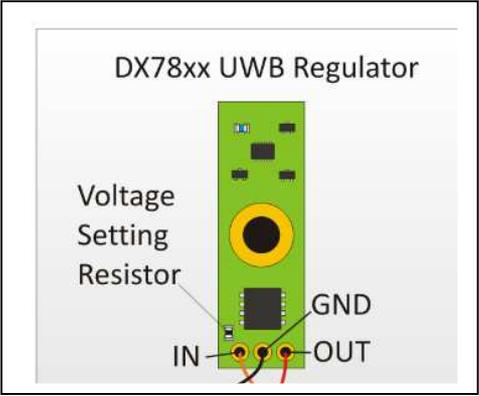
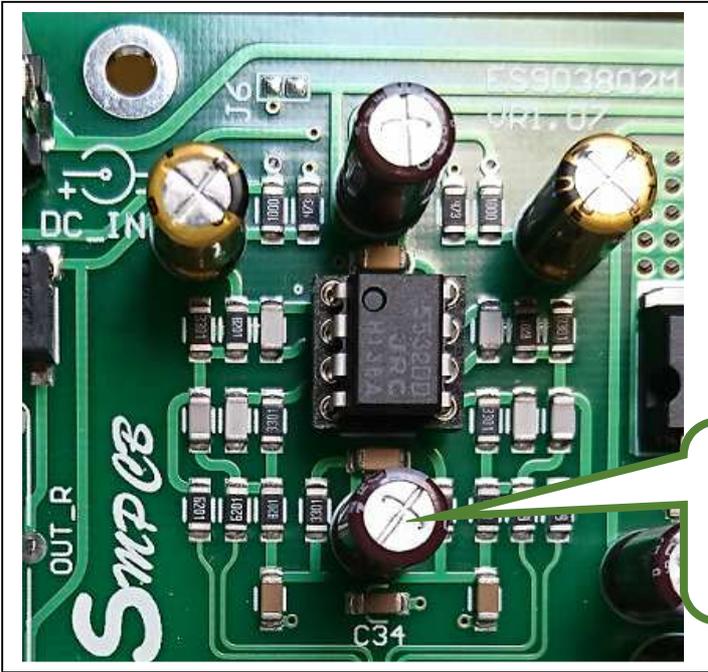
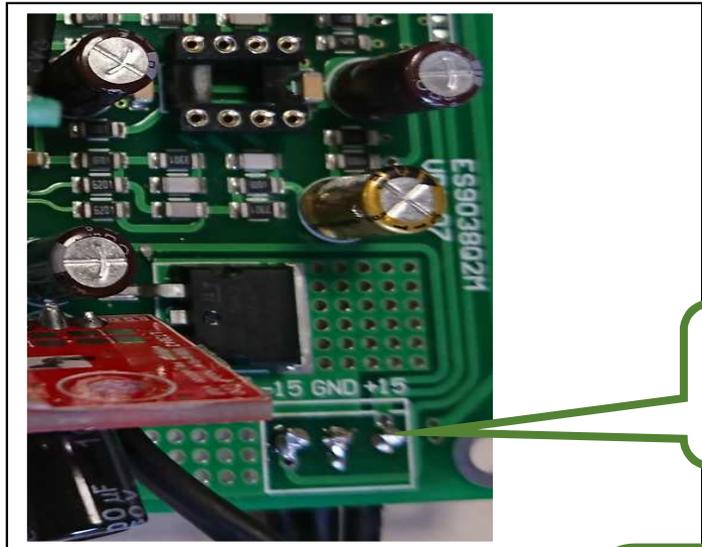


