

LOGO1  
Signature

Low Gain  
700mm  
Antenna  
Page 3

RF

Connector:  
To Comms  
Page 3

Antenna  
Deploy  
Release  
Page 3

Power

Connector:  
To EPS  
Page 3

GPS Patch  
Antenna  
Page 3

RF

Connector:  
GPS to ADCS  
Page 3

Photodiode  
Page 2

ADC  
Page 2

Power

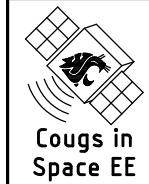
Connector:  
To ADCS  
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I<sup>2</sup>C

Thermistors  
Page 2

Variant: Main

Page 1: Block Diagram  
Page 2: Photodiode & ADC  
Page 3: Antennae  
Page 4: Mechanical



Title:	Block Diagram
Project:	CougSat-1: +X Panel
Designer:	Reid Collins
Date:	3/9/2020 22:13

Size:	A
SKU:	68-0006
Rev:	1.1.1
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1 2 3 4 5 6

A

B

C

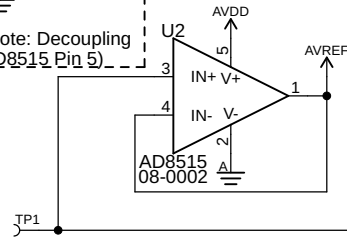
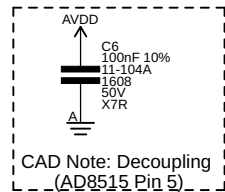
D

A

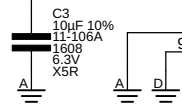
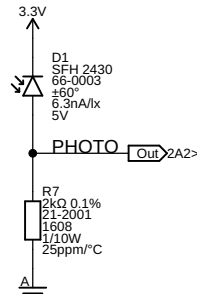
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C

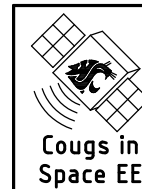
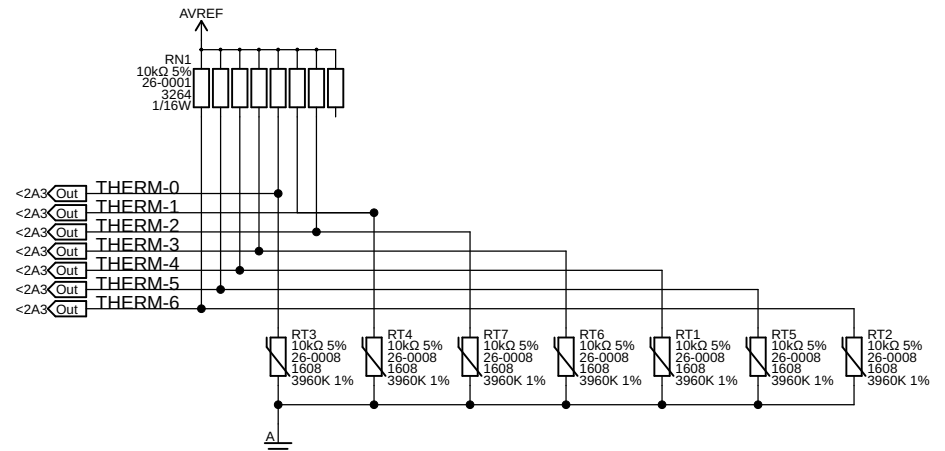
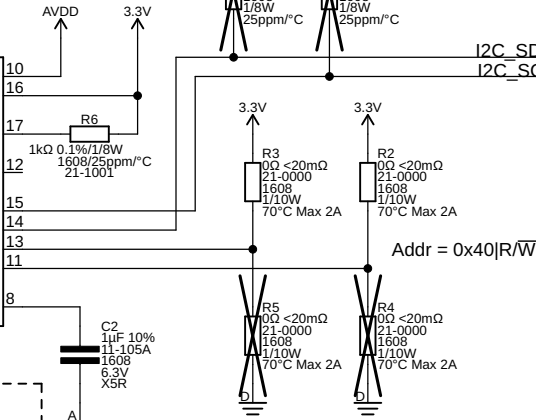
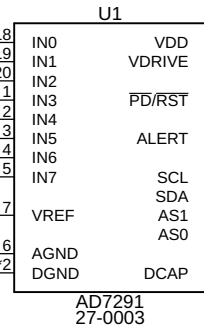
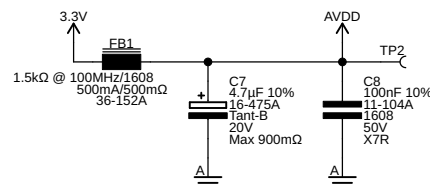
D



