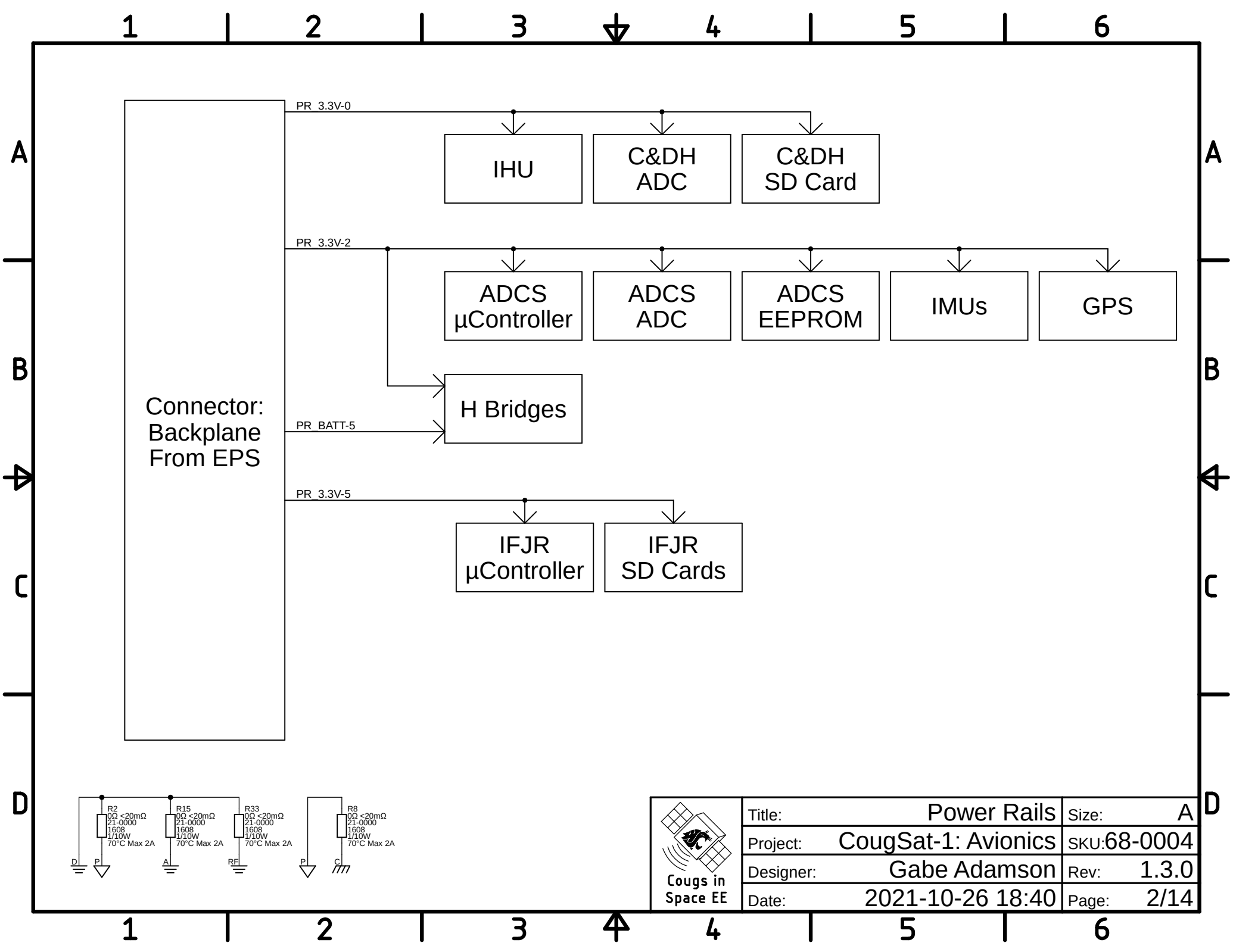


Page 1: Block Diagram
Page 2: Power Rails
Page 3: ADCS
Page 4: ADCS EEPROM
Page 5: H-bridges
Page 6: IMUs
Page 7: ADCS ADCs
Page 8: GPS
Page 9: IFJR

Page 10: IFJR Cards
Page 11: IHU
Page 12: C&DH SD Cards & ADC
Page 13: Power & ADCS Jacks
Page 14: Mechanical



