



Experimental Training Board has been designed specifically for the Comparative study of Common Emitter (CE), Common Base (CB) and Common Collector (CC) Transistor Amplifiers. These practical transistor amplifier configurations are evaluated in respect of their main parameters and results are compared with theoretical calculations.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

01. Study of Common Emitter (CE) transistor amplifier circuit and evaluation of its input & output resistance, voltage gain, current gain and power gain.
02. Study of Common Base (CB) transistor amplifier circuit and evaluation of its input and output resistance, voltage gain, current gain and power gain.
03. Study of Common Collector (CC) transistor amplifier circuit and evaluation of its input and output resistance, voltage gain, current gain and power gain.

Features:

The board consists of following built-in parts :

01. $\pm 9V$ D.C. at 100mA, IC Regulated Power Supply internally connected.
 02. All the three circuits i.e. CE, CB and CC are built separately.
 03. Adequate no. of other electronic components.
 04. Sine Wave Signal Generator of 1KHz, with variable level, low distortion, based on IC.
 05. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on $230V \pm 10%$ at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

- * Cathode Ray Oscilloscope 20MHz
- * A.C. Millivoltmeter

Note: Specifications are subject to change.

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