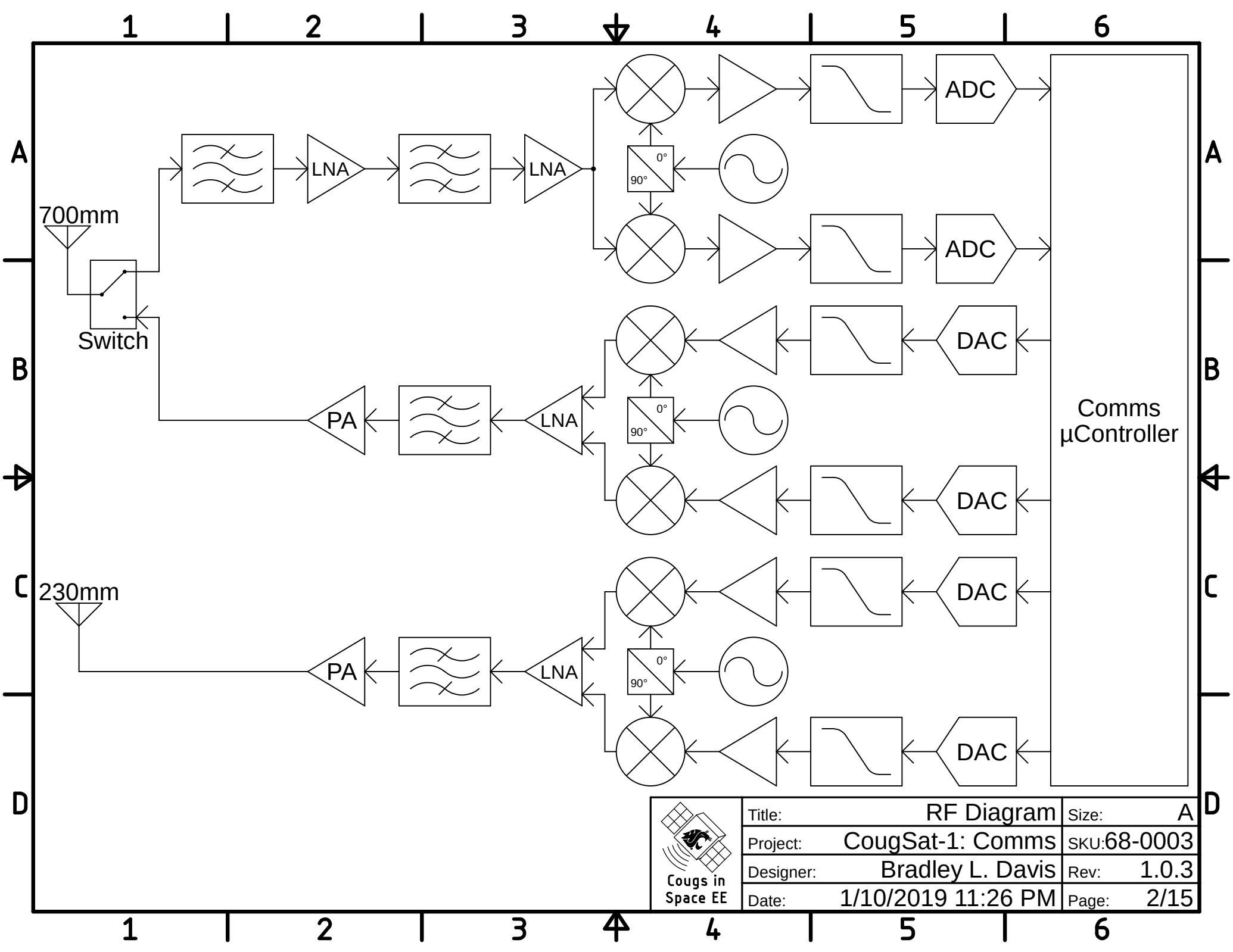


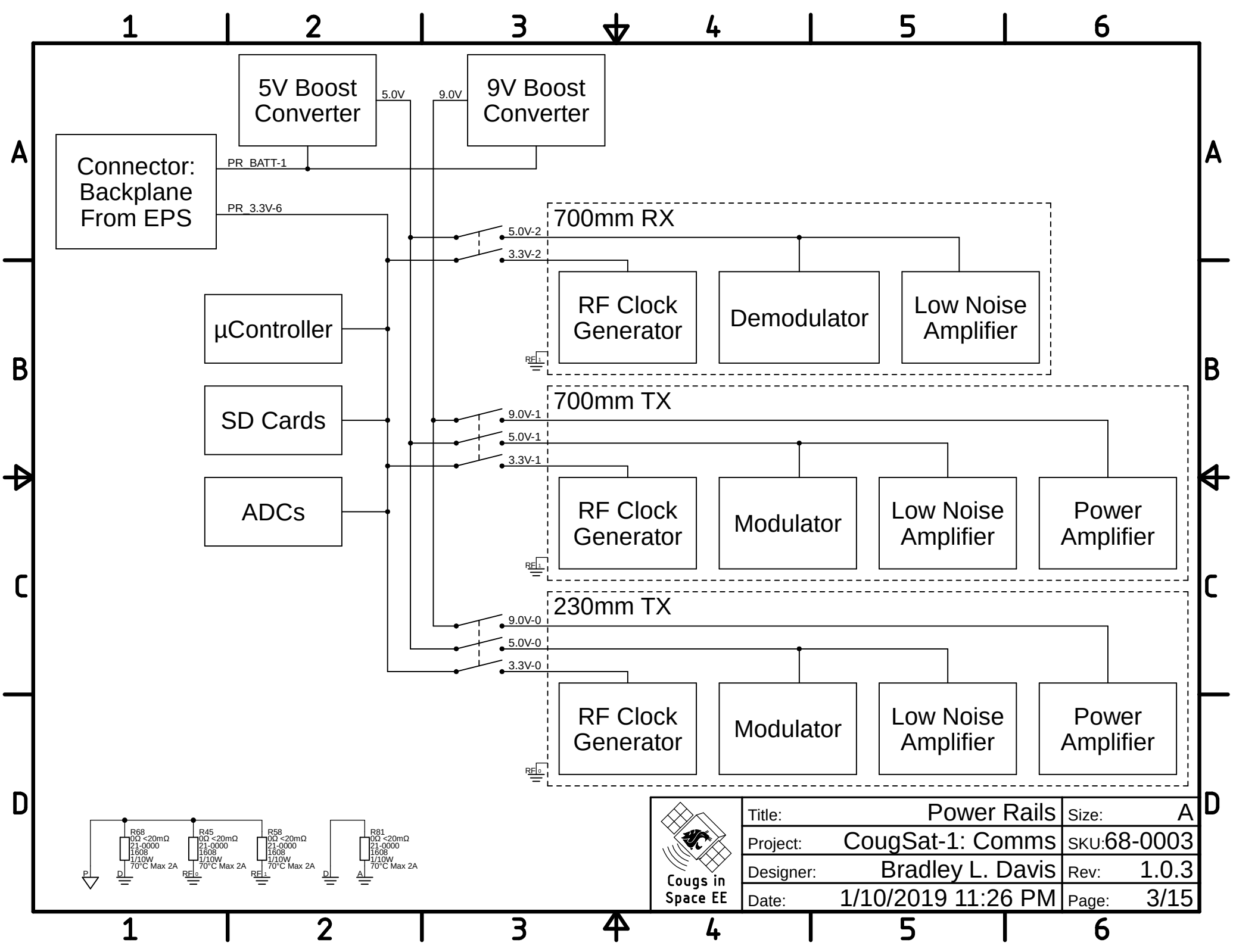
Page 1: Block Diagram
Page 2: RF Diagram
Page 3: Power Rails
Page 4: μ Controller
Page 5: ADCs
Page 6: Regulators
Page 7: Power Switching & LDOs
Page 8: RF Clock Generators
Page 9: Differential Drivers
Page 10: 230mm Downlink
Page 11: 700mm Downlink
Page 12: 700mm Downlink Amplifiers
Page 13: Demodulator
Page 14: Flash Memory
Page 15: Mechanical




Title:	Block Diagram	Size:	A
Project:	CougSat-1: Comms	SKU:	68-0003
Designer:	Bradley L. Davis	Rev:	1.0.3
Date:	1/10/2019 11:26 PM	Page:	1/15



Title:	RF Diagram		Size:	A
Project:	CougSat-1: Comms		SKU:	68-0003
Designer:	Bradley L. Davis		Rev:	1.0.3
Date:	1/10/2019 11:26 PM		Page:	2/15