Title:	Block Diagram	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	1/14



1

2

3



4

5

6

A

A

B

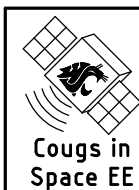
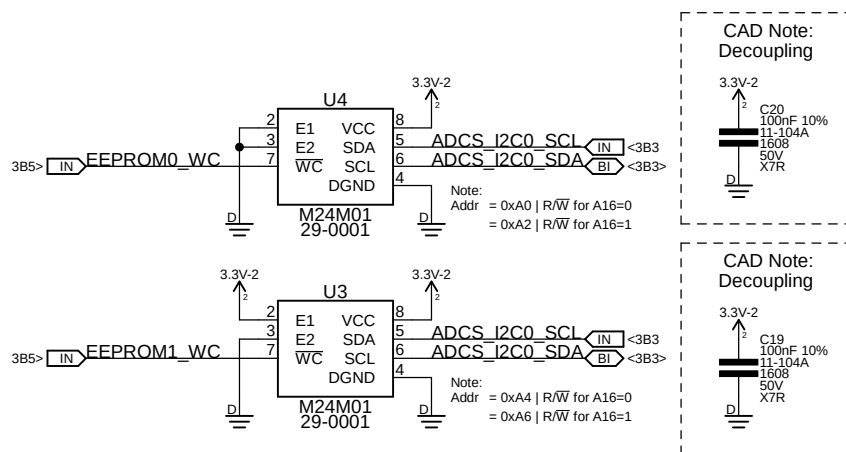
B

C

C

D

D



Title:	ADCS EEPROM	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	4/14

1

2

3



4

5

6

1

2

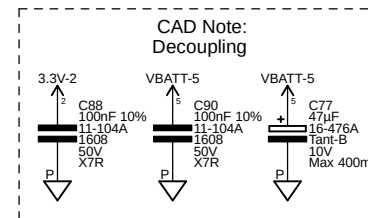
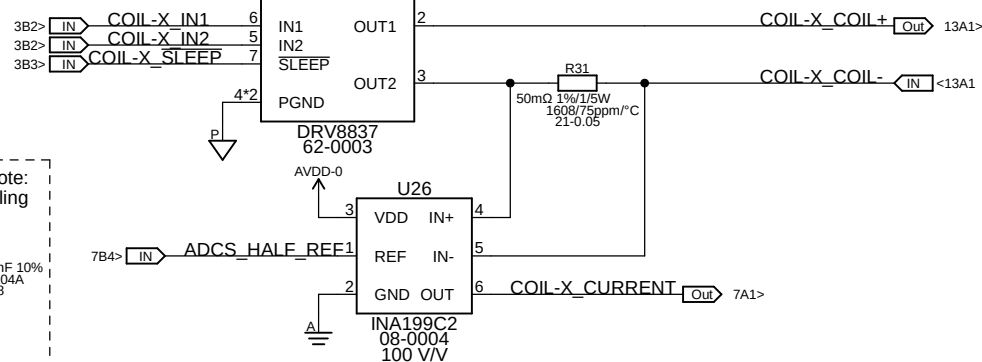
3

4

4

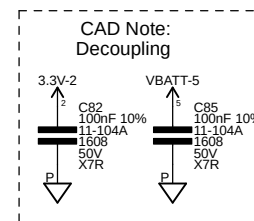
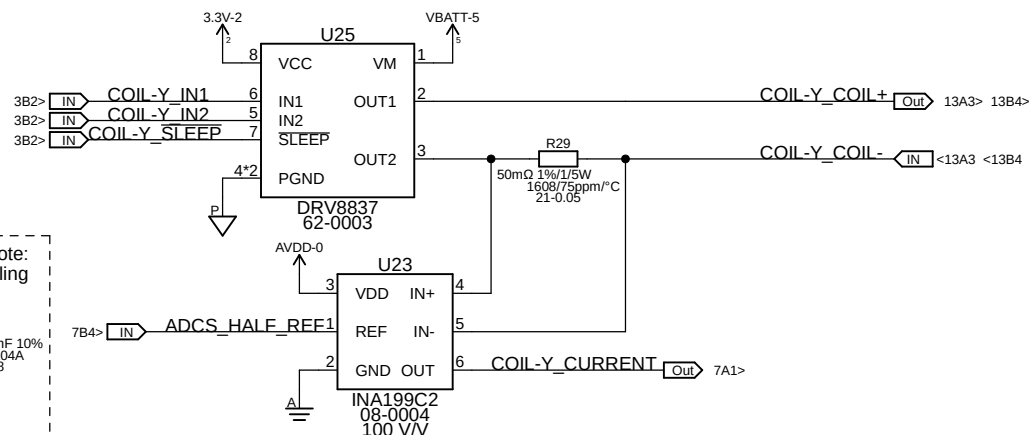
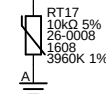
5

