


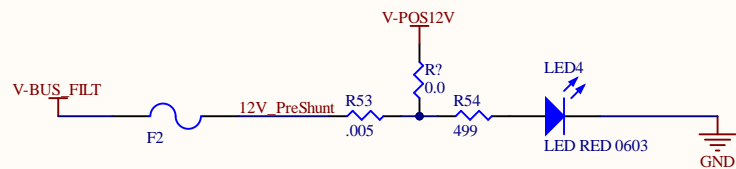
DRIVER IO

SOLAR CAR 1

REV C

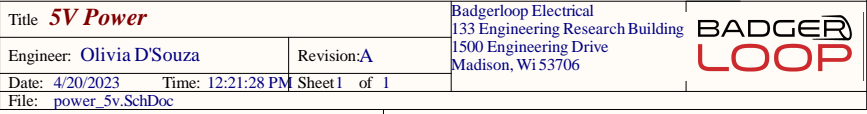
Title <i>Driver IO</i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer:	Revision:		
Date: 4/20/2023      Time: 12:21:30 PM	Sheet 1 of 2		
File: driver_io.SchDoc			

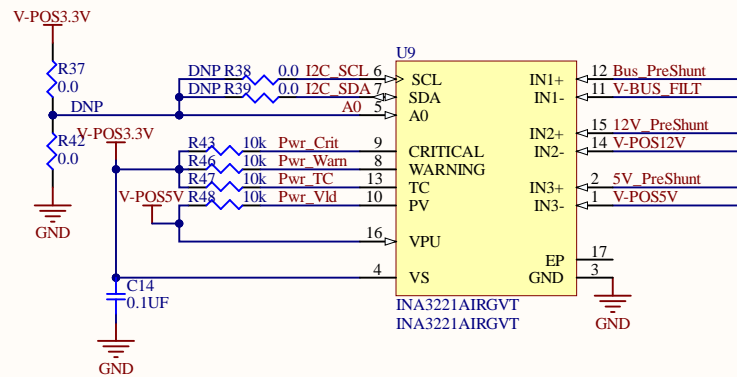
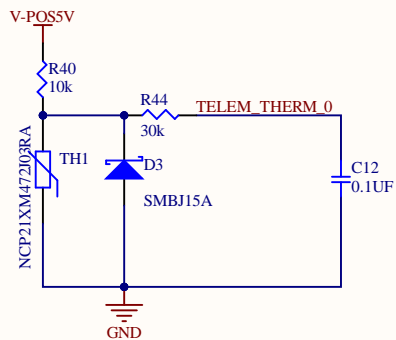





Placeholder until it is determined whether we need to regulate to 12V

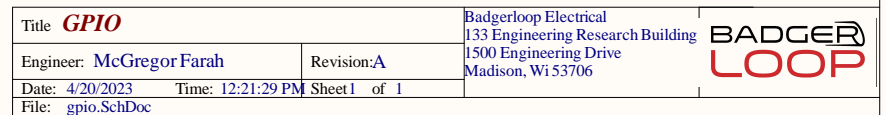
Title <b>12V Power</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>	<div>BADGER LOOP</div>	
Date: <b>4/20/2023</b>	Time: <b>12:21:28 PM</b>		
File: <b>power_12v.SchDoc</b>		Sheet <b>1</b> of <b>1</b>	



