To Study H – Parameters hoe & hre of Transistor

Model : SD-143

SINCOM SD-143 To study H-Parameters hoe & hre of Transistor is simply designed trainer for the purpose to study the hoe & hre parameters of Transistor in common emitter mode in a simple experimental way with facility to connect the external voltmeter, ammeter and AF signal in the circuit.

Features

- BJT NPN BC548 wired in base biasing single stage CE amplifier to study H- parameters hoe & hre.
- One Silicon NPN BJT of TO-92 package on board
- Variable Resistive Collector Load
- 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 Voltmeters, Milliammeter, 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
Biasing Method	: Fixed Base Bias without Emitter Feedback
Transistor Type and Package	: BJT-Silicon-NPN, TO-92 Package
Transistor Used	: One BC 548
Transistor β	: @170-180
Transistor Configuration	: CE mode
H-Parameters	: hoe and hre
BJT Junction Voltage	: 0.7V
Max. Collector Emitter Voltage	: 12 VDC
Resistor Bank	: At Base and Collector
Collector Load	: Fixed and Variable Resistive Load
Input Output Coupling Capacitors	: Two Nos.
Input Signal Type	: Sine wave
Max. Input Frequency Range	: 60Hz-100KHz approx.
Output Frequency Response	: 60Hz-50KHz 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 h-parameters hoe & hre of CE Transistor in Common Emitter mode.
- To Observe the change in this parameter for the change in DC collector current IC.

Other Instruments Required : Digital Multimeter, Oscilloscope, Function Generator 1MHz.

Accessories Included : Set of Patch Cord and Details Instruction Manual