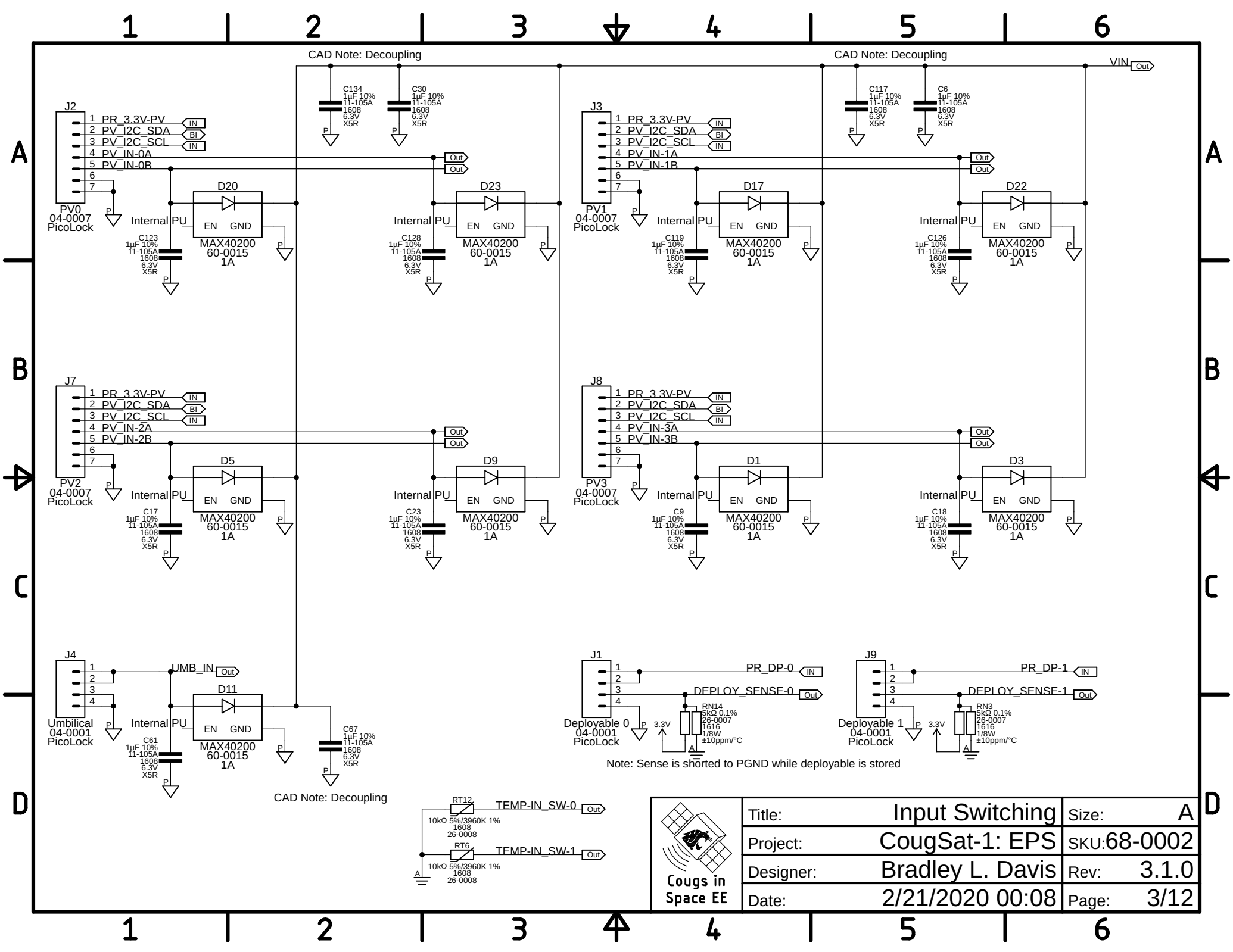


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|-----------|------------------|-------|---------|
| Title:    | Power Rails      | Size: | A       |
| Project:  | CougSat-1: EPS   | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis | Rev:  | 3.1.0   |
| Date:     | 2/21/2020 00:08  | Page: | 2/12    |



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|-----------|------------------|-------|---------|
| Title:    | Input Switching  | Size: | A       |
| Project:  | CougSat-1: EPS   | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis | Rev:  | 3.1.0   |