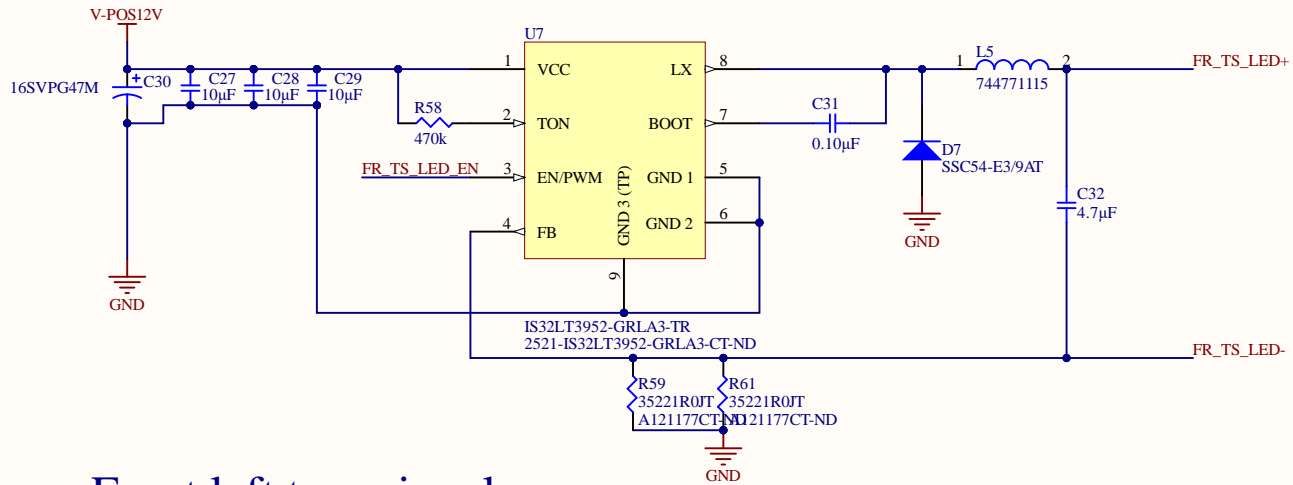


Title <b>Miscellaneous Sensors</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Marton Bocsi, McGregor Farah	Revision: A		
Date: 4/20/2023	Time: 12:21:28 PM		
File: misc_sensors.SchDoc		Sheet 1 of 1	

