

Product Code . JL-CT-1504

Transmission Line Trainer



Description

Transmission Line Trainer

Object:-

To measure the following:

Measuring the characteristics of a line

Measuring the attenuation of a line

Measuring the Input Impedance of the line

Phase displacement between the current & voltage at input of line

Frequency characteristic of the line

Study of Stationary Waves

Signal phase shift along the line

Fault localization within the line

Line under pulsed condition

Features:

The board consists of the following built-in parts :

4 Nos. Coaxial Cables 25 meters each, total Transmission line 100 metres

Two potentiometers for impedance matching

Sine/Square wave Signal Generator having frequency 40KHz to 4MHz, in two bands 40KHz to 400KHz & 400KHz to 4MHz

A SPDT switch to select either sine or square wave

A SPDT switch to select frequency either high (400KHz to 4MHz) or low (40KHz to 400KHz)

A potentiometer to vary frequency high (400KHz to 4MHz) or low (40KHz to 400KHz)

A potentiometer to vary amplitude

BNC connector to connect input

Adequate no. of other electronic components

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 $\frac{1}{2}$ 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

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