

TRANSMISSION LINE TRAINER KIT ACT- 13



ACT-13 is a Analog Communication Trainer System to under stand Transmission Line Characteristics Techniques. Various Test points/ functional block diagrams are provided on-board for Teaching/Training.

SPECIFICATION:-

> **Sine Wave Generator**

- Provides Synchronized Sine waveform output ranging from 4 KHz to 4 MHz.

> **Square Wave Generator**

- 10 KHz square wave generator
- 5V Pulse Amplitude

> **Transmission Lines**

- Coaxial cables are used as Transmission Lines
- Four Nos. of 40 meter cables
- 75W & 50W Characteristic

> **Impedance Matching**

- Impedance Matching Resistance of 0 to 100 Ω
- Two Nos. of Impedance Matching Resistance provided.

> **Load**

- Resistive, variable from 0 to 100 W including open circuit
- RC type, time constant 0.2ms
- RC type, time constant 10ms
- RL type, time constant 0.2ms
- External load of users choice

> **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
- > User's Manual with sample experimental program

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