

R70-AAx Revision History and Notes

Board Revision 1.0

ECO 1.0B: Replaced U8 AT24C01 with AT24C01A

EC0 1.0C: Replaced 1Meg Ohm resistor with 4.99Meg Ohm

-AA1:	R77, R81	1Meg to 4.99Meg
-AA2:	R77, R79, R81 & R83	1Meg to 4.99Meg

EC0 1.0D: Replaced all film capacitors with ceramic COG/NPO

-AA1:	C33	0.0022uF
-AA2:	C33 & C46	0.0022uF

-AA1:	C27, C28 & C49	0.001uF
-AA2:	C27, C28, C29, C39, C45 & C49	0.001uF

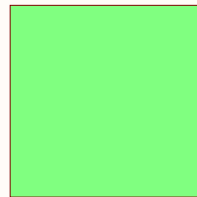
-AA1:	C34	0.01uF
-AA2:	C34 & C35	0.01uF

-AA1:	C32, C36, & C42	0.022uF
-AA2:	C32, C36, & C42	0.022uF

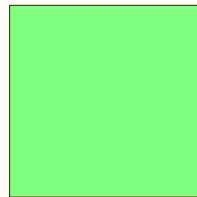
EC0 1.0E: Replaced DC-DC with Short-Circuit protected version. U5 Recom

Rev 1.1A	20230206	<p>Add filtering to OpAmps in Control Output circuit because OPA2187 is more susceptible to noise than original OPA2234</p> <p>Use wider traces for Case pin connection to mounting screw</p> <p>Add 0.022uF capacitors to Control Output to eliminate noise during EMC testing (conducted immunity)</p> <p>Improve power distribution for Control Output power to reduce output noise.</p> <p>Change some resistors to consolidate values or reduce size.</p> <p>Add common mode filter capacitors to analog inputs.</p>
----------	----------	---

