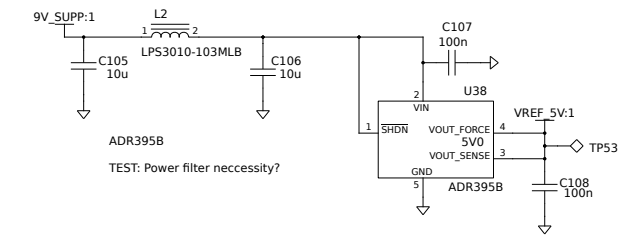
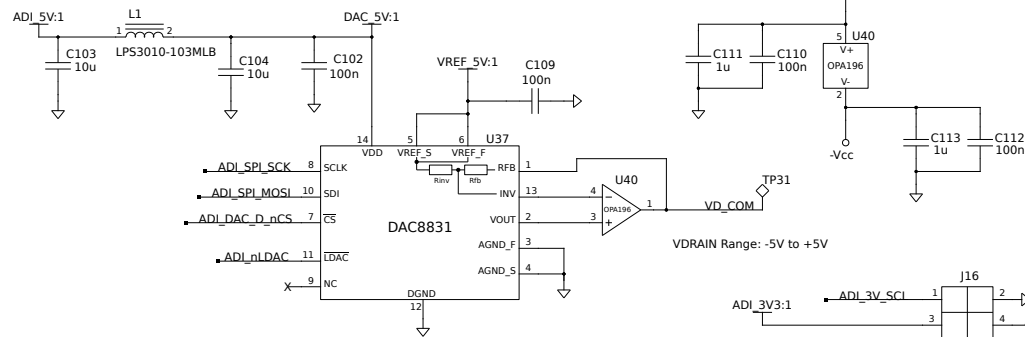


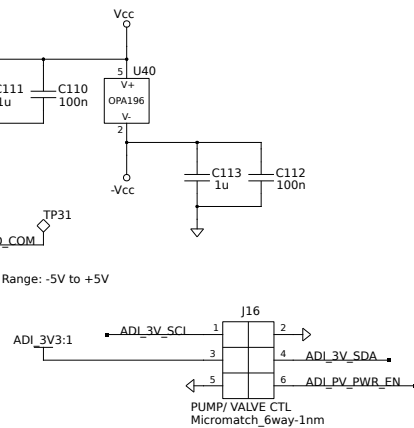
GATE / DRAIN BIAS VOLTAGE DACS



ADR395B
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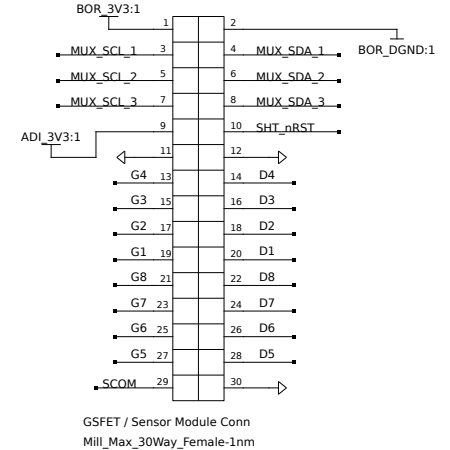
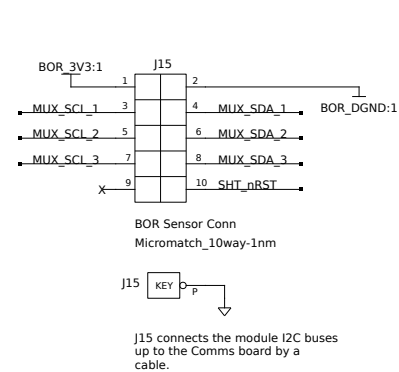
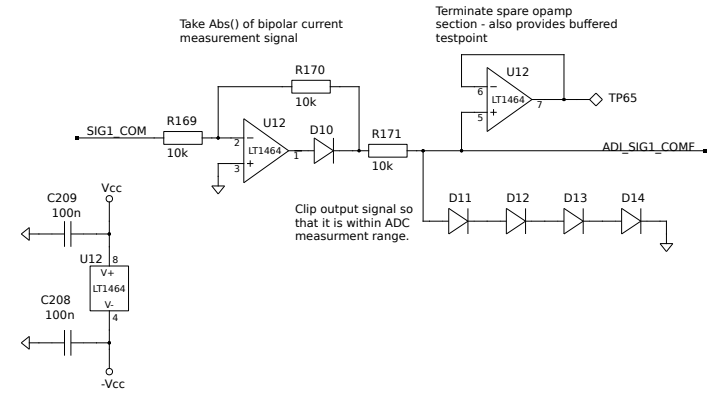


DAC8831: 16 bit DAC
O/P: -VREF to +VREF
TEST: 10uF Tanatalum required?
or 10 uF Ceramic sufficient.
Power Supply: w/o Filter
with 5V linear Regulator

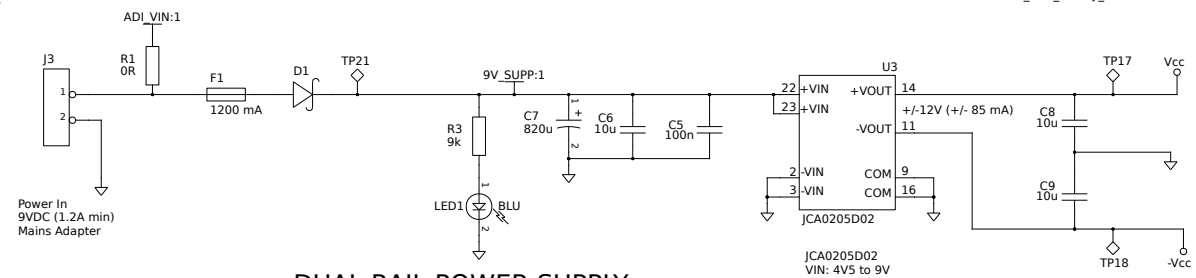


A connector for the control of Pumps / Valves is maintained for compatibility with the configuration of Jan 2020 where ADICUP controlled the Pumps and Valves.

It is likely that for the Sep 2020 trial this control function may be transferred to the Boron which will act as system controller. The reason is related to low power states as sometimes the pumps need to run for the Electrochemical sensor when the ADICUP board is powered down.



Mating Connector for Gas Sensor Module on main board



DUAL RAIL POWER SUPPLY

REVIEW:
Consider reducing opamp supply rail voltages considering that bias voltages now only need to go up to $\pm 5V$.