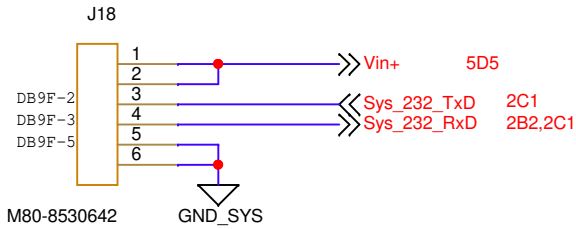


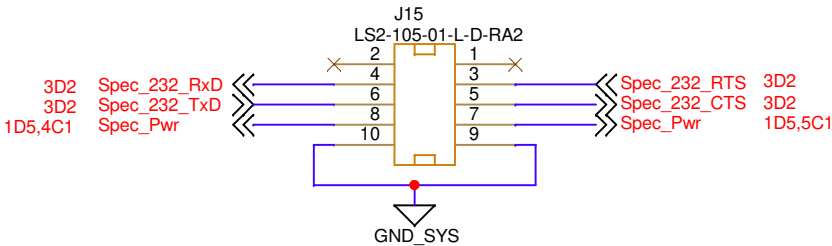
Power and Comms

Vin = 8-22VDC
Mate: M80-8880605



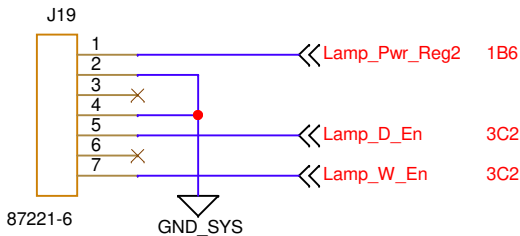
Spectrometer Pwr/Comms

Spec current draw (5V): 100-120 mA



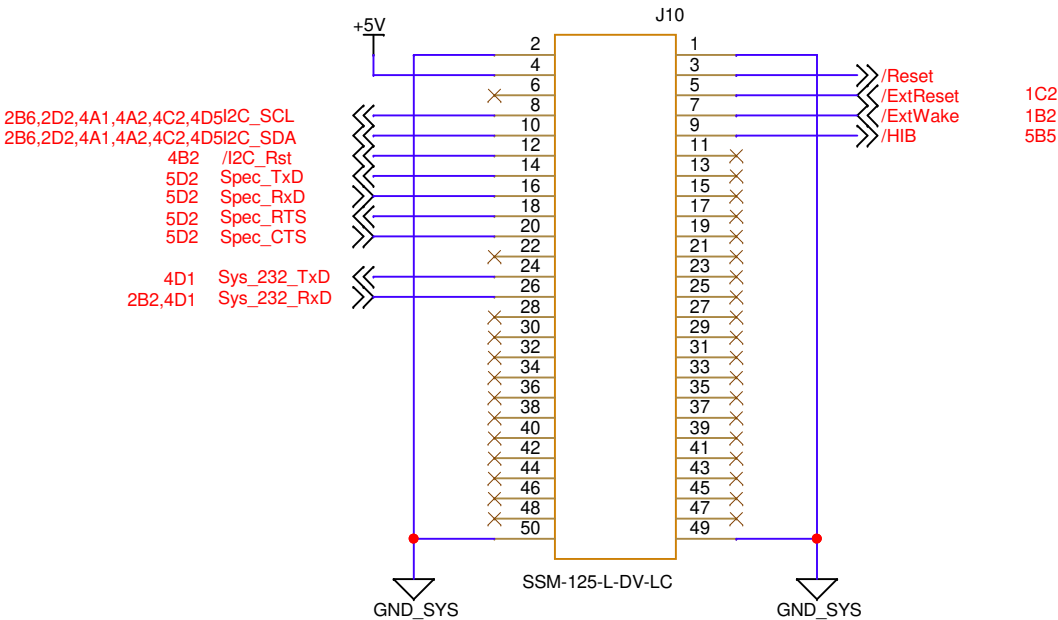
Fiberlight Interface

Solder to Fiberlight board Fiberlight current draw (12V): <450 mA