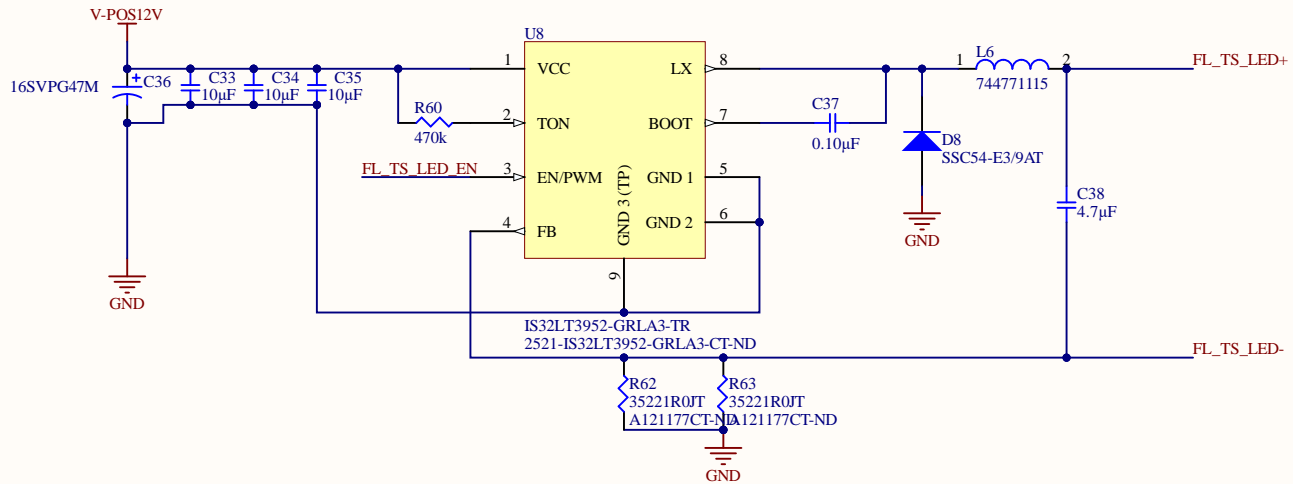




## Front right turn signal



## Front left turn signal

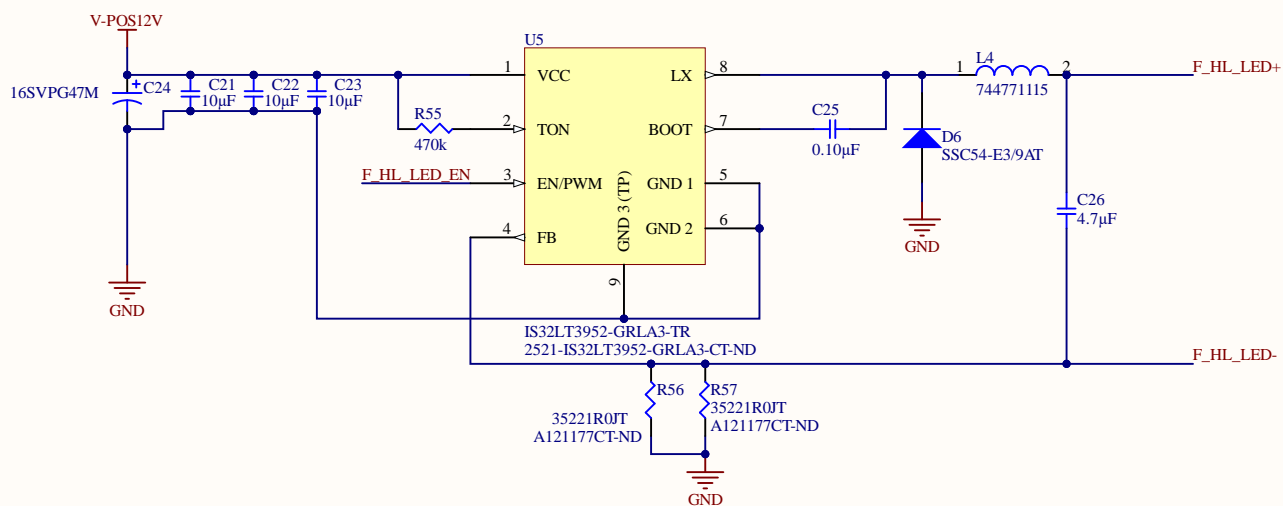



Title <b>Front Blinker Drivers</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706		
Engineer: Alec Marshall	Revision: A			
Date: 4/20/2023      Time: 12:21:29 PM      Sheet 1 of 1				
File: ext_light_interface_frontum.SchDoc				

