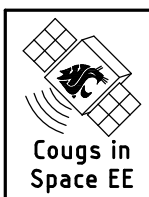
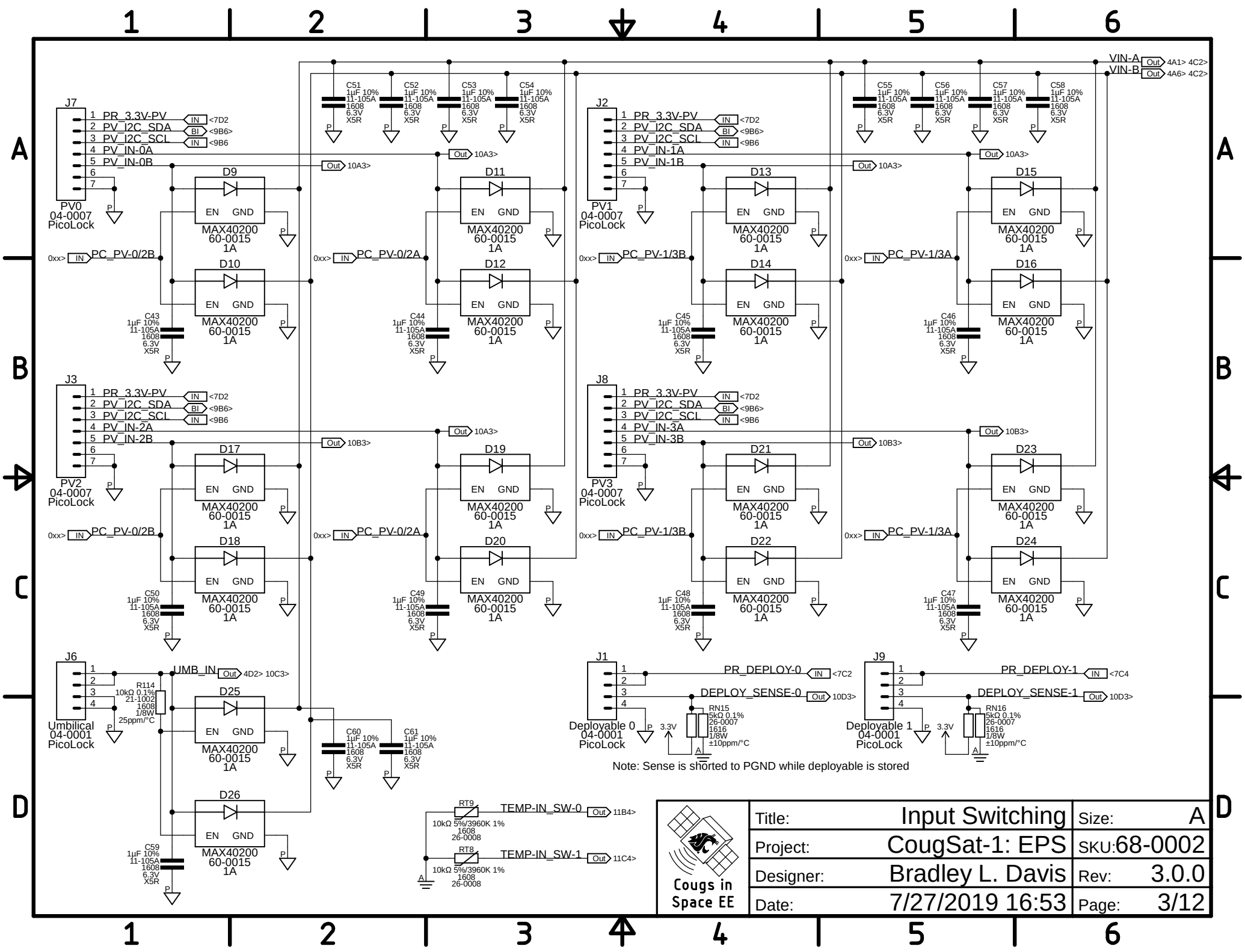
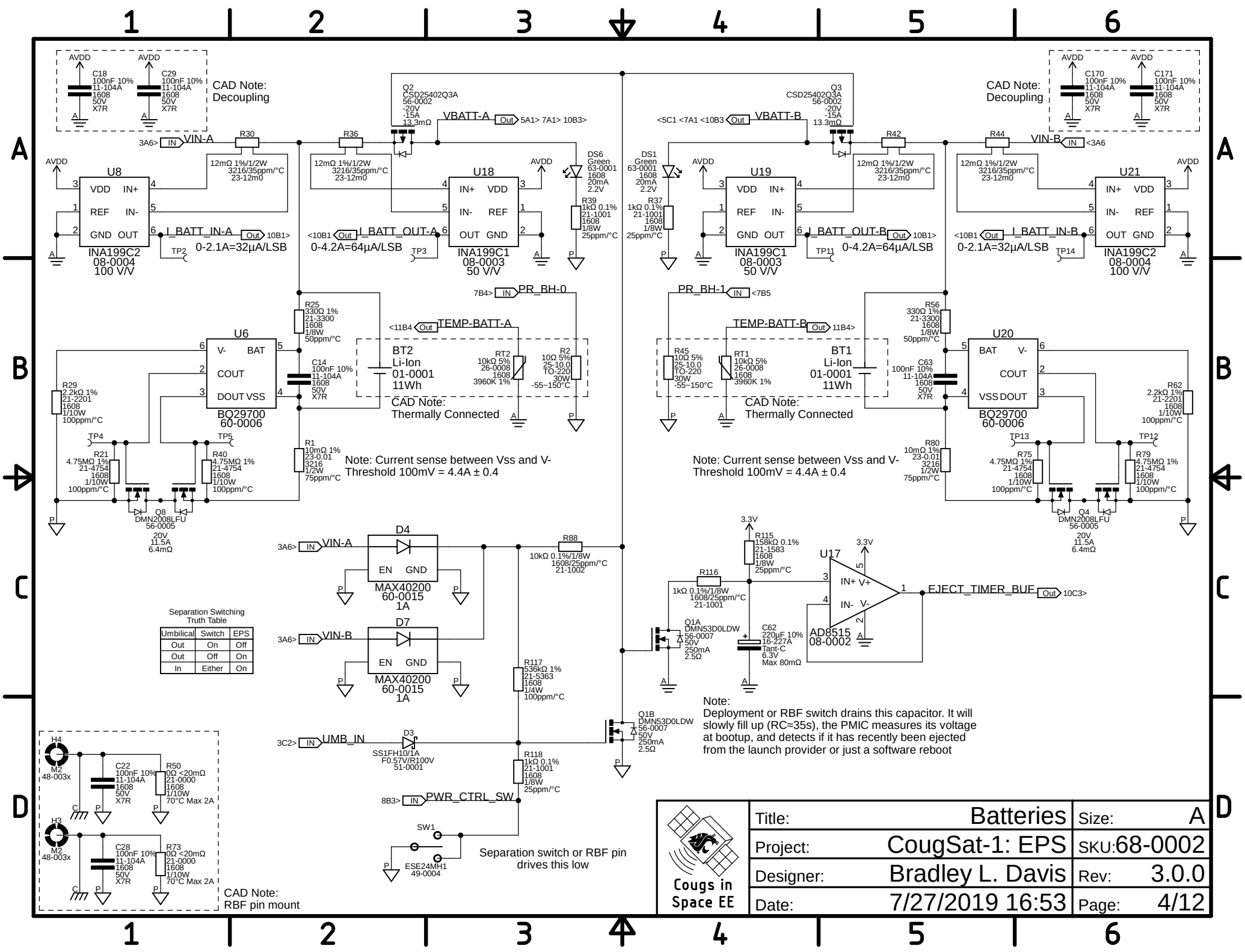



