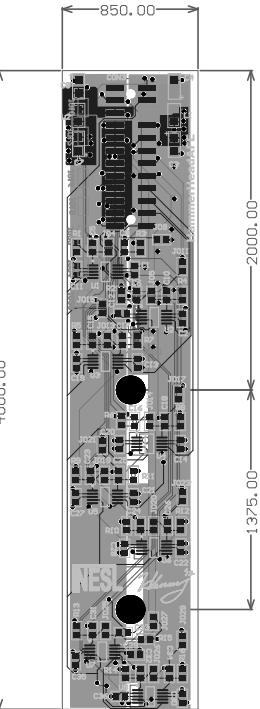


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**H.Herman**

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**H.Herman**

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TITLE

**HammerHeadAFE**

SIZE  
**A**

DWG NO

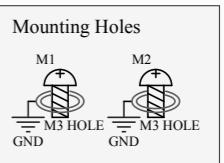
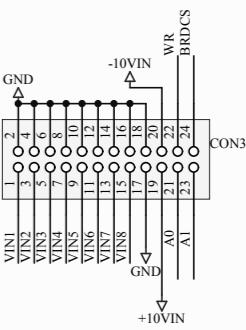
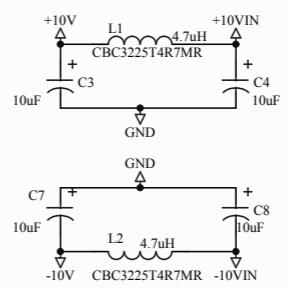
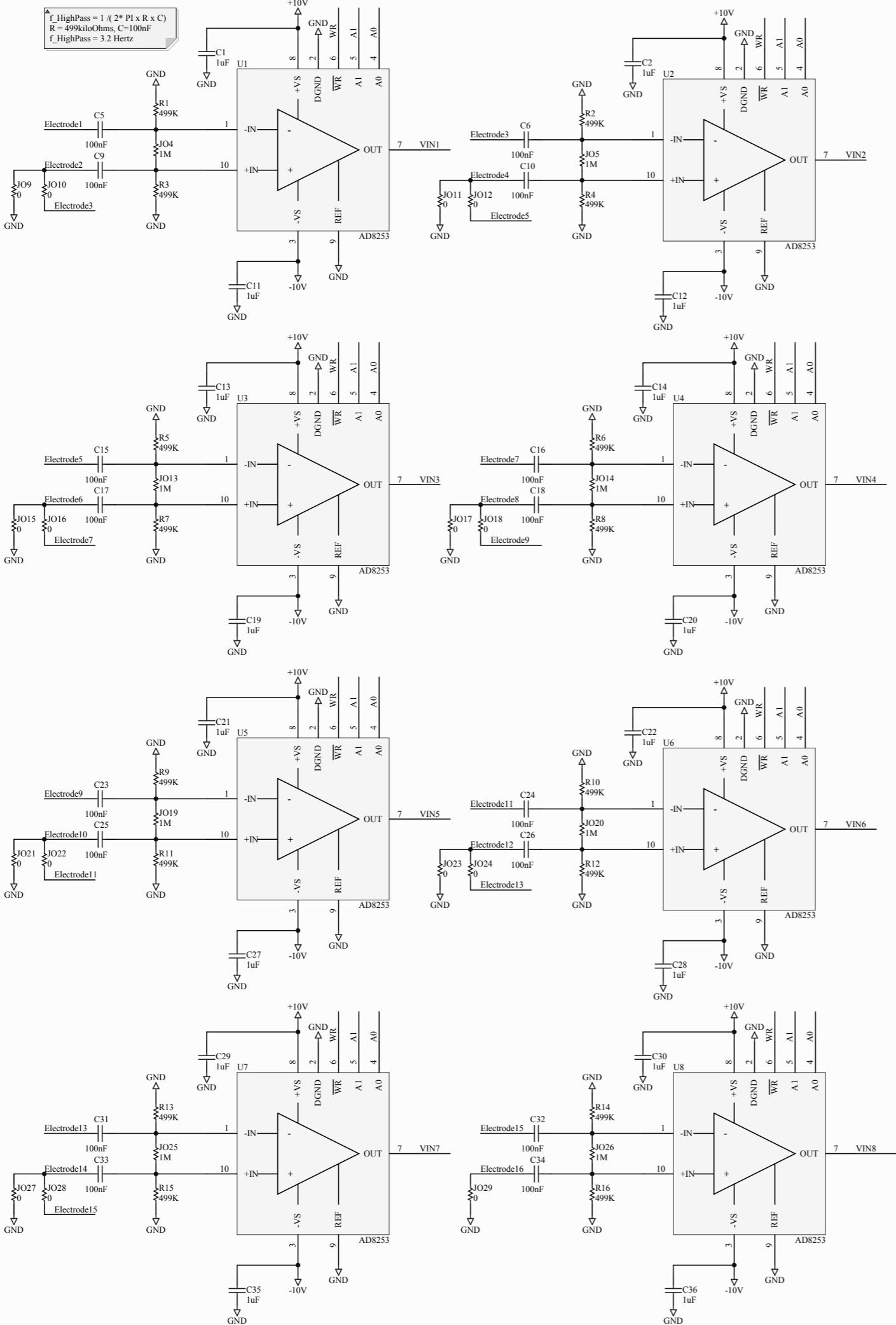
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Electrode2	3 4
Electrode3	5 6
Electrode4	7 8
Electrode5	9 10
Electrode6	11 12
Electrode7	13 14
Electrode8	15 16
Electrode9	17 18
Electrode10	19 20
Electrode11	21 22
Electrode12	23 24
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Electrode14	27 28
Electrode15	29 30
Electrode16	31 32
	33 34

