

ACT-XX

ANALOG COMMUNICATION TRAINER KIT

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, ±12V/250mA with Power ON indication.

- 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 and Photos can be altered without prior notice in our constant efforts for improvement.



