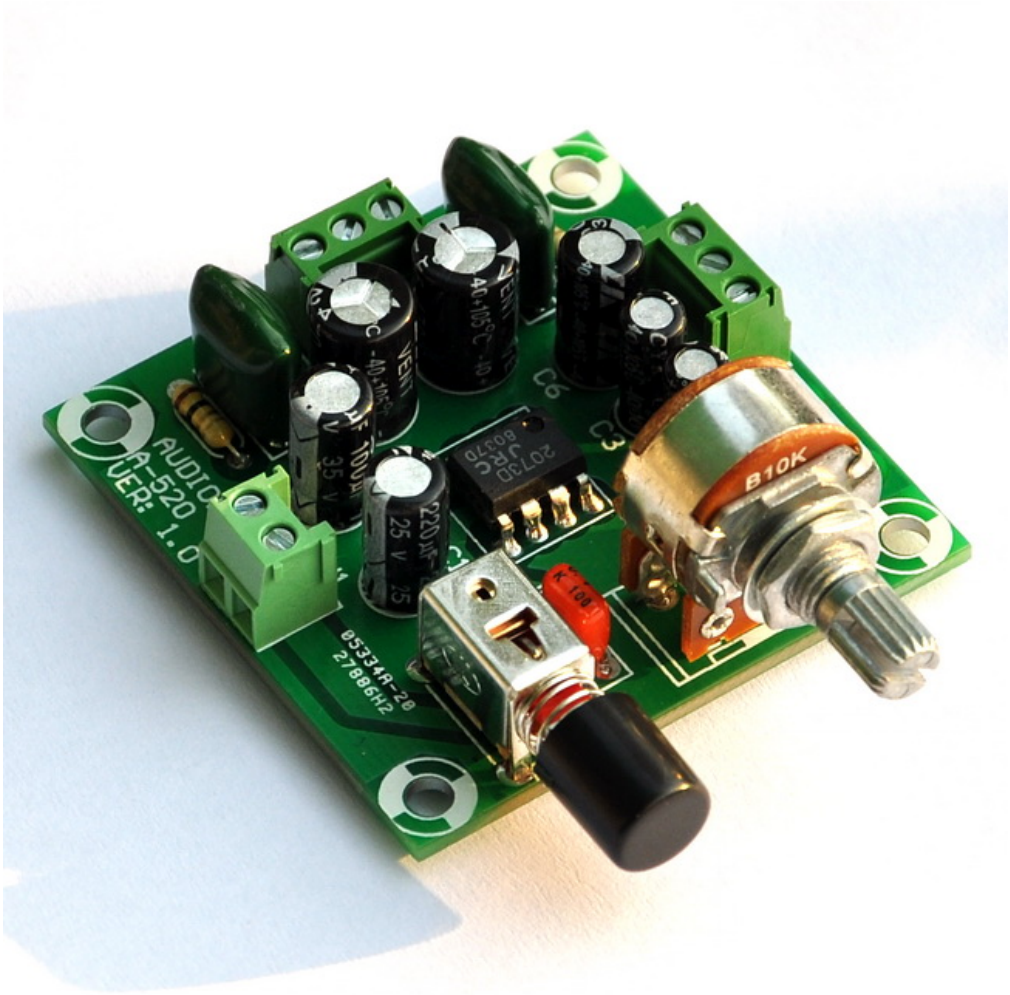
AudioWind
Electronics-Salon

Stereo 0.7 Watt Audio Power Amplifier

Model: A-520



Dual Channel (Stereo) 0.7 Watt Audio Power Amplifier

Based on JRC NJM2073D IC design

Specifications:

Operating Voltage: 1.8 to 15V DC.

Operating Current: 6 to 9mA (Without Load).

Input Impedance: 10K OHM.

Voltage Gain: 44 +/-3 dB.

Output Power: Dual 0.7 Watt (@9V DC, THD=1%, 8 OHM Load).

Frequency Response: 60 Hz to 100 KHz. (-3dB).

THD: 0.2% (@6V DC, 0.2 Watt, 8 OHM Load).

Channel Separation: 50dB (@1KHz).

Size:

PCB Size: 50 x 50 mm (1 x 1 inch).

