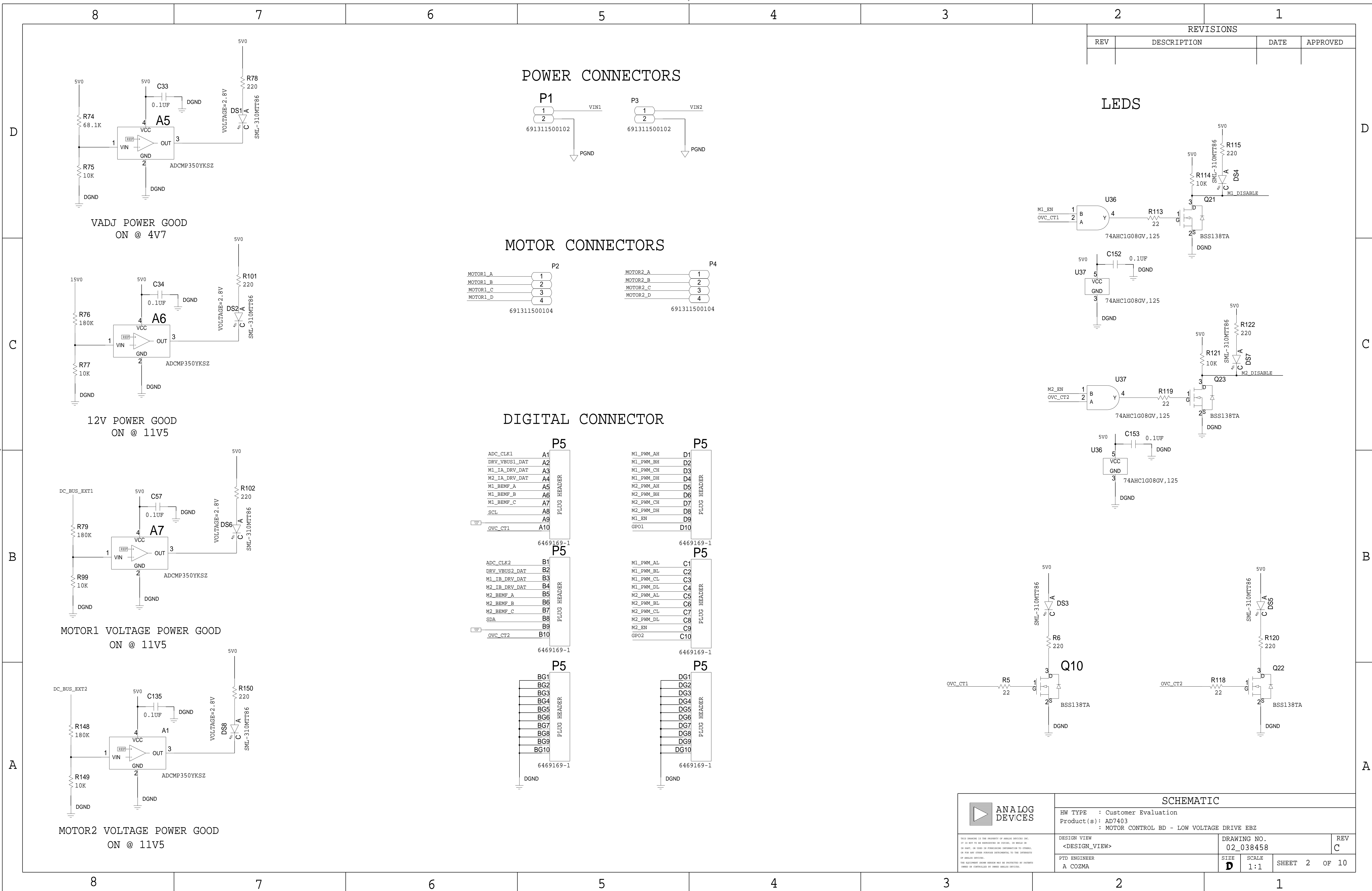
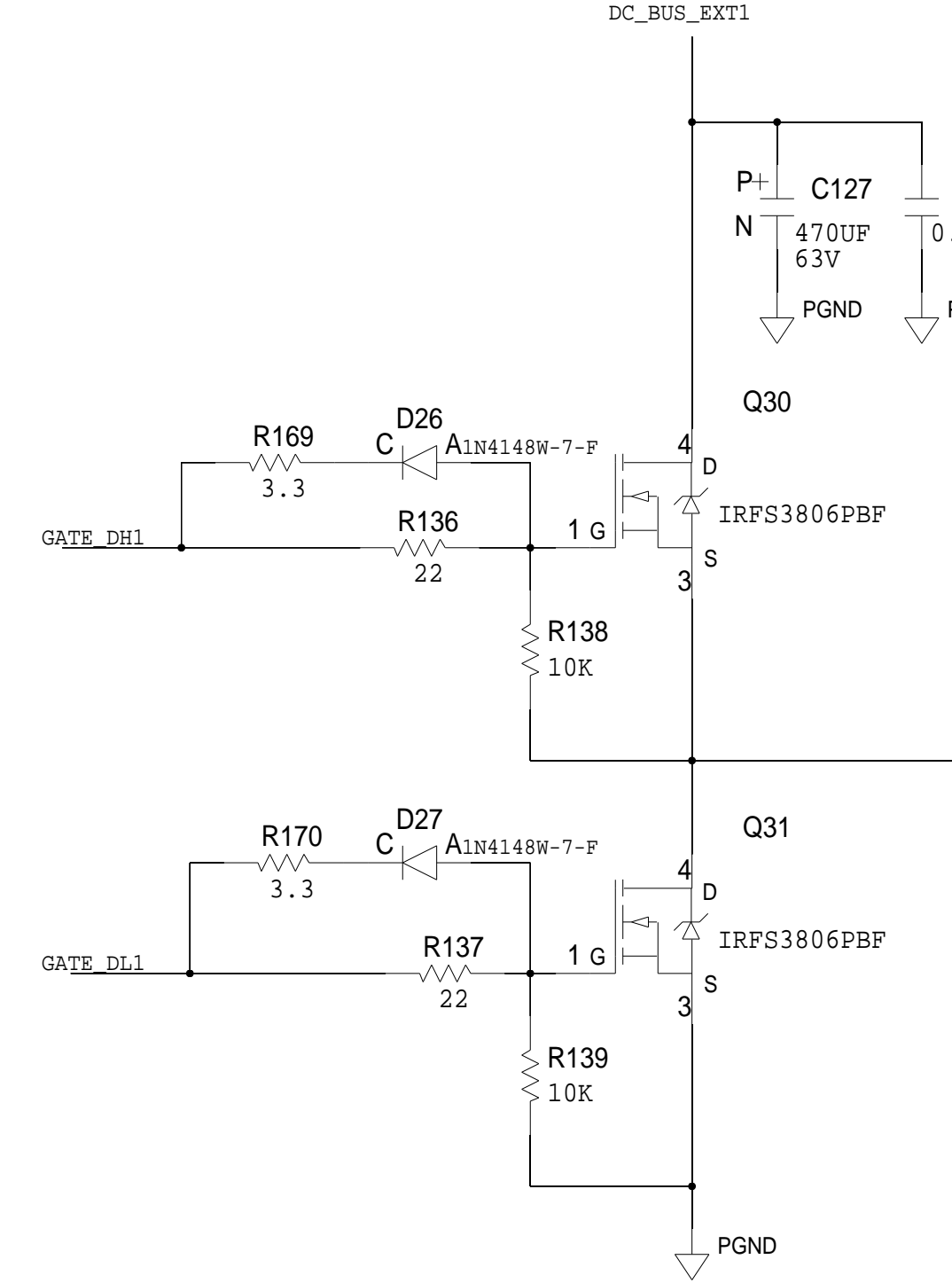
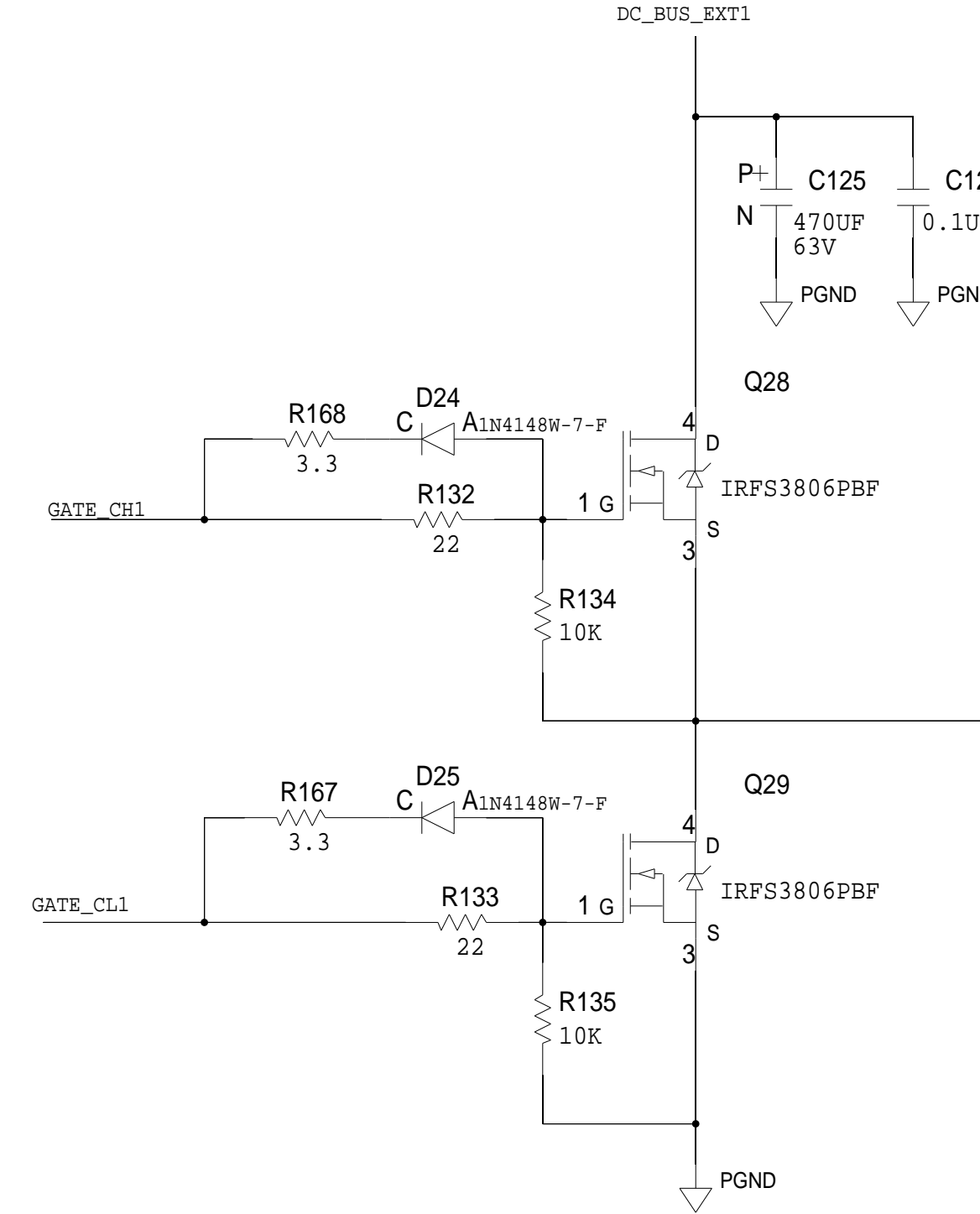