6



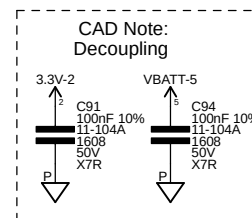
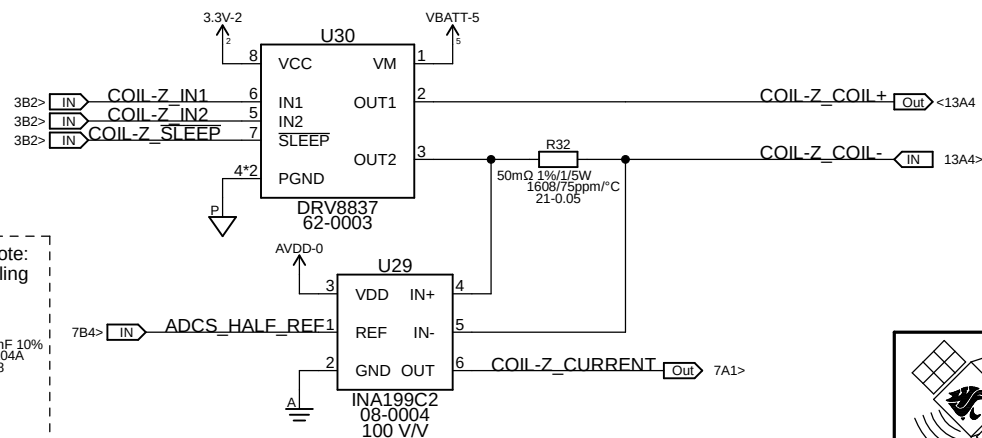
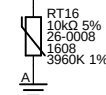
CAD Note:
Thermally
Connected

TEMP_H-BRIDGE-X Out 7A4>



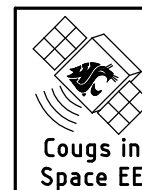
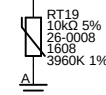
CAD Note:
Thermally
Connected

TEMP_H-BRIDGE-Y Out 7A4>



CAD Note:
Thermally
Connected

TEMP_H-BRIDGE-Z Out 7A4>



Title:	H-bridges	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	5/14

1

2

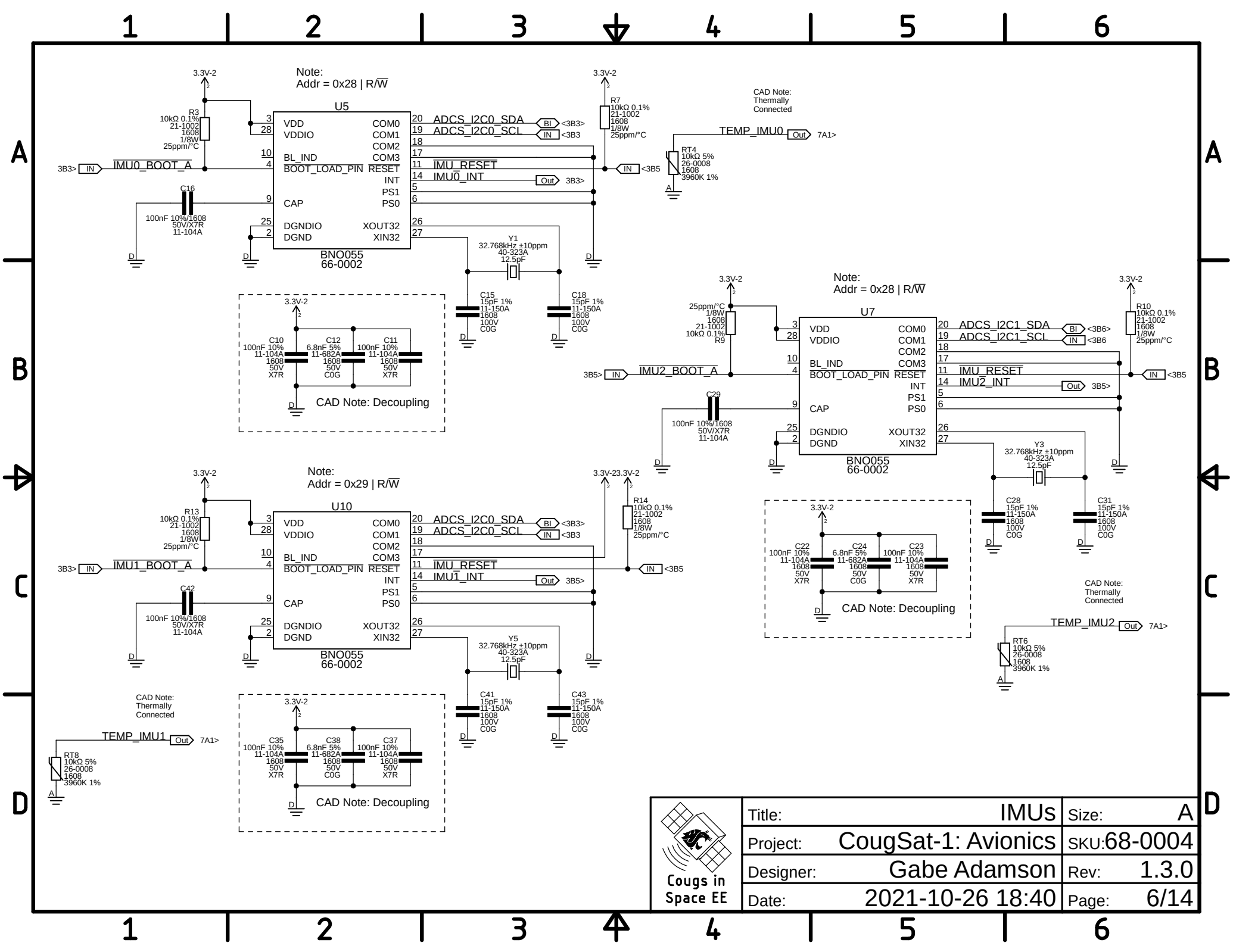
3

4

4

5

6



Title:	IMUs	Size:	A
Project:	CougsSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	6/14

