

SiMoS McMuffin / Simo Sihvonen

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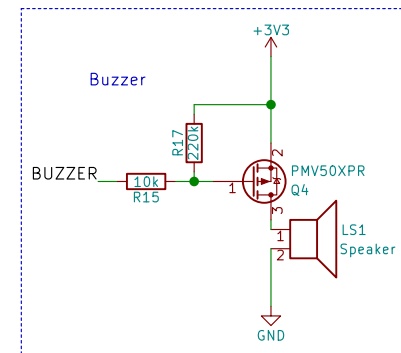
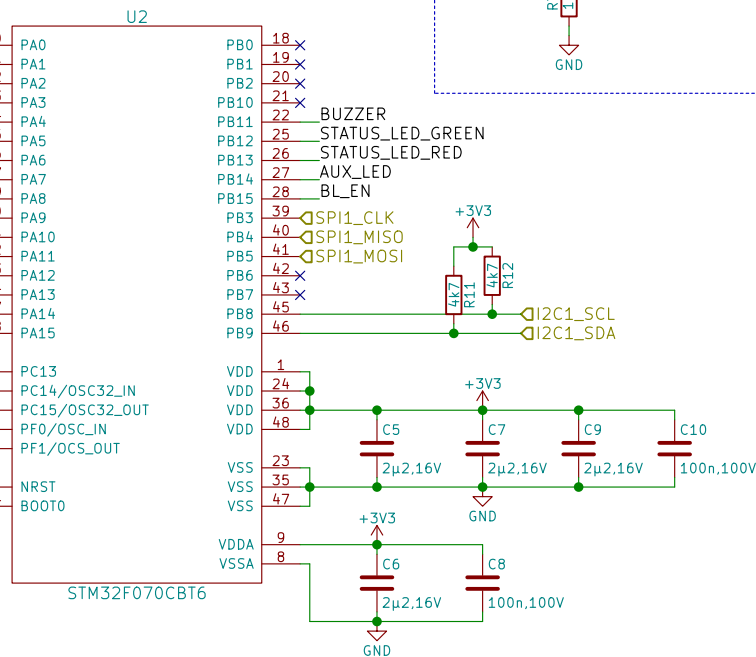
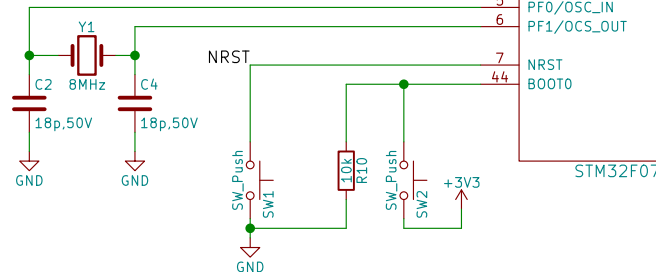
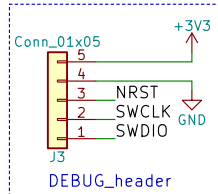
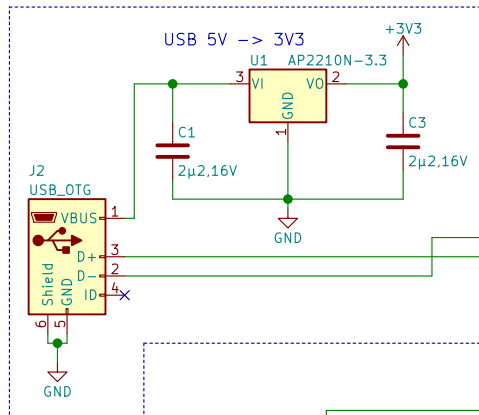
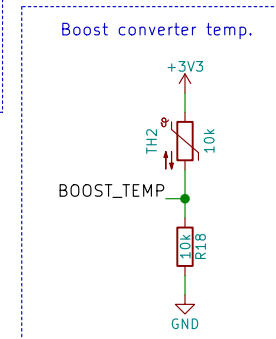
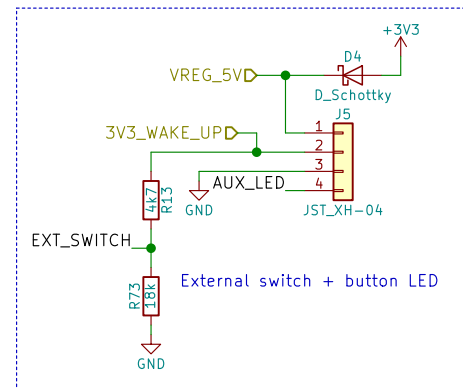
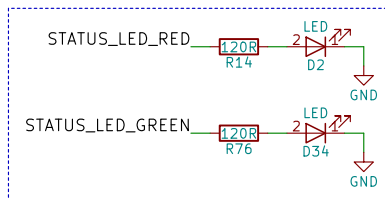
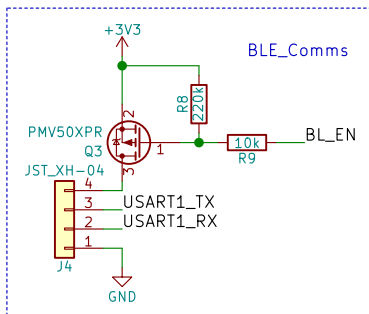
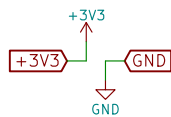
**Title: FlexiBMS**