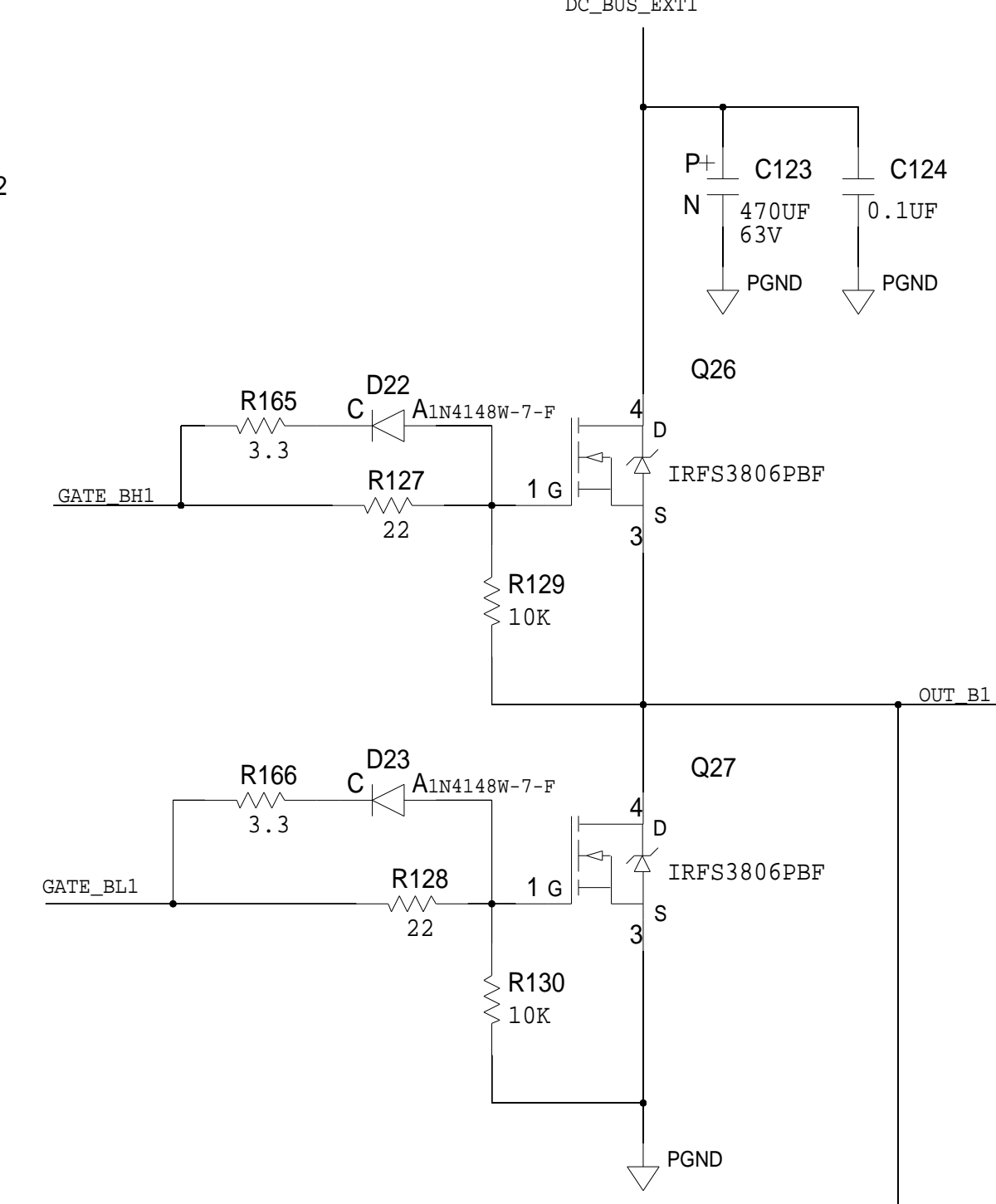
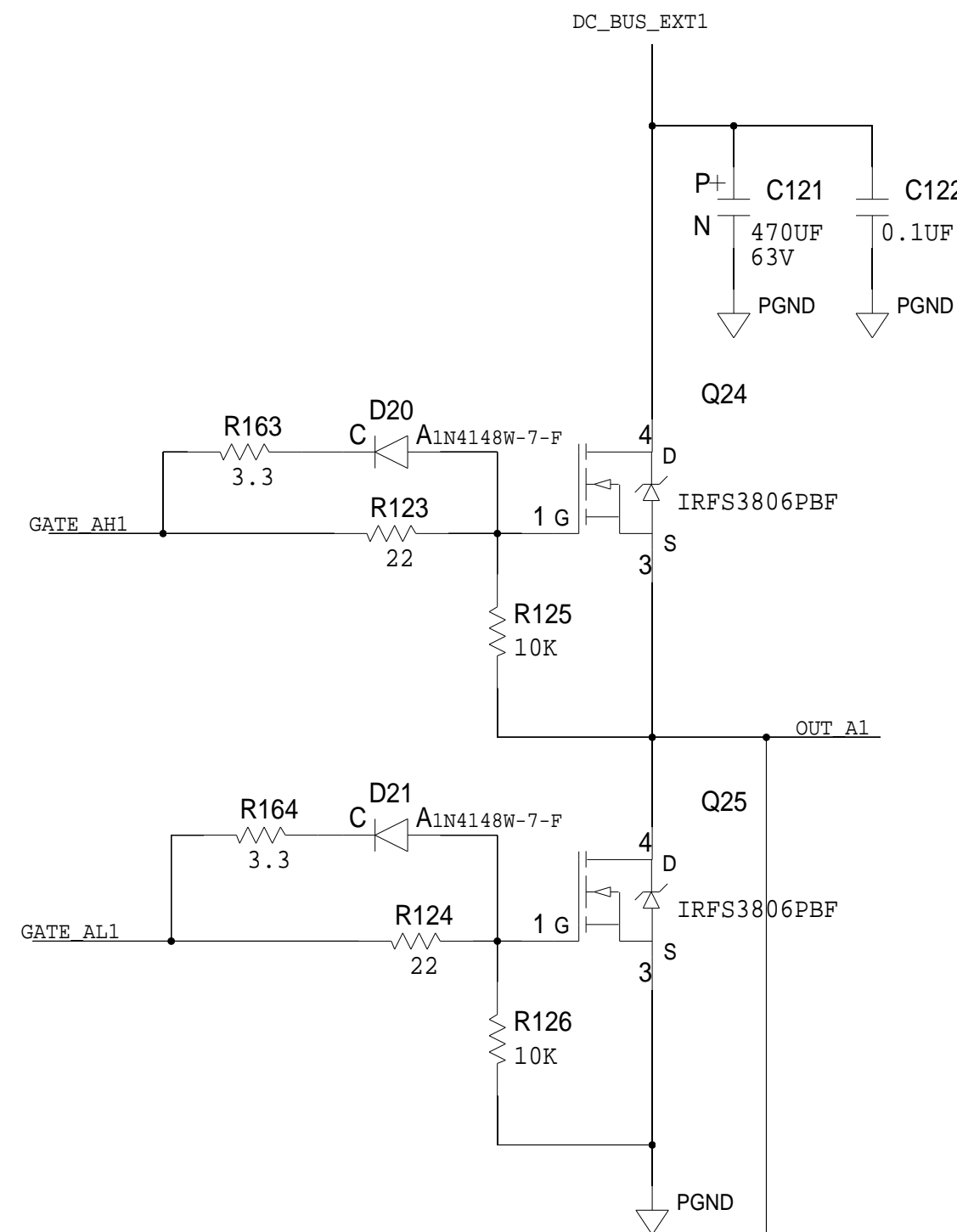
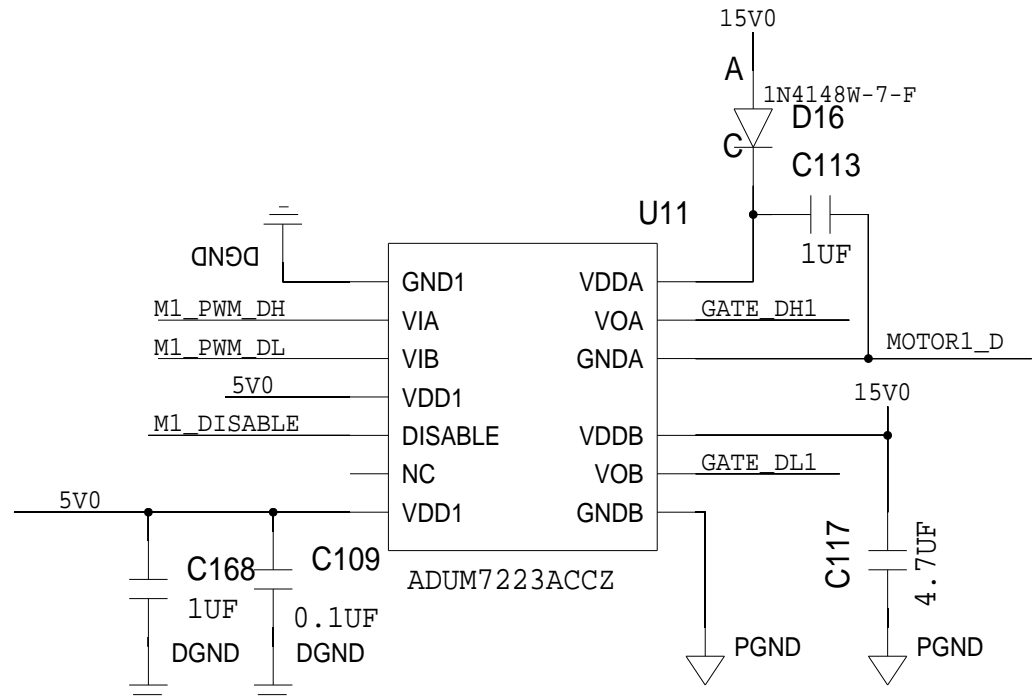