1

2

3

4

5

6

A

B

C

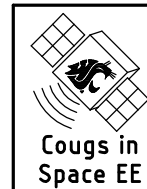
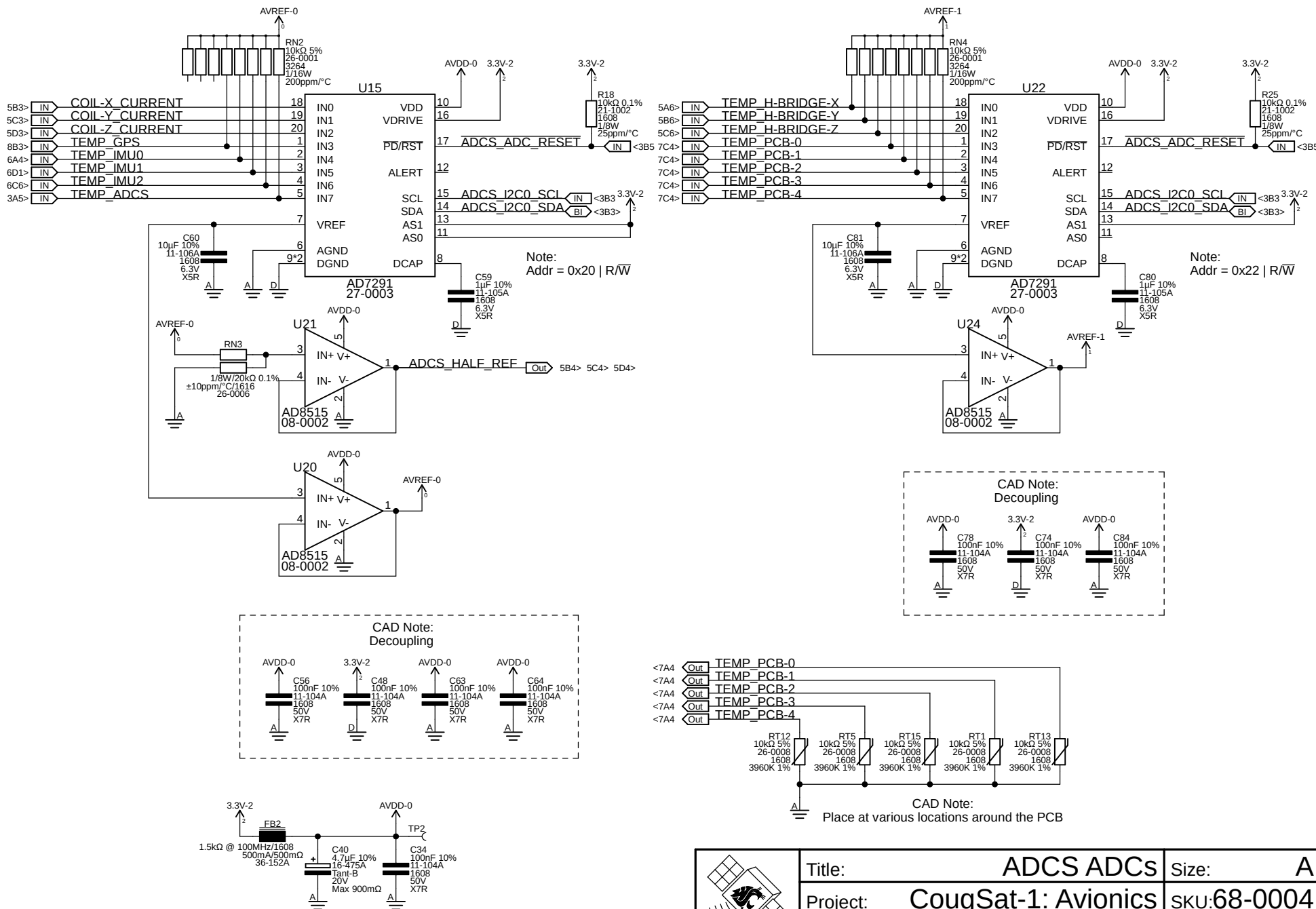
D

