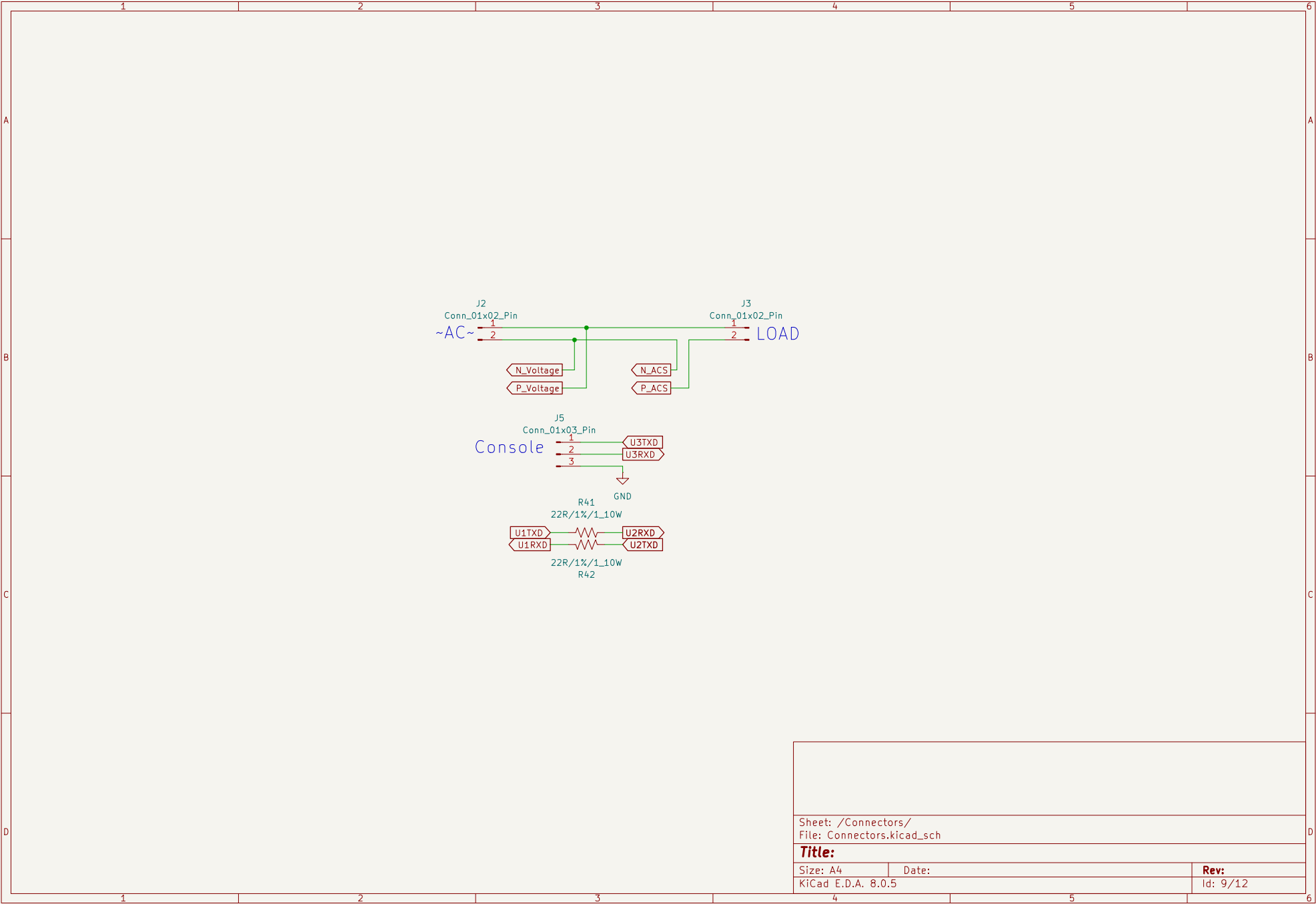
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Sheet: /Connectors/  
File: Connectors.kicad\_sch