 Cougs in Space EE	Title: Power Rails	Size: A
	Project: CougSat-1: Comms	SKU:68-0003
	Designer: Bradley L. Davis	Rev: 1.0.3
	Date: 1/10/2019 11:26 PM	Page: 3/15

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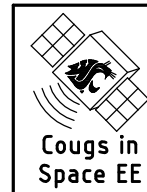
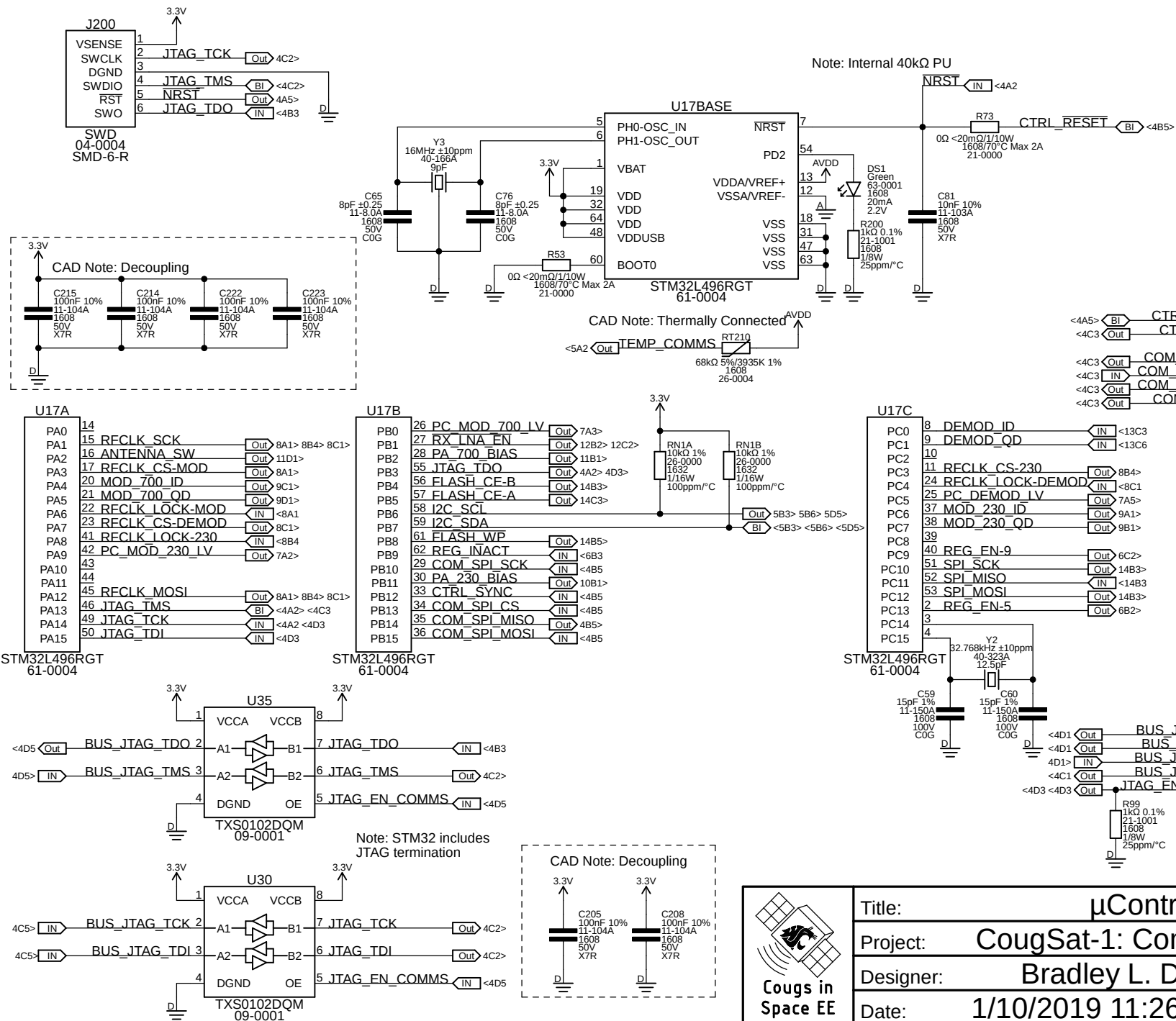
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Title:	μController		Size:	A
Project:	CougSat-1: Comms		SKU:	68-0003
Designer:	Bradley L. Davis		Rev:	1.0.3
Date:	1/10/2019 11:26 PM		Page:	4/15

