



**OMEGA TYPE ETB-154** Experimental Training Board has been designed specifically for the Study of Varactor Diode Characteristics.

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

#### OBJECT

- 01 To determine the Junction(transition) Capacitance of a Varactor Diode as a function of the reverse bias voltage and to evaluate the internal contact potential.
- 02 To use the Varactor Diode as a variable capacitor.

#### FEATURES

The board consists of the following built-in parts:

- 01 0-10V D.C at 100mA, continuously variable regulated Power Supply.
- 02 D.C. Voltmeter, 65 mm Rectangular dial to read 0-10V.
- 03 Varactor Diode.
- 04 Inductor and adequate no. of other electronic components.
- 05 Mains ON/OFF switch, Fuse and Jewel light.
- 06 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.

- 07 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 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 : 2.100 Kg. (Approx.)
- 11 Dimension : W 340 x H 125 x D 210

#### OTHER APPARATUS REQUIRED :

- 01 Digital Capacitance Meter OMEGATYPE DCM-008
- 02 AF Generator OMEGATYPE AO-300
- 03 Digital Frequency Counter OMEGATYPE DFC-20M
- 04 Dual trace CRO 20MHz OMEGATYPE 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**