CAD Note:  
Place facing outwards  
in the center of the board



CAD Note: Decoupling for AD7291  
(C3 for Pin 10, C13 for Pin 16)



Title:	Photodiode & ADC	Size:	A
Project:	CougsSat-1: +X Panel	SKU:	68-0006
Designer:	Reid Collins	Rev:	1.1.1
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1

2

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4

4

5

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A

B

C

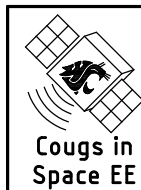
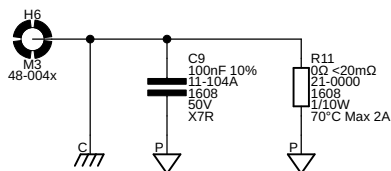
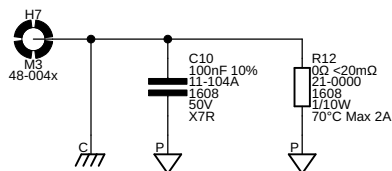
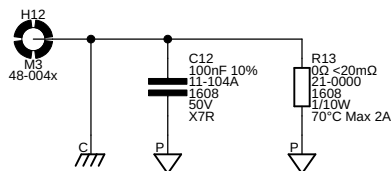
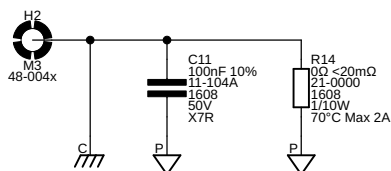
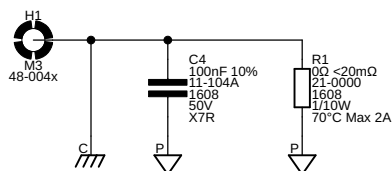
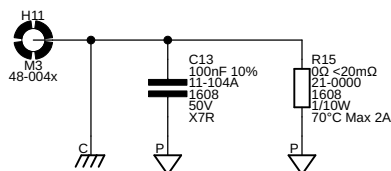
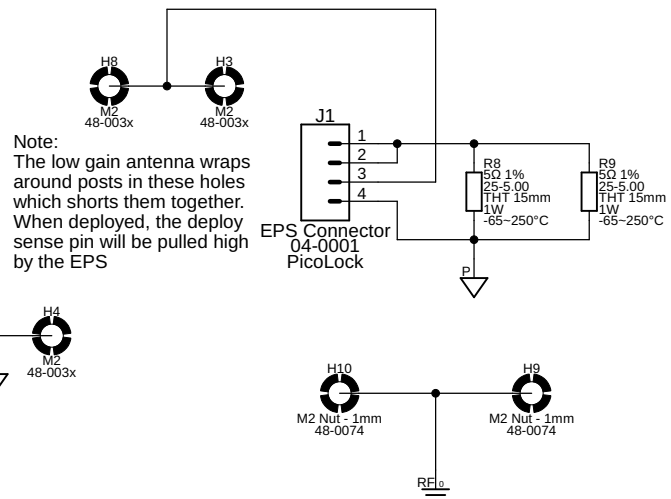
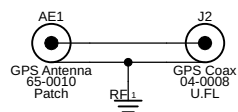
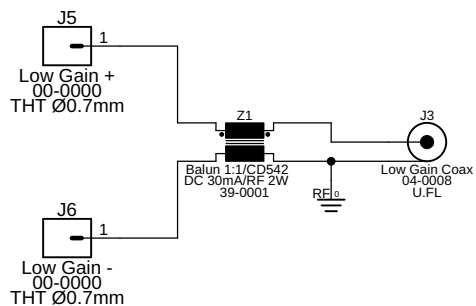
D