Size: A4 Date: 2018-02-22

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**Rev: 0.1**

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Sheet: /Microcontroller/

File: Microcontroller.sch

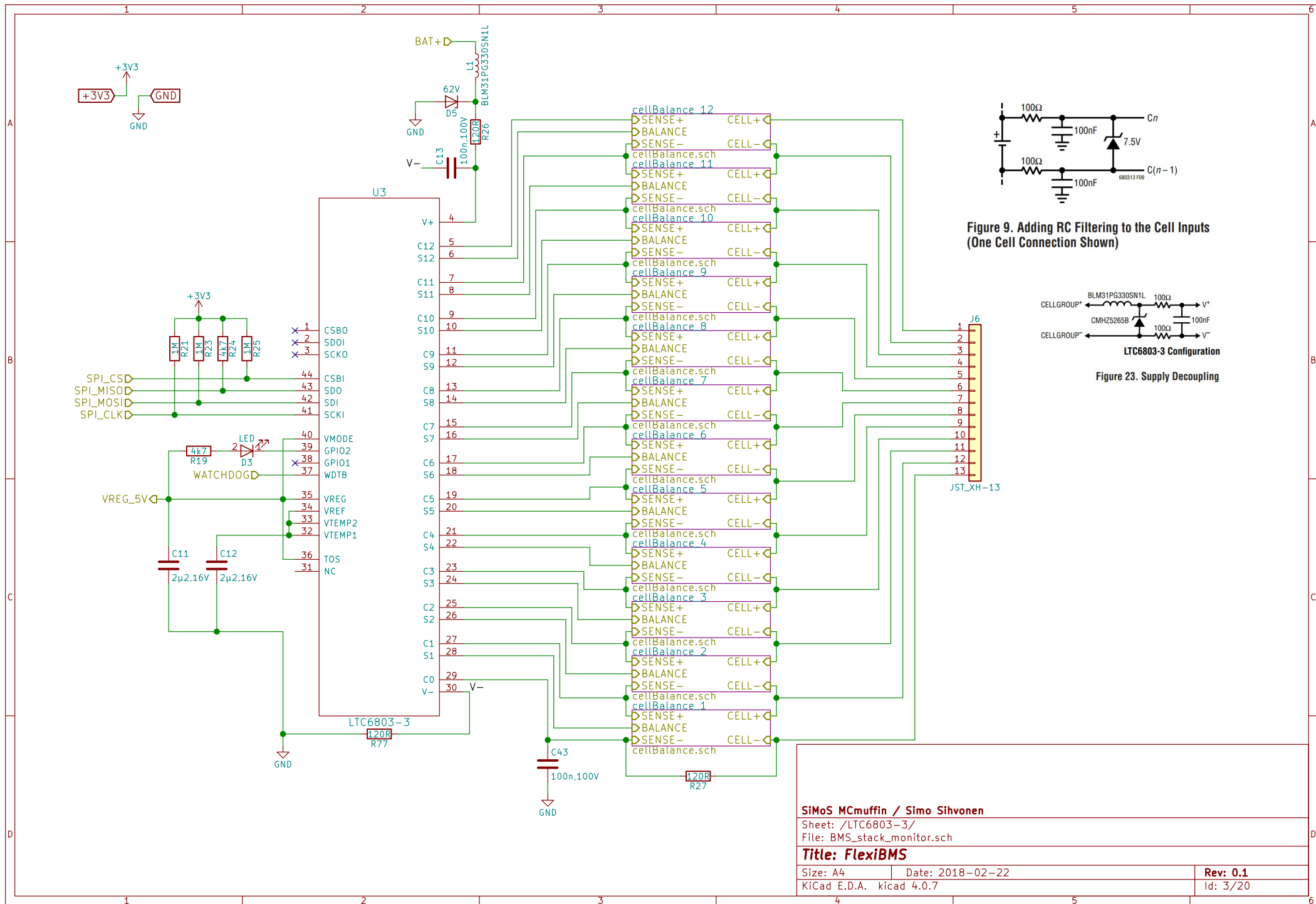
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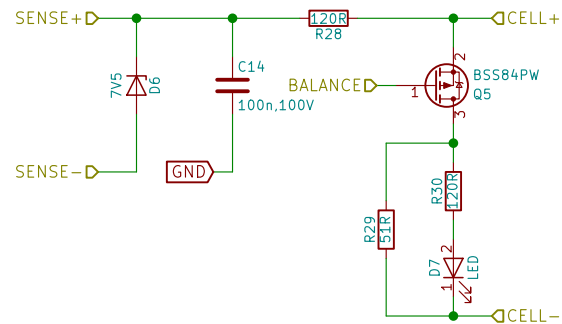
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Sheet: /LTC6803-3/cellBalance\_12/

