

AudioWind Electronics-Salon

SPECIFICATION

Model: SP2 (A-240/xxV)



Positive/Negative Voltage Regulator Module

Based on 78xx / 79xx regulator IC design, recommended for preamplifier circuits.

Version	Input voltage, AC	Output voltage, DC	Output Current
A-240/5V	Dual 6.7 to 24V	+5V / -5V, (Tol. $\pm 0.2V$)	10mA to 1A
A-240/6V	Dual 7.5 to 24V	+6V / -6V, (Tol. $\pm 0.25V$)	10mA to 1A
A-240/8V	Dual 8.9 to 24V	+8V / -8V, (Tol. $\pm 0.3V$)	10mA to 1A
A-240/9V	Dual 9.6 to 24V	+9V / -9V, (Tol. $\pm 0.35V$)	10mA to 1A
A-240/12V	Dual 11.8 to 24V	+12V / -12V, (Tol. $\pm 0.5V$)	10mA to 1A
A-240/15V	Dual 13.9 to 24V	+15V / -15V, (Tol. $\pm 0.6V$)	10mA to 1A
A-240/18V	Dual 16.0 to 24V	+18V / -18V, (Tol. $\pm 0.7V$)	10mA to 1A
A-240/24V	Dual 20.3 to 28V	+24V / -24V, (Tol. $\pm 1V$)	10mA to 1A

Note:

- 1, Dual input: AC1~0V~AC2 three wires mode, or AC1~0V, AC2~0V four wires mode
- 2, Power transformer no-load voltage must be less than 24VAC (A-240/24V is 28VAC).
- 3, If output no-load, test output voltage may will inaccurate, so test voltage please connect load.
- 4, As the heatsink size limit, each regulator IC power dissipation must less then 5 watts, about allow maximum output current, please according the following formula to calculate:

$$\text{Max. output current (A)} = 5 / ((V_{inAC} \times 1.414) - 1.4 - V_{outDC})$$

For example, if input voltage is dual 18VAC and output is +/-15VDC, the allow maximum output current is 0.55 Amp.

Size:

L 91 x W 68 x H 40mm.

L 3.58 x W 2.68 x H 1.57 inch.

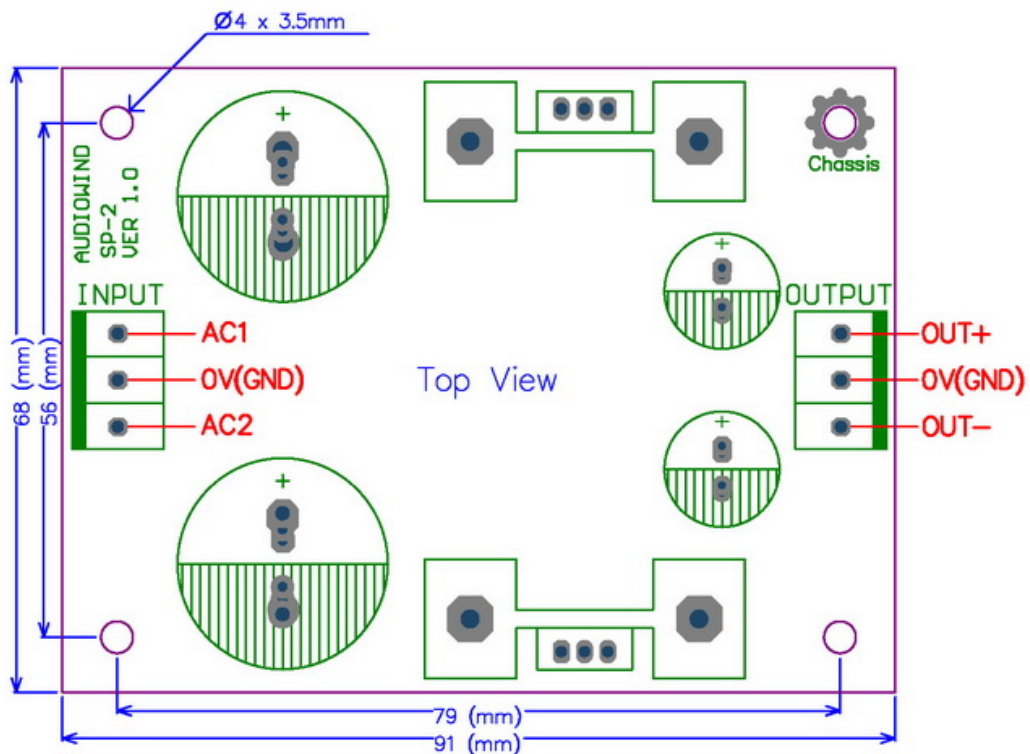
This is a very typical voltage regulator circuit, other electrical specifications please read IC datasheet:

