



OMEGA TYPE ETB-210 Experimental Training Board has been designed specifically to study the various parameters in Transmission Line.

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

OBJECT

To measure the following :

- 01 Measuring the characteristics of a line
- 02 Measuring the attenuation of a line
- 03 Measuring the Input Impedance of the line
- 04 Phase displacement between the current & voltage at input of line
- 05 Frequency characteristic of the line
- 06 Study of Stationary Waves
- 07 Signal phase shift along the line
- 08 Fault localization within the line
- 09 Line under pulsed condition.

FEATURES

The board consists of the following built-in parts :

- 01 4 Nos. Coaxial Cables 25 meters each, total Transmission line 100 meters.
- 02 Two potentiometers for impedance matching.
- 03 Sine/Square wave Signal Generator having frequency 40KHz to 4MHz, in two bands 40KHz to 400KHz & 400KHz to 4MHz.

- 04 A SPDT switch to select either sine or square wave.
- 05 A SPDT switch to select frequency either high (400KHz to 4MHz) or low (40KHz to 400KHz).
- 06 A potentiometer to vary frequency high (400KHz to 4MHz) or low (40KHz to 400KHz).
- 07 A potentiometer to vary amplitude.
- 08 BNC connector to connect input.
- 09 Adequate no. of other electronic components.
- 10 Mains ON/OFF switch, fuse and jewel light.
- 11 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- 12 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 13 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.
- 14 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 15 Weight : 5.300 Kg. (Approx.)
- 16 Dimension : W415 x H 165 x D 315

OTHER APPARATUS REQUIRED :

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20.
- 02 Digital Multi meter OMEGA TYPE DMM-201.
- 03 LCR Bridge.

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

OMEGA ELECTRONICS