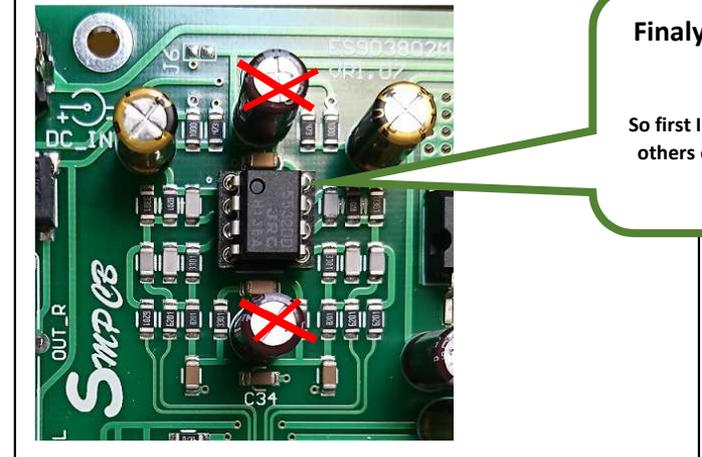
+15v / -15v mods



First I wanted to put the regs in place of the capa.
Not easy , not enough space

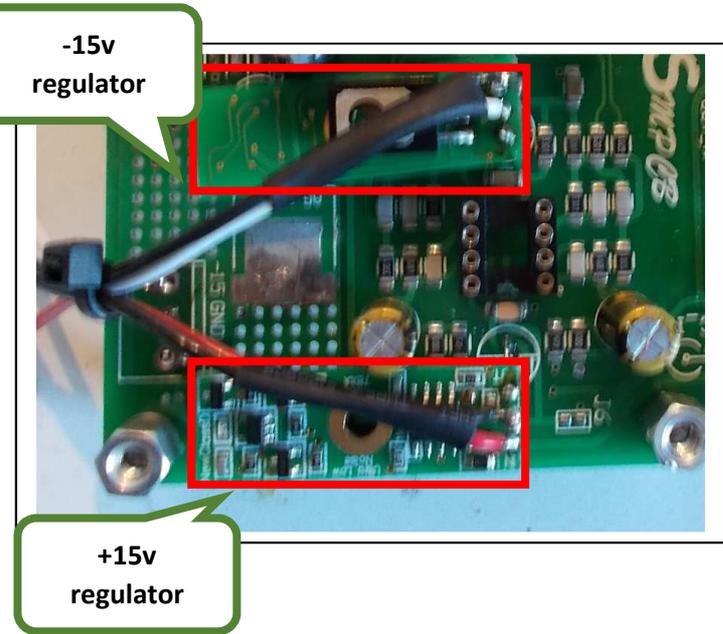
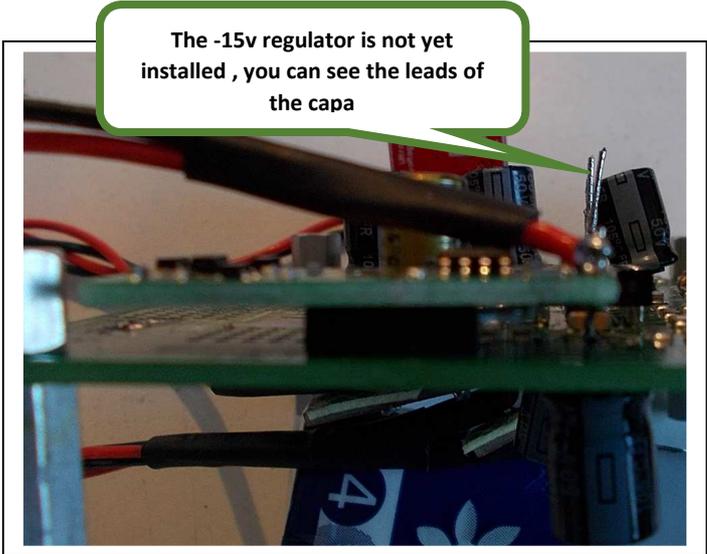
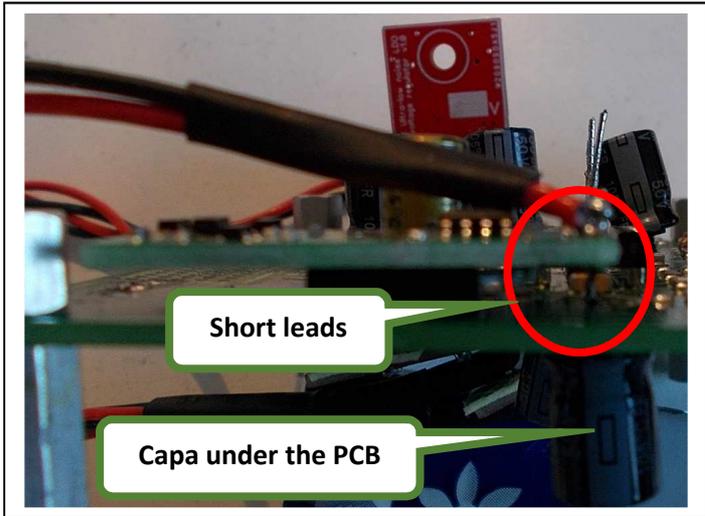
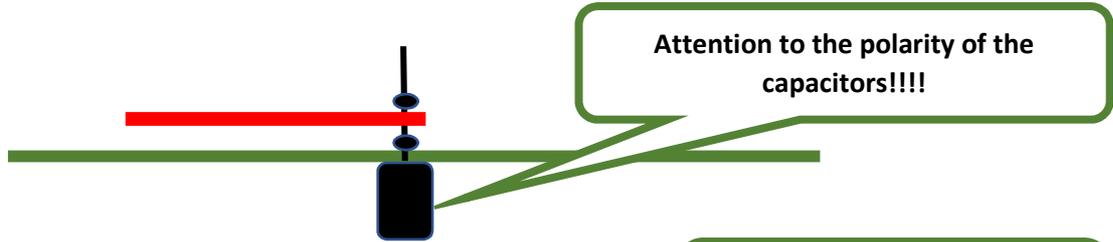