http://www.datasheetcatalog.com/datasheets_pdf/L/7/8/0/L7805CV.shtml

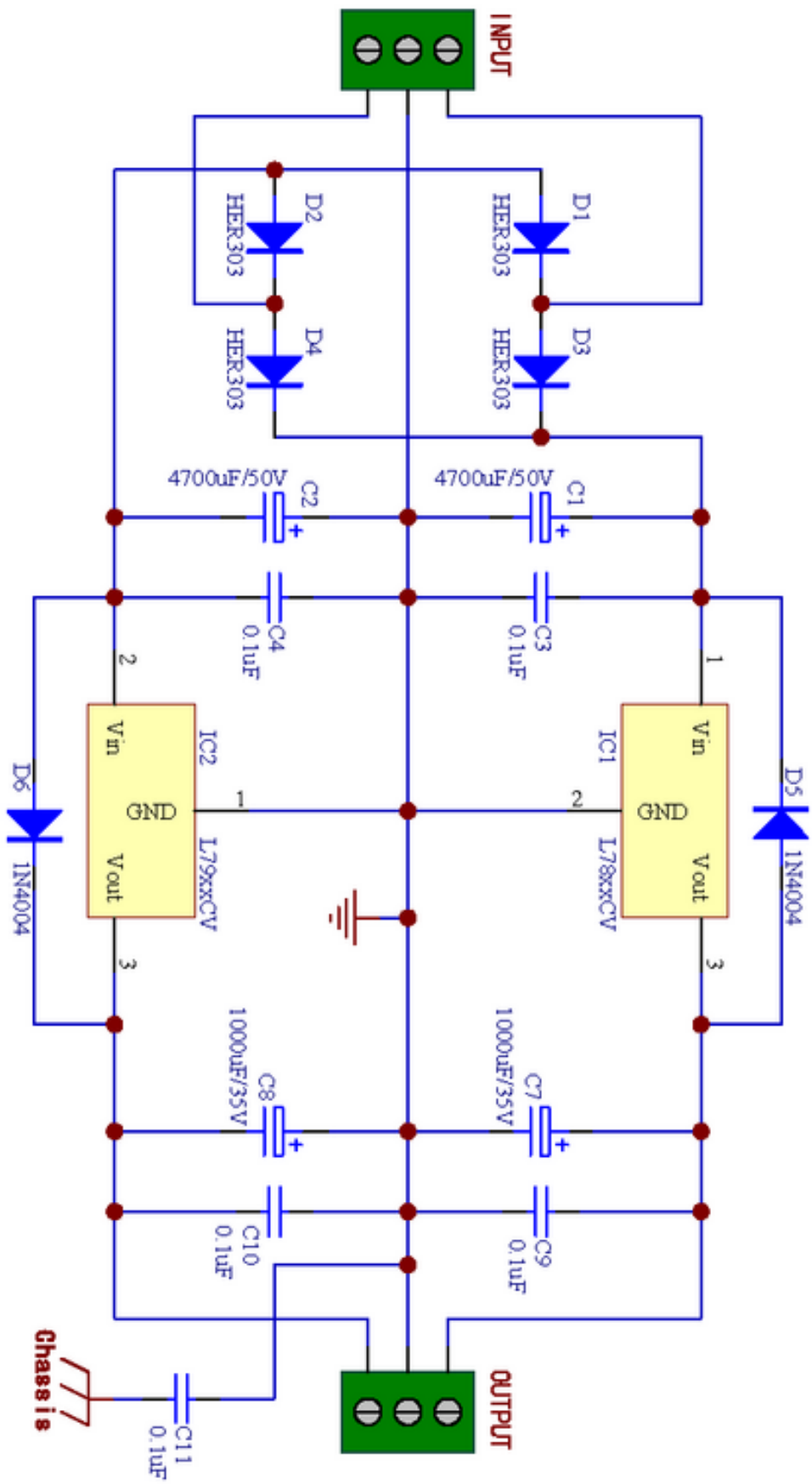
http://www.datasheetcatalog.com/datasheets_pdf/L/M/7/9/LM7905.shtml

Any questions feel free to tell me: Jianglily2005@gmail.com

PCB Size and Terminal Connect:

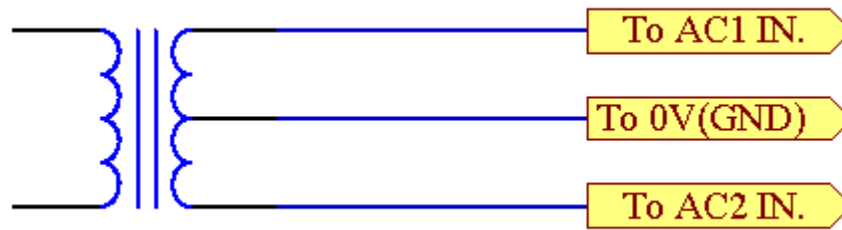


Schematic:



Input Connections:

For 3 wire output power transformer



For 4 wire output power transformer