GND 34 Rectangular Header Pin GND

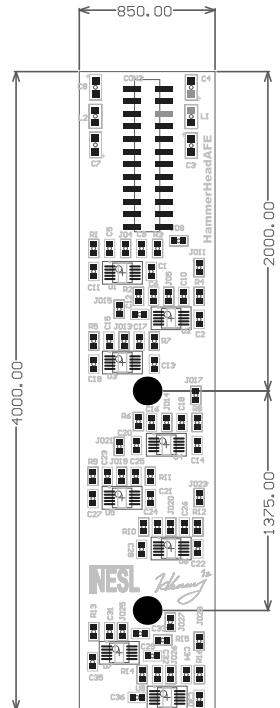
The HammerHead AFE includes 8 instrumentation amplifiers. Jumpers are included to allow adjacent electrode measurement or measurement between two separate electrodes. The AD8253 Instrumentation amplifier is a programmable gain amplifier. Digital values on the A0 and A1 inputs allow selection of the gain from 1, 10, 100, and 1000. It is possible to "latch" the gain selection using the WR pin. Again jumper are included to allow the user to fix the gain or control the gain from an external source. One configuration allows for an AC coupled signal. In this configuration there is a passive high pass filter on the input of each channel. The entire HammerHead AFE is intended for use on the PlatypusDAQ. The PlatypusDAQ has 8 "slots" allowing for a total of 64 channels of data acquisition.



Title		HammerHead AFE	
Size	Number		
C	201209001		Revision A
Date: 9/15/2012	Sheet of 1 of N	File: G:\Dropbox\HammerHead AFE.SchDoc	Drawn By: Henry Herman