**BADGER  
LOOP**

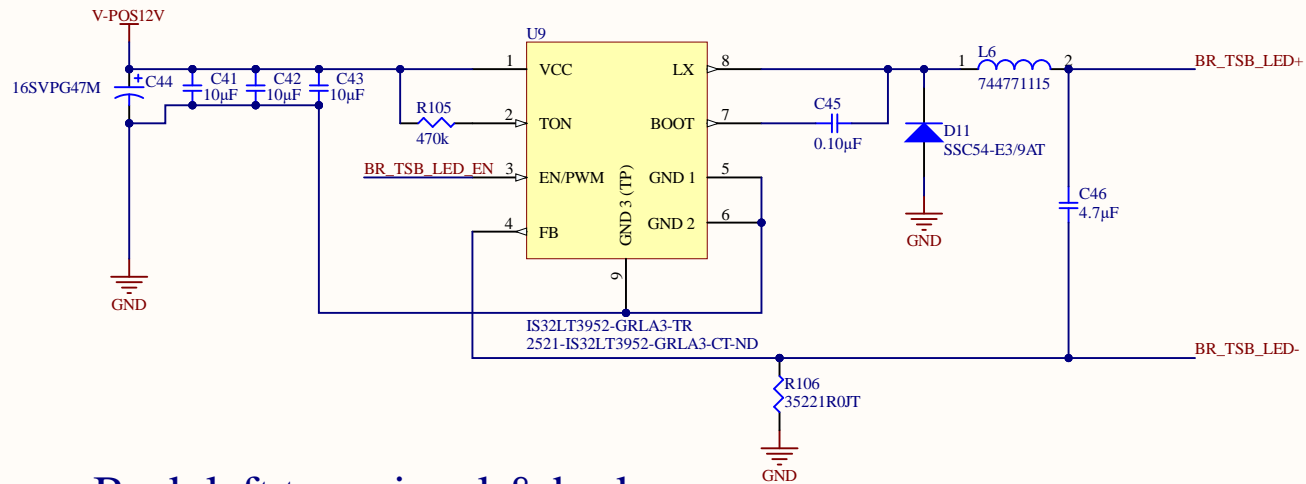


# Front headlight

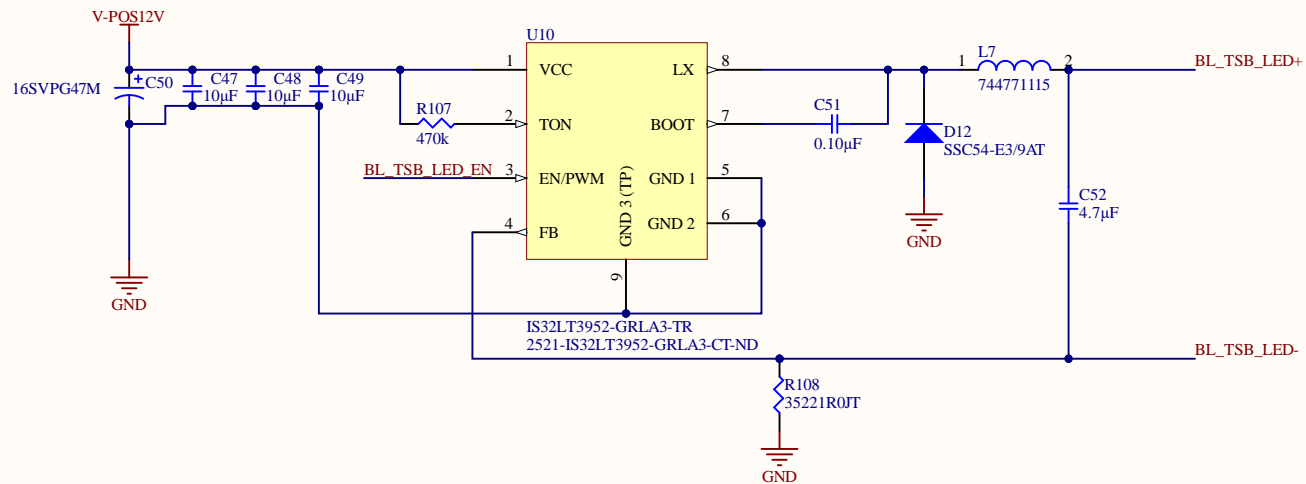



Title <b>Headlight Driver</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>Alec Marshall</b>	Revision: <b>A</b>		
Date: <b>4/20/2023</b>	Time: <b>12:21:29 PM</b>		
File: <b>ext_light_interface_frontheadlight.SchDoc</b>		Sheet <b>1</b> of <b>1</b>	

