

Preliminary instruction for NewClassD Low Noise tracking regulator.

Before turning on power:

If the unit is with on-board transformer, make sure to set the mains voltage setting correctly. Done by the 3 1206 jumpers near the mains terminal. In case of 115V, use the two jumpers on the sides, in case of 230V use the one in the middle only.

Set the mode to one of the following by adding solder to one (and one only) of the jumpers located next to the 8 pin IC.

15V mode is fixed +/-15V output.

5V mode is fixed +/- 5V output.

VAR mode is variable, which allow you to adjust the output voltage from +/- 0 - 15V.

Before connecting your load, turn on the power, and check the output voltage to be correct for your circuit.

Upon power a blue LED will light up to indicate power.

Low power mode.

The output transistors can be mounted on the board itself, and can provide up to 100mA of average current. Peak current is > 1.5A. In this mode a mains transformer can be mounted on the circuit board for simple connection.

This mode is for use with low noise audio applications such as preamplifiers, RIAA amplifier, MC stage, class D input stage, etc. It is recommended to connect 100uF from each output to GND, if it is not on your audio circuit, it should be connected to the output terminal of the regulator. (Included).

High power mode.

The output transistors are mounted on the heat sink location, next to the output terminal. The connections are the same as the on-board location, but in this location, it is easier to mount the board on a heat sink. The transistor pins are bent upward, and screwed onto the bottom heat sink plate. Then when the PCB of the regulator is also in place, and the transistor pins are placed in the holes on the PCB the pins can be soldered.

T1 - T1A are 2SD2374A

T2 - T2A are 2SB1548A

Only one of the transistor locations can be used, do not use both.

In the high power mode, use a toroid transformer of 12 - 0 - 12 - 0 VAC, and 30-50 VA depending on load requirement.