CougSat-1
Space EE

Title:	Power Rails	Size:	A
Project:	CougSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	2/12

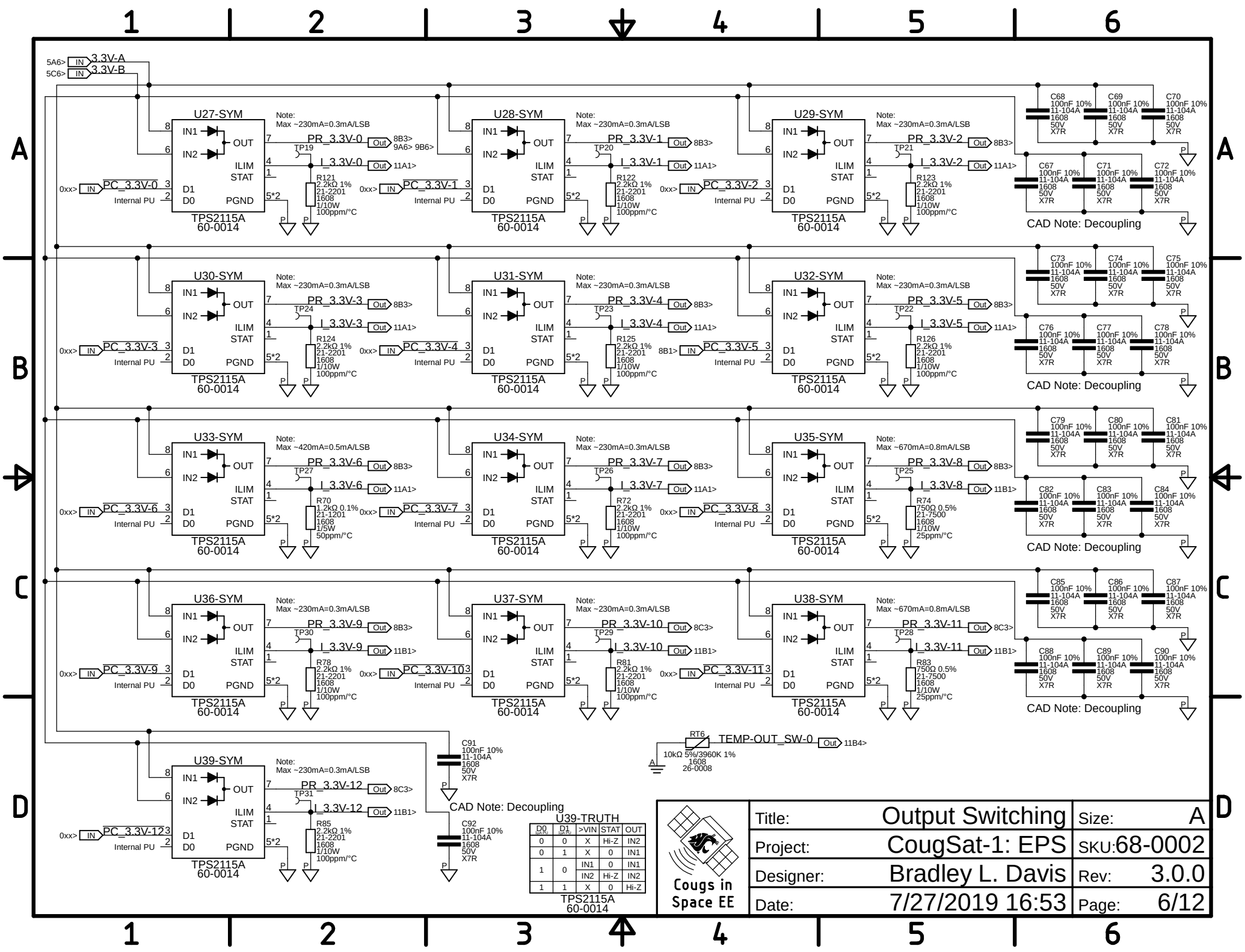