## Back right turn signal & brake

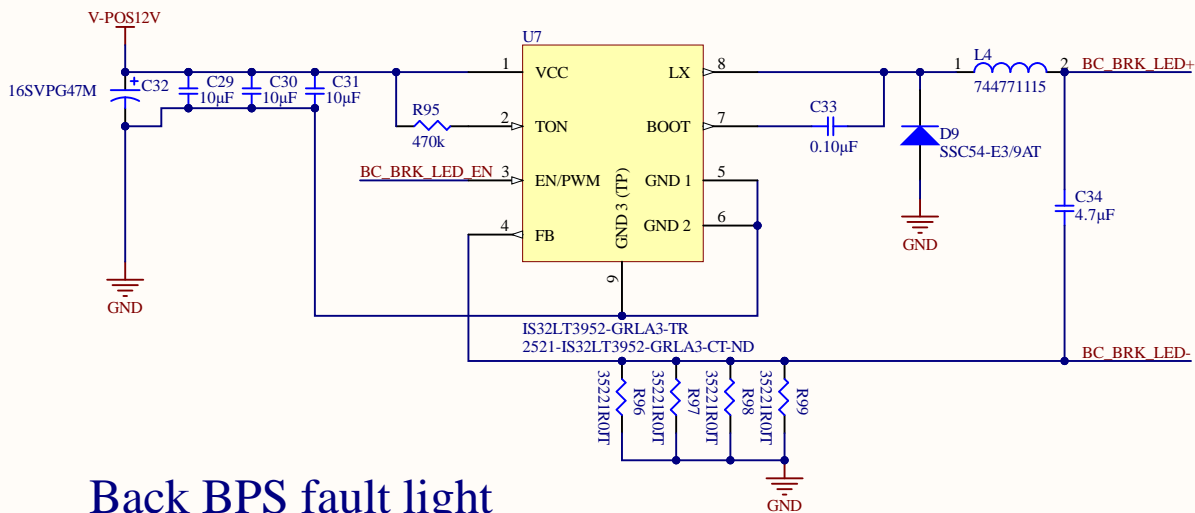


## Back left turn signal & brake

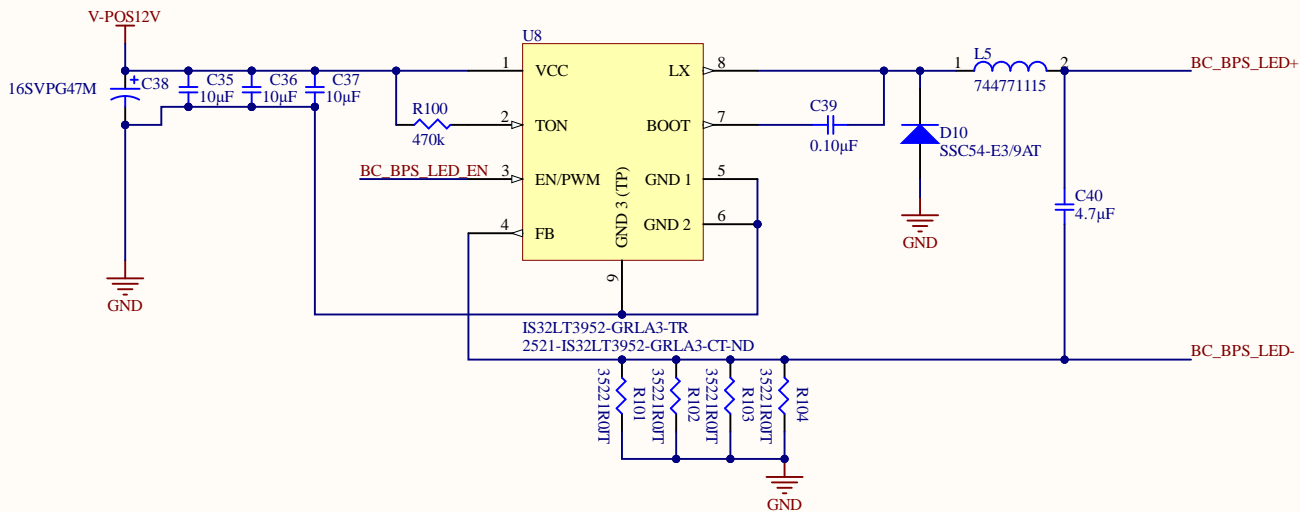


Title <b><i>Rear Blinker Interface</i></b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706		
Engineer: Alec Marshall	Revision: A			
Date: 4/20/2023	Time: 12:21:30 PM	Sheet 1 of 1		
File: ext_light_interface_backup.SchDoc				