File: cellBalance.sch

**Title: FlexiBMS**

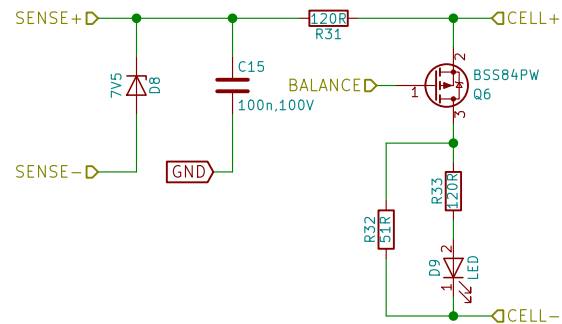
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Date: 2018-02-22

Rev: 0.1

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Id: 4/20



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Sheet: /LTC6803-3/cellBalance\_11/

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**Title: FlexiBMS**

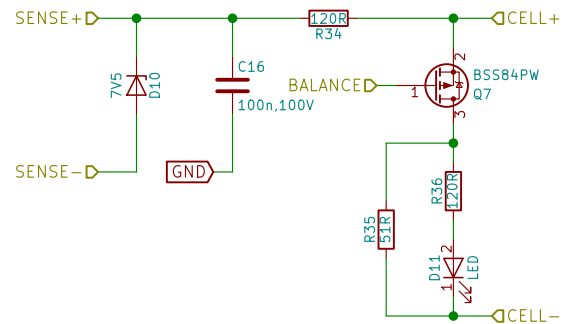
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Date: 2018-02-22