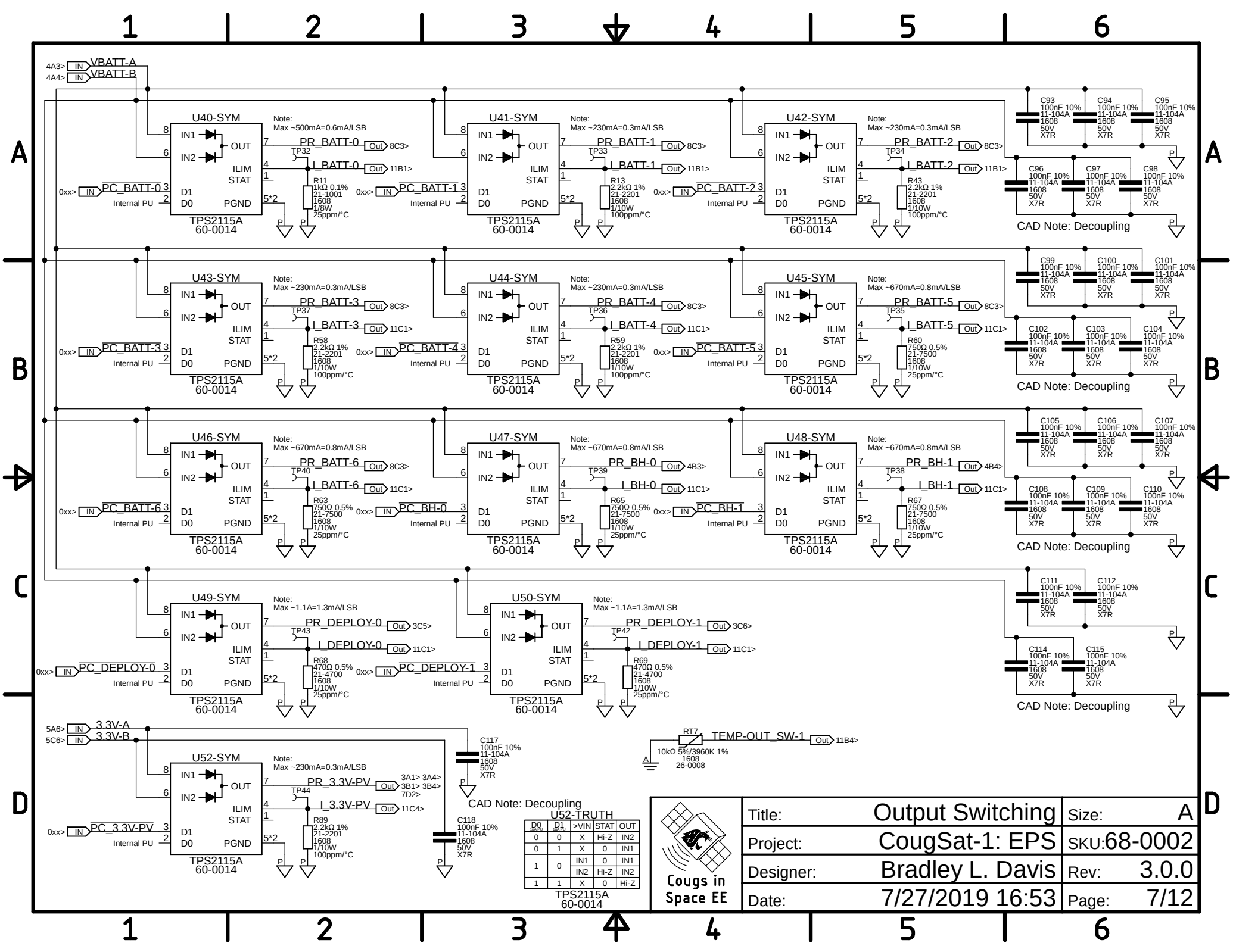
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Project:	CougSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	3/12



