

TA8201AK Audio Power Amplifier

Technical Manual Rev 1r0



The e-Gizmo TA8201AK Audio power amplifier Kit is for consumer application. It is suitable for car-audio power amplifier with high performance and also in home audio applications, a mono amplifier is used to deliver power to a single channel speaker.

FEATURES:

- High Power
- Very Few External Parts
- Built in Protector Circuit
- Thermal Shut Down
- Over voltage Protector (Typ. VCC = 24V)
- ASO Protector

GENERAL SPECIFICATIONS:

- Operating voltage: $V_{CC} = 9 \sim 18V$ DC
- Output Current: 4.5A (Peak)
- Output Power:
 - 17W, $V_{CC} = 14.4V$, $f=1kHz$, THD = 10%, $R_L = 4$ ohms
 - 14W, $V_{CC} = 13.2V$, $f=1kHz$, THD = 10%, $R_L = 4$ ohms
- Power Dissipation: 15W
- Operating Temperature: -30~85 deg C
- PCB Dimensions: 32mmx70mm

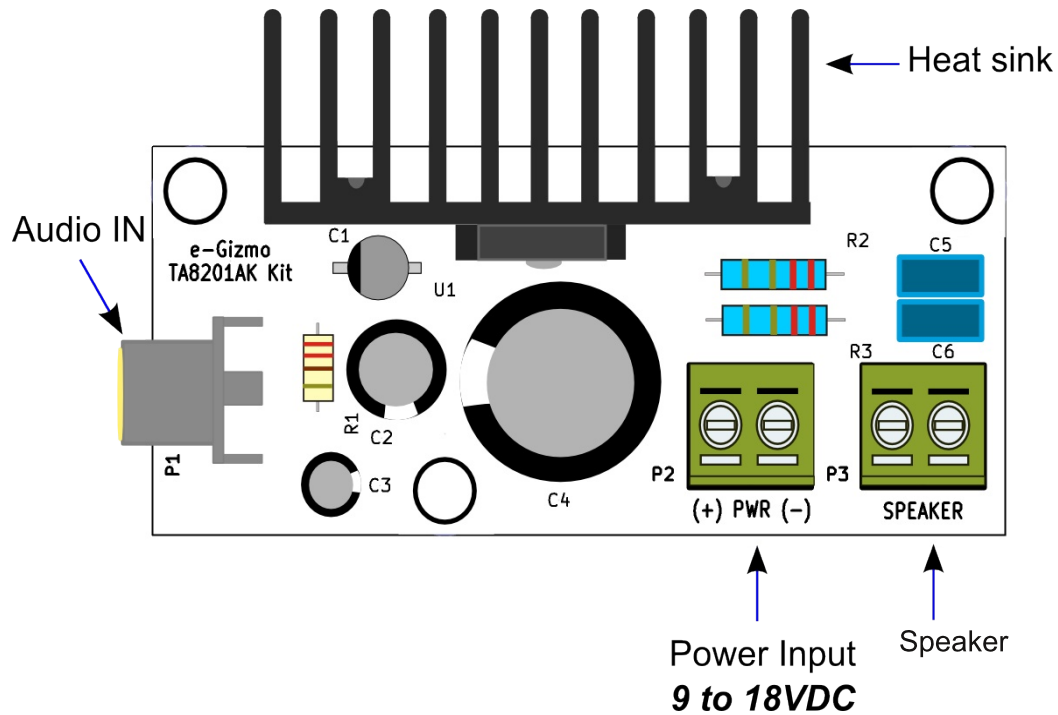


Figure 1. Major Parts presentation of TA8201AK kit.

Table 1. Pin Connection Descriptions

Reference	Name	Descriptions
P1	Audio Input	Input connector for Source Audio
P2	PWR	Power Input Supply 9 - 18V DC
P3	SPEAKER	Output/Speaker Connections

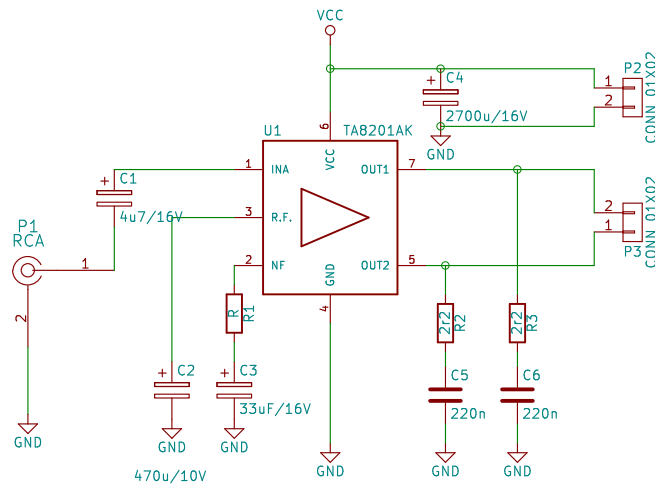


Figure 2. Major Parts presentation of TA8201AK kit.

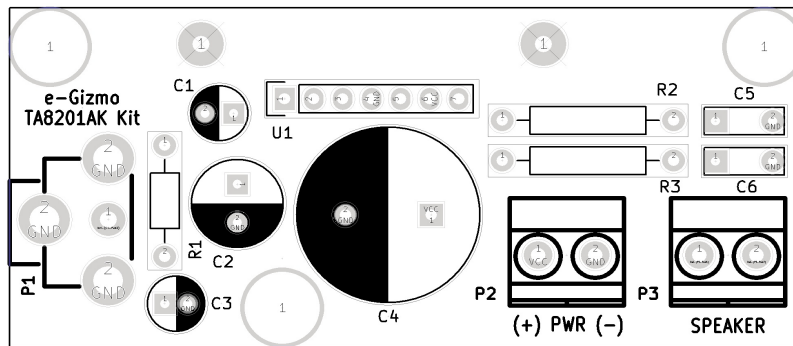


Figure 3. Parts Placement.

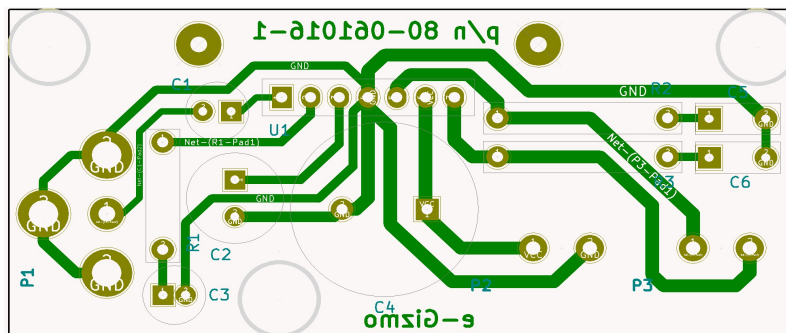


Figure 4. Bottom Guide Layout.

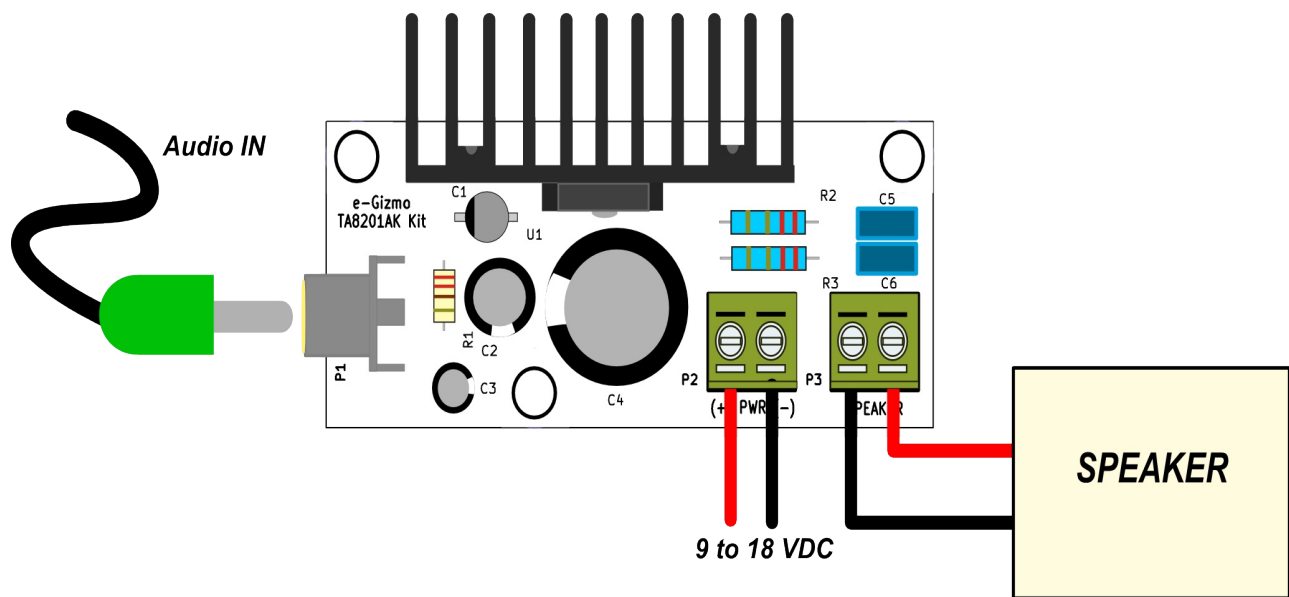


Figure 4. Sample Application.