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TITLE

**HammerHeadAFE**

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DWG NO

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REV

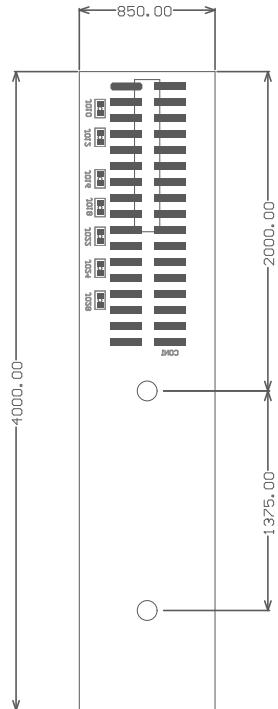
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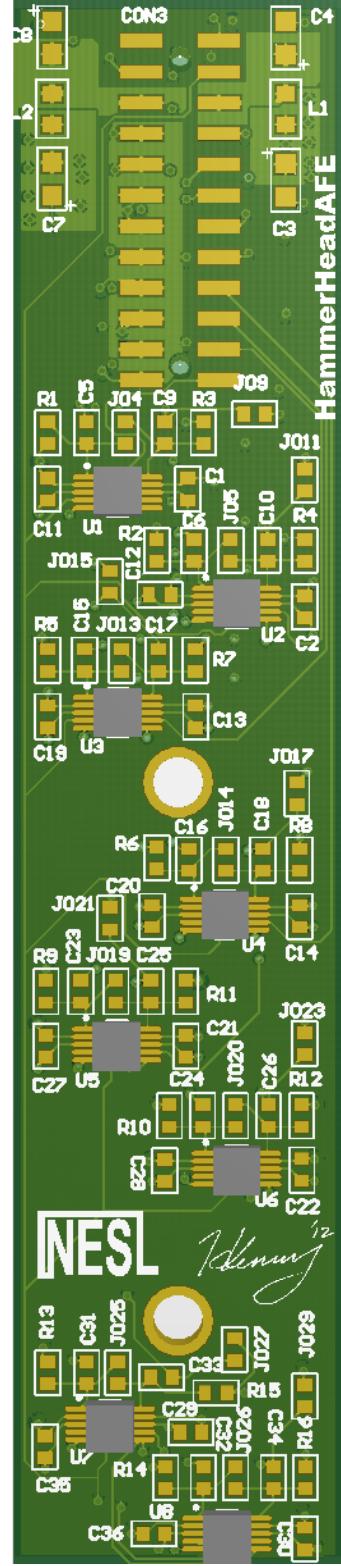
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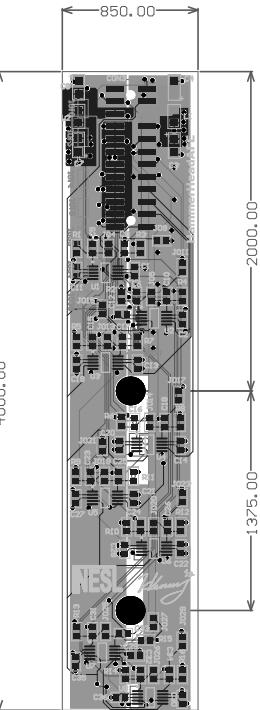
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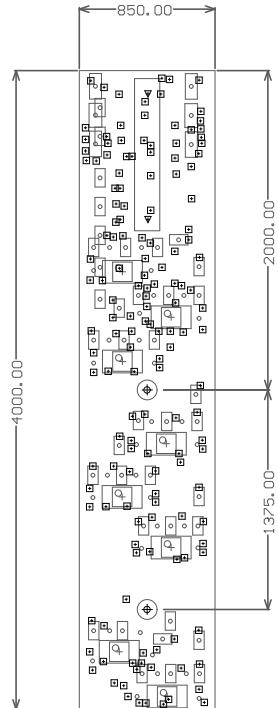
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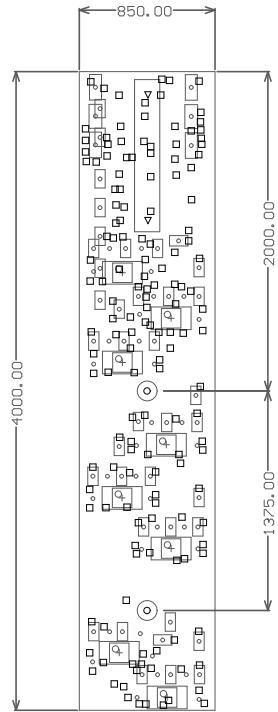
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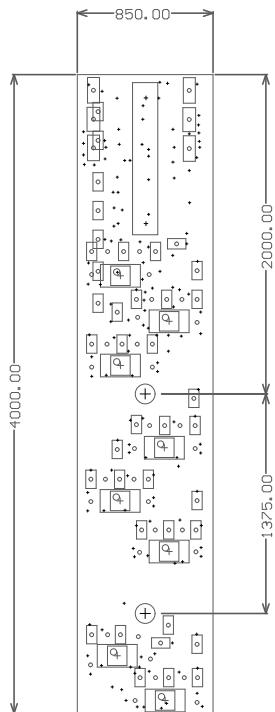