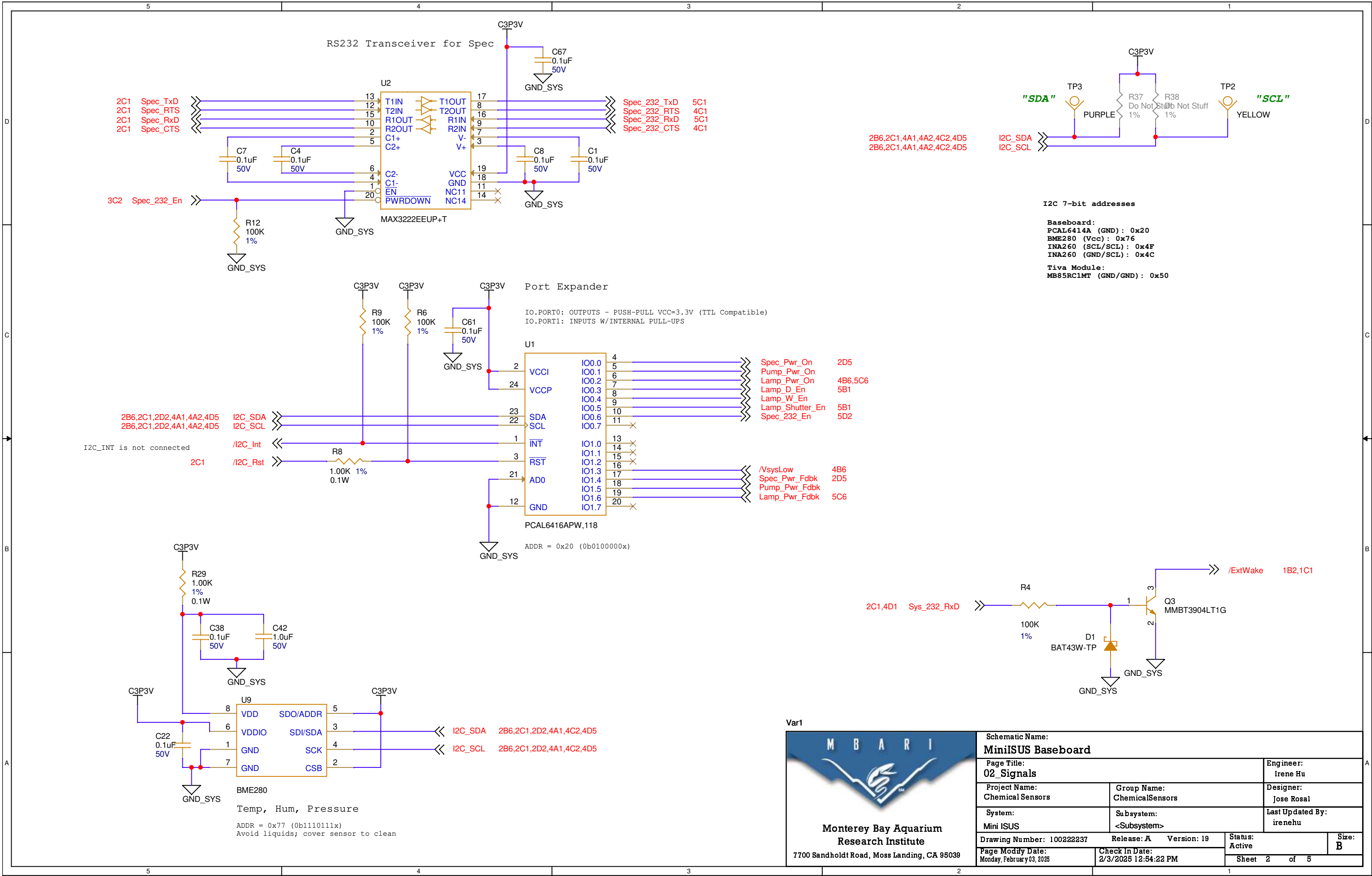
Tiva Module Interface

Module takes 5V for easier testing - has its own 3.3V reg
HIB controls nothing on module; use to disable 5V reg on baseboard
Sys_232 level shifting on module
Wake on receive is implemented on baseboard, not module
/ExtReset is input to module to reset it (MR from supervisor)
/Reset is output from module indicating it has been reset