A

B

C

D



Title:	Antennae	Size:	A
Project:	CougSat-1: +X Panel	SKU:	68-0006
Designer:	Reid Collins	Rev:	1.1.1
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1

2

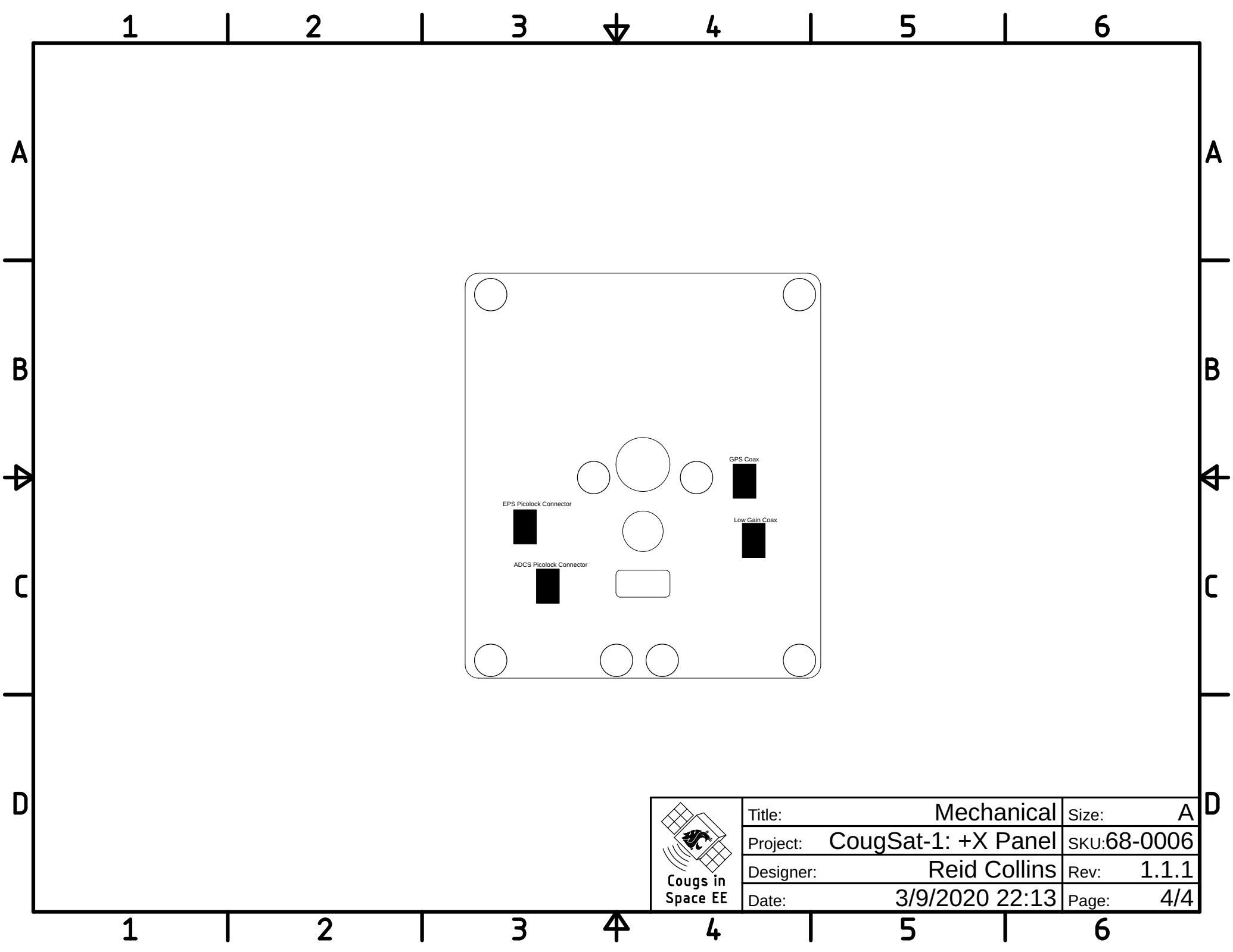
3

4

4

5

6



Cougs in  
Space EE

Title:	Mechanical	Size:	A
Project:	CougSat-1: +X Panel	SKU:	68-0006
Designer:	Reid Collins	Rev:	1.1.1
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