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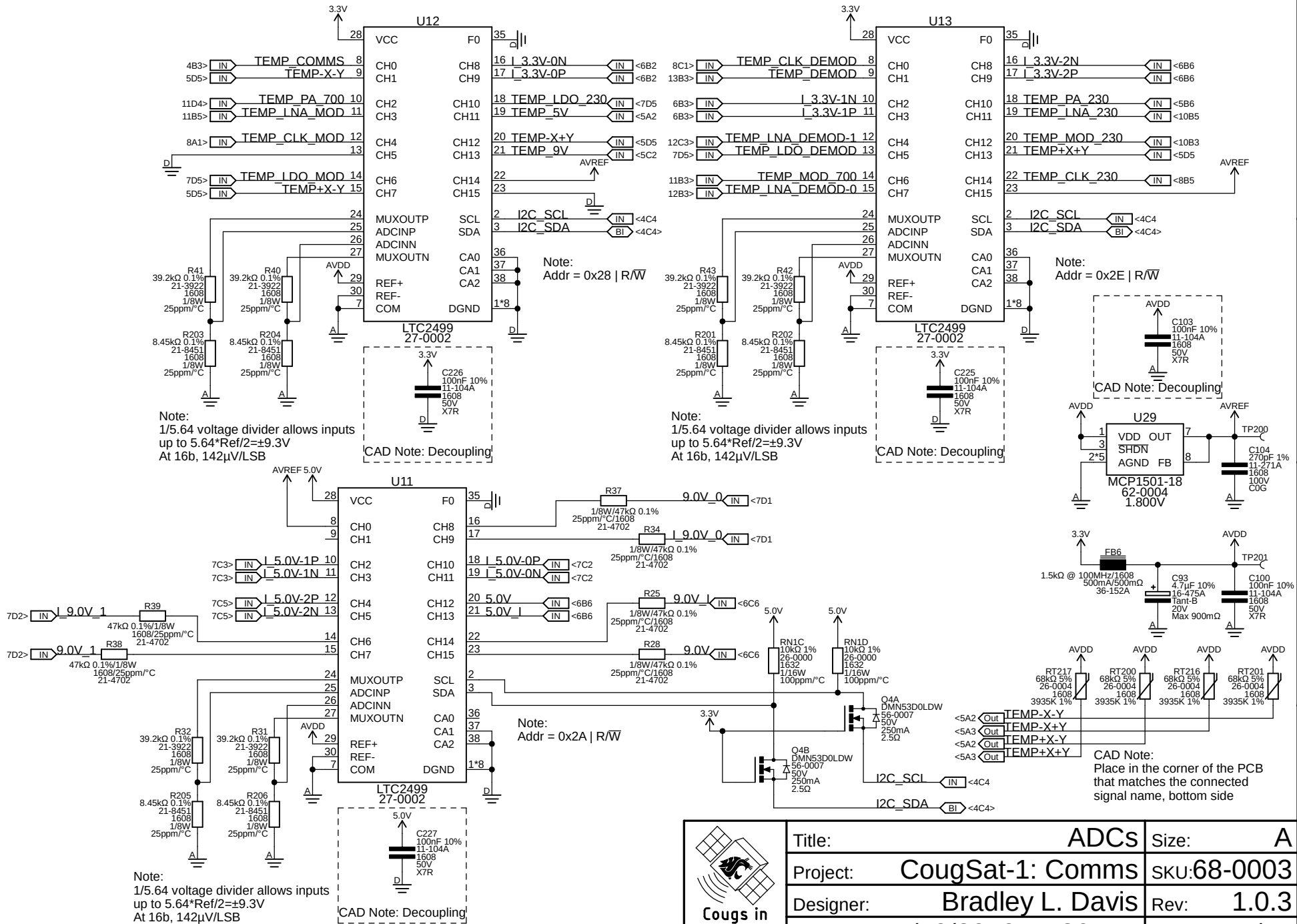
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Cougs in
Space EE

Title:	ADCs		Size:	A
Project:	CougSat-1: Comms		SKU:	68-0003
Designer:	Bradley L. Davis		Rev:	1.0.3
Date:	1/10/2019 11:26 PM		Page:	5/15