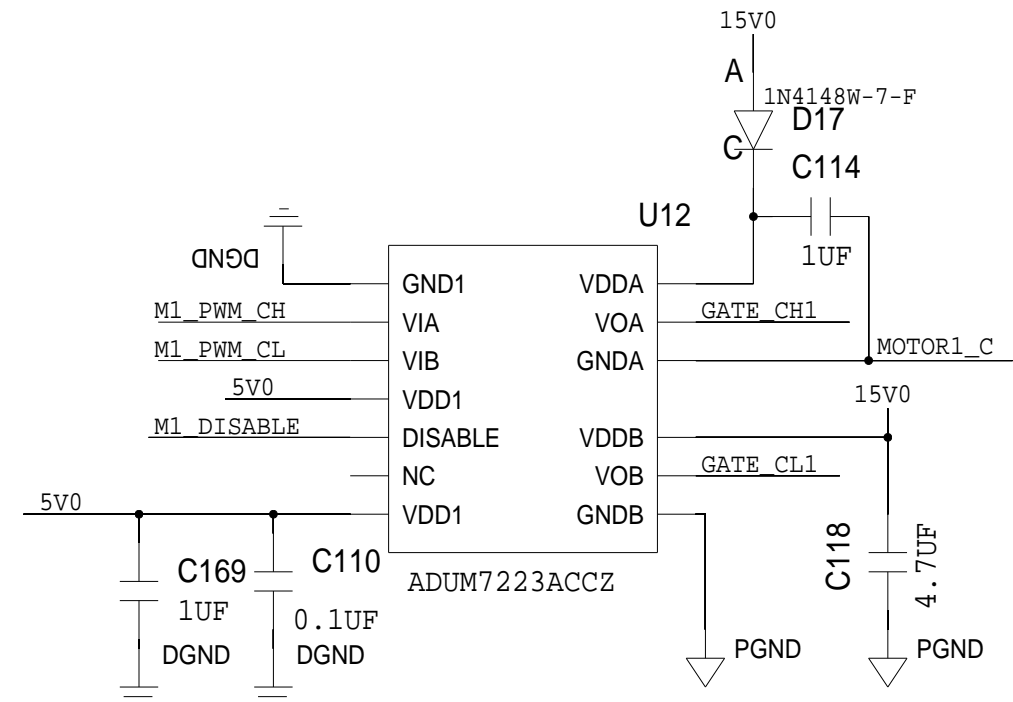
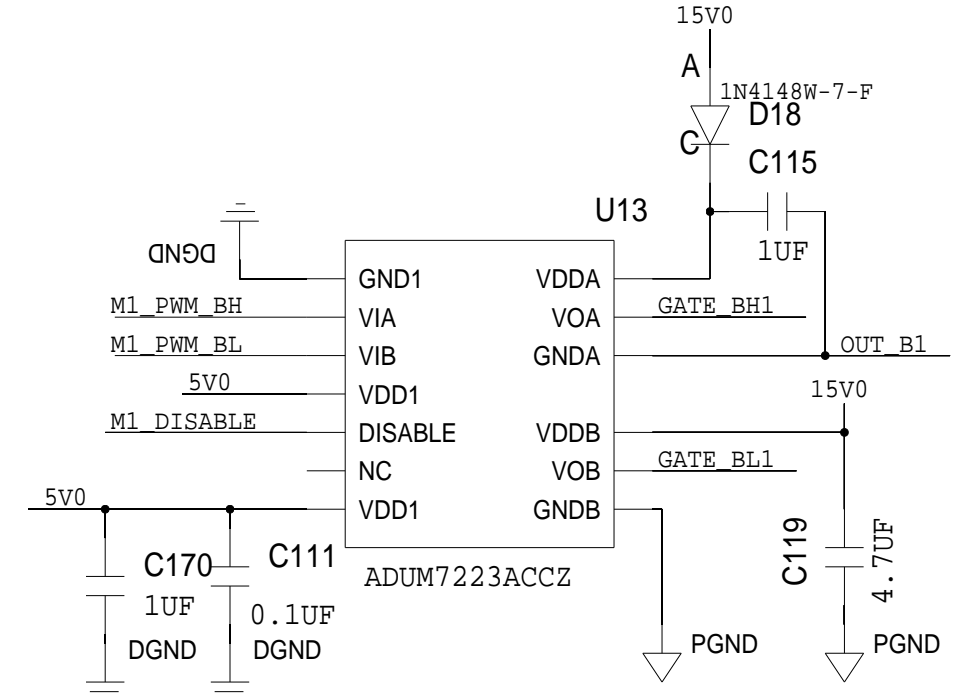
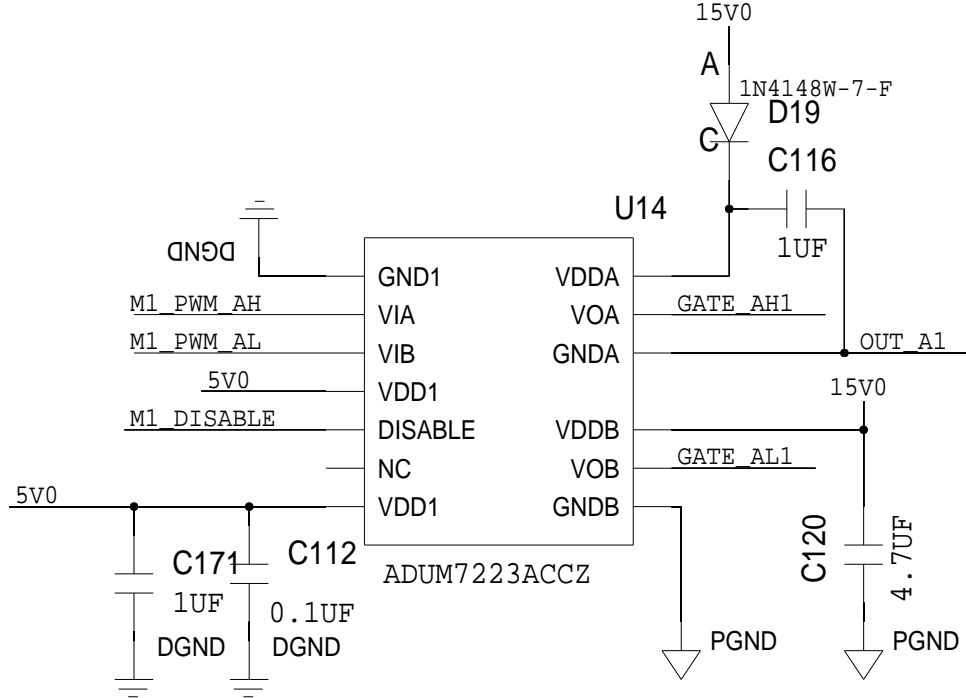


