

Audio amplifier module XH-M145, class D, stereo, YD138-E

Product codes:

Reference: AM6164

EAN13: -

UPC: 8414900090



Product features:

Voltage: 9-14 V DC

Color: Black

Power supply: 12 V DC

Product attributes:

Product description:

The compact two-channel audio amplifier module XH-M145 is designed to amplify low-level analog audio signals for passive speakers. The module uses the YD138-E integrated circuit and operates in class D. It is equipped with a rotary potentiometer for volume control, a screw terminal block for power supply and outputs to speakers, and an audio input connector on the board.

Technical specifications

- Model: XH-M145
 - Device type: stereo audio amplifier module
 - Amplifier operating class: D
 - IC used: YD138-E
 - Number of channels: 2
 - Recommended power supply: 12 V DC / 1.5 A
 - Working voltage range: DC 9 to 14 V
 - Declared output power: 2 x 8 W at 8 ohm load
 - Declared output power: 2 x 12 W at 4 ohm load
 - Module dimensions: 58 x 36 x 21 mm without potentiometer protrusion
 - Audio signal input: connector on the board
-

- Outputs and power supply: screw terminal block
- Terminal markings on the board: L-OUT, +12V, GND, R-OUT

Functions and features

- Stereo design for left and right channels.
- An integrated potentiometer allows direct volume control on the module.
- Compact printed circuit board with mounting holes for mechanical attachment.
- Equipped with electrolytic capacitors and a power amplifier circuit in one module.
- According to the attached description, the circuit includes overcurrent protection, thermal protection, and noise suppression.

Ideal for

- Built-in to smaller audio devices.
- Powered speaker projects with DC power.
- Hobby electronics and prototyping simple stereo audio systems.
- Computer or multimedia audio applications with external passive speakers.

Package contents

- 1x XH-M145 audio amplifier module
- 1x potentiometer control knob
- 1x washer
- 1x fixing nut

Why choose this product?

- Clearly designated model XH-M145 with the mentioned YD138-E amplifier circuit.
- Stereo amplifier in a compact format suitable for integration into smaller devices.
- Low DC voltage power supply for use in common DC applications.
- Direct terminal connection of power supply and speakers makes wiring easy.
- Volume control is part of the module and does not require a separate control element.

Installation and operating instructions

- Observe the polarity of the power connection on the +12V and GND terminals.
 - Connect the speakers to the outputs marked for the left and right channels.
-

- Install the module in an area with sufficient heat dissipation.
- Feed the input audio signal through the input connector on the board.
- Disconnect power before connecting or disconnecting wires.

Safety notice

- Designed for low voltage DC power supply within the specified range.
- Incorrect polarity connection or short circuit at the output may cause damage to the module.
- Components may become hot during operation, so do not cover the module or install it on a flammable surface without suitable separation.
- Only perform assembly and connection when the power supply is disconnected.
- The product is an electronic module intended for installation, not a separately covered terminal device.

Product gallery:

