

ACT-13 TRANSMISSION LINE TRAINER



Specifications

- **Sine Wave Generator**
 - Provides Synchronized Sine waveform output ranging from 4 KHz to 4 MHz.
- **Pulse Generator**
 - 10 KHz square wave generator
- **Transmission Lines**
 - Coaxial cables are used as Transmission Lines.
 - Four Nos. of 25 meter each totaling 100 meter cables.
- **Impedance Matching**
 - Impedance Matching Resistance of 0 to 100 Ω .
 - Two Nos. of Impedance Matching Resistance provided.
- **Interconnections**
 - All interconnections are made using 4mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- All ICs are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/1.5A, $\pm 12V/250mA$ with Power ON indication.

- Attractive Wooden enclosures of Light weight Australian Pine Wood.
- Set of 4mm Patch cords for interconnections.
- Set of BNC to BNC and BNC to Crocodile cables.
- User's Manual with sample experimental programs.

● LIST OF EXPERIMENTS

- Measuring the Characteristics of a line
- Measuring the attenuation of Line
- Measuring the Input Impedance of the Line.
- Study of Phase Displacement between the Current & Voltage at Input of Line
- Study of Frequency Characteristics of the line.
- Study of Stationary Waves
- Study of Signal Phase Shift Along the Line.
- Study of Fault Localization with the Line
- Study of Line under Pulse Condition.

Note : Specifications can be altered without notice in our constant efforts for improvement.