**Rev: 0.1**

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File: cellBalance.sch

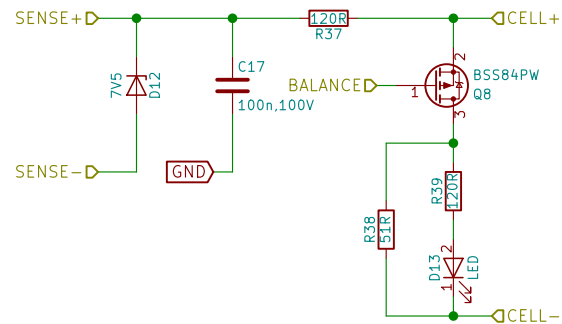
**Title: FlexiBMS**

Size: A4 Date: 2018-02-22

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File: cellBalance.sch

**Title: FlexiBMS**

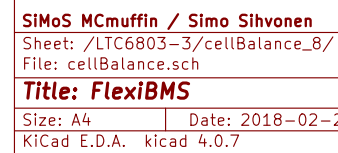
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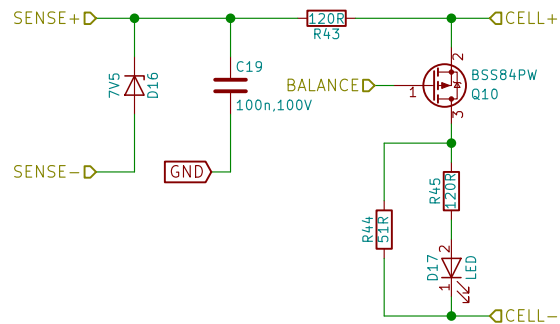
**Rev: 0.1**

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Sheet: /LTC6803-3/cellBalance\_7/

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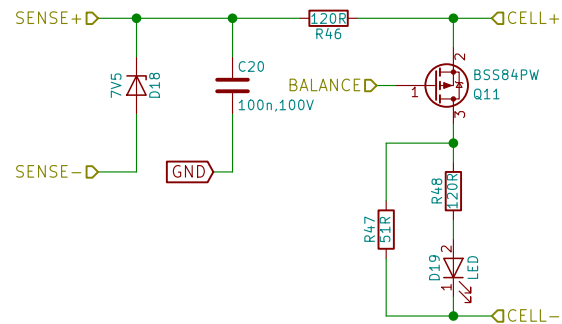
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Size: A4 Date: 2018-02-22

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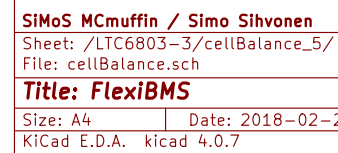
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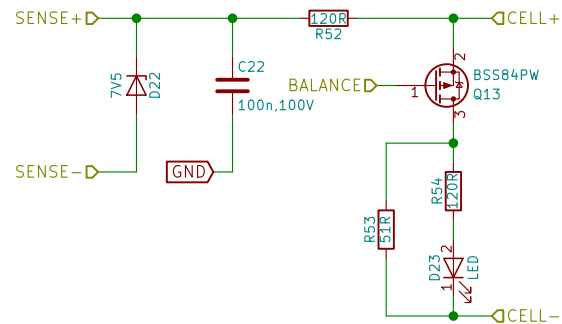
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**Rev: 0.1**

Id: 10/20





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File: cellBalance.sch

**Title: FlexiBMS**

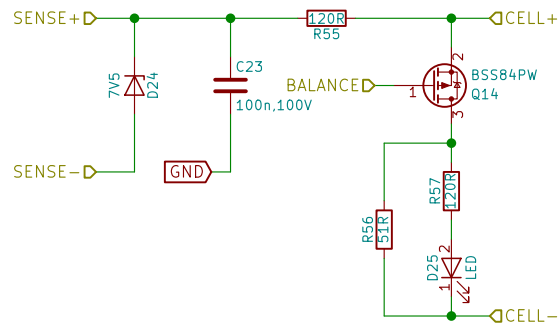
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Id: 12/20



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Sheet: /LTC6803-3/cellBalance\_3/

File: cellBalance.sch

**Title: FlexiBMS**

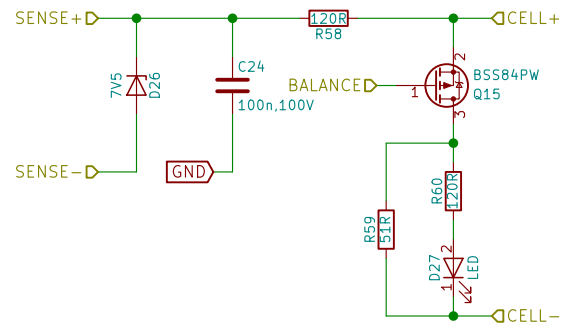
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**Rev: 0.1**