A

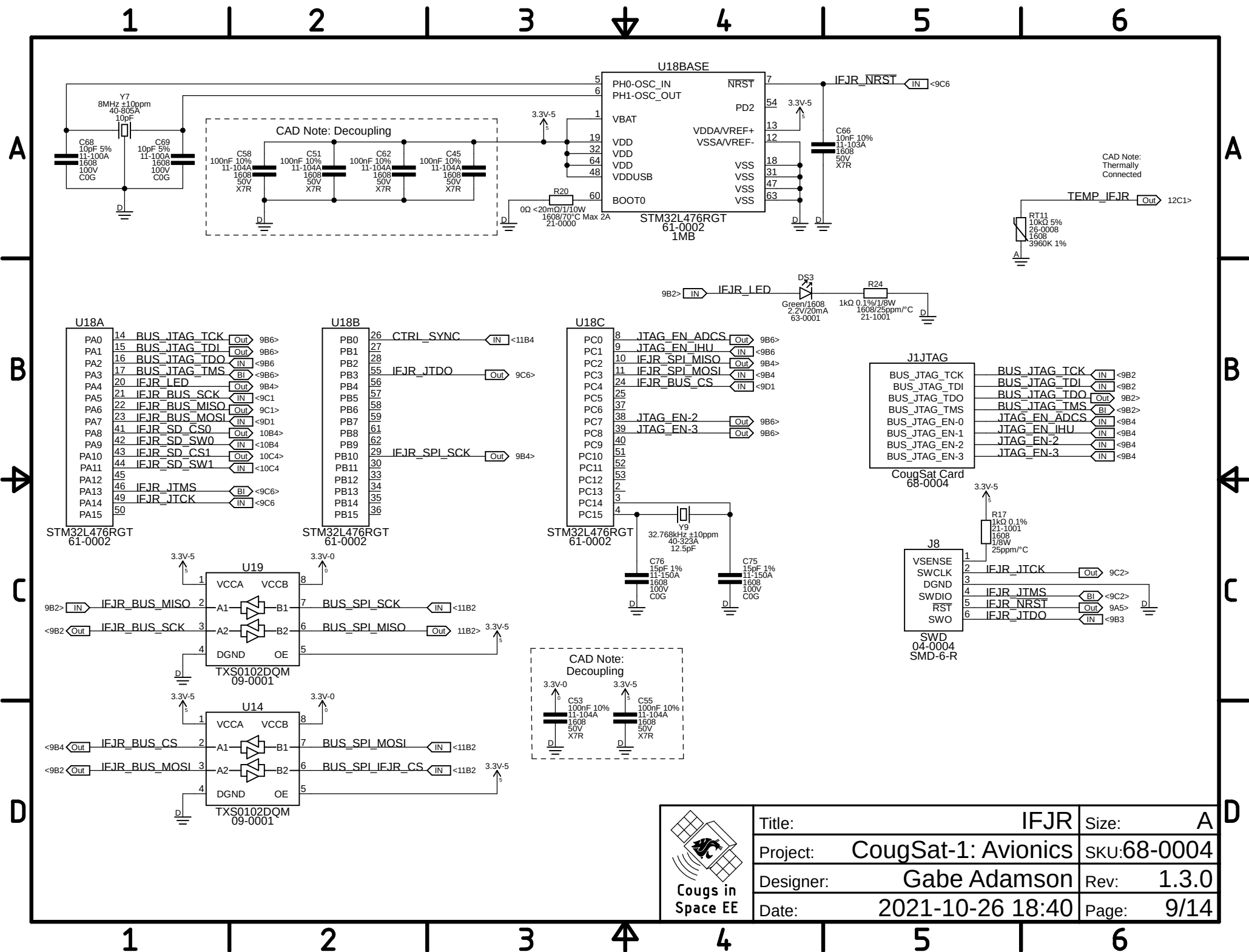
B

C

D



Title:	ADCS ADCs	Size:	A
Project:	CougsSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	7/14



