



**36365** Experimental Training Board has been designed specifically for the study of Single and Two Stage R-C Coupled Transistor Amplifier.

The board is absolutely self contained and requires no other apparatus required.

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

### Object

1. To Study of common emitter (CE) single stage transistor amplifier circuit and to measure its voltage gain (A). v
2. To plot the frequency response characteristics of the single stage CE Amplifier
3. To find out the input-impedance of the single stage CE Amplifier
4. To find out the 'output impedance' of the single stage CE Amplifier
5. To find out the current gain of the single stage CE Amplifier
6. To find out the power gain of the single stage CE Amplifier
7. To study of the characteristics of two stage R-C Coupled Amplifier
8. To study of the frequency response of the two stage R-C Coupled Amplifier
9. To find out the 'input impedance' of two stage R-C Coupled Amplifier
10. To find out the 'output impedance' of two stage R-C Coupled Amplifier

### Features

The board consists of the following built in parts:

1. Sine Wave Oscillator 15Hz to 150KHz in four ranges with amplifier & amplitude adjustable.
2. Three decade resistances bank in steps of 1K, 10K & 100K per steps total step 30.
3. -12V D.C. IC regulated Power Supply internally connected.
4. Two PNP transistors.
5. Adequate no. of other electronic components.
6. Mains ON/OFF switch, Fuse and Jewel light.
7. The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
8. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
9. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
10. Weight : 1.3 Kg. (Approx.)
11. Dimension : W 415 x H 165 x D 315mm

### Other Apparatus Required

1. Cathode Ray Oscilloscope 20MHz.

### List of Accessories:

1. Patch cord 4mm length 50cm. Red.....03
2. patch cord 4mm length 50cm. Black.....03

Note: Specifications are subject to change.