



The FET Fundamentals Circuit Board is an educational laboratory trainer designed to provide practical understanding of Field Effect Transistor (FET) devices and related electronic applications. The module incorporates multiple circuit blocks that enable students to perform hands-on experiments and analyze the operating principles of JFET, MOSFET, and UJT devices.

Experimental Circuits and Applications

The trainer supports practical exercises and analysis of the following circuits:

- JFET Characteristics and Applications
- JFET Amplifier Circuits
- JFET Current Source
- Dual Gate MOSFET Circuits
- Unijunction Transistor (UJT)
- Thermistor Applications
- Colpitts Oscillator
- Hartley Oscillator
- Photo Resistor Circuits
- Fiber Optic Link Demonstration

System Features

- Integrated circuit blocks for hands-on experimentation
- Practical testing and troubleshooting capabilities
- Device characterization and signal analysis
- Oscillator and amplifier circuit implementation
- Sensor-based electronic application studies

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Educational Objectives

The trainer enables students to:

- Understand the fundamentals of FET devices
- Analyze JFET, MOSFET, and UJT circuit operation
- Study amplifier and oscillator configurations
- Investigate sensor-based electronic applications
- Perform waveform observation and signal analysis
- Develop troubleshooting and circuit testing skills

Applications

Suitable for:

- Electronics Engineering Laboratories
- Semiconductor Device Studies
- Analog Electronics Training
- Oscillator and Amplifier Experiments
- Technical and Vocational Education
- Undergraduate Engineering Programs

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