1

2

3

↓

4

5

6

A

B

C

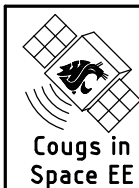
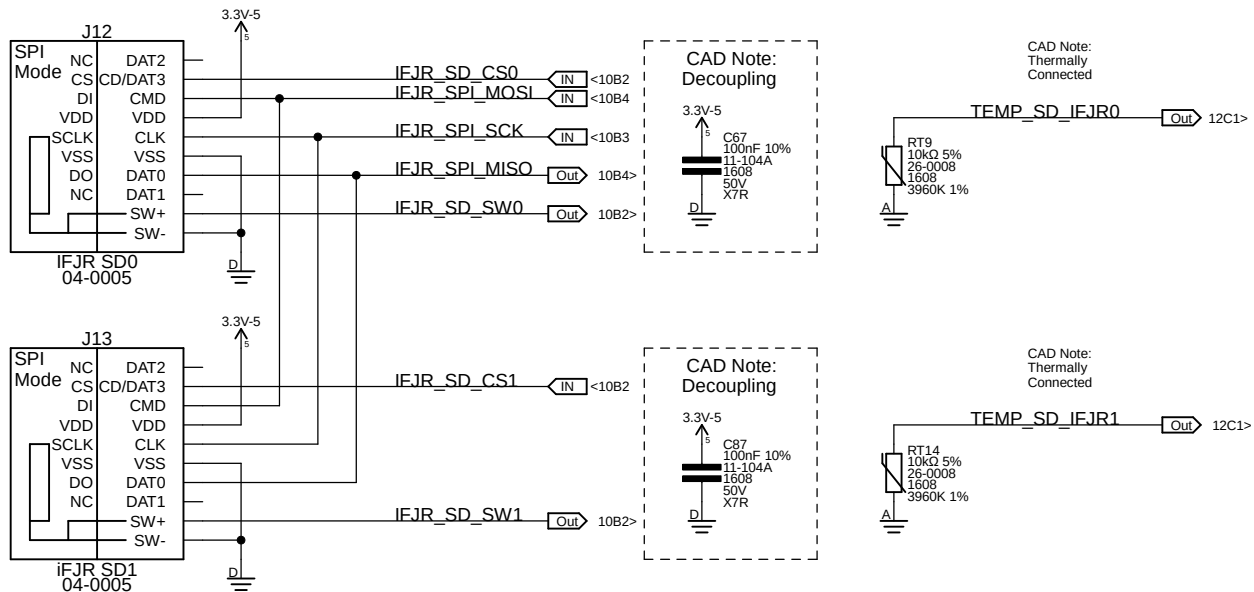
D

A

B

C

D



Title:	IFJR Cards		Size:	A
Project:	CougSat-1: Avionics		SKU:	68-0004
Designer:	Gabe Adamson		Rev:	1.3.0
Date:	2021-10-26 18:40		Page:	10/14

1

2

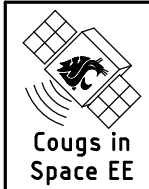
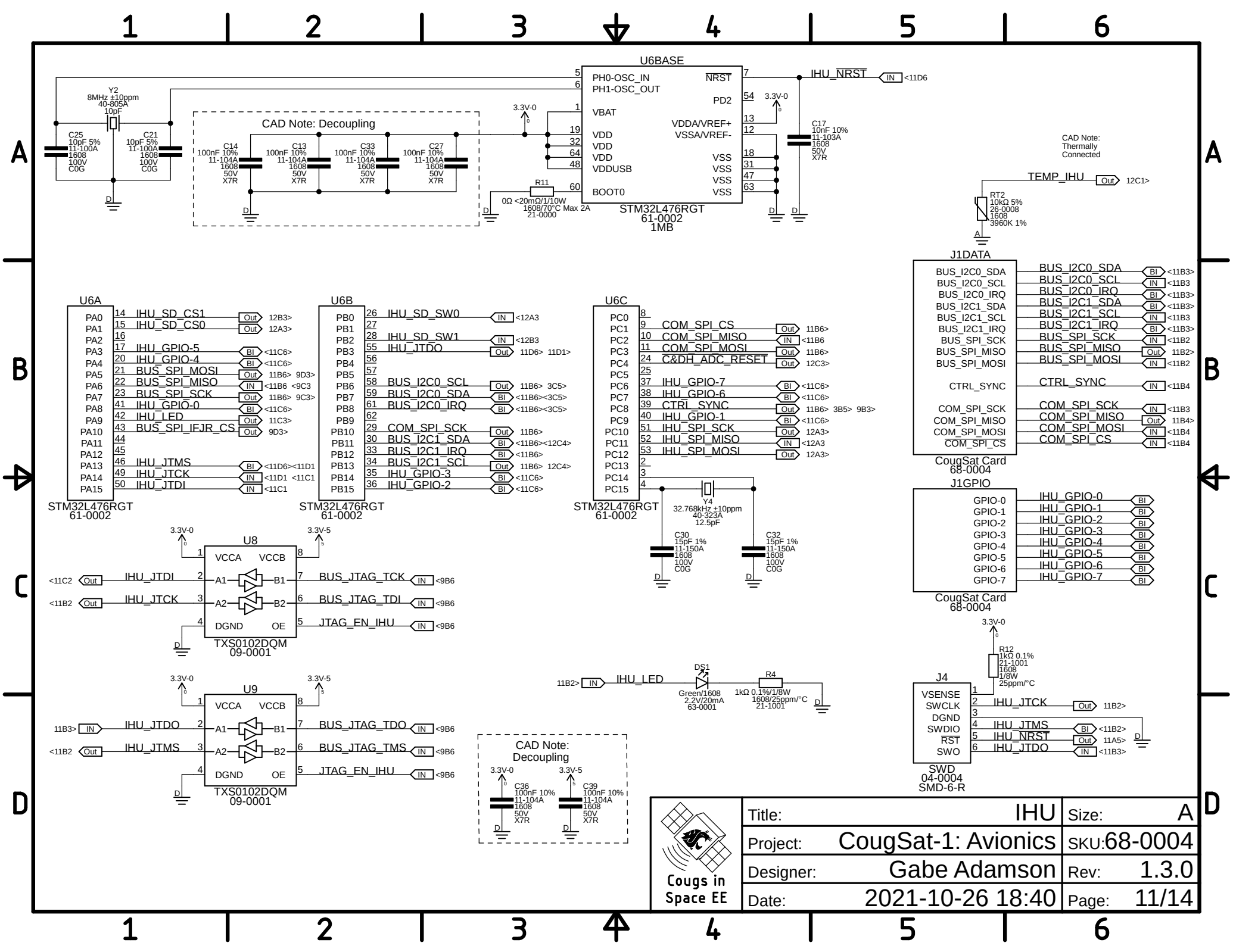
3