| Date:     | 2/21/2020 00:08  | Page: | 3/12    |



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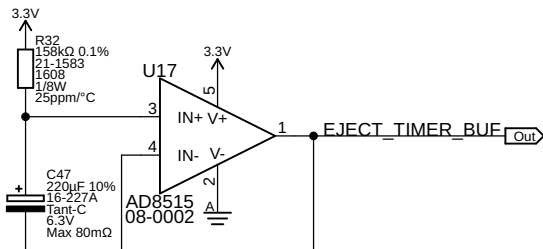
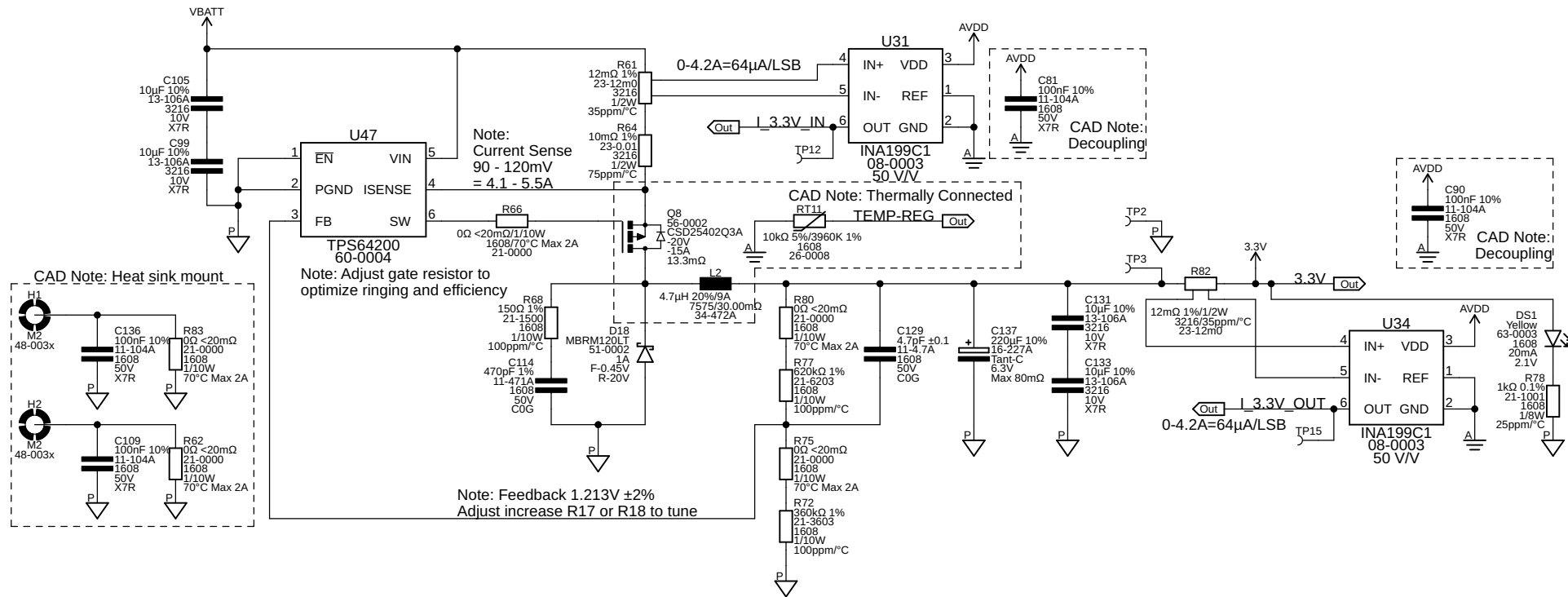
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|-----------|------------------|-------|---------|
| Title:    | 3.3V Regulation  | Size: | A       |
| Project:  | CougsSat-1: EPS  | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis | Rev:  | 3.1.0   |
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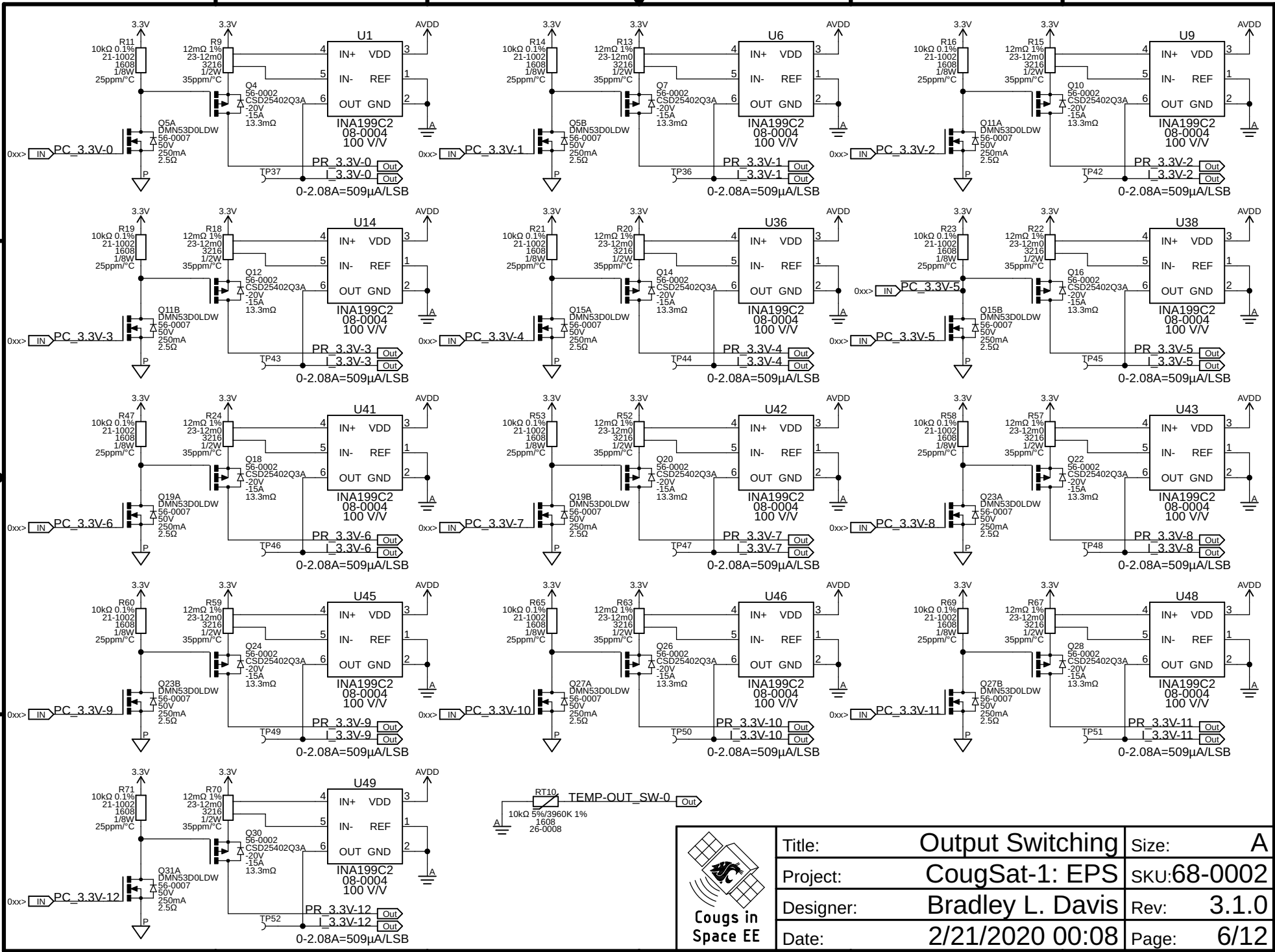
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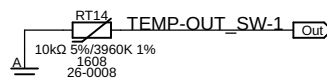