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D	THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED IN FURNISHING INFORMATION TO OTHERS, OR FOR ANY OTHER PURPOSE DETRIMENTAL TO THE INTERESTS OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREON MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY ANALOG DEVICES.					<div>JUMPER TABLE</div> <table><tr><td>JP#</td><td>ON</td><td>OFF</td></tr><tr><td>1</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr></table> <div>* SEE ASSEMBLY INSTRUCTIONS</div>			JP#	ON	OFF	1			2			3			4			5			<div>REVISIONS</div> <table><tr><th>REV</th><th>DESCRIPTION</th><th>DATE</th><th>APPROVED</th></tr><tr><td>A</td><td>ORIGINATION NHR-038837</td><td>APR-2014</td><td>A.C.</td></tr><tr><td>B</td><td>CHANGES PER ECR-048644</td><td>APR-2014</td><td>A.C.</td></tr><tr><td>C</td><td>CHANGES PER ECR-053851</td><td>JUN-2015</td><td>M.B.</td></tr></table>										REV	DESCRIPTION	DATE	APPROVED	A	ORIGINATION NHR-038837	APR-2014	A.C.	B	CHANGES PER ECR-048644	APR-2014	A.C.	C	CHANGES PER ECR-053851	JUN-2015	M.B.
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RELAY CONTROL CHART																																																				
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B						<div>REV C CHANGES</div> <div>C49, C107 - 10UF 25V</div> <div>R66, R88 - 4K7</div>																																														
A						<div>SCHEMATIC</div> <div><div>TEMPLATE ENGINEER R MARION</div><div>DATE 20FEB07</div></div> <div><div>HARDWARE SERVICES R MACDONALD</div><div>20FEB07</div></div> <div><div>HARDWARE SYSTEMS J BURKE</div><div>20FEB07</div></div> <div><div>TEST ENGINEER M KNAPP</div><div>20FEB07</div></div> <div><div>COMPONENT ENGINEER G CELEDONIO</div><div>20FEB07</div></div> <div><div>TEST PROCESS N/A</div><div>N/A</div></div> <div><div>HARDWARE RELEASE R AMARILLE</div><div>20FEB07</div></div> <div><div>DESIGNER K PILARCA</div><div>09JUL14</div></div> <div><div>PTD ENGINEER A COZMA</div><div>09JUL14</div></div> <div><div>CHECKER N/A</div><div>N/A</div></div>										<div><div>ANALOG DEVICES</div></div> <div>HW TYPE : Customer Evaluation Product(s): AD7403 : MOTOR CONTROL BD - LOW VOLTAGE DRIVE EBZ PACKAGE : PinCount-lead N/A Package-family : Pitch-pitch StyleVendor Style <User Define> <User Define> <User Define></div> <div><div>MASTER PROJECT TEMPLATE TBD</div><div>TESTER TEMPLATE no_template</div><div>DRAWING NO. 02_038458</div><div>REV. C</div></div> <div><div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</div><div>DECIMALS X.XX +-0.010 X.XXX +-0.005</div><div>FRACTIONS +-1/32</div><div>ANGLES +-2</div><div>SIZE D</div><div>SCALE 1:1</div><div>CODE ID NO. CodeID</div><div>SHEET 1 OF 10</div></div>																																				
	P.O SPEC.	BK/BD SPEC.	SOCKET OEM	OEM PART#	HANDLER																																															
	8		7		6		5		4		3		2		1																																					