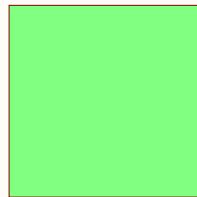
BusXface
BusXface.SCHDOC



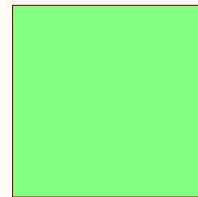
XducerXface
XducerXface.SCHDOC



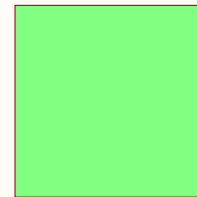
ADC
ADC.SCHDOC



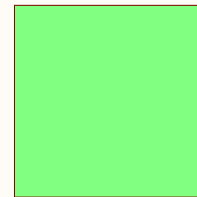
Drive
Drive.SCHDOC



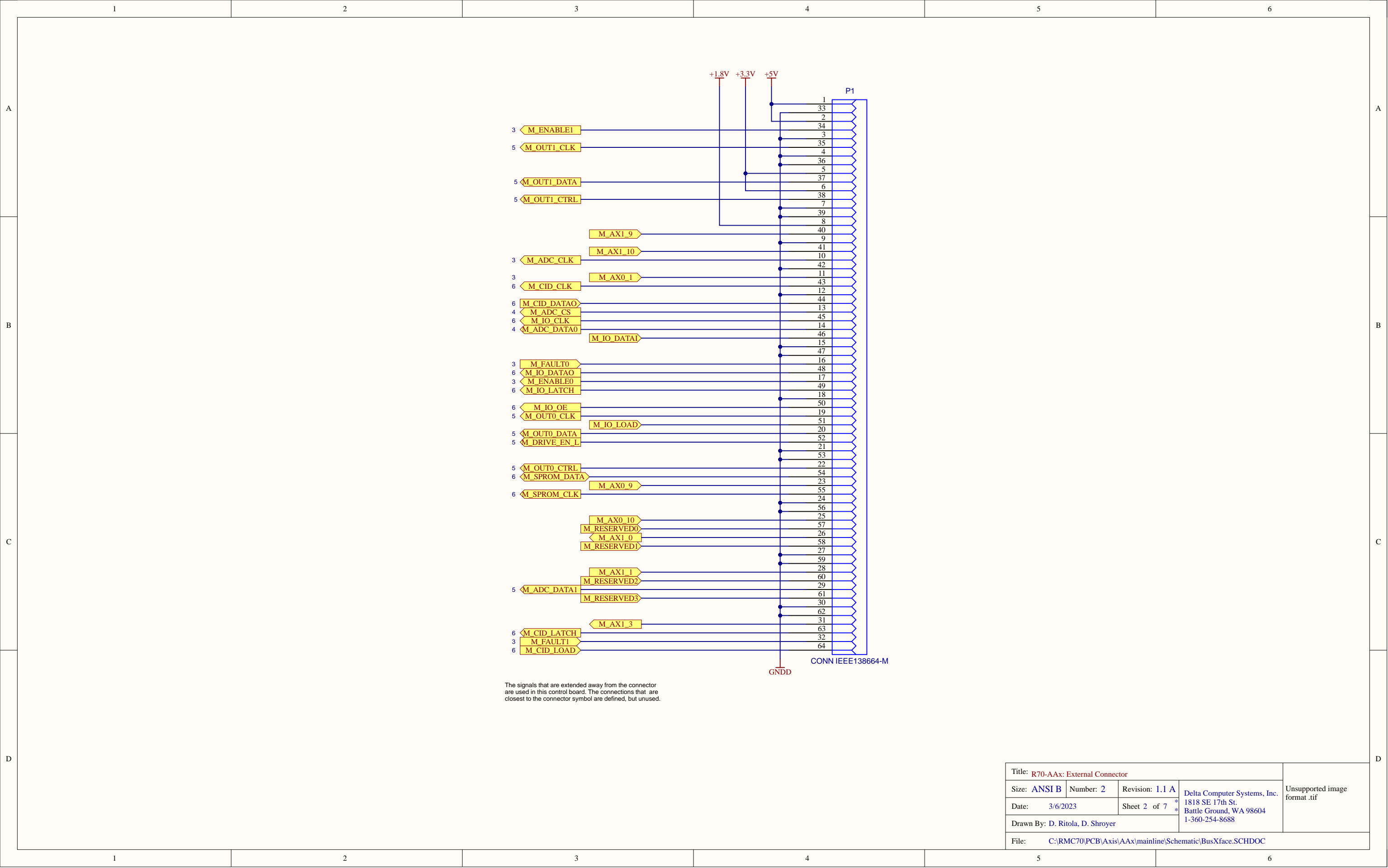
Card ID
Card ID.SCHDOC

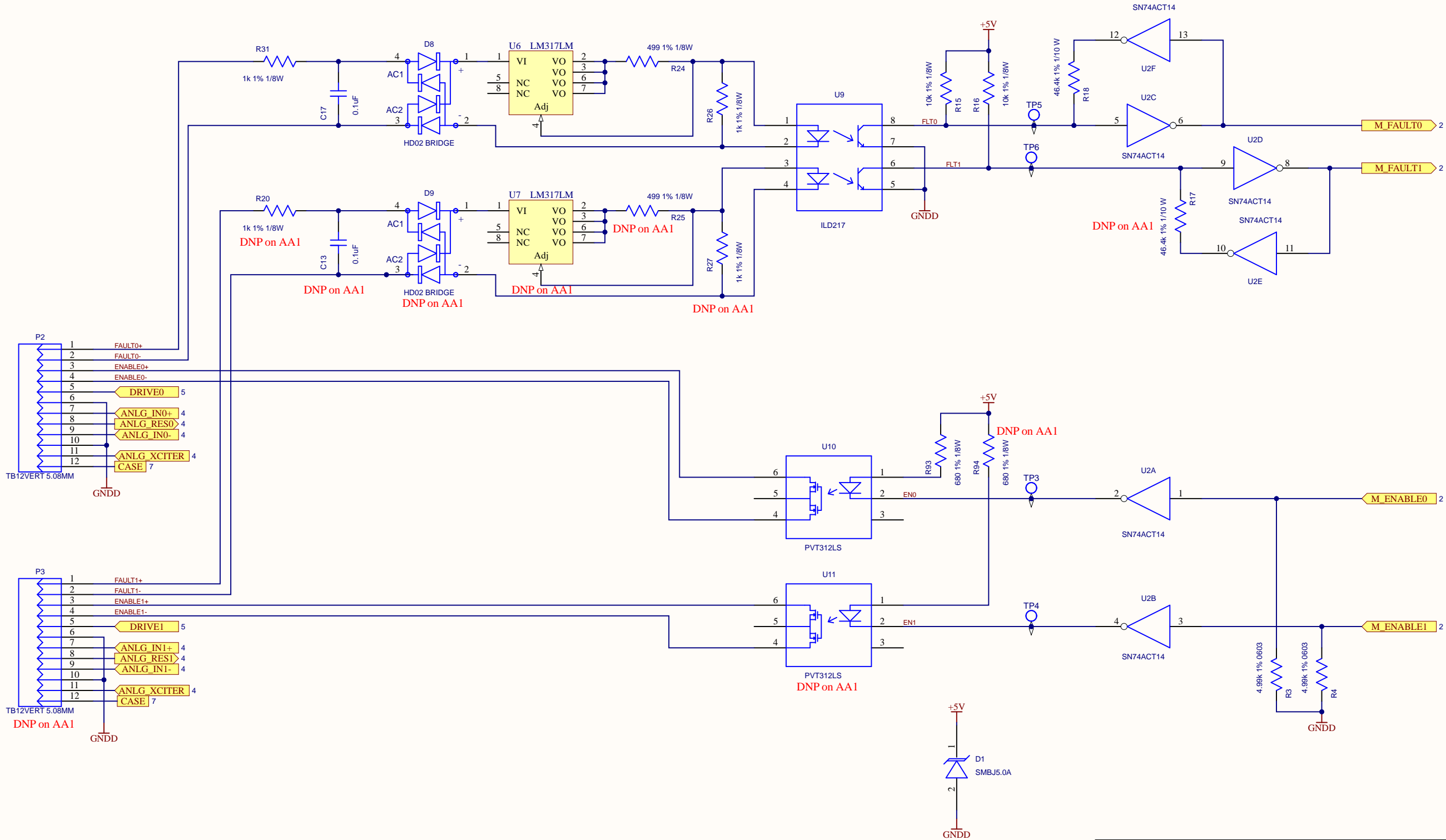


Misc
Misc.SCHDOC

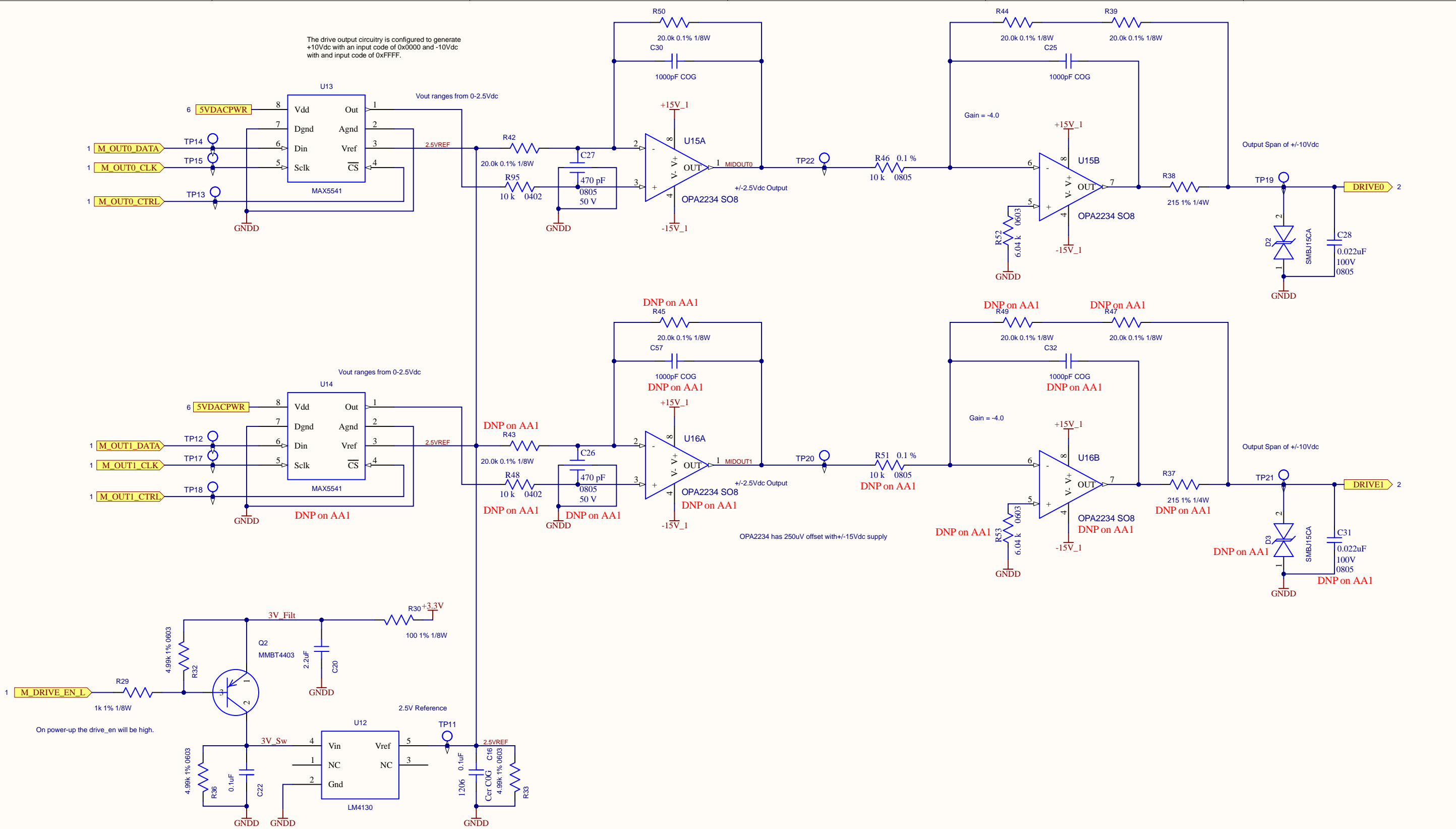


Title: R70-AAx: Title Sheet				Unsuported image format .tif
Size: ANSI B	Number: 1	Revision: 1.1 A	Delta Computer Systems, Inc. 1818 SE 17th St. Battle Ground, WA 98604 1-360-254-8688	
Date: 3/6/2023		Sheet 1 of 7		
Drawn By: D. Ritola, D. Shroyer				
File: C:\RMC70\PCB\Axis\AAx\mainline\Schematic\First_Sheet.SCHDOC				