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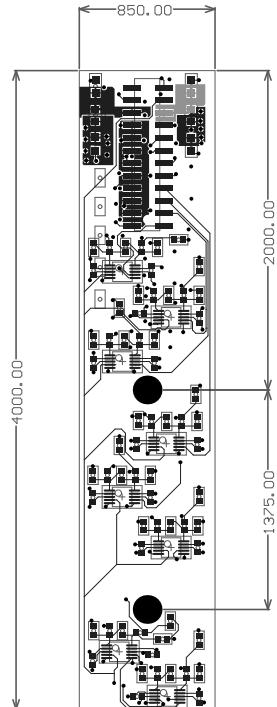
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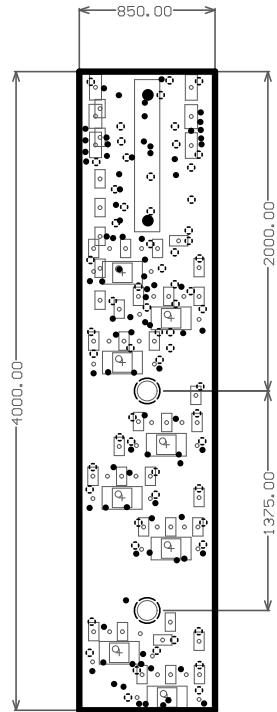
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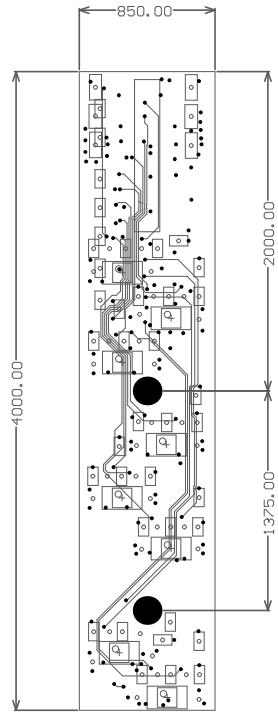
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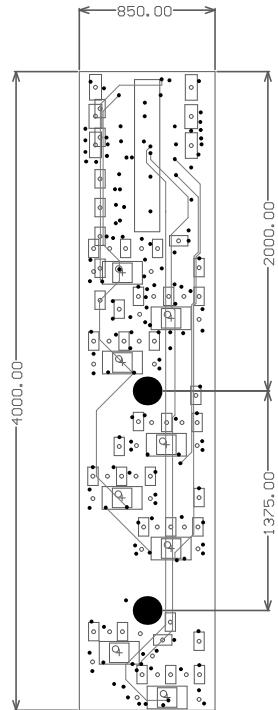
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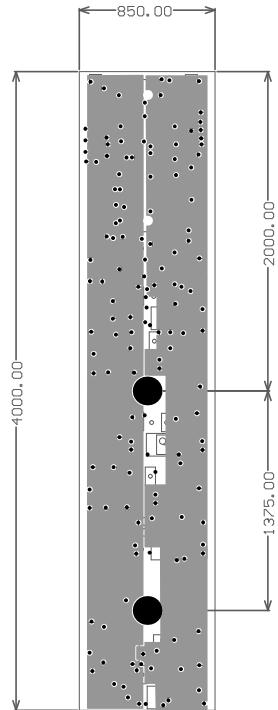
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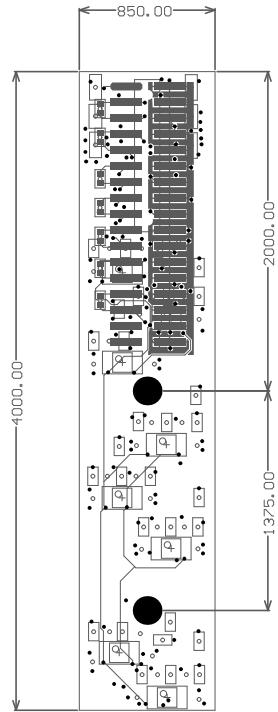
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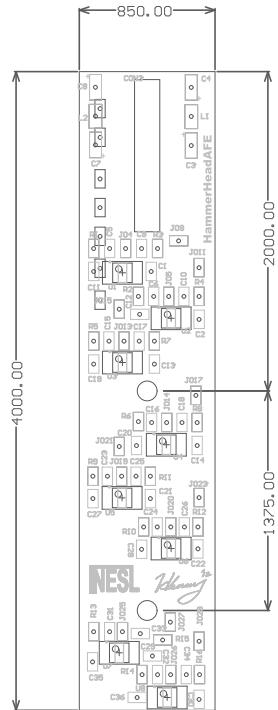
