



OMEGA TYPE ETB-99 Experimental Training Board has been specifically designed to study various parameters and applications of versatile Variable Three Terminal Voltage Regulator IC LM 317. This regulator IC simplifies the design of good quality power supplies. The board is absolutely self contained and requires no other apparatus. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT:-

- 01 To study the measurement of load regulation of IC LM-317
- 02 To study of short circuit shut down of IC LM-317.
- 03 To study the application of IC LM-317 as 1.25 to 20 Volt variable voltage regulator.
- 04 To study the application of IC LM-317 as increasing the current capacity using external power transistor.
- 05 To study the application of IC LM-317 as Short circuit current limiting by using an external transistor.
- 06 To study the application of IC LM-317 as 0 to 20 Volt variable voltage regulator.

FEATURES:-

The board consists of the following built-in parts :

- 01 +20V D.C. at 2 Amp., Unregulated Power Supply.
- 02 -6V D.C. at 100mA, Unregulated Power Supply.
- 03 Digital voltmeter DC 3½ digit having range 0-20V.
- 04 Digital current meter DC 3½ digits having range 0-2 Amp.
- 05 IC LM317.
- 06 PNP Power transistor.
- 07 Electronic load & Potentiometer.
- 08 Adequate no. of other electronic components.
- 09 Mains ON/OFF switch and fuse.
- 10 The unit is operative on 230VAC ±10% at 50Hz.
- 11 Adequate no. of patch cords stackable 4mm spring loaded plug length 50cm.
- 12 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 13 Weight : 5Kg. (Approx.)
- 14 Dimension : W 340 x H 125 x D 210

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

OMEGA ELECTRONICS