

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 metres.
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.
  - The unit is operative on 230V  $\pm$ 10% at 50Hz A.C. Mains.
  - Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.
  - Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.
  - Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

**Other Apparatus Required:**

- Cathode Ray Oscilloscope 20MHz.

Note: Specifications are subject to change.

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