 Cougs in Space EE	Title:	Batteries	Size:	A
	Project:	CougSat-1: EPS	SKU:	68-0002
	Designer:	Bradley L. Davis	Rev:	3.0.0
	Date:	7/27/2019 16:53	Page:	4/12



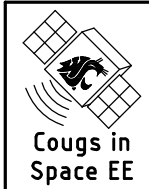




CAD Note: Decoupling

D0	D1	>VIN	STAT	OUT
0	0	X	Hi-Z	IN2
0	1	X	0	IN1
1	0	IN1	Hi-Z	IN2
1	1	X	0	Hi-Z

TPS2115A 60-0014



Title:	Output Switching	Size:	A
Project:	CougsSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	7/12

1

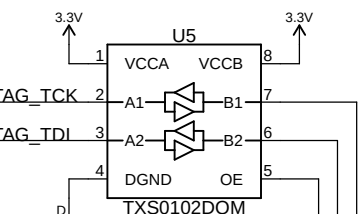
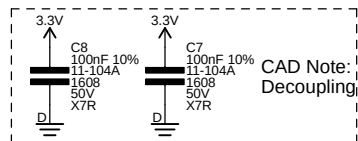
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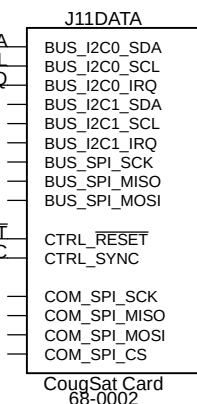
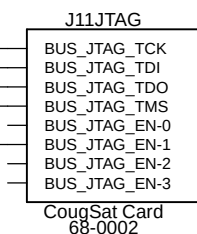
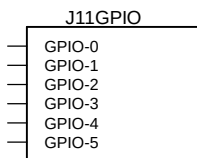
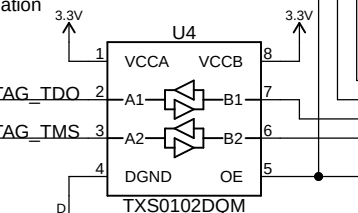
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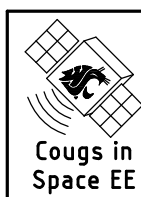
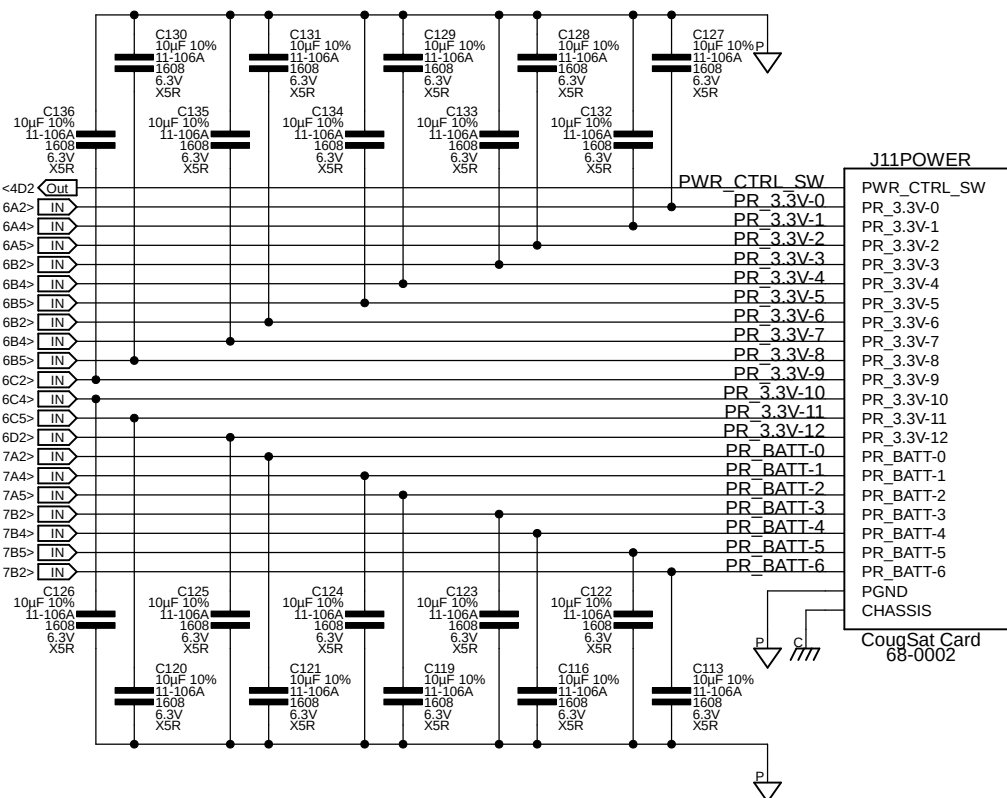
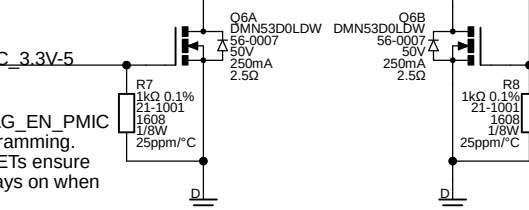
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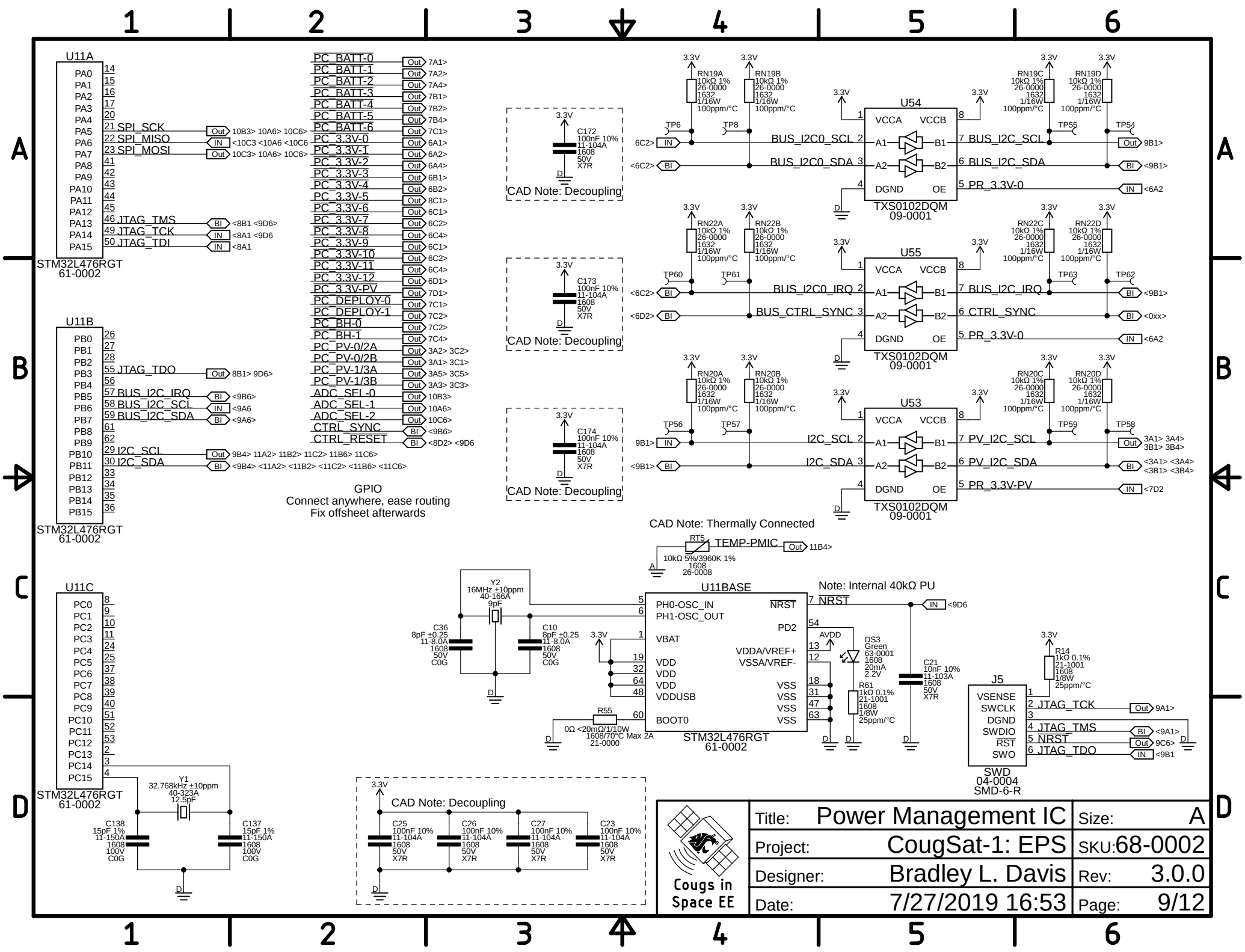
Note:
STM32 includes
JTAG termination