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Id: 13/20



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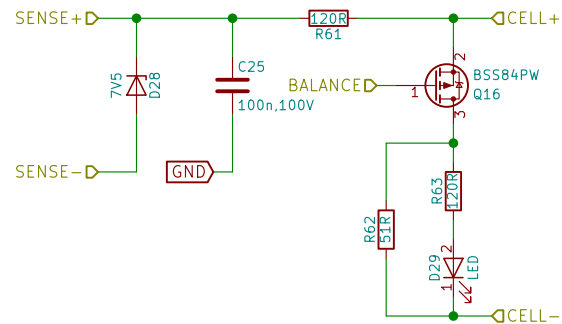
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Date: 2018-02-22

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Sheet: /LTC6803-3/cellBalance\_1/

File: cellBalance.sch

**Title: FlexiBMS**

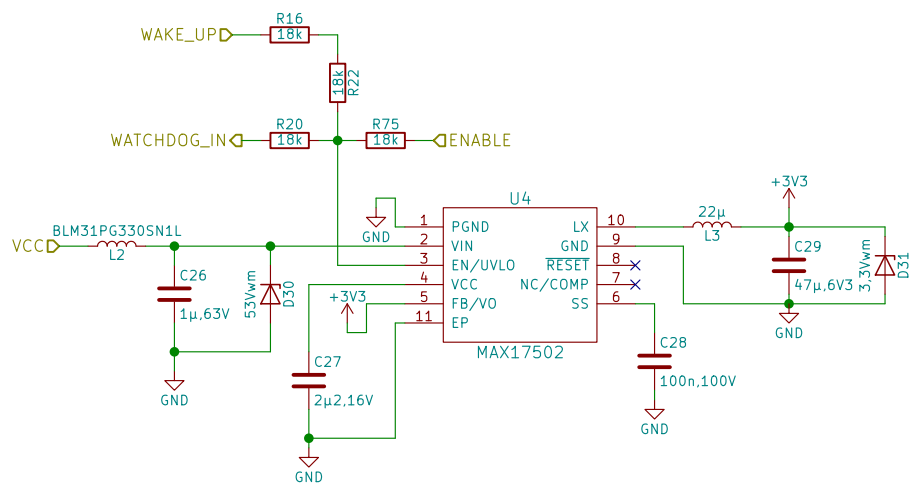
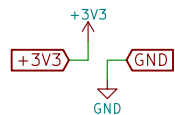
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**Rev: 0.1**

KiCad E.D.A. kicad 4.0.7

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Sheet: /MAX17502/

File: 3V3\_Switch\_regulator.sch

**Title: FlexiBMS**

Size: A4

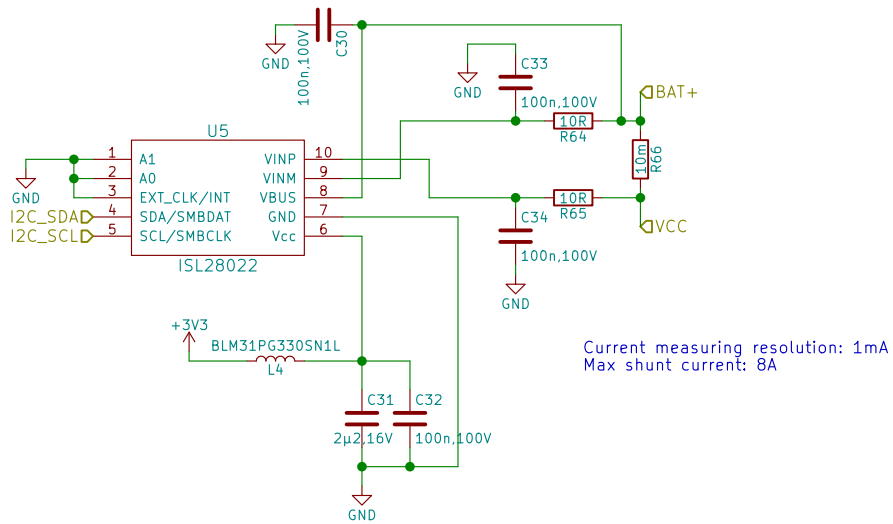
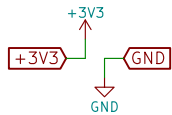
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Rev: 0.1