Module Size(W x L x H): 50 x 65 x 25 mm (2 x 2.6 x 1 inch)

This is a very typical NJM2073 amplifier, detailed electrical specifications please read JRC datasheet:

http://www.datasheetcatalog.org/datasheet/newjapanradio/de05009.pdf

Any questions, feel free to tell me, my email:

Jianglily2005@gmail.com

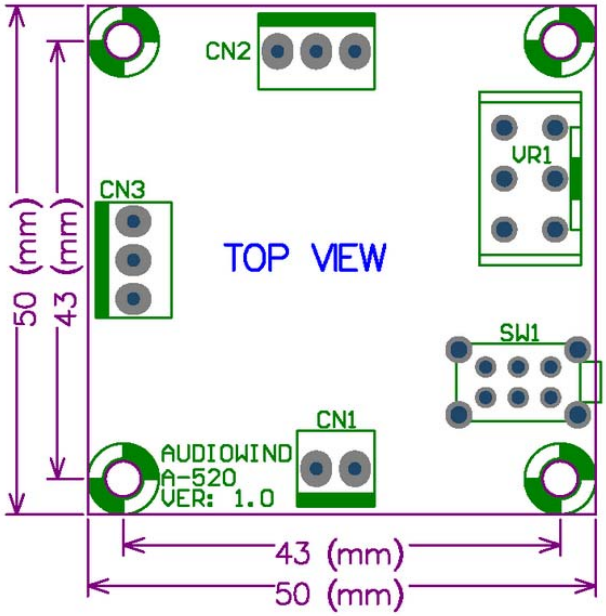
Load Impedance VS Operating Voltage

Speaker Impedance	Operating Voltage
4 OHM	1.8 to 6V DC
8 OHM	1.8 to 9V DC
16 OHM	1.8 to 12V DC
32 OHM	1.8 to 15V DC
> 32 OHM	1.8 to 15V DC

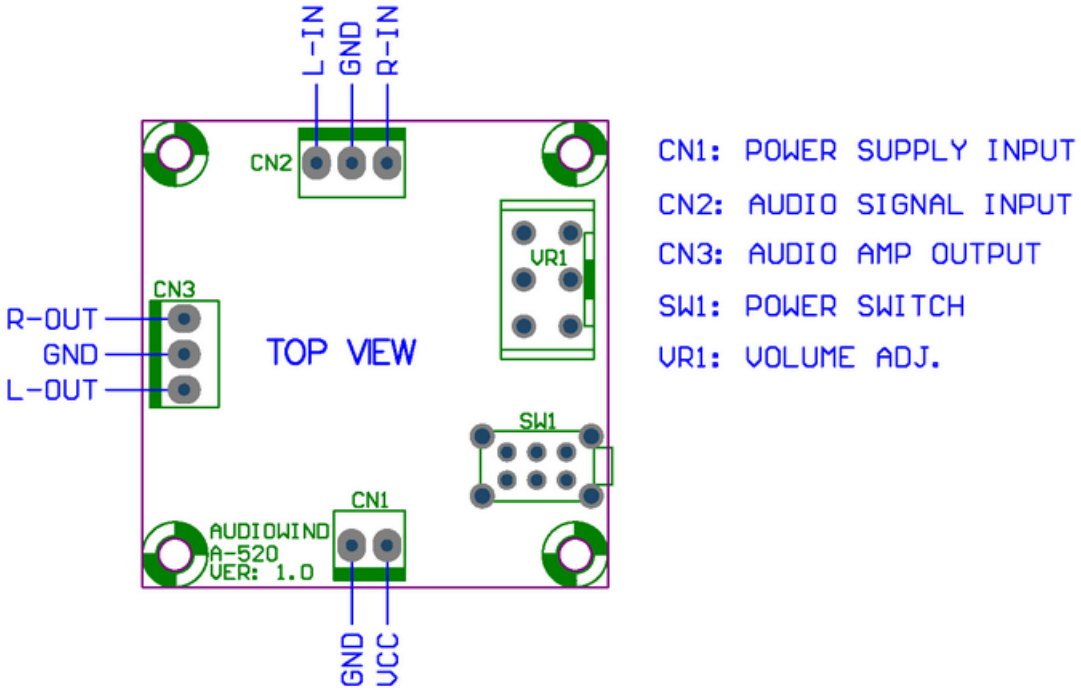
Operating Voltage VS Output Power (THD 1%)

Speaker Impedance	3V	4.5V	6V	9V	12V	15V
4 OHM	0.1W	0.25W	0.5W	X	X	X
8 OHM	0.06W	0.15W	0.32W	0.7W	X	X
16 OHM	0.04W	0.1W	0.18W	0.45W	0.85W	X
32 OHM		0.05W	0.1W	0.25W	0.45W	0.75W

