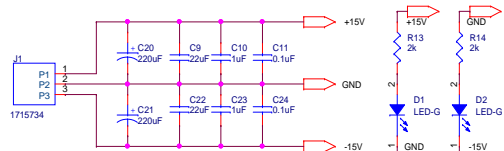
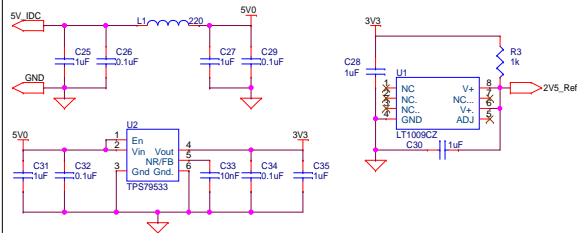


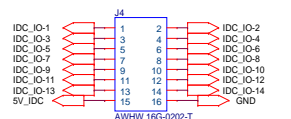
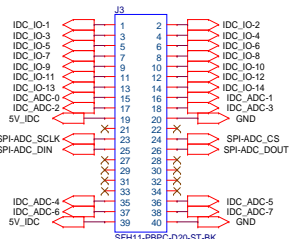
External Sensor Power Supply (15V/-15V)



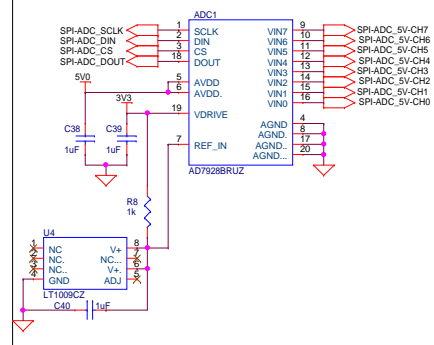
Power Filtering and References (5V0, 3V3, 2V5)



IDC Connectors



SPI ADC - 5V Input, 3.3V I/O

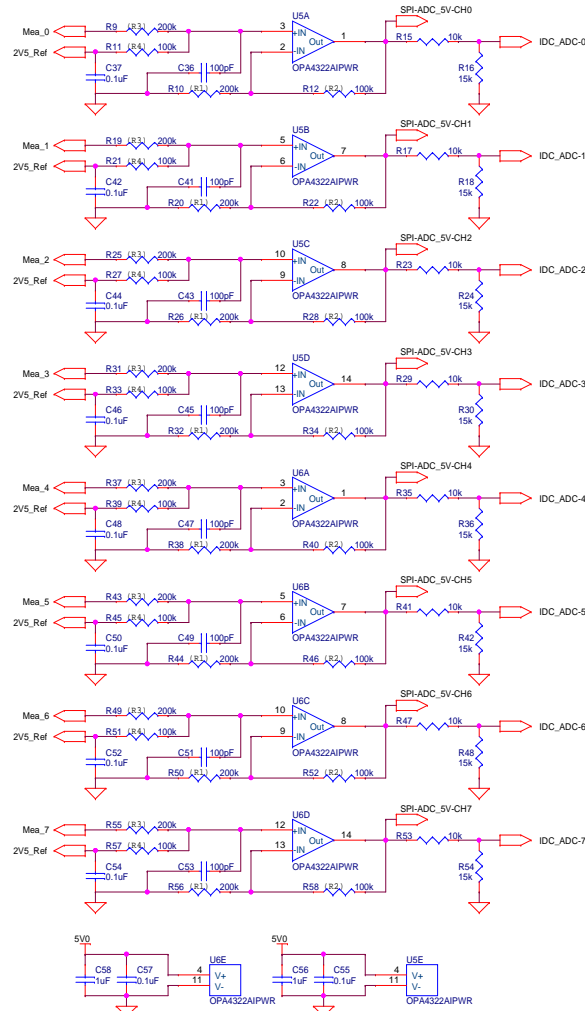


Mounting



Voltage Shift and Scaling

Scale : +/- 5V to 0 - 5V
 0V = 2.5V [5V] or 1.5 V [3V]
 $A = (R4/R1) \times (R1+R2)/(R3+R4)$
 If $R1 = R3$, and $R2 = R4$, then
 $A = (R4/R1)$
 Offset = $(R2+R1)/R1 \times R3/(R3+R4) = R3/R1$
 $P_0 = 1/(2 \times \pi \times R_{in} \times C) = 1/(2 \times \pi \times 200k \times 100pF) = 79.6 \text{ kHz}$



Measurement Input Connectors

Scaling:
 Burden resistors selected to provide +/- 2.5V or +/- 5V for respective sensors.
 LEM LP 2005-S/SP23 => +/- 400mA MAX => [400mA * 6.19 Ohm] = 2.476 V
 LEM LV 25-P => +/- 25mA MAX => [25mA * sept(5) * 140 Ohm] = 4.95 V

J1-J8: Pins 1-2 for LEM Current Sensors [LP 2005-S/SP23] (2000A Current)
 Pins 2-3 for LEM Voltage Sensors [LV 25-P/SP5] (1500Vrms/1500 Vrms)