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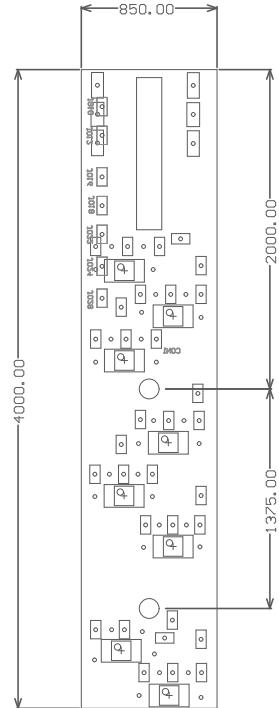
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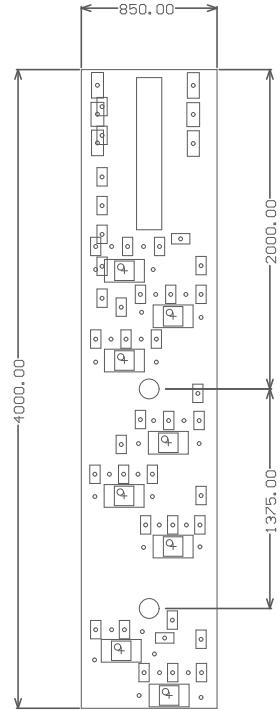
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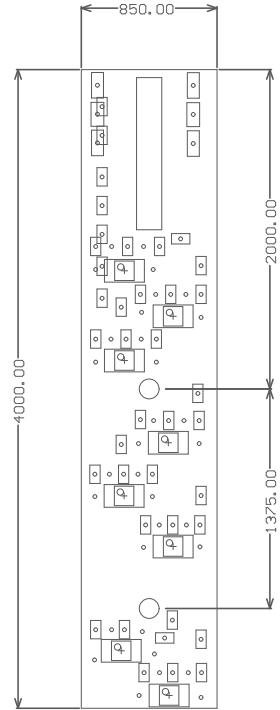
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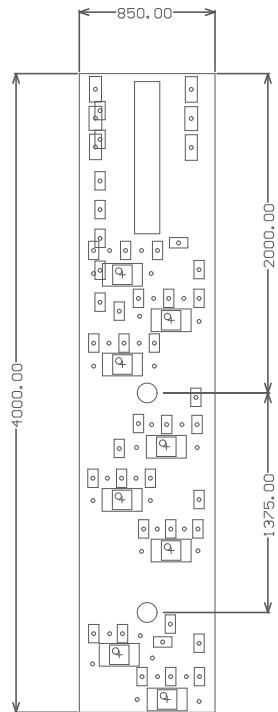
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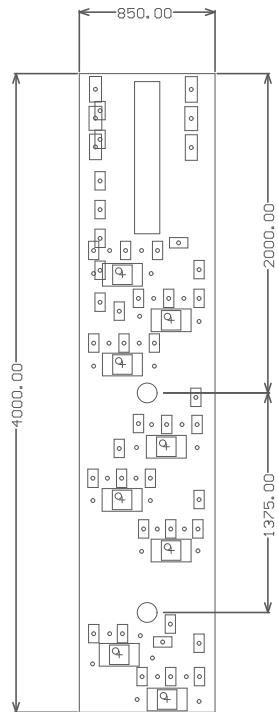
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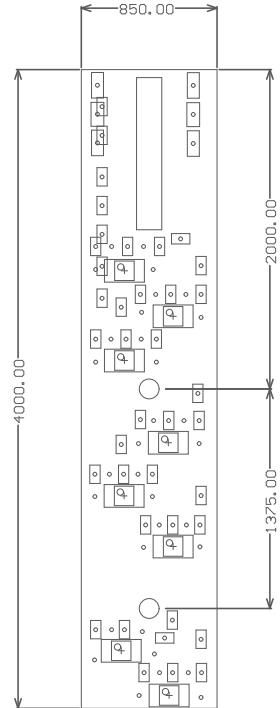
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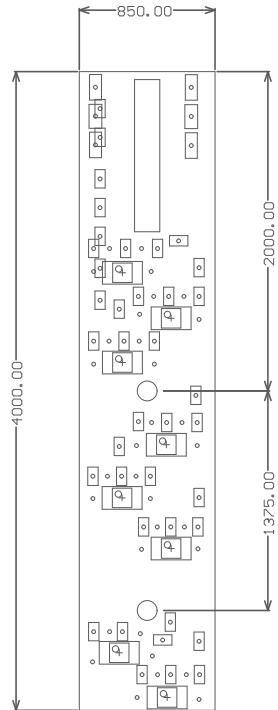