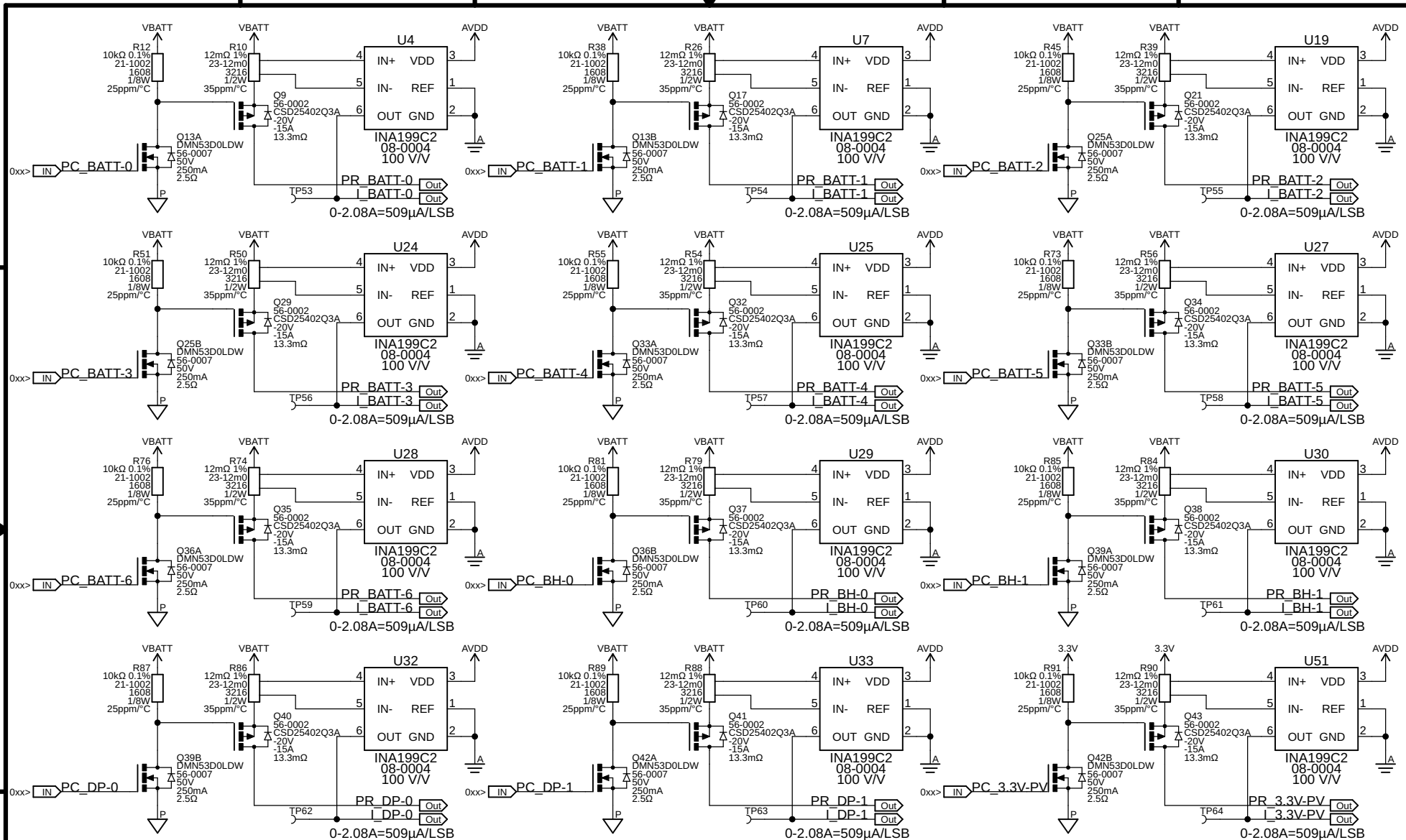
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|-----------|------------------|-------|---------|
| Title:    | Output Switching | Size: | A       |
| Project:  | CougsSat-1: EPS  | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis | Rev:  | 3.1.0   |
| Date:     | 2/21/2020 00:08  | Page: | 7/12    |

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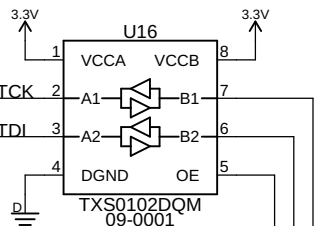
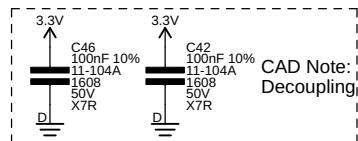
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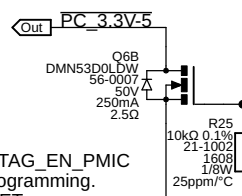
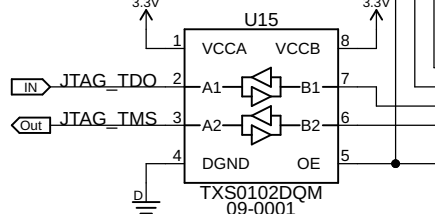