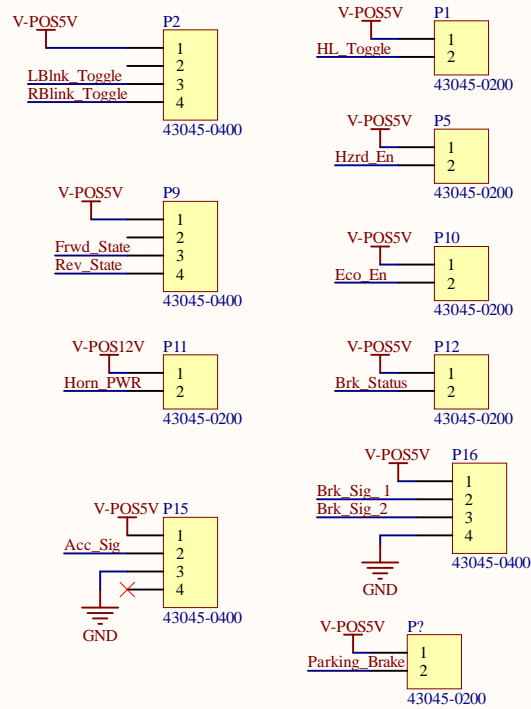
Back center brake light



Back BPS fault light

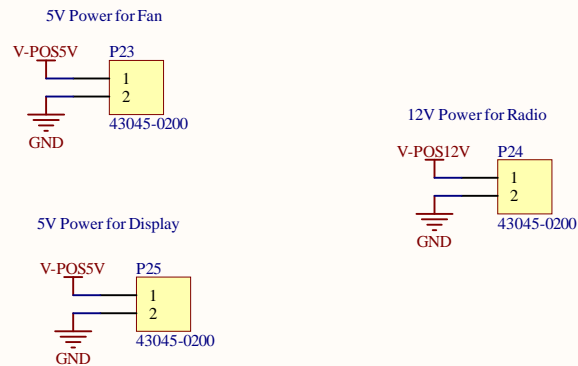


## Driver Input Interface

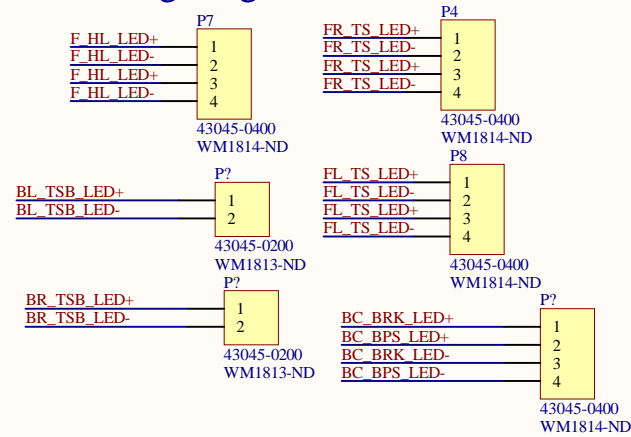


Revisit once specific switches are decided upon

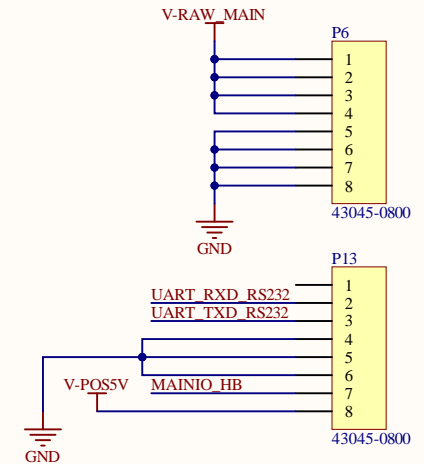
## Software Interface



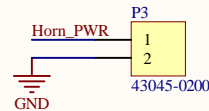
## Lighting Interface



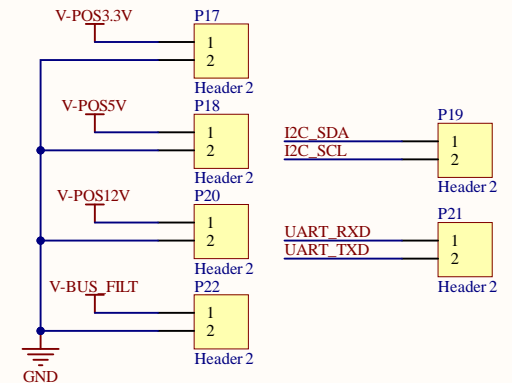
## Main IO Interface



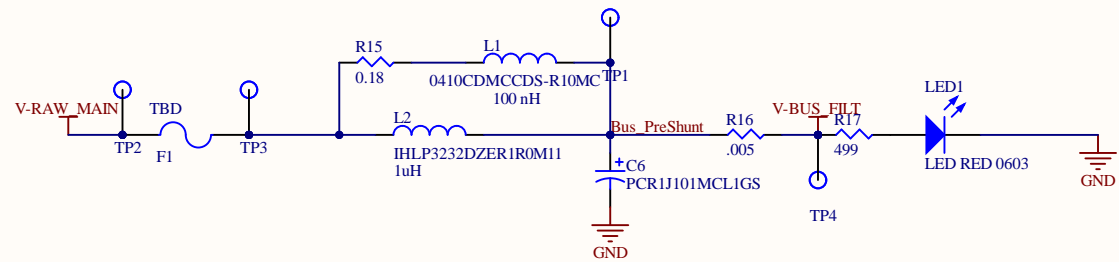
## Output Interface




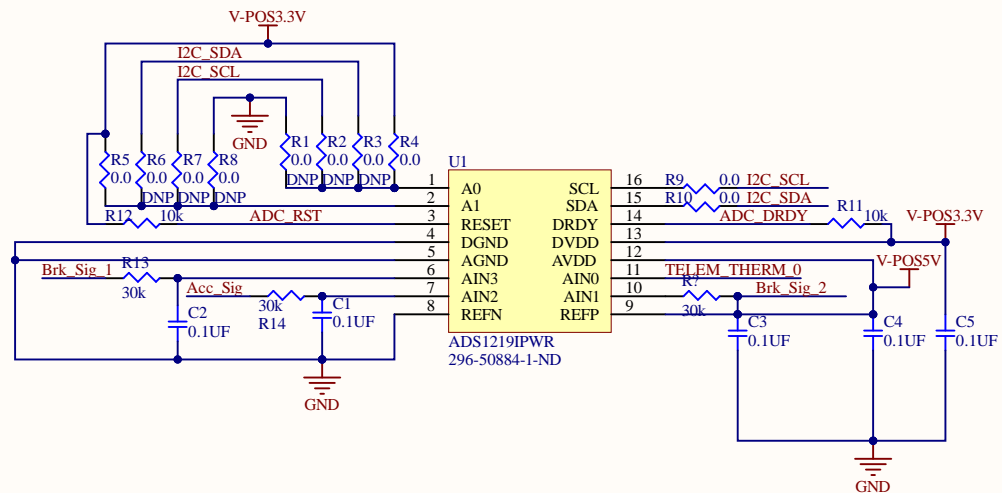
## Debug Headers



Title <b>Connectors</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: McGregor Farah, Olivia D'Souza	Revision: A		
Date: 4/20/2023	Time: 12:21:31 PM		
File: connectors.SchDoc		Sheet 1 of 1	



Title <b>Bus Filter</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Marton Bocsi, McGregor Farah	Revision: A		
Date: 4/20/2023	Time: 12:21:31 PM		
File: bus_filter.SchDoc	Sheet 1 of 1		



Title <b>ADC</b>		Badgerloop Electrical	
Engineer: <b>McGregor Farah</b>		133 Engineering Research Building	
Date: 4/20/2023		1500 Engineering Drive	
File: adc.SchDoc		Madison, WI 53706	
Revision: <b>A</b>		Sheet 1 of 1	