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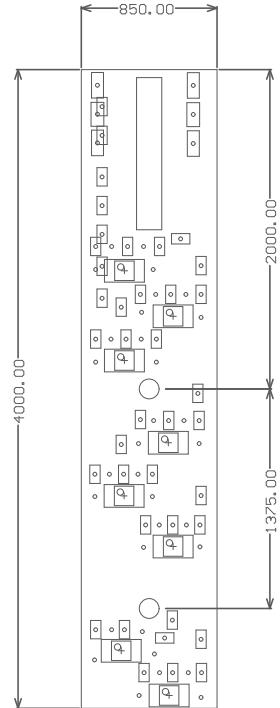
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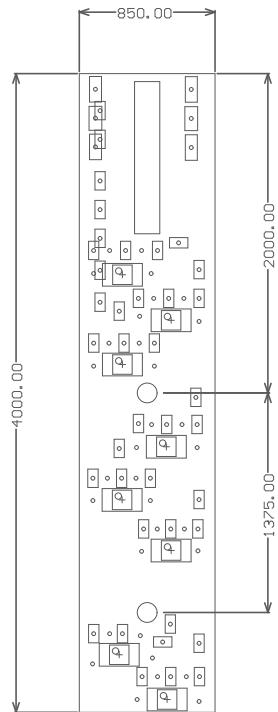
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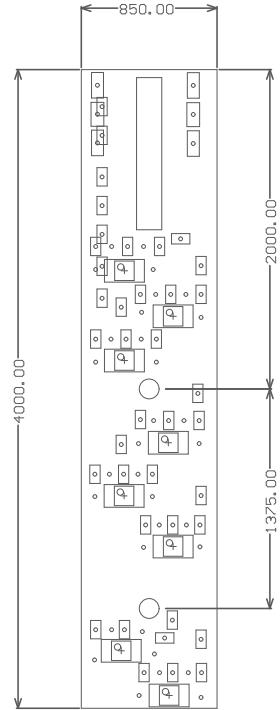
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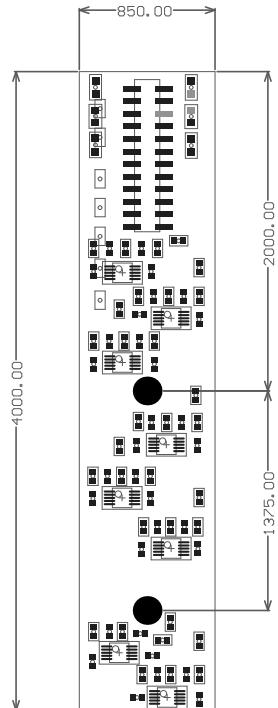
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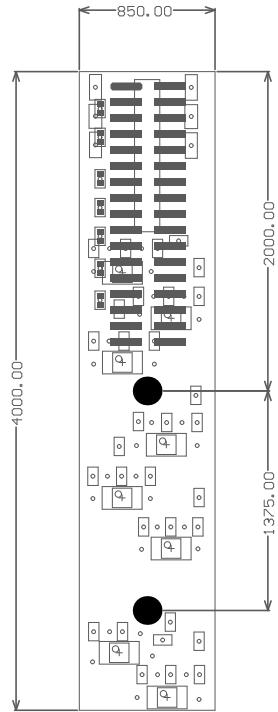
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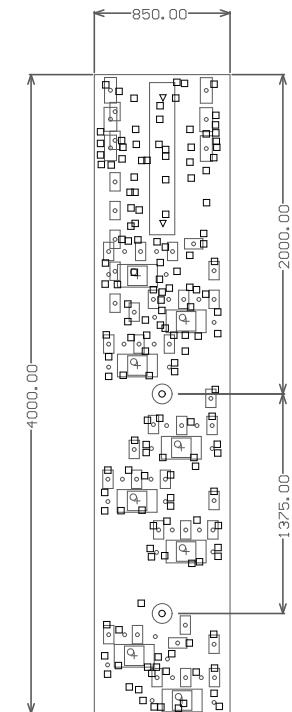
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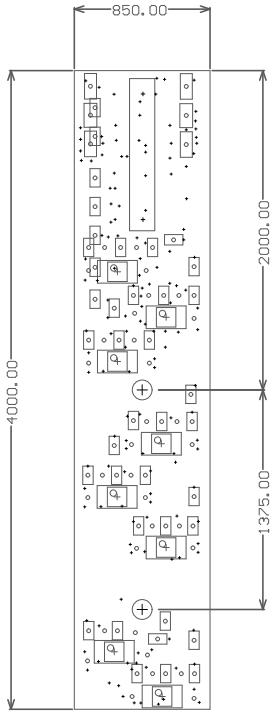
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