↑

4

5

6



Title:	IHU	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	11/14

1

2

3

4

5

6

A

A

B

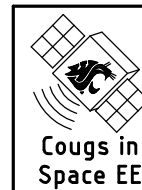
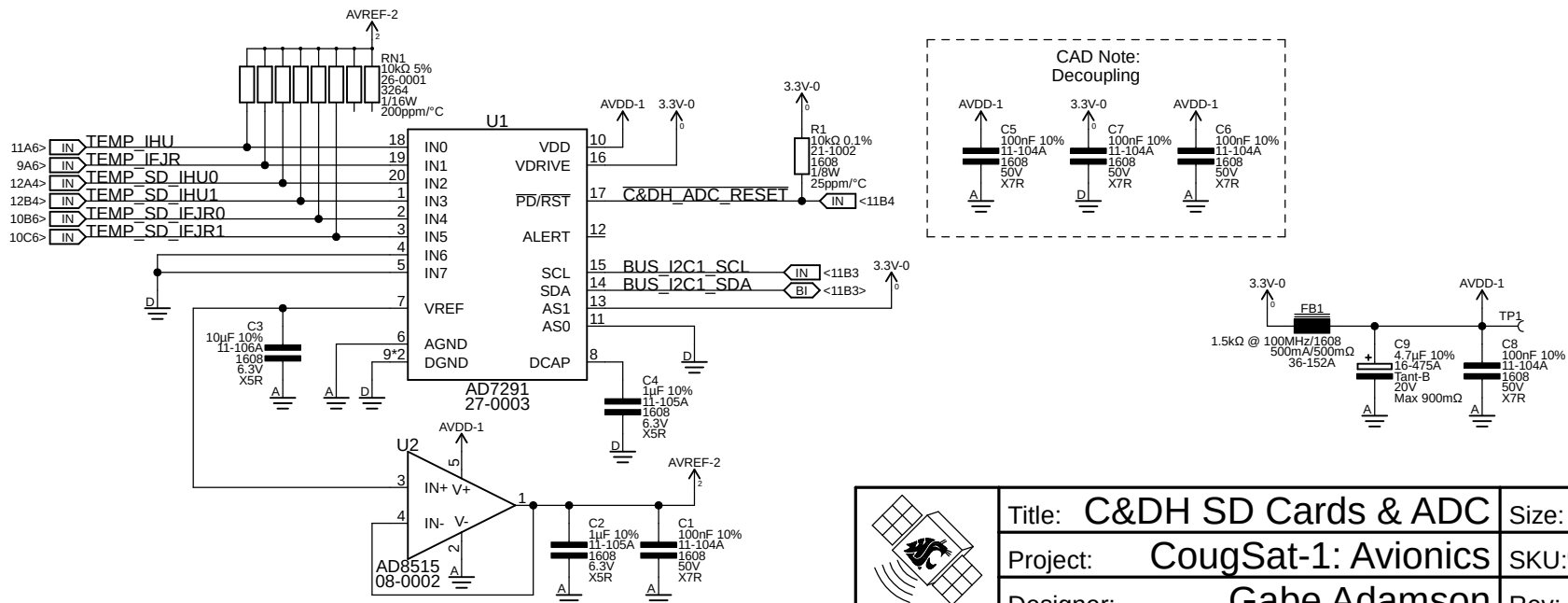
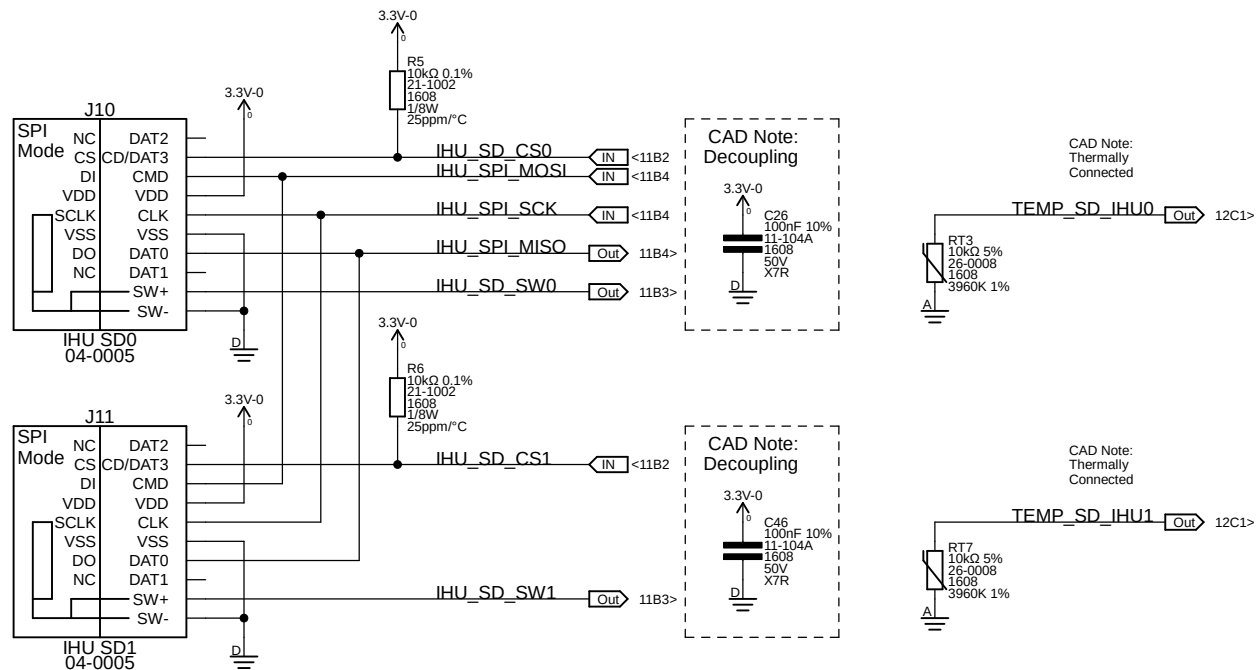
B