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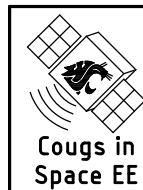
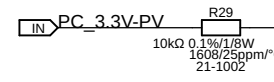
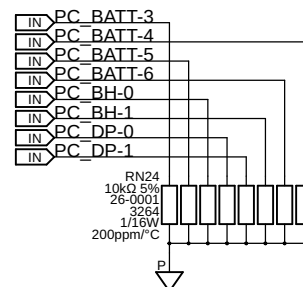
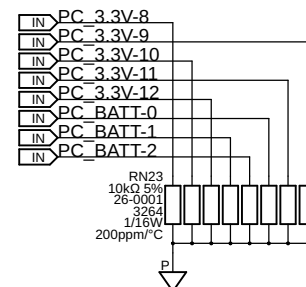
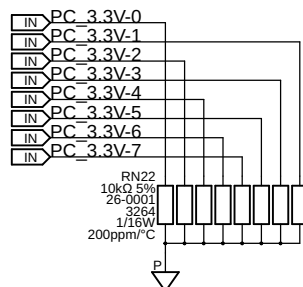
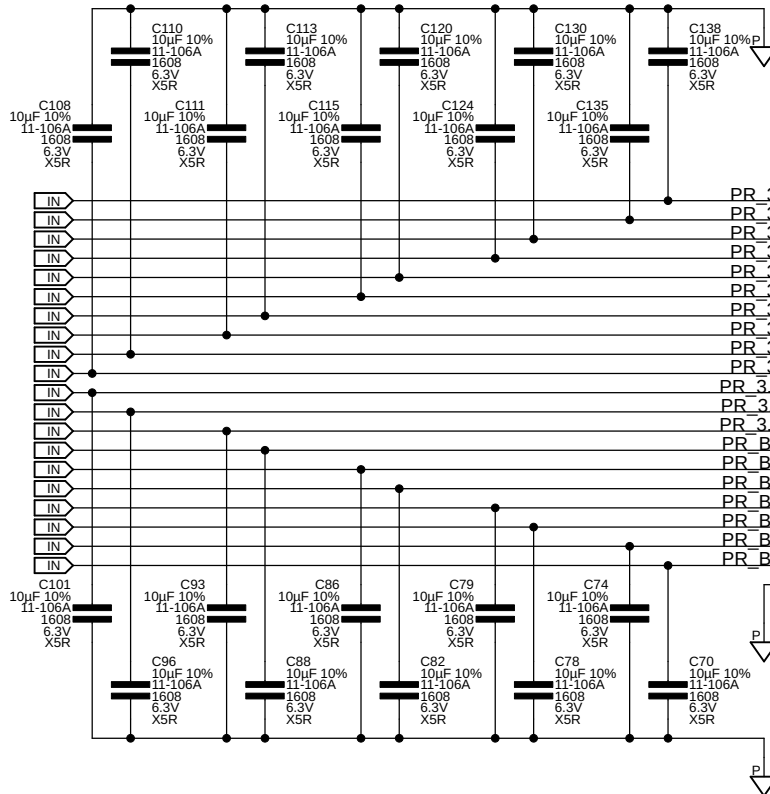
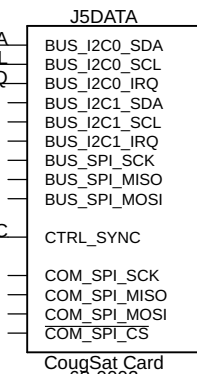
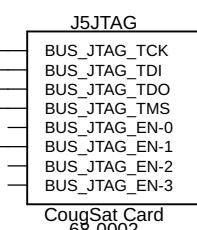
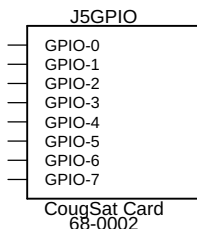
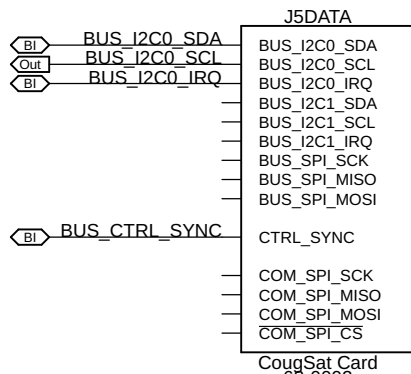
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Note:  
STM32 includes  
JTAG termination



IFJR drives JTAG\_EN\_PMIC  
high when programming.  