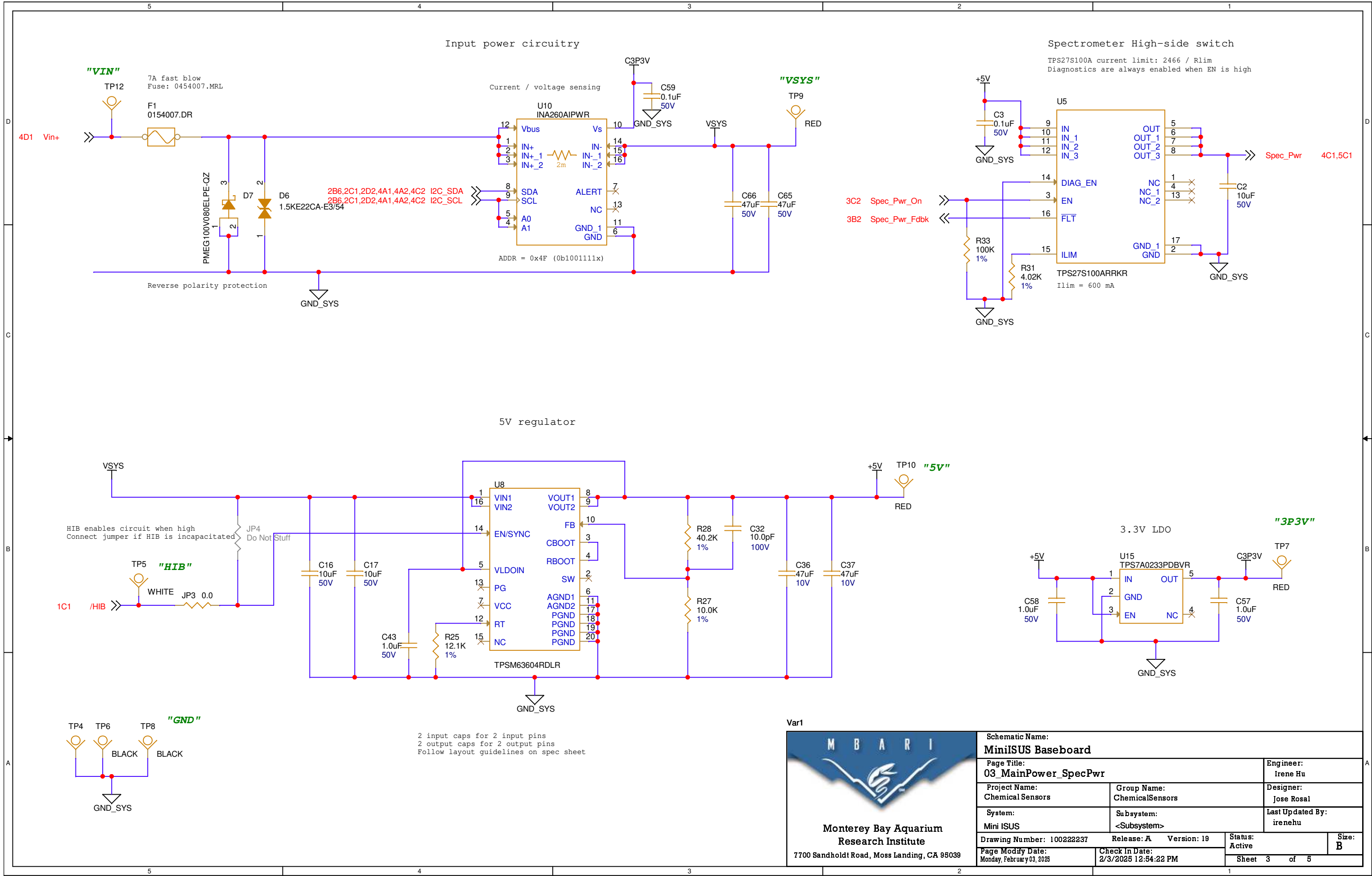
Var1

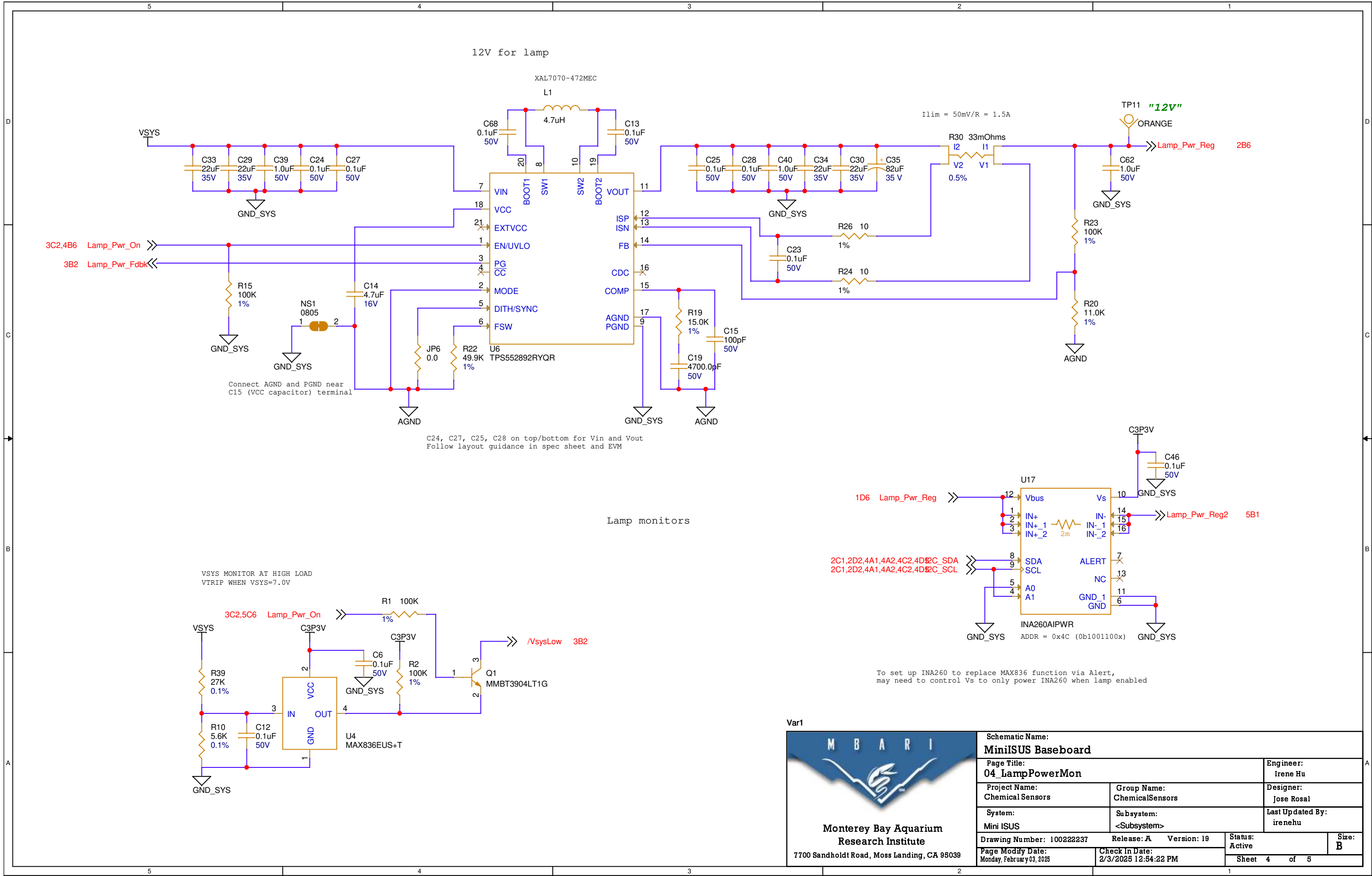
M B A R I  Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039	Schematic Name: MiniISUS Baseboard				
	Page Title: 01_Connectors			Engineer: Irene Hu	
	Project Name: Chemical Sensors		Group Name: ChemicalSensors		Designer: Jose Rosal
	System: Mini ISUS		Subsystem: <Subsystem>		Last Updated By: irenehu
	Drawing Number: 100222237		Release: A Version: 19		Status: Active
	Page Modify Date: Monday, February 03, 2025		Check In Date: 2/3/2025 12:54:22 PM		Size: B
	Sheet 1 of 5				



Var1

 Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039	Schematic Name: MiniISUS Baseboard					
	Page Title: 02_Signals			Engineer: Irene Hu		
	Project Name: Chemical Sensors	Group Name: ChemicalSensors		Designer: Jose Rosal		
	System: Mini ISUS	Subsystem: <Subsystem>		Last Updated By: irenehu		
	Drawing Number: 100222237		Release: A	Version: 19	Status: Active	Size: B
	Page Modify Date: Monday, February 03, 2025	Check In Date: 2/3/2025 12:54:22 PM				
			Sheet 2 of 5			





Var1



Schematic Name:					
MiniISUS Baseboard					
Page Title:			Engineer:		
04_LampPowerMon			Irene Hu		
Project Name:	Group Name:		Designer:		