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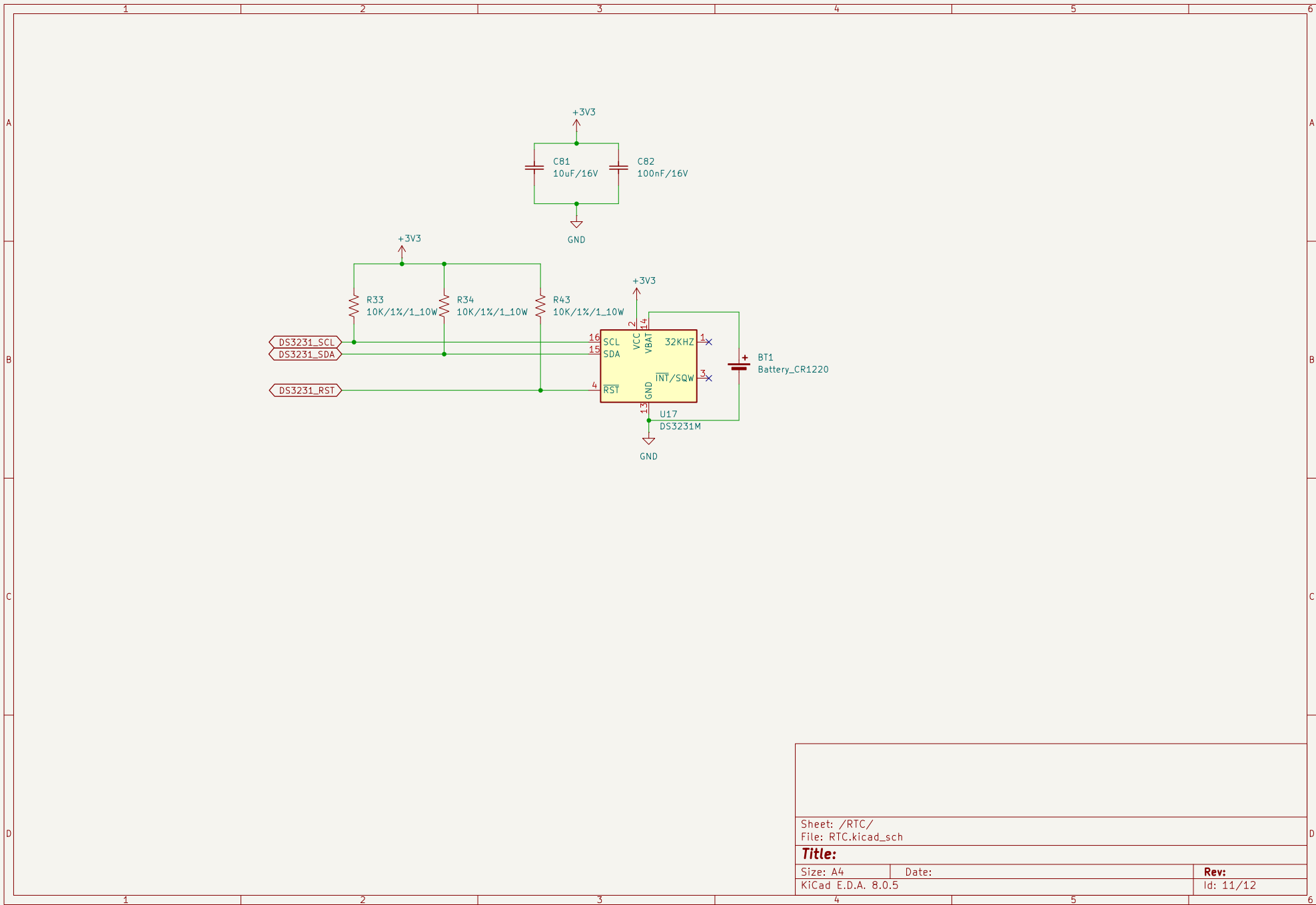
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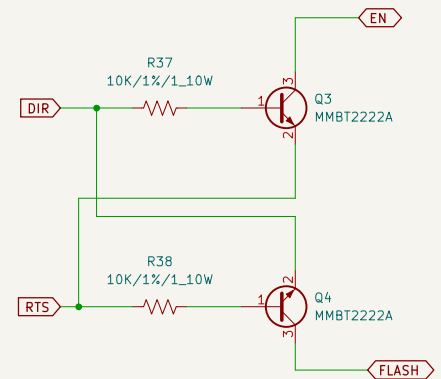
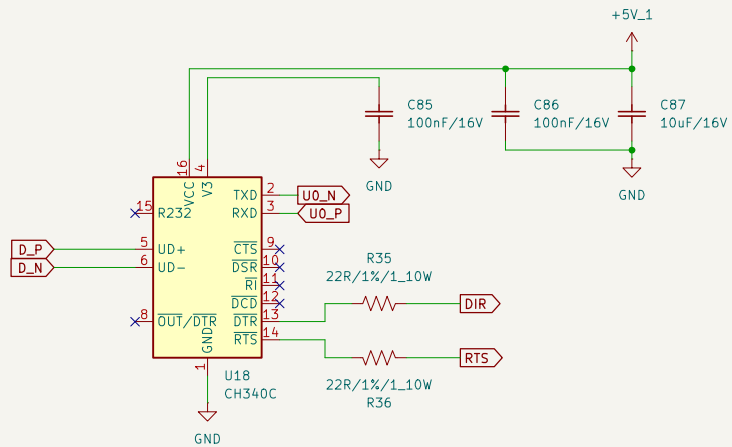
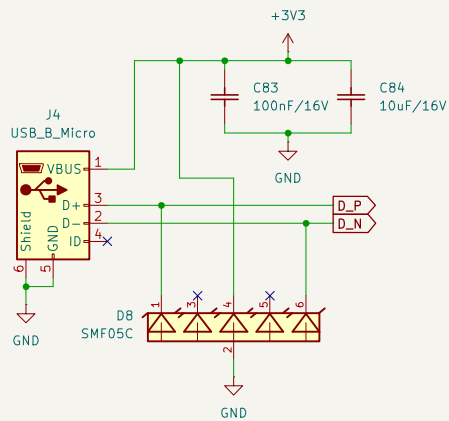
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Sheet: /USB\_To\_TTL/  
File: USB\_To\_TTL.kicad\_sch

**Title:**

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KiCad E.D.A. 8.0.5

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**Rev:**

Id: 12/12