This ORing FETs ensure  
its power rail stays on when  
programming.



|           |                       |       |         |
|-----------|-----------------------|-------|---------|
| Title:    | Backplane Connections | Size: | A       |
| Project:  | CougsSat-1: EPS       | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis      | Rev:  | 3.1.0   |
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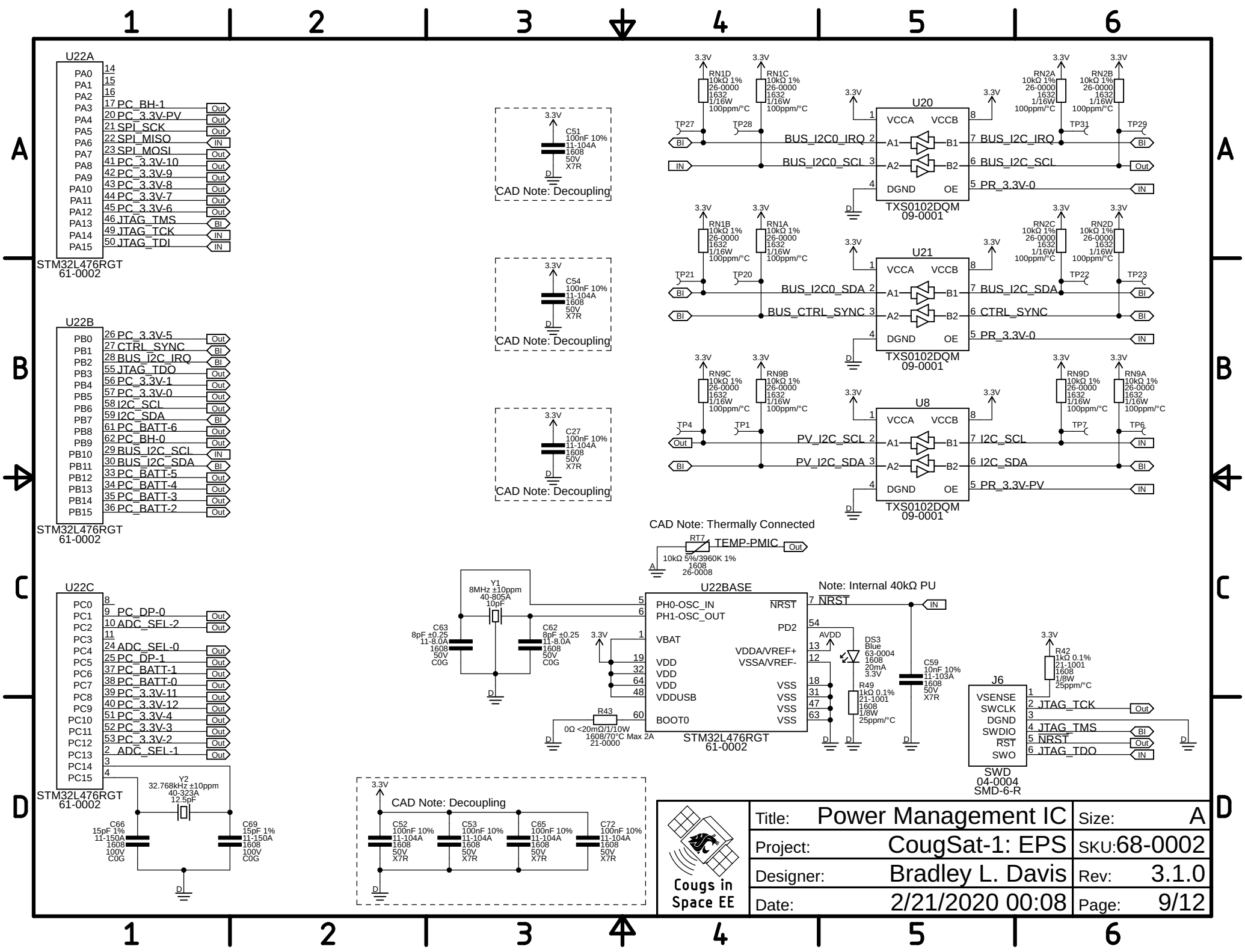
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|---|----------------------------|-------------|
| <br>Cougs in<br>Space EE | Title: Power Management IC | Size: A     |