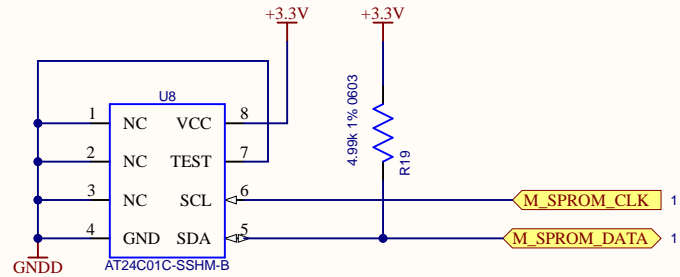
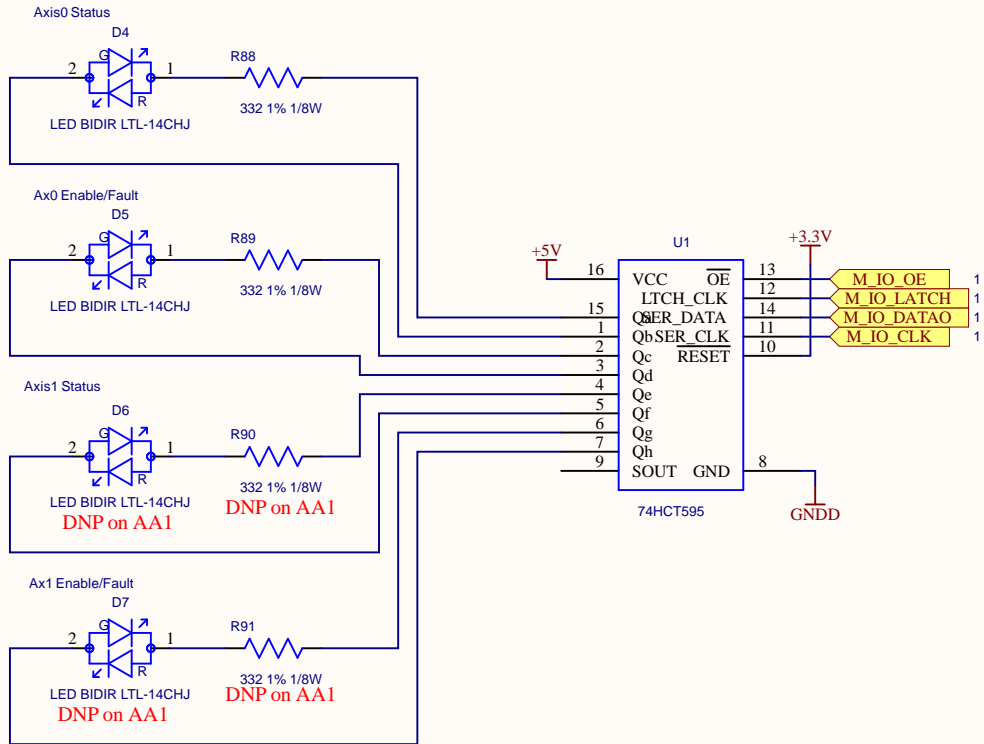
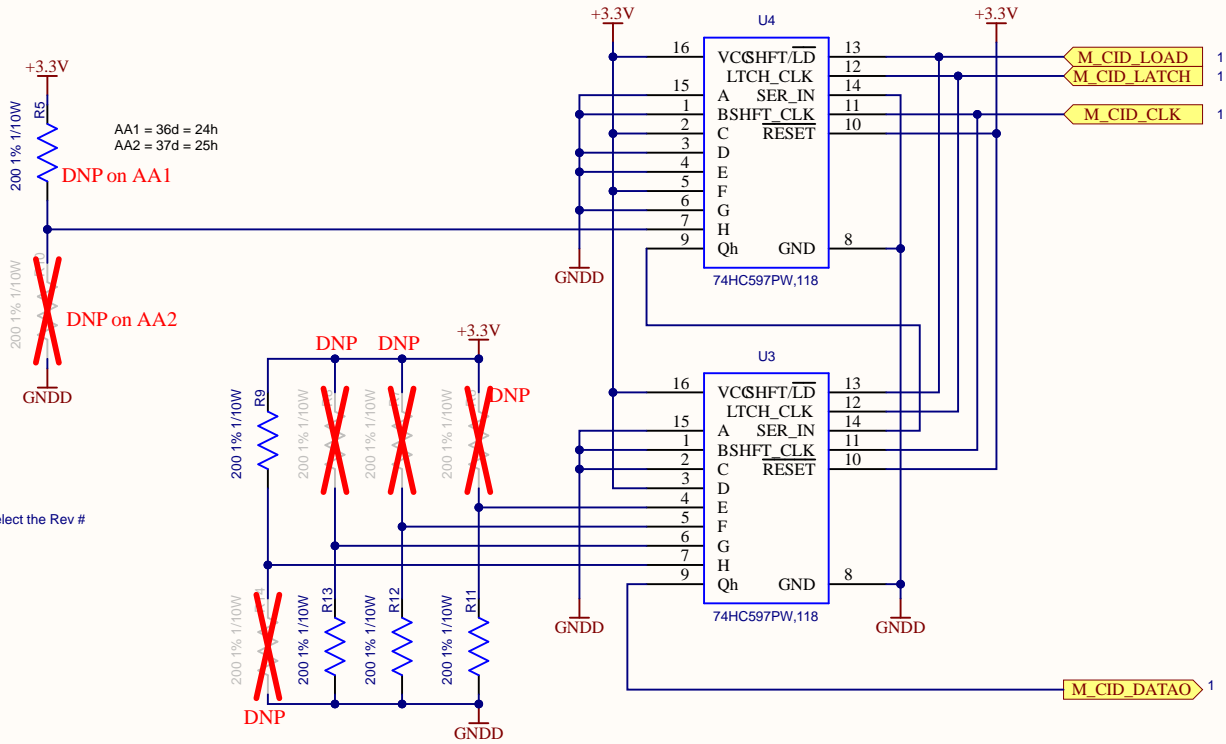




