



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.

**Tesca Technologies Pvt. Ltd.**

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Experimental Training Board has been designed specifically for the study of Hybrid Parameters of a transistor and to derive Z and Y parameters from the hybrid-parameter results.

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

**Object:**

01. To measure the hybrid-parameters i.e.  $H_{11}$ ,  $h_{12}$ ,  $h_{21}$  &  $h_{22}$  of a transistor, at 1 KHz and at different collector current values.
02. To derive Z and Y parameters from the hybrid parameter results.

**Features:**

The board consists of the following built in parts:

01. 0-2V5 D.C. at 100 mA, continuously variable Power Supply.
  02. 0-9V D.C. at 100mA, continuously variable Power Supply.
  03. D.C. Milliammeter, 65mm rectangular dial to read 0-10mA.
  04. 1 KHz Sine Wave source with variable output level 0-1V.
  05. PNP Germanium transistor
  06. Adequate no. of other Electronic Components.
  07. 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 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:**

- \* V.T.V.M.

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Experimental Training Board has been designed specifically for the study of Feed Back Amplifier.

Practical experience on these boards carries great educative value for Science and Engineering Students.

**Object:**

To study Negative Feed Back Amplifier for :

01. Voltage gain, Frequency response and Phase response of a single stage triode amplifier.
02. Study of voltage inverse feed back.
03. Study of current inverse feed back.

**Features:**

The board consists of the following built-in parts :

01. A valve with base fixed on panel and wired internally
02. Adequate no. of other electronic components.
  - \* Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of wave forms.
  - \* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
  - \* Weight : 3 Kg. (Approx.)
  - \* Dimension : W340 x H 110 x D 210

**Other Apparatus Required:**

- \* IC Regulated Power Supply
- \* A.C. Millivoltmeter
- \* Decade Audio Frequency Generator
- \* AF Voltmeter 0-1 V
- \* Cathode Ray Oscilloscope 20MHz

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Experimental Training Board has been designed specifically for the study of Single Stage Triode Amplifier.

**Object:**

To Study Single Stage Triode Amplifier for

01. Over load response of the amplifier.
02. Frequency response of the amplifier.
03. Phase response characteristics of amplifier.

**Features:**

- \* The board consists of the following built-in parts :
  1. A valve with base fixed on the panel.
  2. Adequate no. of other electronic components.
- \* Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ 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.
- \* Practical experience on these boards carries great educative value for Science and Engineering Students.
- \* Weight : 3 Kg. (Approx.)
- \* Dimension : W 340 x H 110 x D 210

**Other Apparatus Required:**

- \* IC Regulated Power Supply
- \* A.C. Millivoltmeter
- \* Decade Audio Frequency Generator
- \* AF Voltmeter 0-1V
- \* Cathode Ray Oscilloscope 20MHz

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