MOTOR1 DRIVE STAGE



PHASE CURRENT	OUTPUT VOLTAGE
+/- 20A	+/- 0.2V



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SCHEMATIC

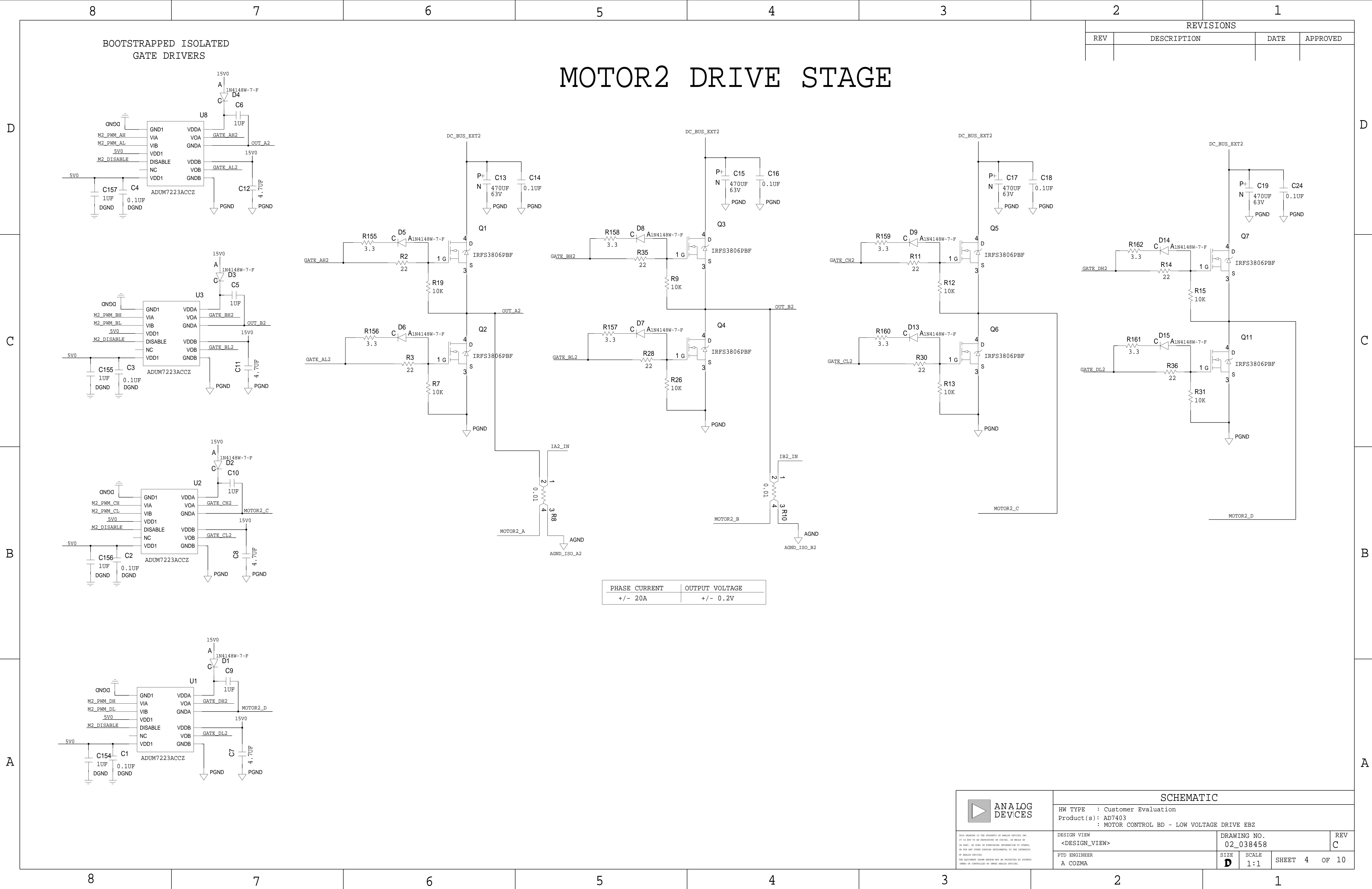
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HW TYPE      : Customer Evaluation
Product(s)   : AD7403
              : MOTOR CONTROL BD - L
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PTD ENGINEER
A COZMA

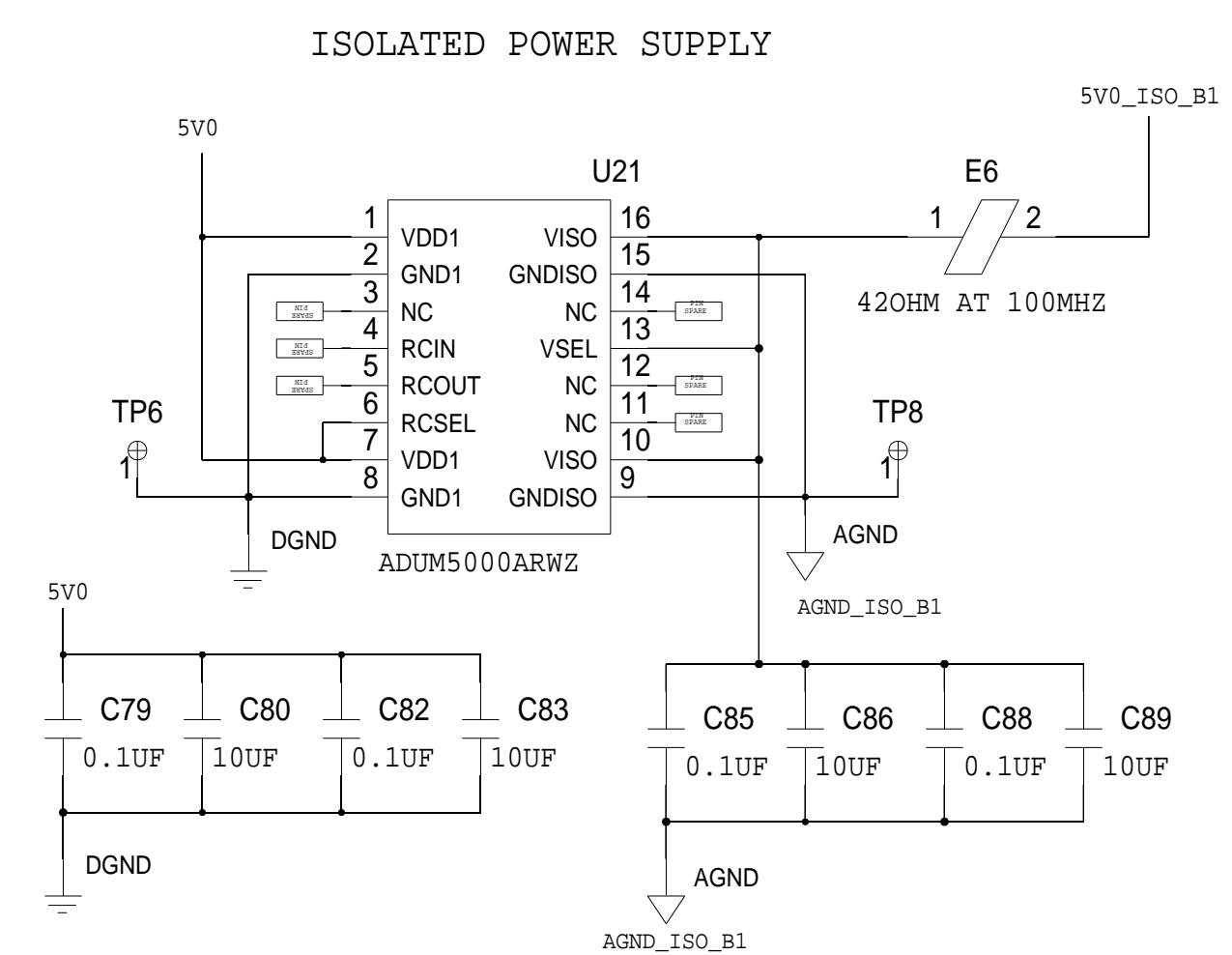
DRAWING NO.
02_038458

REV
C

SIZE D	SCALE 1:1	SHEET 3 OF 10
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



