IC 810 as Audio Amplifier

Model : SD-140/SA-521

SINCOM SD-140 IC810 as Audio Amplifier is simply designed trainer for the purpose to study the concept, operation, Frequency response and determine the Bandwidth, Voltage gain and other parameters of a IC810 as Audio Amplifier in a simple experimental way.

Features

- IC TBA810 wired with Resistive Capacitive network to operates as a IC 810 Audio Amplifier
- IC TBA810 Monolithic Integrated circuit in a 12 lead Quad In-Line plastics package on board
- Wide Bandwidth AF Amplifier
- Higher Audio Output
- Low Noise
- Polarity Inversion Protection
- High Supply Voltage Rejection
- Fortuitous open Ground protection
- Resistive as well as Loud Speaker as Inductive Load
- Input and Output Coupling Capacitors
- In-Built Fixed regulated DC Power Supply
- User friendly Design
- Very Easy for Operation
- Multi color Circuit Diagram is printed on the front panel of the white board
- Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- Facility to connect external Function Generator and Oscilloscope
- Interconnections by 2mm high quality banana sockets and pins
- Maximum Test points to explore all the corners of experiment
- 1 Year Warranty

Technical Specifications

AC Mains Power Supply	: 230V ±10%, 50Hz
DC Power Supply	: IC Regulated Fixed +12V/500mA
Amplifier Type	: IC TBA810 based Audio Amplifier
IC Package	: IC TBA810 12 lead Quad In-Line plastics package
IC Used	: IC TBA810 Monolithic
Max Audio Output	: 8W (RL=4Ω)
Resistive Load	: 10KΩ Fixed Resistive Load
Speaker Load	: 4Ω Fixed Resistive Load
High Supply Voltage Rejection	: 40dB approx
Protections	: Polarity Inversion & Fortuitous open Ground
Input Output Coupling Capacitors	: Two No. Electrolytic type
Collector Load	: 10KΩ Fixed Resistive Load
Input Signal Type	: Sine wave

- Max. Input Frequency Range : 60Hz-100KHz approx.
- Output Frequency Response : 60Hz-20KHz approx.
- Weight : 2.0 kg (approx)
- Dimensions (mm) : L 220 x W 270 x H 110
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-50^{0}C, 80% RH

Learning Scope

- To Study IC 810 as Audio Power amplifier circuit.
- To Observe & Note change in Output w.r.t. change in Input Frequency.
- To Plot the frequency response & To Determine Bandwidth, Voltage Gain.

Other Instruments Required : Oscilloscope, Function Generator 1MHz.

Accessories Included : Set of Patch Cord and Details Instruction Manual