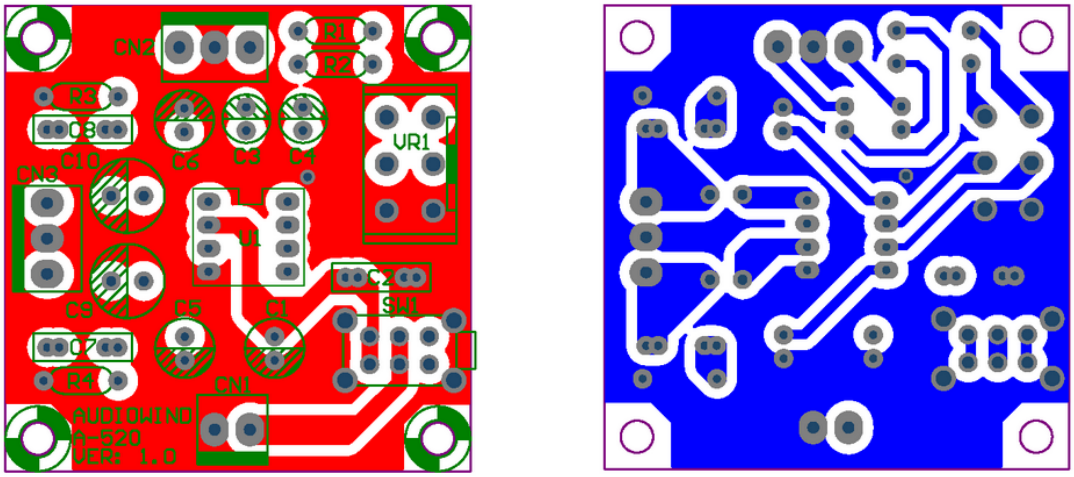
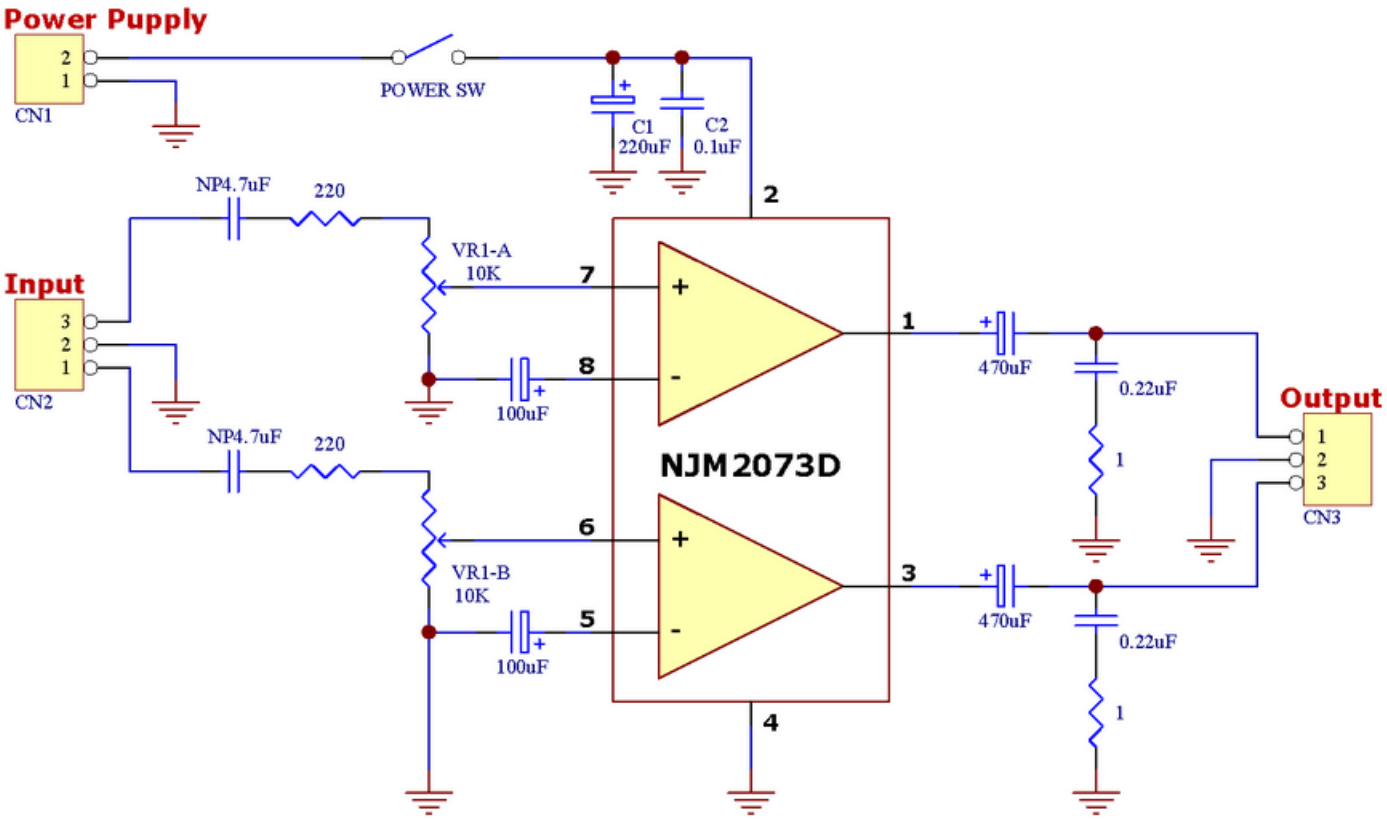
PCB Size:



Wring Diagram:



PCB Layout:



Schematic: