



English



Category - Modules

Description: Audio mosfet module 1x100W

Code: FET 100

1. Contents of the kit:

- Audio module 100 W (1 x 100W RMS @ 4 Ohm).
- User Manual – English
- One set of connectors

2. Description:

- PCB board type FR4 double layer, (35 microns)
- PCB board dimensions: 80 x 40mm
- Max output power : 120watts RMS @ 4Ohm @1% THD @±60V)
- Amplifier type : MOSFET class AB : IRFP240, IRFP9240
- Easy to fit in amplifier enclosures

3. Characteristics:

- DC supply voltage $\pm 18V \dots \pm 45V$ DC
- Supply current: max. 3A
- Quiescent current: 60... 120 mA
- Output power (Watts RMS) at 0.01% THD+N
 - $V_{cc} = \pm 45 V$, $R_{out} = 8 \text{ Ohm}$ - 65 W.
 - $V_{cc} = \pm 45 V$, $R_{out} = 6 \text{ Ohm}$ - 80 W.
 - $V_{cc} = \pm 45 V$, $R_{out} = 4 \text{ Ohm}$ - 100 W.
- Frequency response 16Hz... 35KHz. ($\pm 3\text{dB}$)

4. Connecting and wiring the amp:

- It is necessary to use an appropriate heatsink (not included). **Never test or use the kit without a heatsink!!!**

- Connect the audio signal input connector. Please note that is very important to mount a potentiometer between the kit and the audio signal source or you can use a preamplifier. We recommend using a low level audio signal source, like a CD-Player, Mp3-Player or other audio source with low level output. Never use the kit connected to the output of another power amplifier!

- Before connecting the wires from the supply unit, please check the power supply first. Maximum voltage must be $\pm 55V(+55V \text{ GND} -55V)$, with max 4A fuses (slow blow types) mounted after the reservoir capacitors (minimum 4700uF/63V).

- Finally connect the speaker at the output.

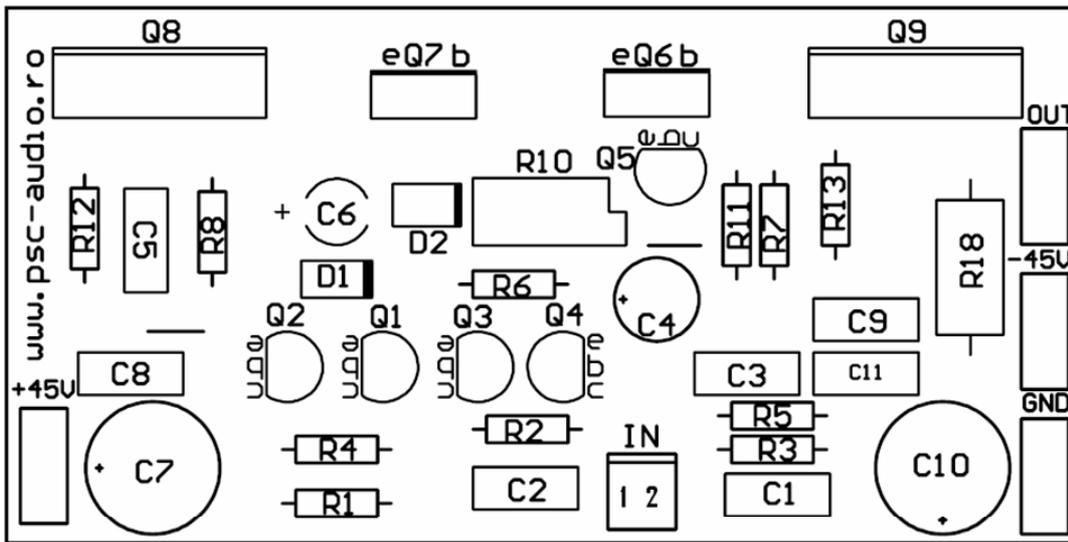
- The kit is delivered with bias adjusted to minimum. It must be adjusted properly using an ammeter in series on the positive rail. The ammeter should indicate a value of the quiescent current (input connected to ground and no output) between 120-180mA.

We can adjust the quiescent current on demand.



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5. Details:



6. Pins Description

Connector Type	Function	Pin List	
		Pin	Description
In	Audio In	1	GND
		2	Audio In
Out	Audio Out	OUT	Audio Out
ALIM	Power	-45V	Vdd (-55V)
		+45V	Vcc (+55V)
		GND	GND

6. Recommendation:

- Use the power protection circuit DC – KIT128 (see our shop for details)
- Use a 250VA power transformer, with 2 secondaries of 20V.....32V
- Use an adequate heatsink
- Use a power supply with the following specifications: 5A min.(10A recommended), filtering capacitors of 4700uF / 50V (10000uF /50V recommended) – see our shop for details
- We recommend using a SOFT START circuit (see our shop for details)
- Output ground will be taken from the common conection of the reservoir capacitors;

Please fell free to contact us for any details regarding our products.