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Id: 16/20





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Sheet: /currentMeasuring/  
File: currentMeasuring.sch

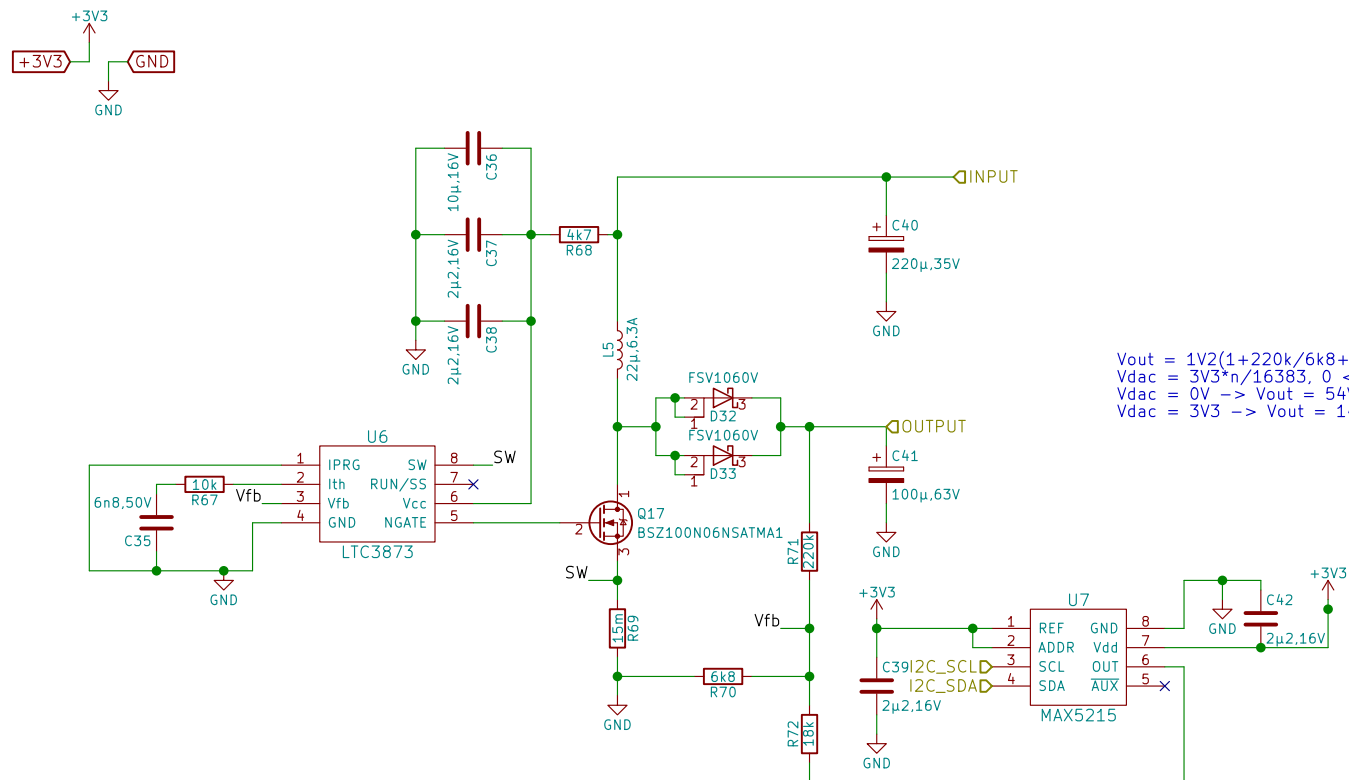
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**Rev: 0.1**