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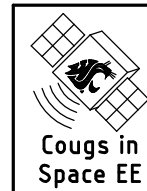
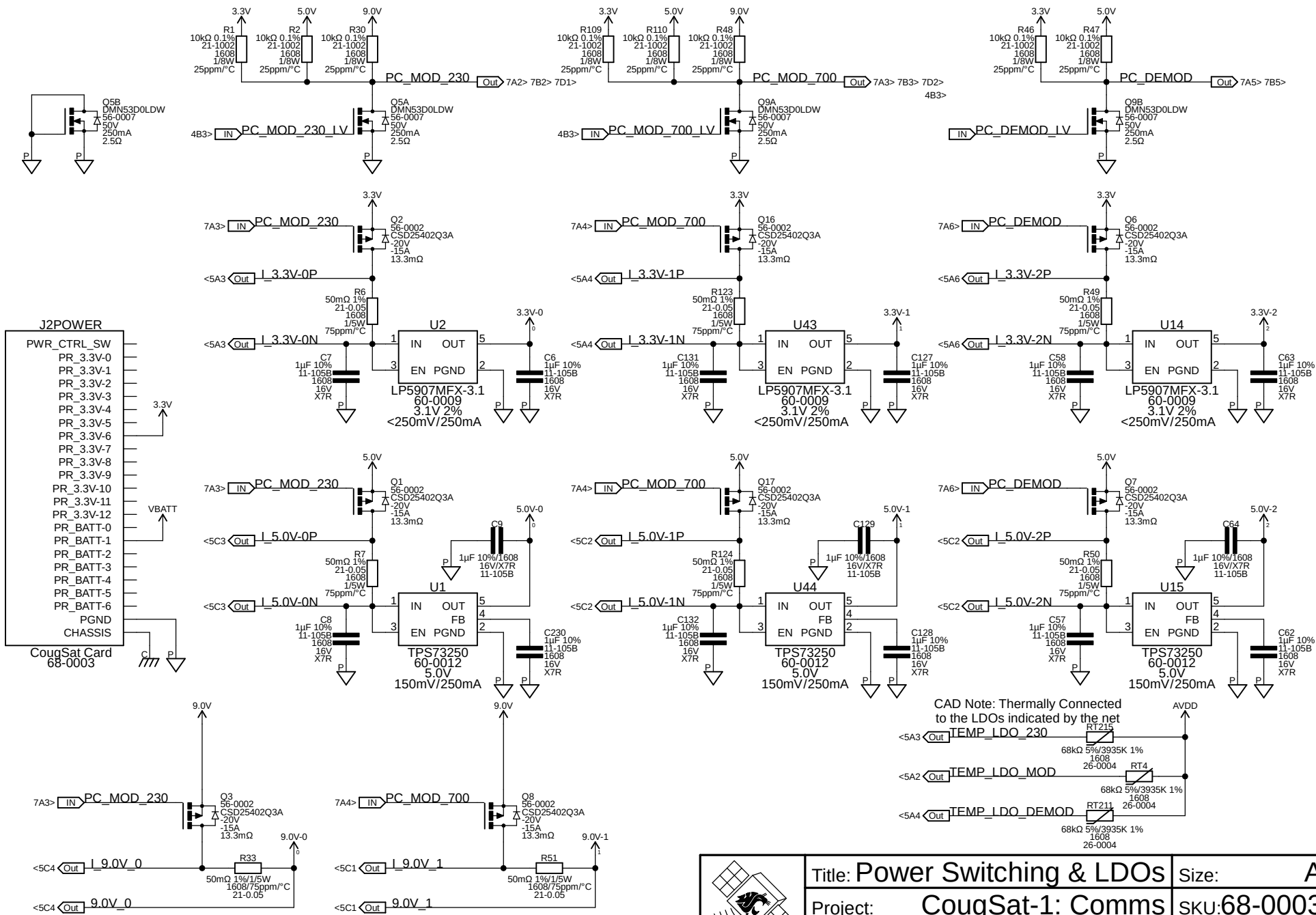
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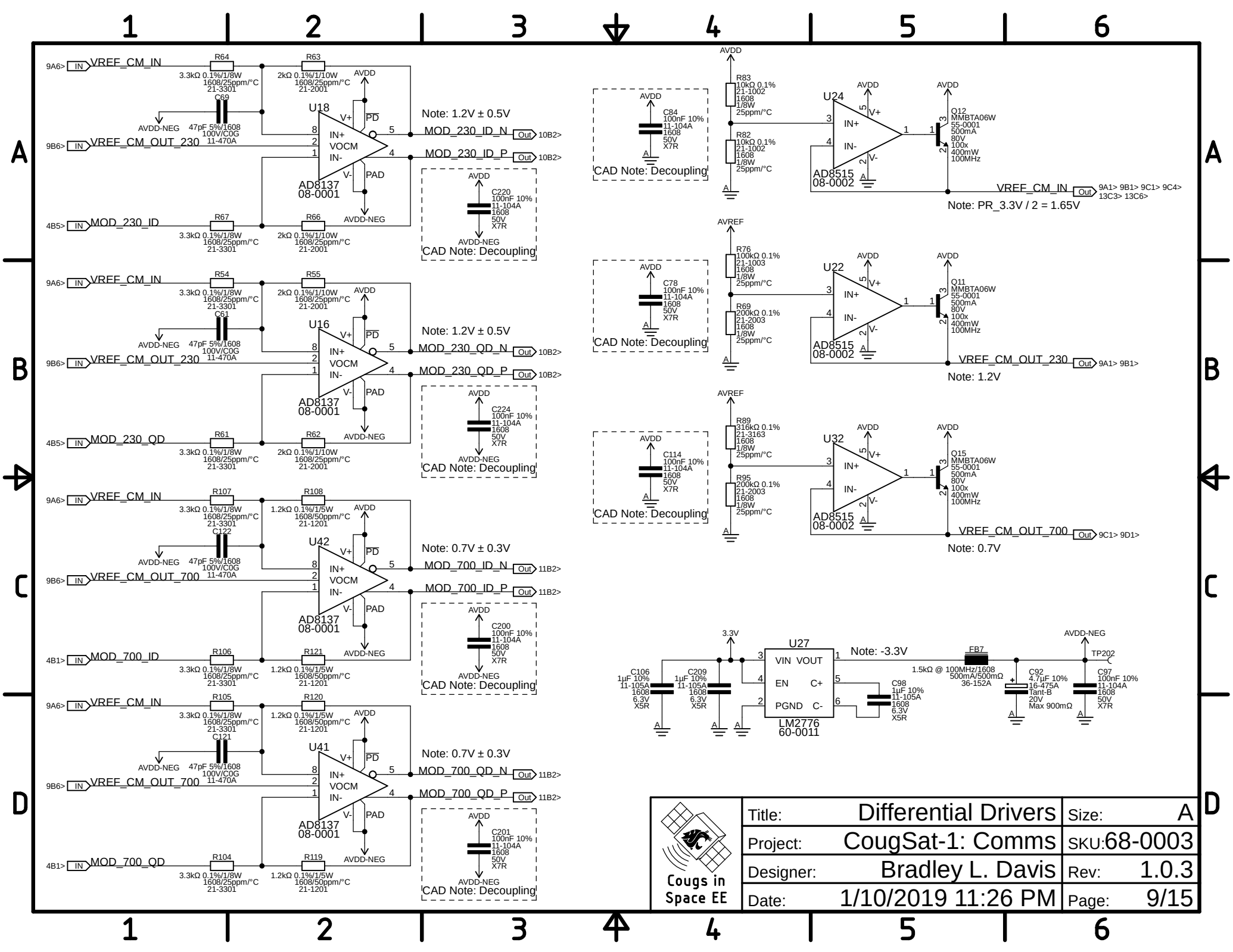
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Title: Power Switching & LDOs	Size: A
Project: CougSat-1: Comms	SKU: 68-0003
Designer: Bradley L. Davis	Rev: 1.0.3
Date: 1/10/2019 11:26 PM	Page: 7/15



