



**OMEGA TYPE ETB-268** 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

- 01 To Study of common emitter (CE) single stage transistor amplifier circuit and to measure its voltage gain ( $A_v$ ).
- 02 To plot the frequency response characteristics of the single stage CE Amplifier
- 03 To find out the input-impedance of the single stage CE Amplifier
- 04 To find out the 'output impedance' of the single stage CE Amplifier
- 05 To find out the current gain of the single stage CE Amplifier
- 06 To find out the power gain of the single stage CE Amplifier
- 07 To study of the characteristics of two stage R-C Coupled Amplifier
- 08 To study of the frequency response lower cut off frequency and high cut off frequency of the two stage R-C Coupled Amplifier
- 09 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:

- 01 Sine Wave Oscillator 15Hz to 150KHz in four ranges with amplifier & amplitude adjustable.
- 02 Three decade resistances bank in steps of 1K, 10K & 100K per steps total step 30.
- 03 -12V D.C. IC regulated Power Supply internally connected.
- 04 Two PNP transistors.
- 05 Adequate no. of other electronic components.
- 06 Mains ON/OFF switch, Fuse and Jewel light.
- 07 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- 08 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
- 09 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

- 01 Digital Multimeter OMEGA TYPE DMM-201 or Digital Storage Osc. (DSO)

#### LIST OF ACCESSORIES:

- 01 Patch cord 4mm length 50cm. Red.....03
- 02 patch cord 4mm length 50cm. Black.....03

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## OMEGA ELECTRONICS

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