



**OMEGA TYPE ETB-97** Experimental Training Board has been designed specifically for the study of Amplitude Modulation and Demodulation, using a tuned triode power amplifier circuit and diode. Practical experience on this board carries great educative value for Science and Engineering Students.

#### OBJECT

- 01 To study Amplitude Modulation using a tuned triode power amplifier.
- 02 To study Demodulation of A.M. signal using a diode.

#### FEATURES

The board consists of the following built in parts :

- 01 175 V D.C. at 10 mA, Unregulated Power Supply for Anode of triode valve.
- 02 6.3 V A.C. at 400 mA, supply for filament of the triode valve.
- 03 D.C. Milliammeter, 65mm rectangular dial to read 10 mA for monitoring plate current.
- 04 A valve with 9 Pin base fixed on panel and wired internally.
- 05 Carrier frequency source of 200 KHz .
- 06 Modulation signal source of 400 Hz.
- 07 Audio Modulation transformer.
- 08 Ferrite core tuned R.F. transformer.

09 Demodulating circuit.

- 10 Adequate no. of other electronic components.
- 11 Mains ON/OFF switch, Fuse and Jewel light.
- 12 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 13 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 14 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.

15 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 16 Weight : 5.00Kg (Approximate)
- 17 Dimension : W 415 x H 165 x D 315

#### OTHER APPARATUS REQUIRED :

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20

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

**OMEGA ELECTRONICS**