

<b>Expat Audio CRC Power Filtering Board .....</b>	<b>2</b>
<i>Introduction.....</i>	<i>2</i>
<i>Revision Control &amp; Edits .....</i>	<i>2</i>
<i>Assembling the board .....</i>	<i>3</i>
<i>Bill of Materials.....</i>	<i>4</i>

## **Expat Audio CRC Power Filtering Board**

For reducing hum problems with the standard GSSL build.

### ***Introduction***

The Expat Audio CRC board is a simple dual rail filter stage designed to lower the noise of the standard GSSL, by reducing power supply ripple.

The board can be easily retrofitted into an existing GSSL build. Simply take the secondary wires coming from the input power transformer into this board, and then take the output to your GSSL main processing board. Your Hum problems WILL be gone.

### ***Revision Control & Edits***

Expat Audio PCB's are typically designed using a X.Y versioning system. Please look on your PCB to see the version number. The silkscreen will either read "version X.Y" or PG X.Y

The CRC Board is currently at version PG1.0.  
The board and silkscreen have no known issues.

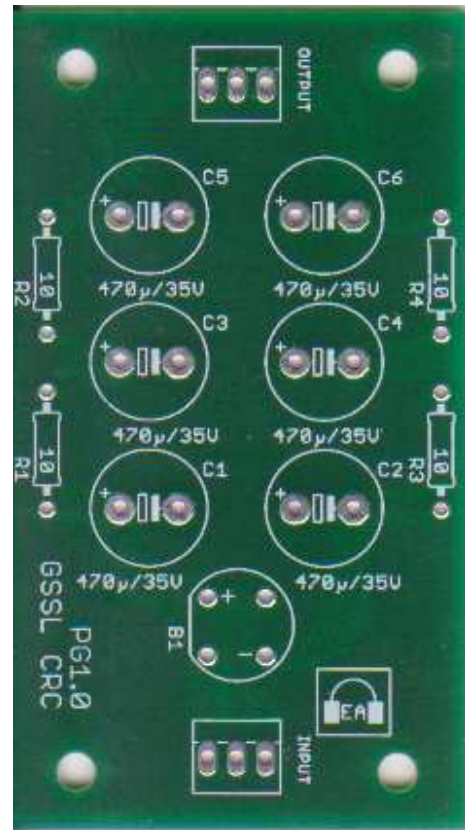
### ***Assembling the board***

Assemble the board by soldering the components according to the board layout shown here.

The design is incredibly simple, with 3 different types of parts: One value of capacitor. One value resistor, and a bridge rectifier

Integrating the part into your current design is a piece of cake as well, simply take the three taps from your transformer into the input of the CRC board, then take the outputs, to the input of the GSSL PCB.

The output pin nearest C5 is the positive output pin, the output pin nearest C6 is the negative output, and the center pin is ground.



## ***Bill of Materials***

6 x 470uF, 35V capable capacitors

4x 1/2W 10Ohm Resistors (material doesn't matter)

1x Bridge Rectifier ~ usually 50V and 1.5A should be enough.