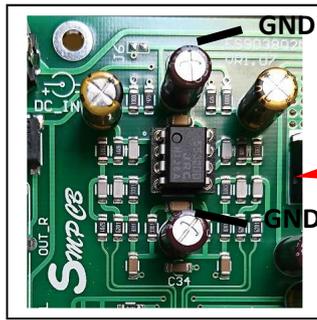
A simple solution is to put directly the regs on the -15v GND +15v inputs.....



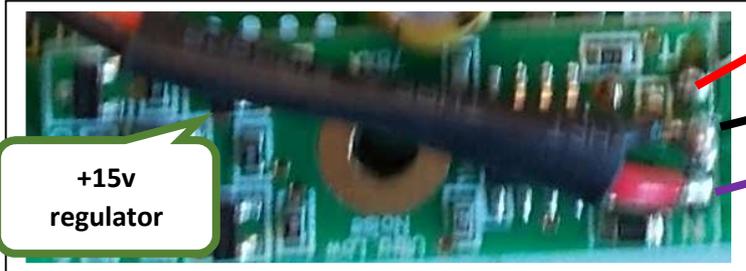
Finally, I decided to solder the regs in place the capa .
So first I removed the two capas and I soldered two others capas under the PCB and used the leads to solder the regs.

+15v / -15v mods Not done





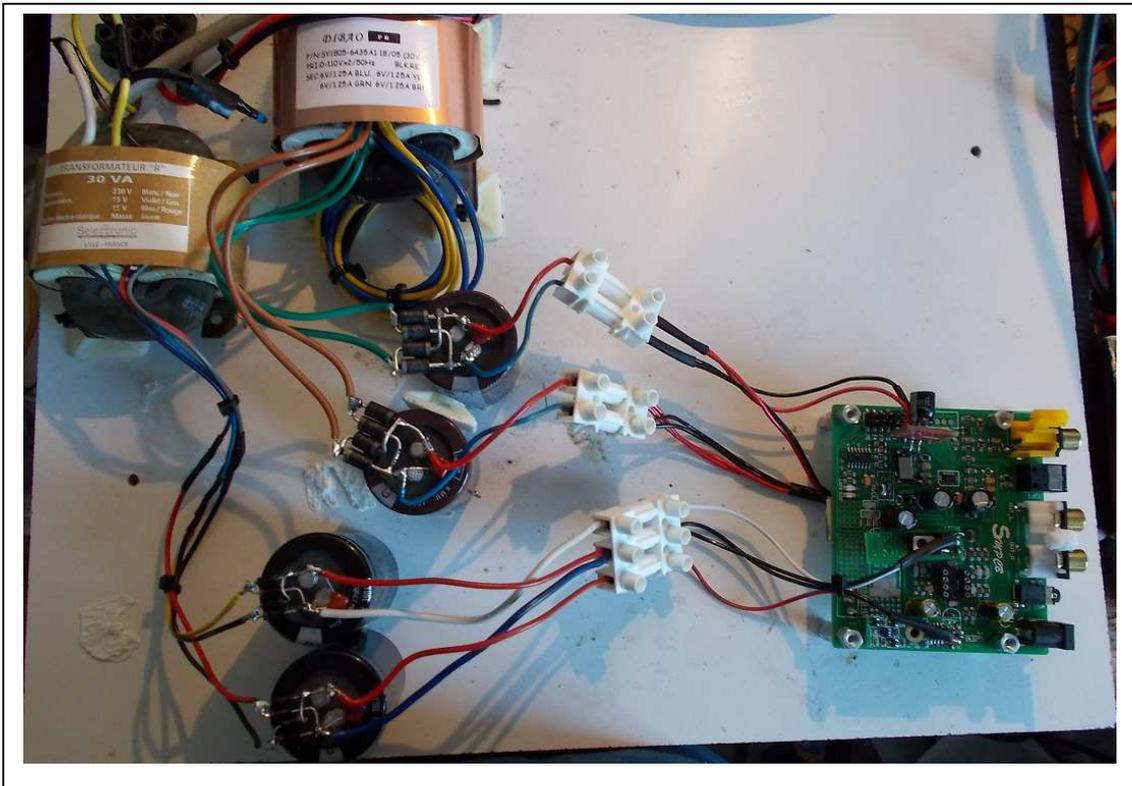
Don't forget the capa polarity , when you replace them under the PCB



+15v (OUT)
GND
+V (IN)



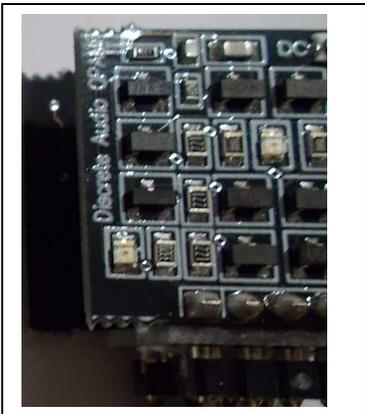
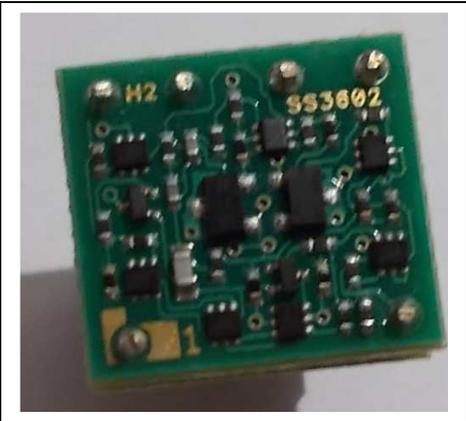
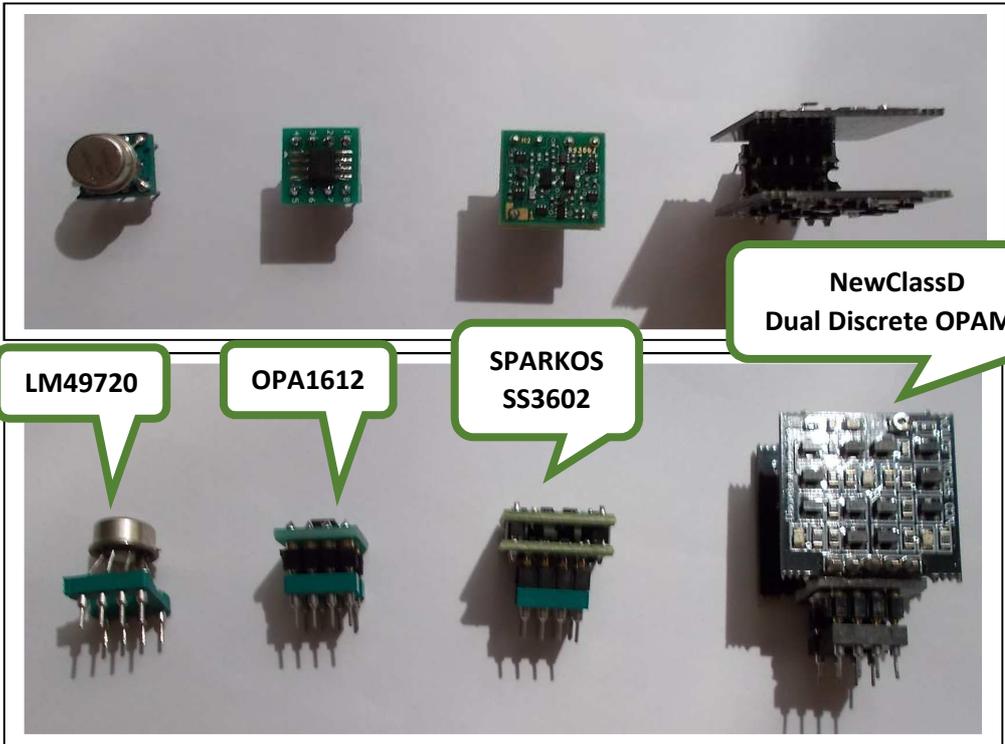
GND
-V (IN)
-15v (OUT)



Op AMP

MARANTZ CD 5004 (modified in transport without DAC)
Woo audio wa6 (5U4G /7N7)
Sennheiser HD650

*To compare the Op AMP, I just disconnect the + 15v / -15v and change Op AMP.
The DAC, the Marantz and the Woo audio wa6 are still powered (same volume).*



<http://www.newclassd.com/index.php?page=122>
<https://sparkoslabs.com/discrete-op-amps/>

**Above all, these conclusions are mine, they only commit me.
The listening is made in particular conditions with precise material.**

For me there are two categories:

Discrete OPAMP : SPARKOS and NewClassD

Both are very good but the SPARKOS is above

Others: LM49720 and OPA1612

It's hard to say which is the best between the LM49720 and OPA1612

The **Discrete OPAMP** are more dynamic, the listening is wider, the instruments better separated.

Definitely for this DAC with the original output stage, I keep and advise the SPARKOS SS3602.

There are other ops but they are expensive so I'll stay there

I hope this document has helped some of you.

If you have any questions do not hesitate to contact me.

Serge