|   | Project: CougSat-1: EPS    | SKU:68-0002 |
|   | Designer: Bradley L. Davis | Rev: 3.1.0  |
|   | Date: 2/21/2020 00:08      | Page: 9/12  |

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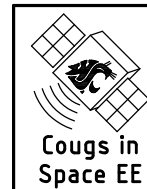
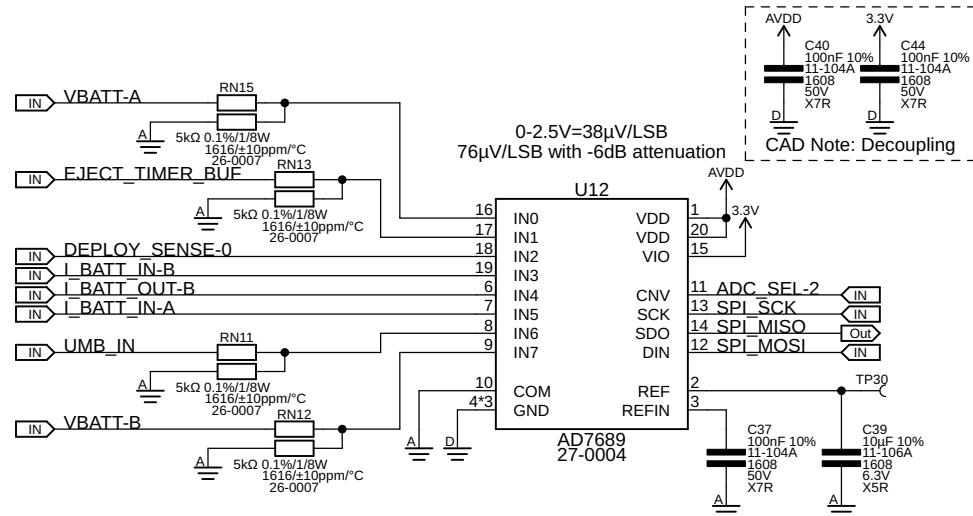
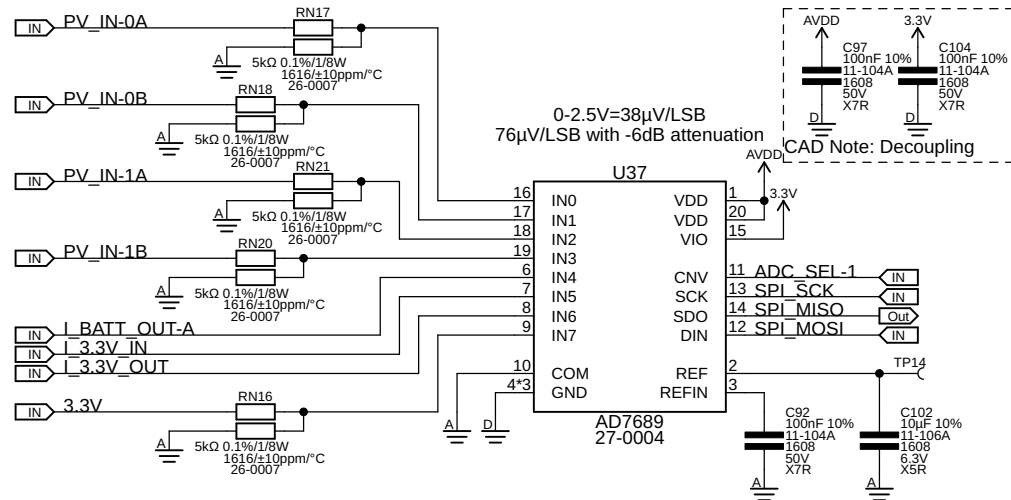
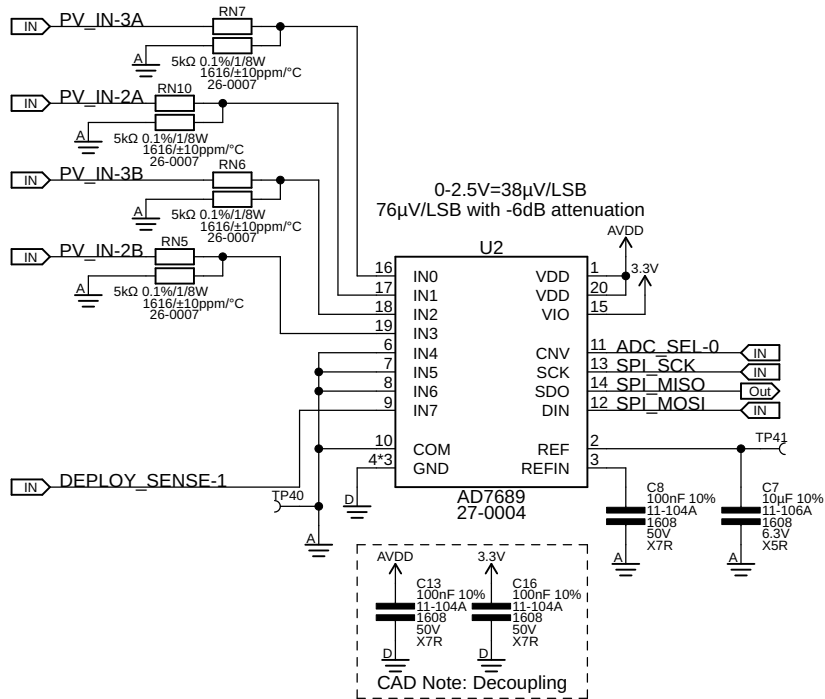
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|-----------|------------------|--|-------|---------|
| Title:    | SPI ADCs         |  | Size: | A       |
| Project:  | CougSat-1: EPS   |  | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis |  | Rev:  | 3.1.0   |
