**DIY Powerful mini Audio Amplifier circuit TDA2050**

Today i will show you how to make simple and powerful amplifier circuit at home first let's understand the basics in the circuit diagram this amplifier circuit can be powered by 12012 transformer with minimum rated at 2 amperes the bridge rectifier needed to convert ac to dc and should be also at least 2 amperes these two filter capacitors for negative to ground and also same to filter capacitors for positive to ground here is audio input through this one uf capacitor here comes the output for speaker and the main amplifier ic used is tda2050 for easy assembly of the me now it is time to place all the components on pcb according to the description also i have provided pdf layout files in case you would like to make pcb at home now let's solder all components on pcb now our soldering is complete and it is time to trim excess leads of components also you can use isopropyl alcohol to clean the flux residue now our pcb looks nice and clean use a small heatsink for ic and use heatsink thermal paste for effective transfer of heat mount heatsink using a nut bolt now our circuit is ready to test use 12012 2 amperes transformer you can use 50 to 100 watt speaker i used this aux connector for audio input you can also use volume bass and treble control circuit that.

**Components:**

R24, R27 : 22k

R26 : 680R

R28 : 2.2k

R29 : 1k

C21, C22 : 100nF

C23 : 220uF

C24 : 470nF

C25 : 220uF

C15 : 22uF

C14 : 1uF

D8 : Led 5mm

D7 : Diode bridge

U3 : TDA2050