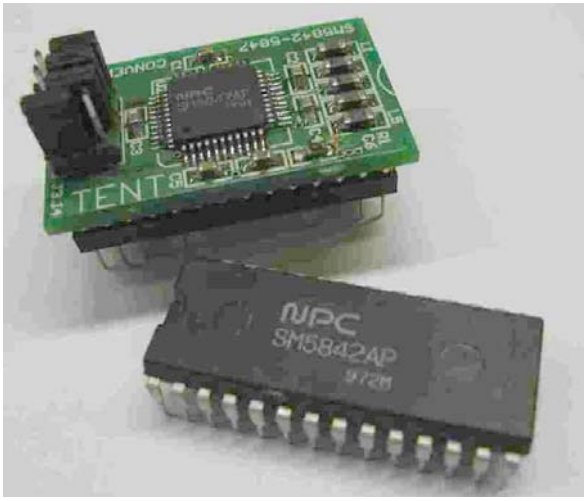
TENTlabs 5842 **plug-in**
Mounting instructions



Above the plug-in using 5847, below the good old 5842

Just for reference, the datasheets can be found here:
http://www.npcamerica.com/Datasheets/SM5842.pdf
http://www.npcamerica.com/Datasheets/SM5847.pdf

Mounting instructions

General
Make sure you work in a safe environment, with sufficient space and light. Make sure the CD player or DAC is disconnected from the mains.

Tools
The following tools are required
- Soldering iron with small tip, <50W
- Small cutter
- Pair of tweezers
- De-soldering pump, litze
- Screwdrivers

ESD
The plug-in itself is rather insensitive to any discharge you can generate. However, always take precautions:
- Wear shoes that do not contribute charging you (you probably know best which ones to avoid……)
- Always touch (hand, tool or solder tip) the cabinet of player or DAC first before anything else on the boards
- Avoid touching pins of components directly. Instead, try picking them up by their body

Mounting
The use of a DIL28 socket is advised. It will simplify the mounting procedure, and prevent any possible damage to a minimum.
In the case of replacing a defect chip, copy the indication of the arrow or dot (usually at the left) from the chip to the PCB.

Remove the old chip by carefully de-soldering all pins (use litze or de-soldering pump).

Mount the new socket in place, while respecting the orientation as marked before.

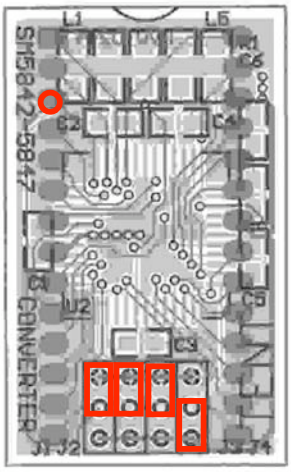
The plug-in will not be mounted yet, first let us look at the jumper settings.

Jumper settings

General DAC and CD player
4 jumpers are present; the lower position refers to "low", and vice versa.
The SM5847 datasheet will help you setting jumpers for your own design, if not already clarified by design:

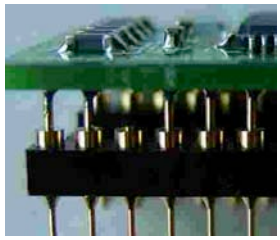
	Pin/name	function	Suggestion
J1:	1, OMD	output data rate	high
J2:	24, CKsln	master clock select	high
J3:	34, CKdv1	int. clock select 1	high
J4	35, CKdv2	int. clock select 2	low

DAC design
These settings refer to our own DAC design (LINK):
J1: high
J2: high
J3: high
J4: low



In addition, pin 3 needs to be cut away, as in the picture at the right (3rd pin from the left).

Cut at socket side and de-solder at PCB side. If in doubt, please ask when ordering.



After assuring the jumpers are set correctly, the plug-in can be mounted. Again take are of correct orientation, respecting the correct indication.

Happy listening !