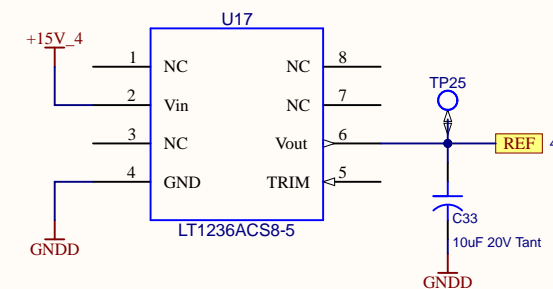
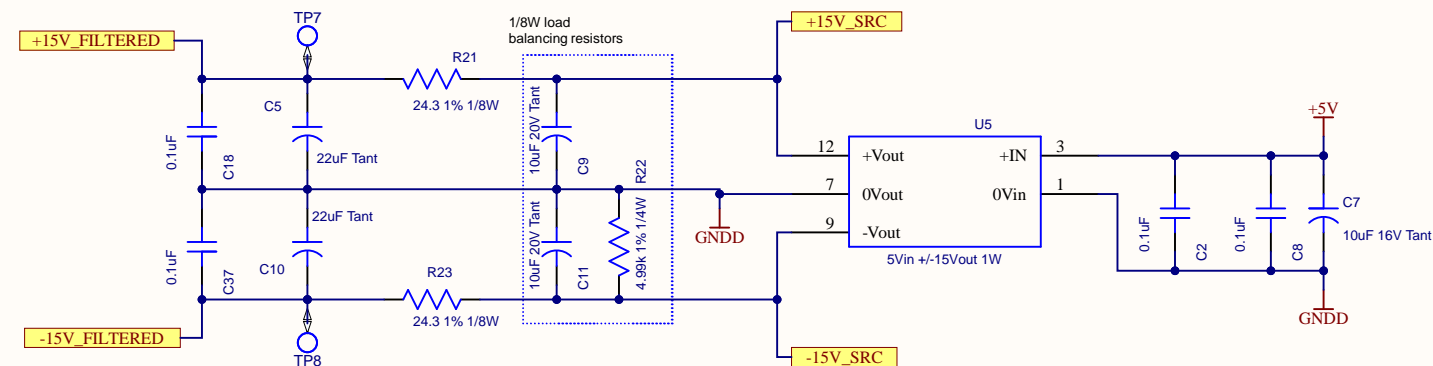
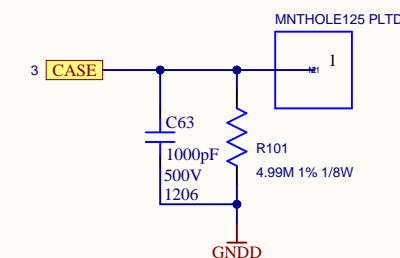
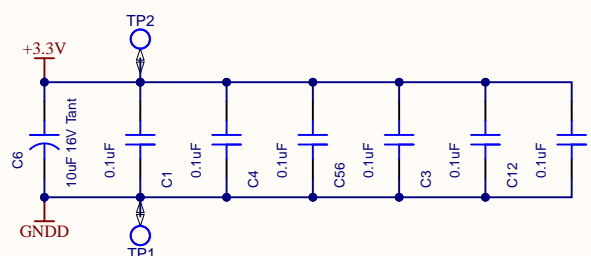
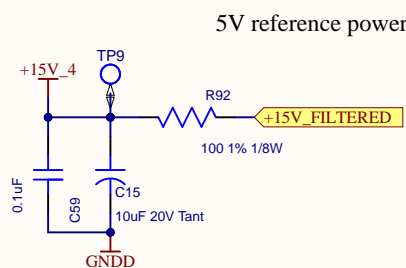
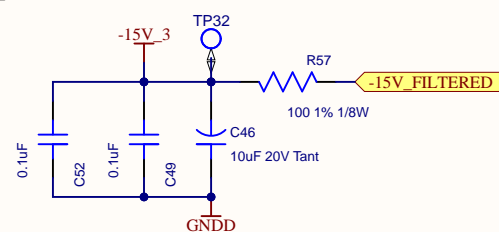
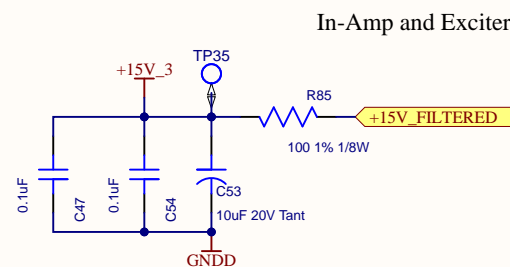
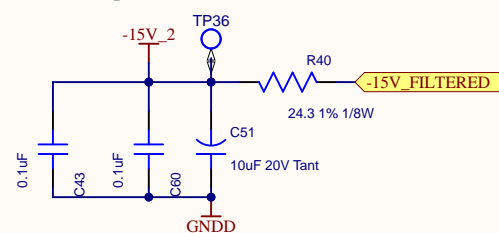
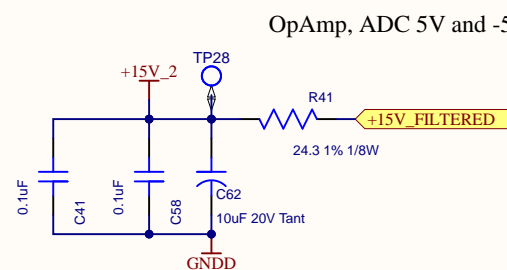
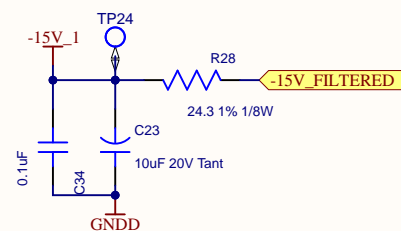
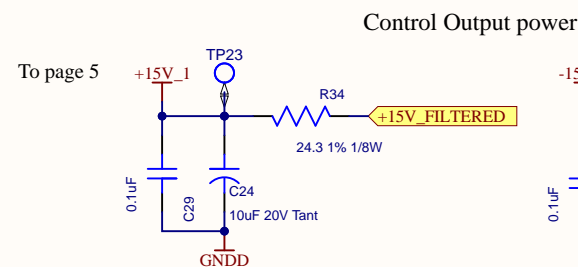
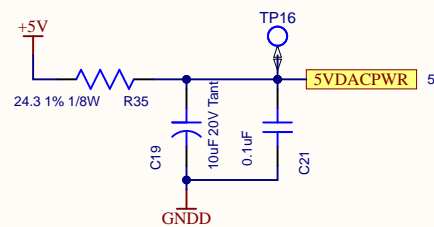
Title: R70-AAx: IO Interface				Unsupported image format .tif
Size: ANSI B	Number: 3	Revision: 1.1 A	Delta Computer Systems, Inc.	
Date: 3/6/2023	Sheet 3 of 7		1818 SE 17th St. Battle Ground, WA 98604 1-360-254-8688	
Drawn By: D. Ritola, D. Shroyer				
File: C:\RMC70\PCB\Axis\AAx\mainline\Schematic\XducerXface.SCHDOC				



