

Kit 27. 1W TDA7052 POWER AMPLIFIER

This is a 1 watt mono amplifier Kit module using the TDA7052 from Philips. (Note, no suffix.) It is designed to be used as a building block in other projects where a battery powered, audio amplifier is required.

The kit is constructed on a single-sided printed circuit board (PCB). Protel Autotrax and Schematic were used to design the board.

ASSEMBLY INSTRUCTIONS

Assembly is straight forward. Make sure you get the integrated circuit and the capacitors are the correct way around. The electrolytic capacitors are polarized; they have a + or - marked on them and they must be inserted correctly into the PCB.

CIRCUIT DESCRIPTION

The data sheet contains all the necessary information about the TDA7052. You may download it from the software download page on our website at

<http://kitsrus.com/soft.html>

Here are the main points:

- the module has a low component count
- no external heatsink is needed
- it is short circuit protected
- ideal for 3V - 15V battery operation into an 8 ohm speaker

| COMPONENTS | | |
|-----------------------------|----|---|
| Capacitors: | | |
| 2.2uF electrolytic | C1 | 1 |
| 100nF ceramic/mono | C2 | 1 |
| 100uF electrolytic | C3 | 1 |
| Kit 27 PCB | | 1 |
| 10K Piher log potentiometer | | 1 |
| 1K resistor 5%, 1/4W | R1 | 1 |
| Spindle for potentiometer | | 1 |
| TDA7052 chip | | 1 |
| 8 pin IC socket | | 1 |