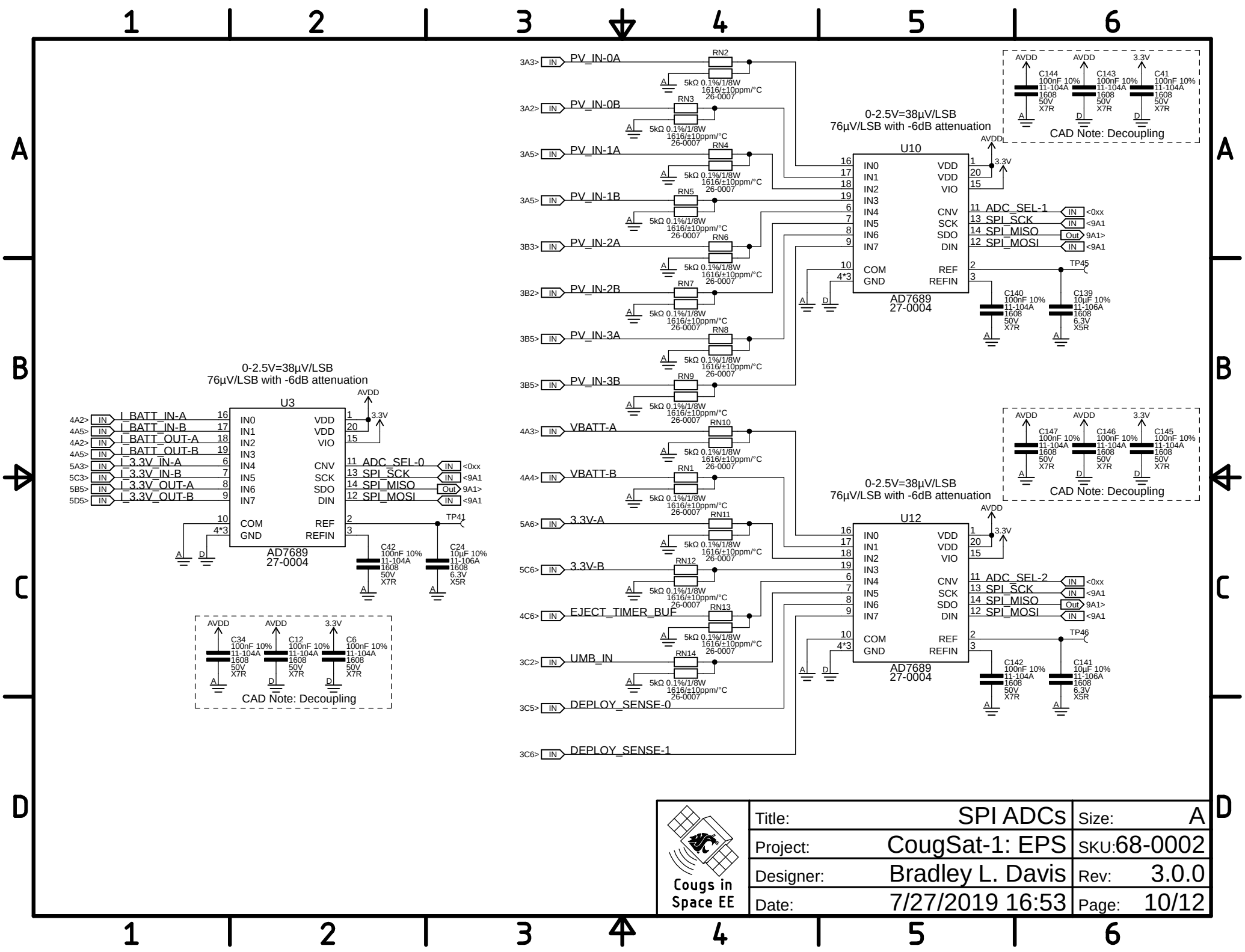
IFJR drives JTAG_EN_PMIC
high when programming.
These ORing FETs ensure
its power rail stays on when
programming.




Title:	Backplane Connections	Size:	A
Project:	CougSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	8/12



 Cougs in Space EE	Title: Power Management IC	Size: A
	Project: CougSat-1: EPS	SKU:68-0002
	Designer: Bradley L. Davis	Rev: 3.0.0
	Date: 7/27/2019 16:53	Page: 9/12



	Title:	SPI ADCs		Size:	A
	Project:	CougSat-1: EPS		SKU:	68-0002
	Designer:	Bradley L. Davis		Rev:	3.0.0
	Date:	7/27/2019 16:53		Page:	10/12

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A

B

C

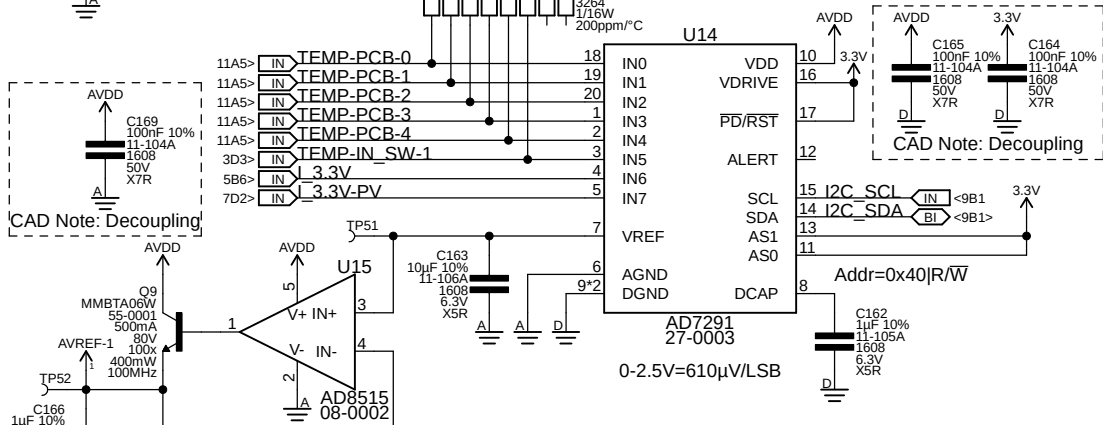
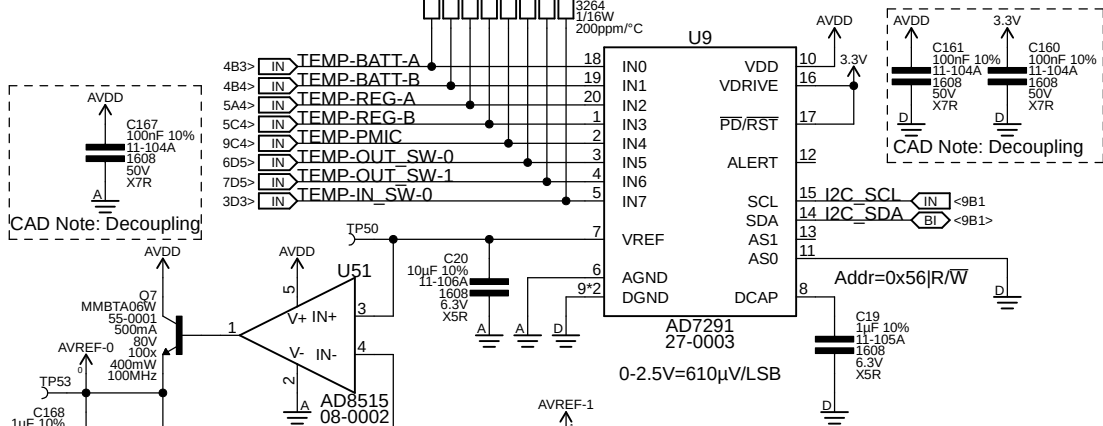
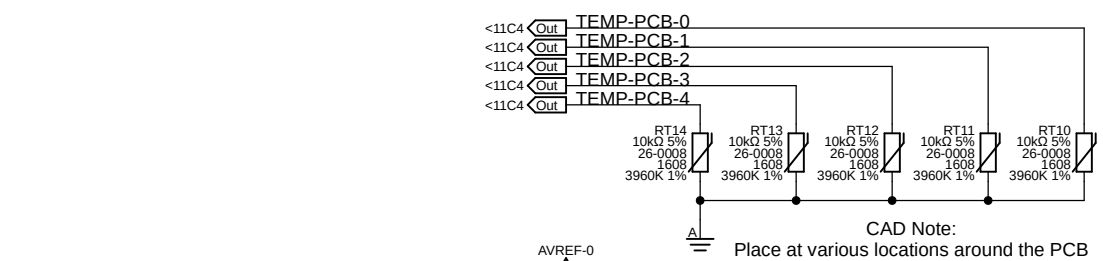
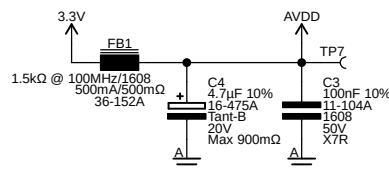
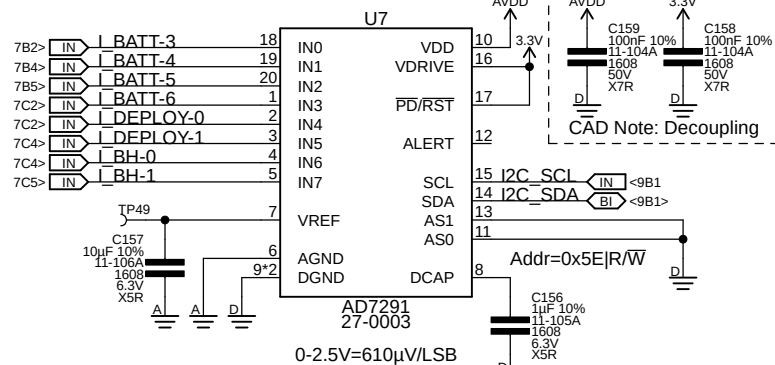
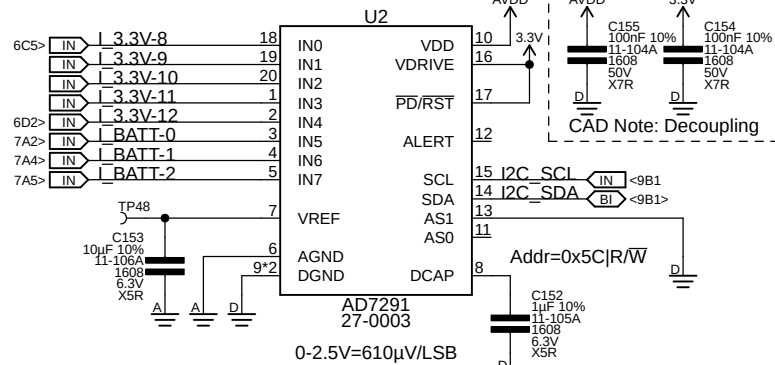
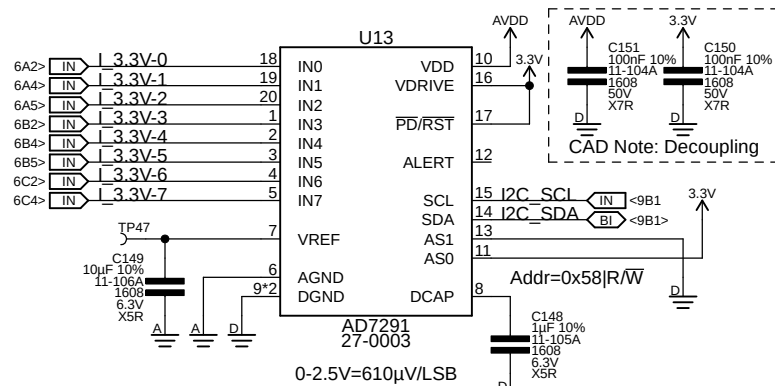
D

A

B

C

D



Title:	I ² C ADCs	Size:	A
Project:	CougsSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	11/12

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A

A

B

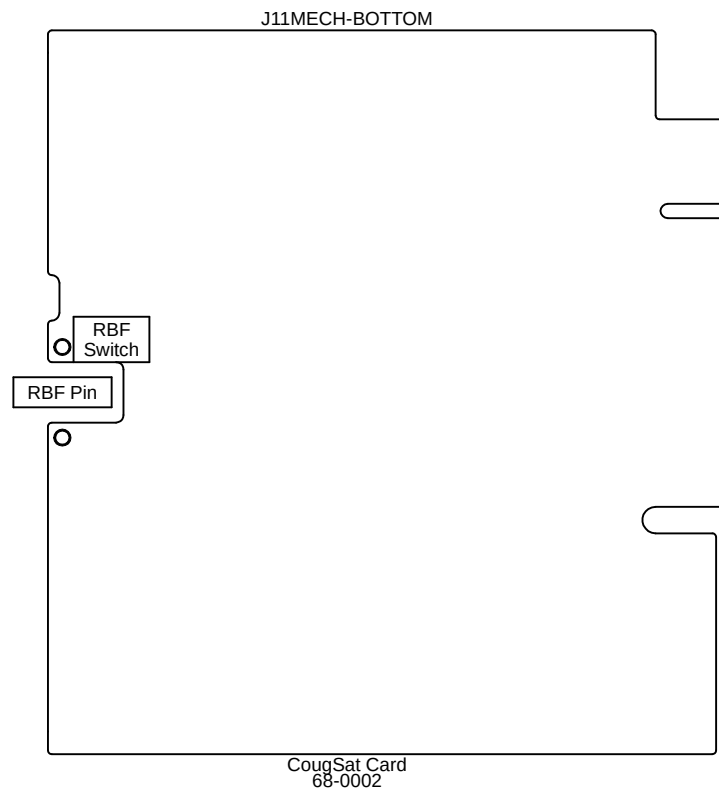
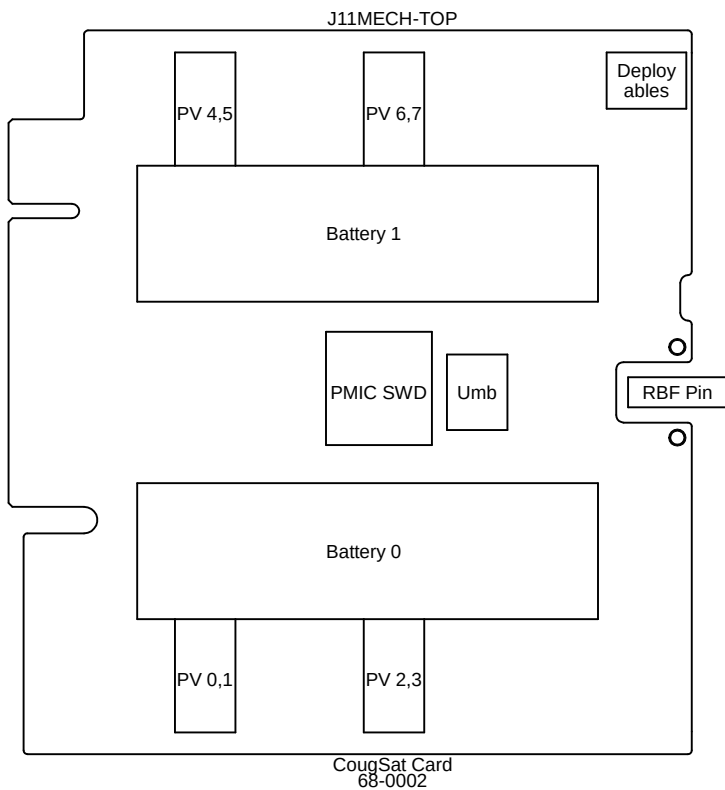
B

C

C

D

D



LOGO1
Satellite 16mm

**Cougs in
Space**

LOGO2

Signature



Title:	Mechanical	Size:	A
Project:	CougSat-1: EPS	SKU:	68-0002
Designer:	Bradley L. Davis	Rev:	3.0.0
Date:	7/27/2019 16:53	Page:	12/12

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