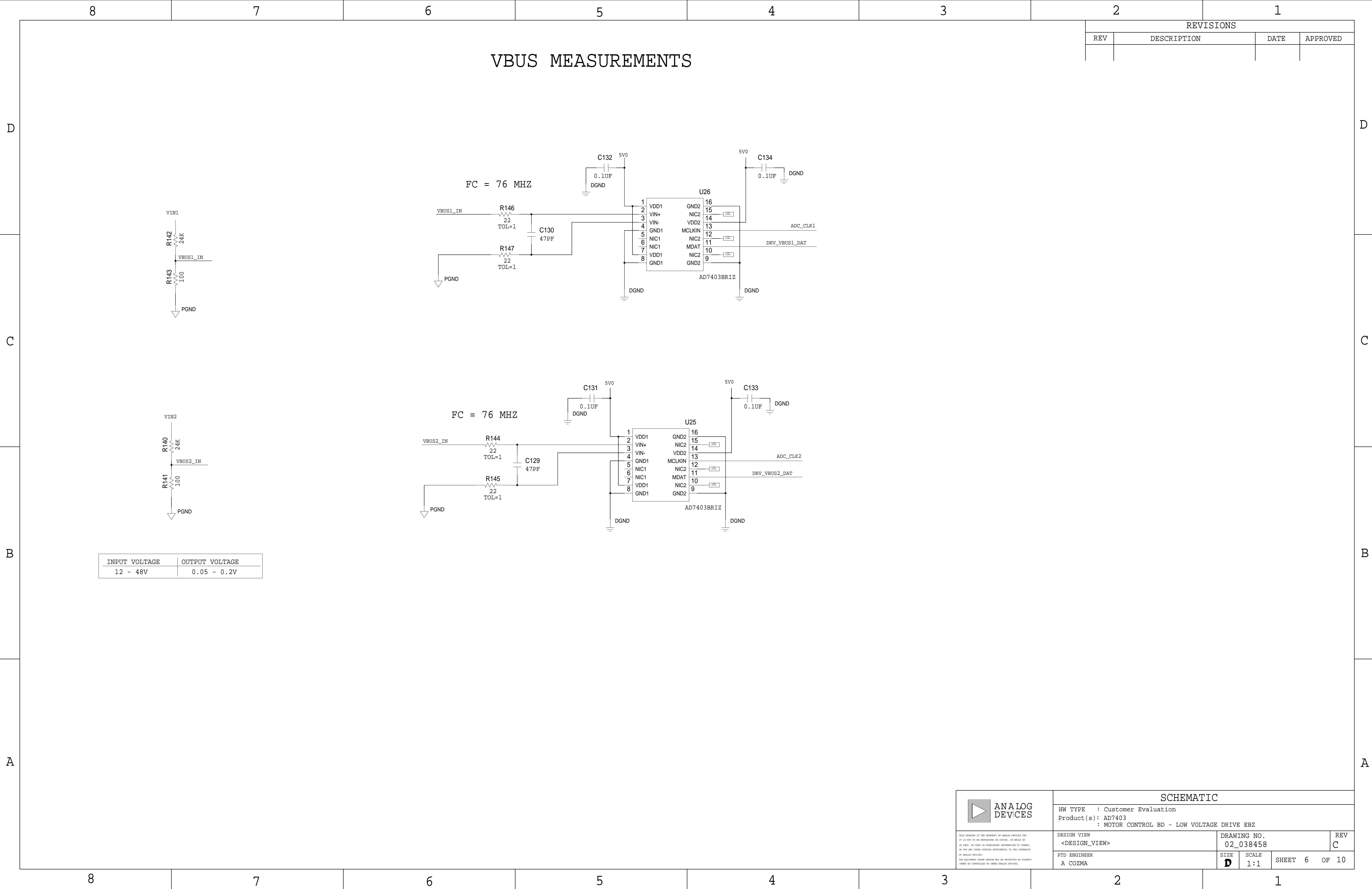
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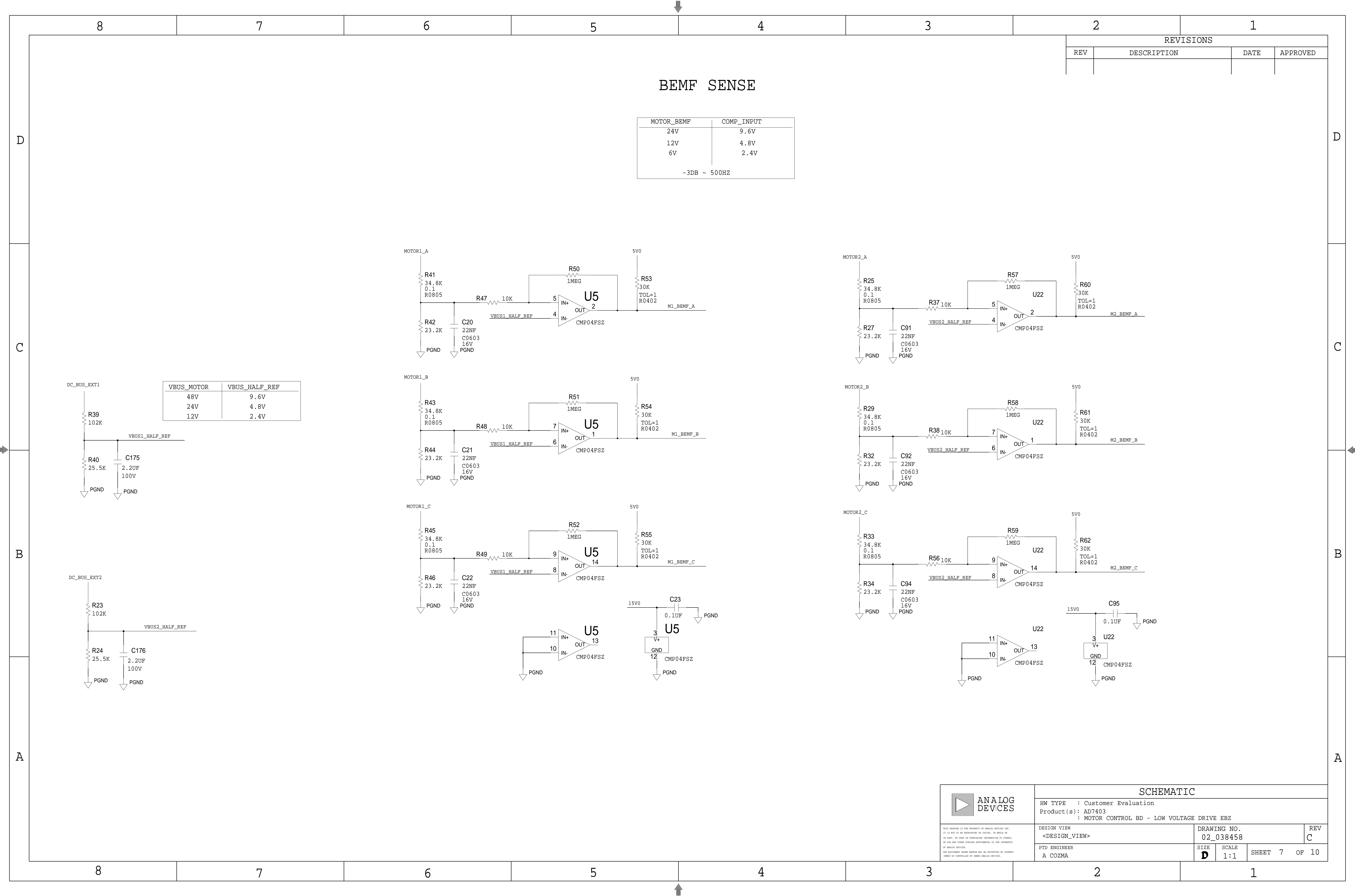
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HW TYPE	: Customer Evaluation
Product(s)	: AD7403
	: MOTOR CONTROL BD - LOW VOLTAGE DRIVE EBZ

DESIGN VIEW <DESIGN_VIEW>		DRAWING NO. 02_038458		REV C	
PTD ENGINEER A COZMA		SIZE D	SCALE 1:1	SHEET 5 OF 10	

PTD ENGINEER A COZMA	SIZE D	SCALE 1:1	SHEET 5 OF 10
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DC_BUS_EXT1

R39

102K

R40

25.5K

C175

2.2UF

100V

PGND

VBUS1_HALF_REF

DC_BUS_EXT2

R23

102K

R24

25.5K

C176

2.2UF

100V

PGND

VBUS2_HALF_REF

VBUS_MOTOR	VBUS_HALF_REF
48V	9.6V
24V	4.8V
12V	2.4V

ANALOG DEVICES

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SCHMATIC

HW TYPE : Customer Evaluation
Product(s): AD7403
: MOTOR CONTROL BD - LOW VOLTAGE DRIVE EBZ