 Cougs in Space EE	Title:	Differential Drivers	Size:	A
	Project:	CougSat-1: Comms	SKU:	68-0003
	Designer:	Bradley L. Davis	Rev:	1.0.3
	Date:	1/10/2019 11:26 PM	Page:	9/15

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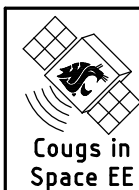
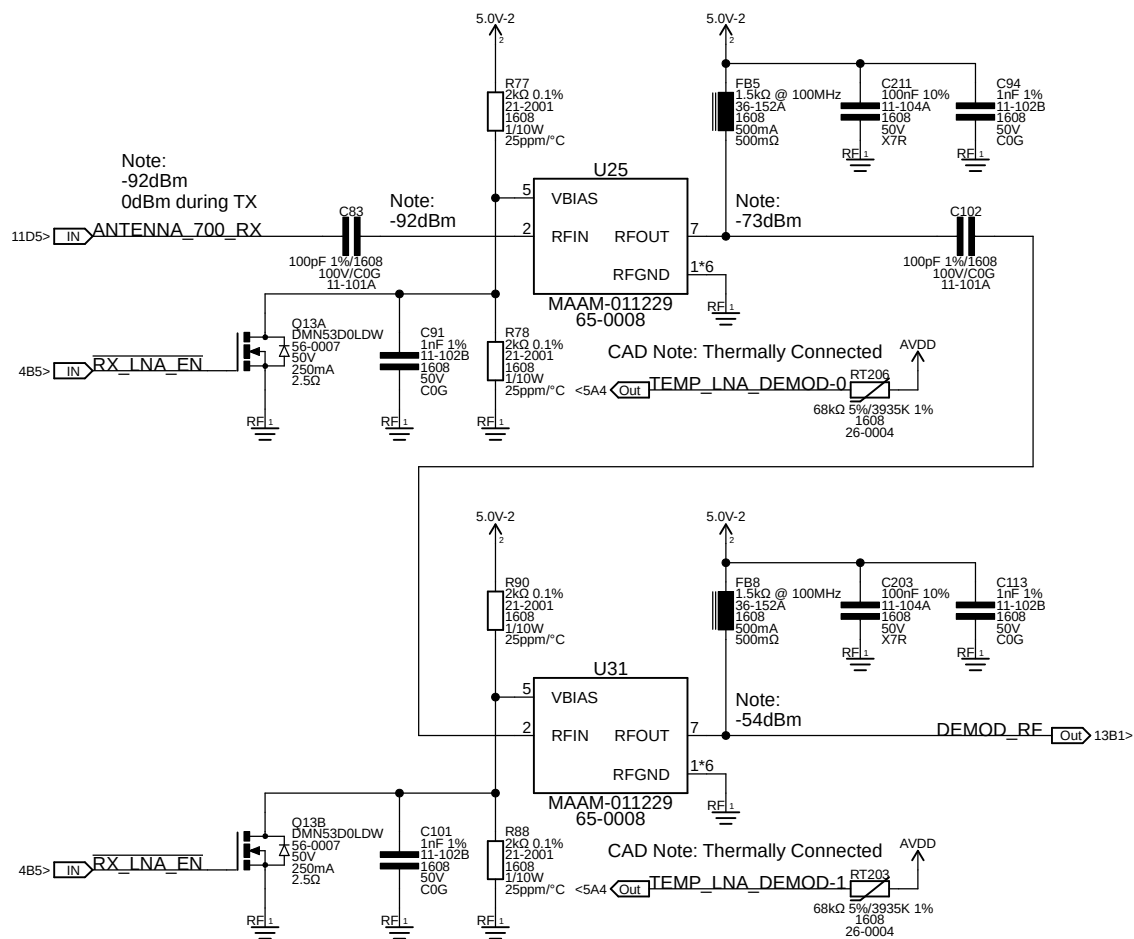
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Title: 700mm Uplink Amplifiers	Size: A
Project: CougSat-1: Comms	SKU:68-0003
Designer: Bradley L. Davis	Rev: 1.0.3
Date: 1/10/2019 11:26 PM	Page: 12/15

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J2MECH-TOP

J2MECH-BOTTOM

230mm
RF Circuits

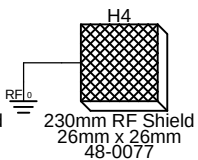
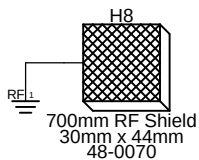
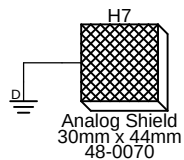
230mm Coax □

700mm Coax □

μController
Analog Circuits

700mm RF Circuits

SWD

CougSat Card
68-0003CougSat Card
68-0003

LOGO201

Speed Limit

LOGO1

Signature

LOGO200
Satellite 16mmCougs in
Space

Title:	Mechanical	Size:	A
Project:	CougSat-1: Comms	SKU:	68-0003
Designer:	Bradley L. Davis	Rev:	1.0.3
Date:	1/10/2019 11:26 PM	Page:	15/15