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Sheet: /Boost-DAC/

File: Boost-DAC.sch

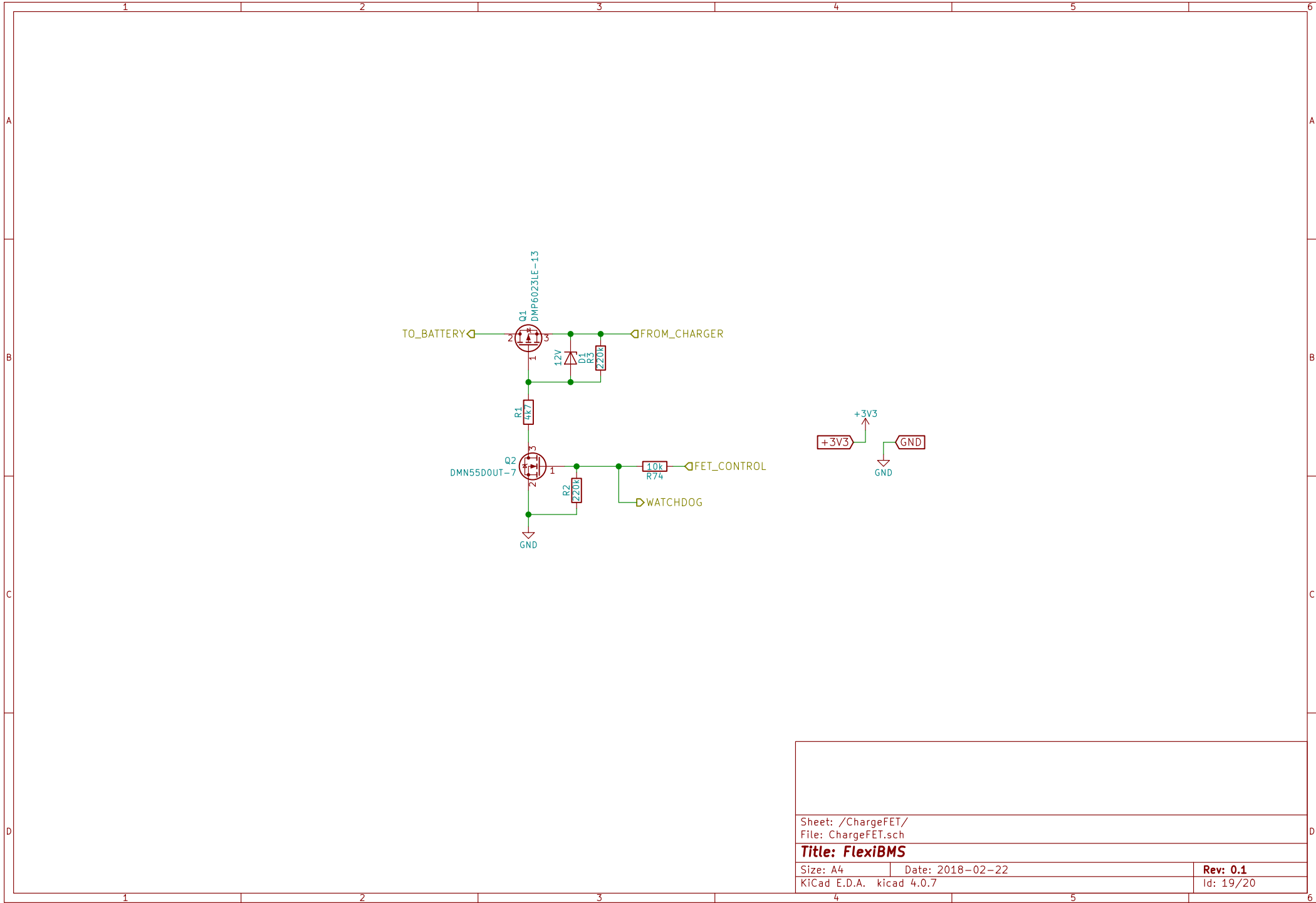
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File: ChargeFET.sch

