2 x 15 Watt Stereo Class-T TA2024C Amplifier Board

#320-600

User Manual
Overview
The #320-600 is a stereo class-T TA2024C amplifier, it is 15W (4ohm) continuous average per channel class-T digital audio power amplifier, using Tripath's proprietary power processing technology, class-T amplifiers offer both the audio fidelity of Class-AB and the power efficiency of class-D amplifier.

Applications
• Powered speakers  
• Digital products  
• Computer and PC multimedia  
• Television  
• Battery powered systems

Specifications and Features
• "Audiophile" quality sound  
  0.04% THD+N @ 9W 4ohm  
  0.18% IHF-IM @ 1W 4ohm  
  11W @ 4ohm, 0.1% THD+N  
  6W @ 8ohm, 0.1% THD+N  
• High power  
  15W @ 4ohm, 10% THD+N  
  10W @ 8ohm, 10% THD+N  
• Class-T architecture  
• High efficiency  
  88% @ 10W 8ohm  
  81% @ 15W 4ohm  
• Dynamic range = 102 dB  
• Mute and sleep Input  
• Integrated Gate Drive Supply  
• Over-current protection  
• Over-temperature protection  
• IC package: 36-pin Power SOP  
• PCB material is FR4, thickness 1.6 mm  
• Dimensions: 3.54" x 2.09"  
• Weight: 50g/PCS

Testing Your Amplifier Board
• Connect audio signal cable to audio jack.  
• Connect left and right speaker to speaker connector.  
• Plug DC power cord to DC jack, the voltage is 12V / 2 Amp recommended.  
• Open the power and audio signal (EX: music).

Wiring Diagrams and Layout

Example Wiring with Volume Control (PE #023-652)
3.5 Wiring with Volume Control

RCA Left/Right Wiring with Volume Control

Example Wiring without Volume Control
3.5 mm Plug  
RCA Jacks