DESIGN VIEW
<DESIGN_VIEW>

PTD ENGINEER
A COZMA

DRAWING NO.
02_038458

SIZE
D

SCALE
1:1

SHEET 7 OF 10

REV
C

8

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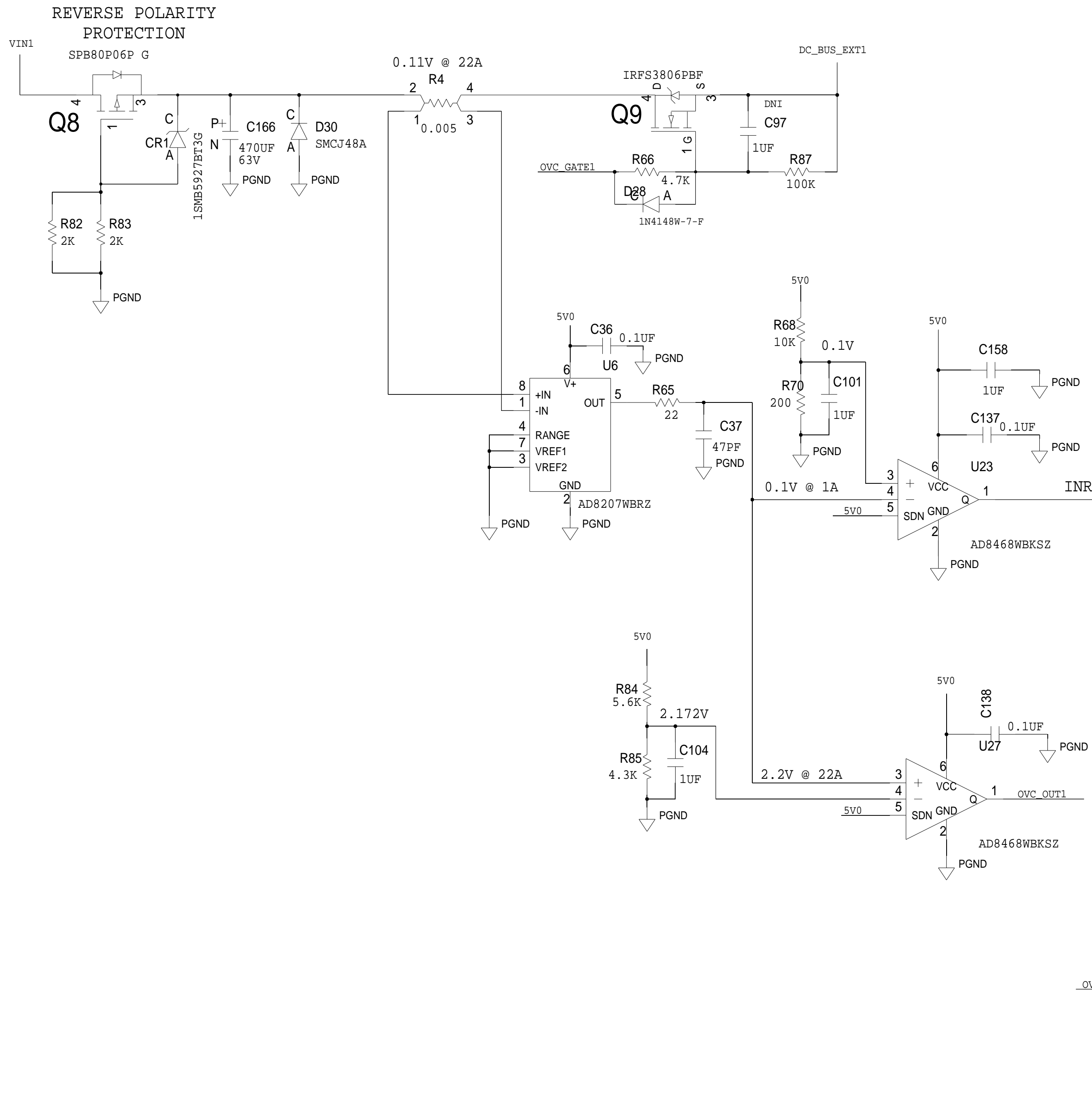
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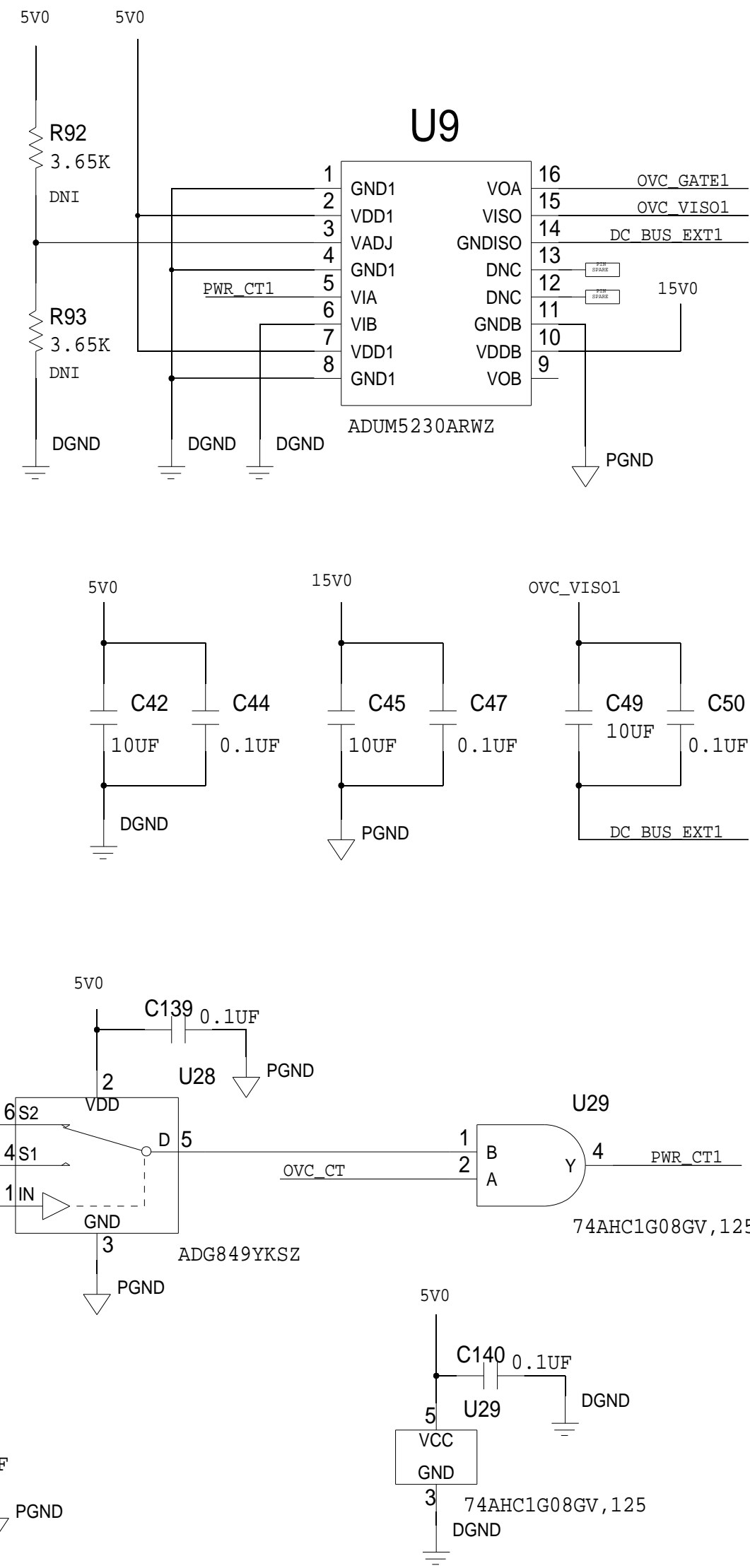
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OVER-CURRENT & INRUSH PROTECTION