C

C

D

D



Title: C&DH SD Cards & ADC	Size: A
Project: CougSat-1: Avionics	SKU:68-0004
Designer: Gabe Adamson	Rev: 1.3.0
Date: 2021-10-26 18:40	Page: 12/14

1

2

3

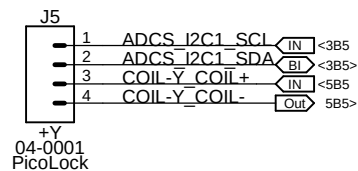
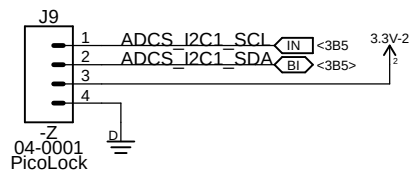
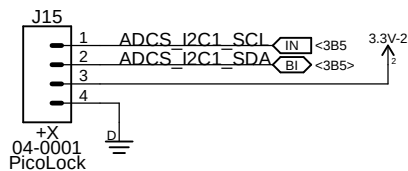
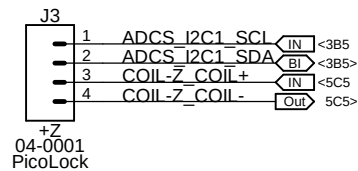
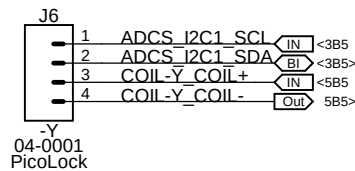
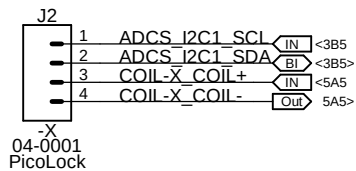


4

5

6

A



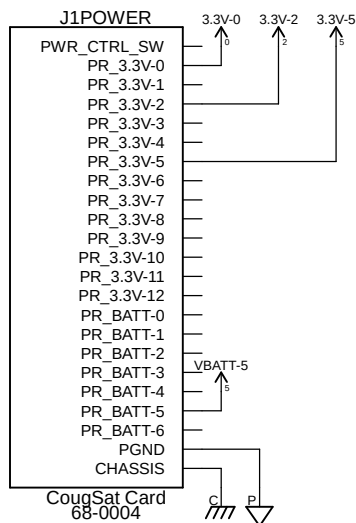
B

B



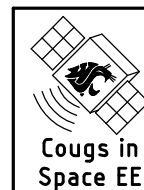
C

C



D

D



Cougs in
Space EE

Title:	Power & ADCS Jacks	Size:	A
Project:	Cougsat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	13/14

1

2

3



4

5

6

1

2

3



4

5

6

A

A

B

B

C

C

D

D

J1MECH-TOP

J1MECH-BOTTOM

CougSat Card
68-0004

CougSat Card
68-0004

LOGO1

Signature



Cougs in
Space EE

Title:	Mechanical	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.3.0
Date:	2021-10-26 18:40	Page:	14/14