



This electronics study card is designed to connect to the 409-01 Experiment Platform or to the 300-01/300-02 Advanced Electronics Experiment Platforms* as part of a modular electronics programme.

This practical resource introduces students to the basic concepts of AC circuits through a wide range of practical activities.

This resource is ideal for use within an intermediate electronics program.

The board can be also be used in conjunction with our optional cloud-based software, which offers online practical electronics tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

* **Note:** to connect to 300-01, 300-02, D3000 EXP or D3000 VIP2 you will also need a 409-02 Experiment Card Motherboard.

Practical Tasks Include the Following:

- Resistors on an AC Supply
- Capacitors on an AC Supply
- Troubleshooting a Capacitor Network
- Inductors on an AC Supply
- RC and RL Circuits on an AC Supply
- RLC Circuit on an AC Supply
- Testing Transistors
- Characteristics of an NPN Bipolar Transistor
- The Simple Transistor Amplifier
- Transistor Amplifier Biasing
- Troubleshooting a Common Emitter Amplifier
- Common Collector Amplifier (Emitter Follower)

Items Included:

- Circuit Card
- Storage Case
- Manuals in PDF Format on CDROM

Other Items Required:

- 490-01 Experiment Platform
 - Digital Multimeter
 - Dual Trace Oscilloscope
 - Function Generator
- or*
- 300-02 Advanced Electronics Experiment Platform
 - 409-02 Experiment Card Motherboard

General Information:

Dimensions: 50 x 238 x 175 mm (W, H, D)
 Shipping Volume: Approx 0.002 m³
 Shipping Weight: Approx 0.35 kg

Order Code: 419-08

P8545-A

For more information visit www.ljcreate.com