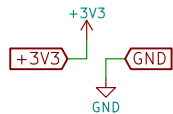
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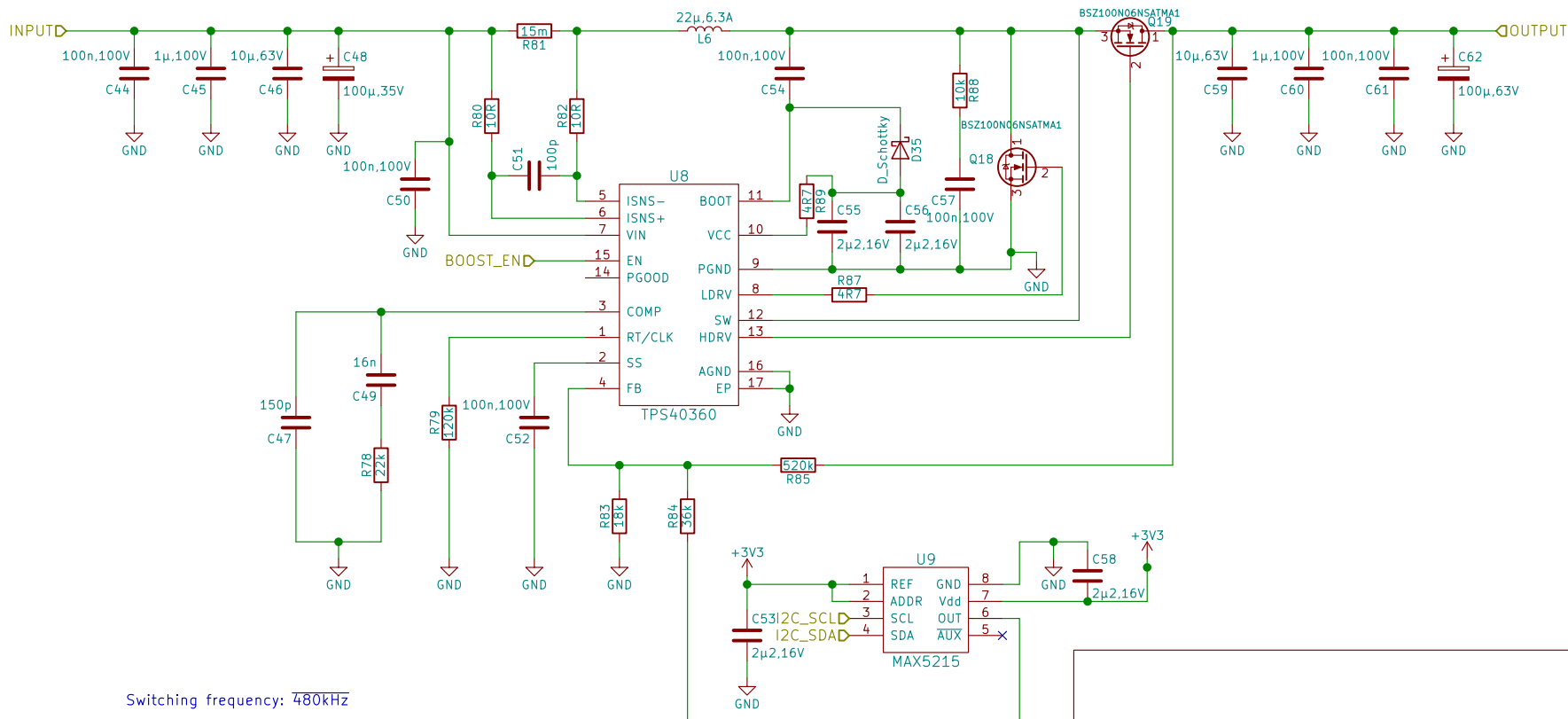
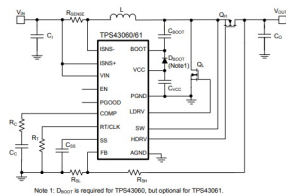
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#### 4 Simplified Schematic



Switching frequency: 480kHz

$V_{out} = 1V22(1+520k/18+520/36k)-V_{dac}(520k/36k)$   
 $V_{dac} = 3V3 * n / 16383, 0 \leq n \leq 16383$   
 $V_{dac} = 0V \rightarrow V_{out} = 54V1$   
 $V_{dac} = 3V3 \rightarrow V_{out} = 6V4$

Sheet: /TPS40360/  
 File: TPS40360.sch

#### Title:

Size: A4  
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Date:

Rev:  
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