Chemical Sensors	ChemicalSensors		Jose Rosal		
System:	Subsystem:		Last Updated By:		
Mini ISUS	<Subsystem>		irenehu		
Drawing Number: 100222237		Release: A	Version: 19	Status: Active	Size: B
Page Modify Date:		Check In Date:		Sheet 4 of 5	
Monday, February 03, 2025		2/3/2025 12:54:22 PM			

5

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D

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A

NOTE: THIS BOARD USES VARIANTS TO CONFIGURE JUMPERS
Do not populate everything; follow variants

Configuration Notes
JP3, 4: Control 5V regulator with HIB (JP3) or leave always on (JP4) (05 Power1)
JP6: Potential replacement with capacitor for convertor dithering, otherwise leave 0ohms (06 Power2)

Var1

M B A R I

Monterey Bay Aquarium
Research Institute

7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: MiniISUS Baseboard		
Page Title: 05_Notes		Engineer: Irene Hu
Project Name: Chemical Sensors	Group Name: ChemicalSensors	Designer: Jose Rosal
System: Mini ISUS	Subsystem: <Subsystem>	Last Updated By: irenehu
Drawing Number: 100222237	Release: A Version: 19	Status: Active
Page Modify Date: Monday, February 03, 2025	Check In Date: 2/3/2025 12:54:22 PM	Sheet 5 of 5