| Date:     | 2/21/2020 00:08  |  | Page: | 10/12   |

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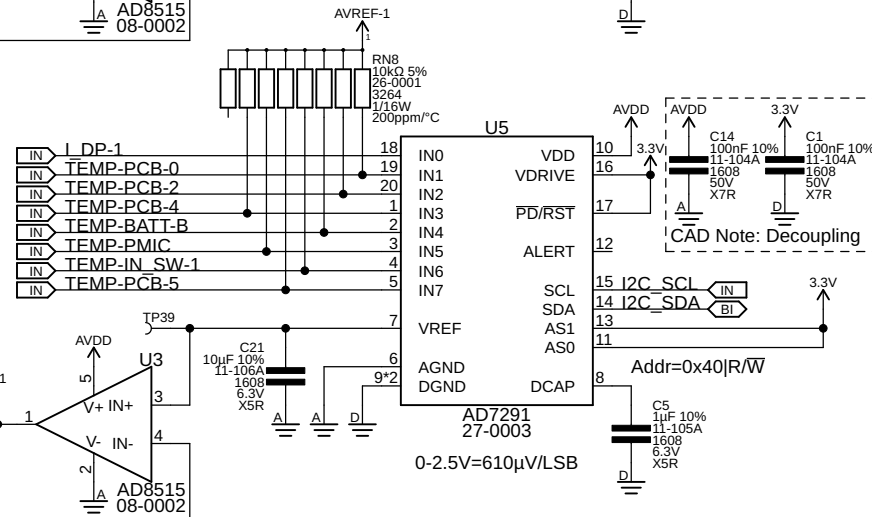
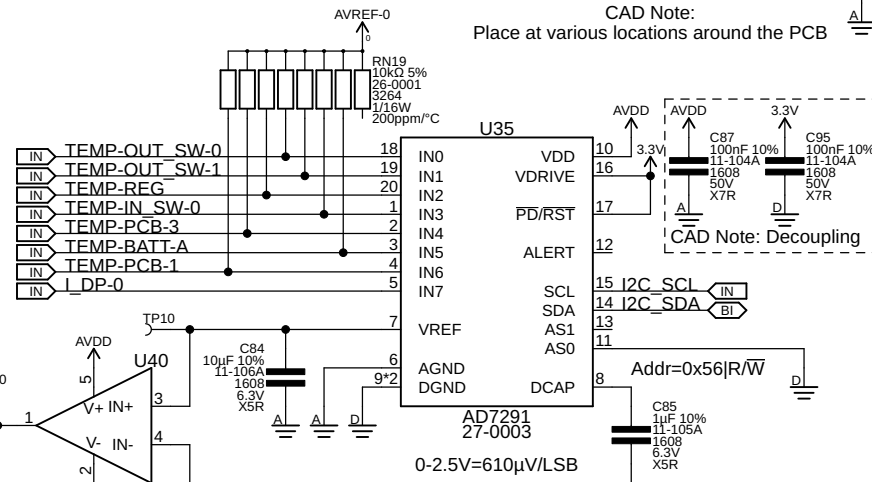
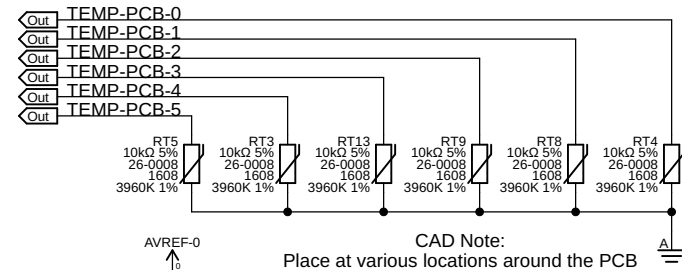
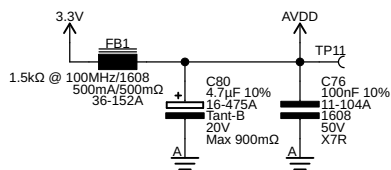
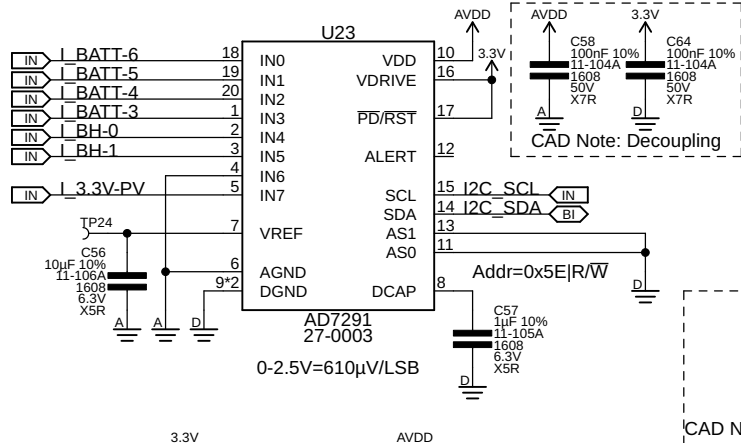
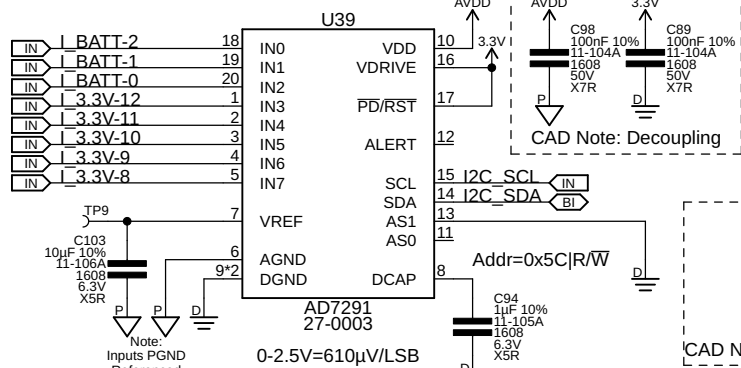
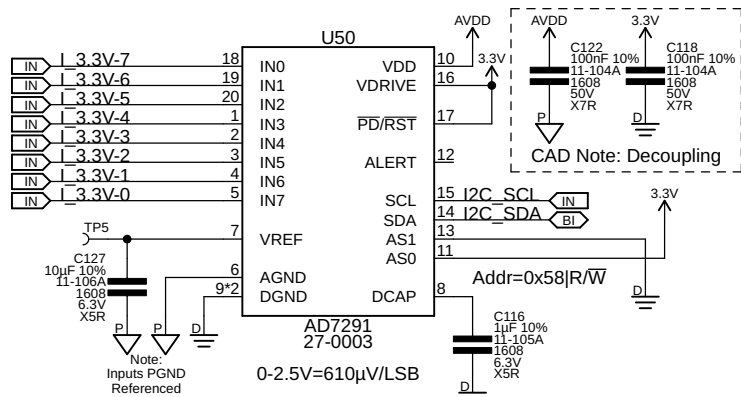
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|-----------|-----------------------|-------|---------|
| Title:    | I <sup>2</sup> C ADCs | Size: | A       |
| Project:  | CougsSat-1: EPS       | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis      | Rev:  | 3.1.0   |
