IC LM 380 as Audio Amplifier

Model : SD-141

SINCOM SD-141 IC LM 380 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 most popular audio IC LM 380 as Audio Amplifier in a simple experimental way.

Features

- IC LM 380 wired with Resistive Capacitive network to operates as a IC LM 380 Audio Amplifier
- IC LM 380 Monolithic DIP plastics package on board
- Wide Bandwidth AF Amplifier
- Higher Audio Output
- Low Noise
- Internally Fixed Voltage Gain
- 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 LM 380 based Audio Amplifier
IC Package	: IC LM 380 Dual In-Line plastics package
IC Used	: IC LM 380 Monolithic
Max Audio Output	: 4W (RL=4Ω)
Resistive Load	: 10KΩ Fixed Resistive Load
Speaker Load	: 4Ω Fixed Resistive Load
Input Impedance	: High 150KΩ
Input Output Coupling Capacitors	: Two No. Electrolytic type
Voltage Gain Internally Fixed	: 50 maximum
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 LM 380 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

Subject to Change