Title: R70-AAx: Control Output			
Size: ANSI B	Number: 5	Revision: 1.1 A	Delta Computer Systems, Inc. 1818 SE 17th St. Battle Ground, WA 98604 1-360-254-8688
Date: 3/6/2023	Sheet 5 of 7		
Drawn By: D. Ritola, D. Shroyer			
File: C:\RMC70\PCB\Axis\AAx\mainline\Schematic\Drive.SCHDOC			



Title: R70-AAx: Card ID & IO				Delta Computer Systems, Inc. 1818 SE 17th St. Battle Ground, WA 98604 1-360-254-8688
Size: ANSI B	Number: 6	Revision: 1.1 A		
Date: 3/6/2023		Sheet 6 of 7	*	
Drawn By: D. Ritola, D. Shroyer			*	
File: C:\RMC70\PCB\Axis\AAx\mainline\Schematic\Card ID.SCHDOC				



Title: R70-AAx: Power				Unsupported image format.tif
Size: ANSI B	Number: 7	Revision: 1.1 A	Delta Computer Systems, Inc. 1818 SE 17th St. Battle Ground, WA 98604 1-360-254-8688	
Date: 3/6/2023		Sheet 7 of 7		
Drawn By: D. Ritola, D. Shroyer				
File: C:\RMC70\PCB\Axis\AAx\mainline\Schematic\Misc.SCHDOC				