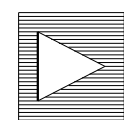
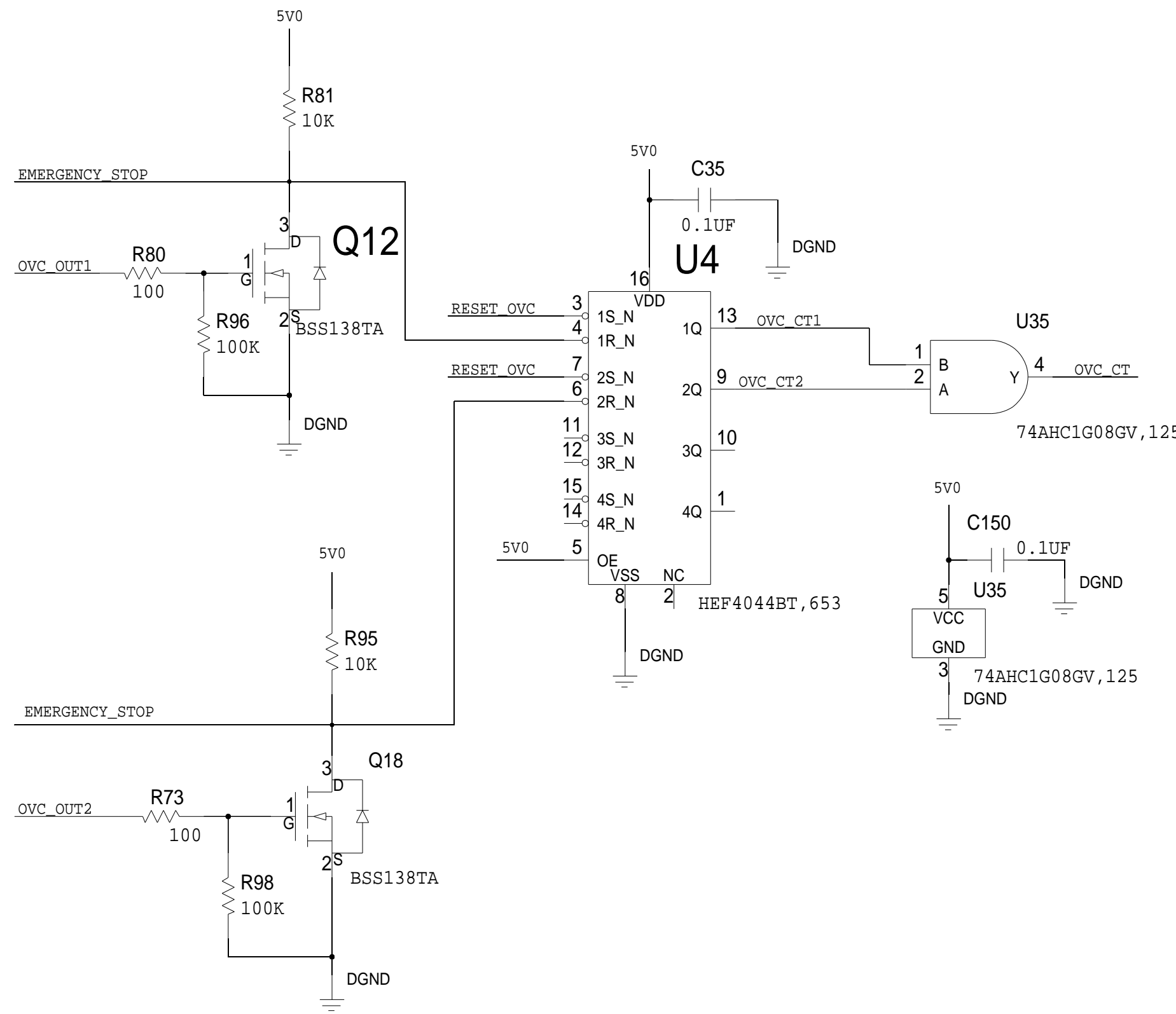
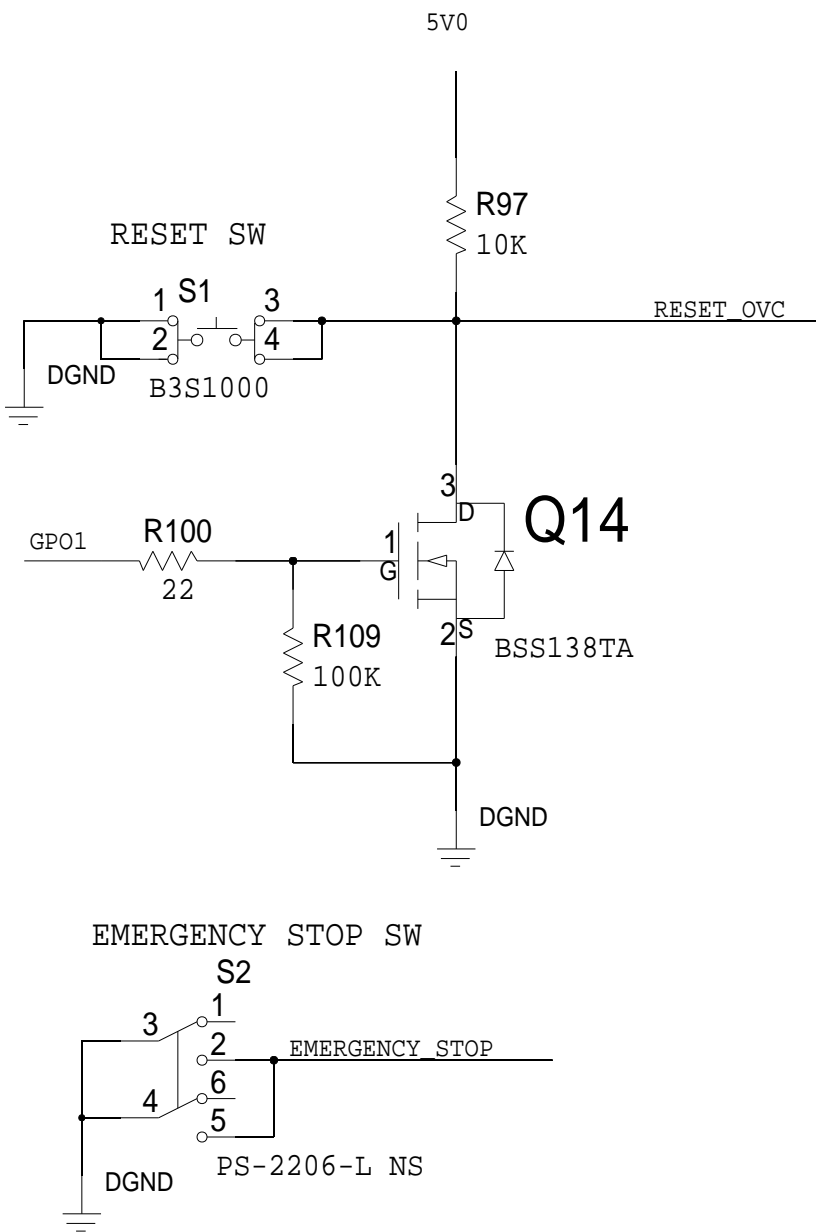


INR_CT1 = IN_CURRENT1 < REF_INR; INR_CT1 : 1 - INPUT CURRENT BELOW INRUSH TRIP POINT
0 - INPUT CURRENT ABOVE INRUSH TRIP POINT
OVC_OUT1 = IN_CURRENT1 < REF_OVC; OVC_OUT1: 0 - INPUT CURRENT BELOW OVERCURRENT TRIP POINT
1 - INPUT CURRENT ABOVE OVERCURRENT TRIP POINT
INR_CT2 = IN_CURRENT2 < REF_INR; INR_CT2 : 1 - INPUT CURRENT BELOW INRUSH TRIP POINT
0 - INPUT CURRENT ABOVE INRUSH TRIP POINT
OVC_OUT2 = IN_CURRENT2 < REF_OVC; OVC_OUT2: 0 - INPUT CURRENT BELOW OVERCURRENT TRIP POINT
1 - INPUT CURRENT ABOVE OVERCURRENT TRIP POINT

OVC_CT1 = !OVC_OUT1
OVC_CT2 = !OVC_OUT2
OVC_CT = OVC_CT1 & OVC_CT2
PWR_CT1 = INR_CT1 & OVC_CT; PWR_CT1: 0 - FAULT, SYSTEM POWER OFF
1 - GOOD, SYSTEM POWER ON
PWR_CT2 = INR_CT2 & OVC_CT; PWR_CT2: 0 - FAULT, SYSTEM POWER OFF
1 - GOOD, SYSTEM POWER ON



LATCHING OVC FAULT



ANALOG
DEVICES

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SCHEMATIC

HW TYPE : Customer Evaluation
Product(s) : AD7403
: MOTOR CONTROL BD - LOW VOLTAGE DRIVE EBZ

DESIGN VIEW
<DESIGN_VIEW>

PTD ENGINEER
A COZMA

DRAWING NO.
02_038458

SIZE
D

SCALE
1:1

REV
C

SHEET 8 OF 10