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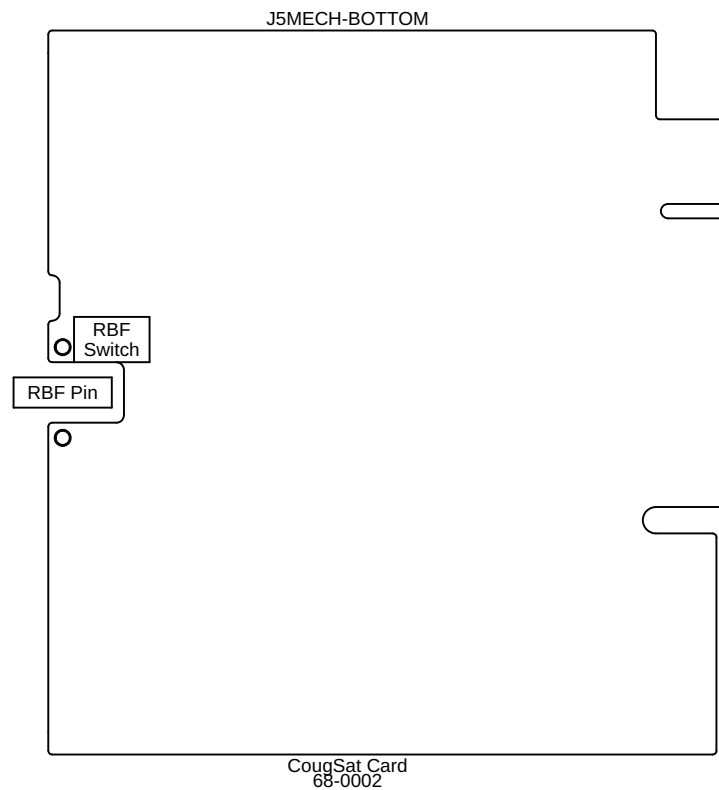
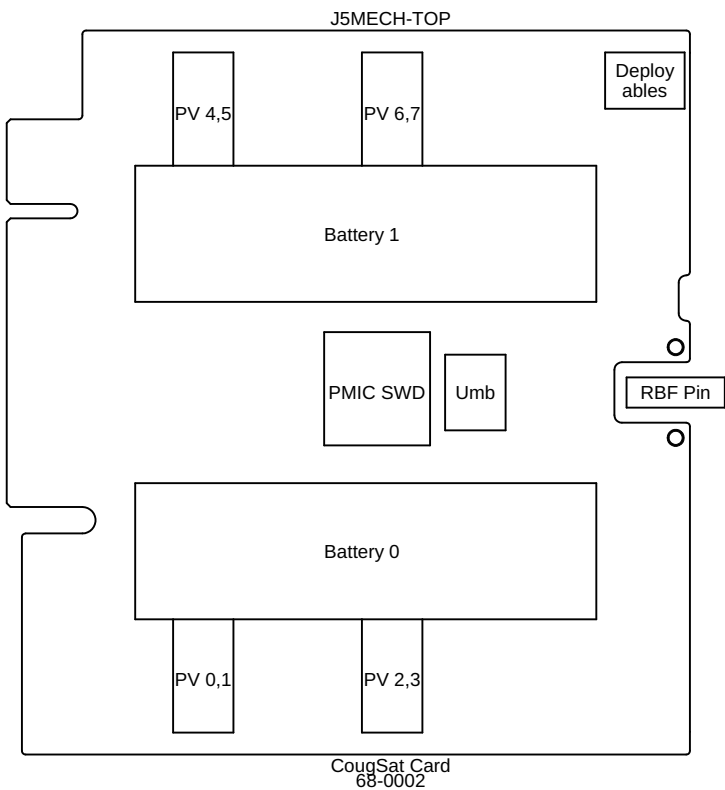
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LOGO2  
Satellite 16mm

**Cougs in  
Space**

LOGO1  
Signature



**Cougs in  
Space EE**

|           |                  |       |         |
|-----------|------------------|-------|---------|
| Title:    | Mechanical       | Size: | A       |
| Project:  | CougSat-1: EPS   | SKU:  | 68-0002 |
| Designer: | Bradley L. Davis | Rev:  | 3.1.0   |
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