



Experimental Training Board has been designed specifically to determine the Power and Power Factor in Series RLC circuit using Single Phase A.C. Supply. The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

**Object:**

Determination of Power and Power Factor in series RLC circuit using Single Phase.

01. Study of Series RLC Circuit using Single Phase A.C. and to determine
  - (a) Power
  - (b) Power Factor and also draw the vector diagram.
02. Study of Series R-L Circuit using Single Phase A.C. and to determine
  - (a) Power
  - (b) Power Factor and also draw the vector diagram.
03. Study of Series R-C Circuit using Single Phase A.C. and to determine
  - (a) Power
  - (b) Power Factor and also draw the vector diagram.

**Features:**

The board consists of the following built-in parts:

1. Mains transformer having Secondary tapings at 20V, 30V, 40V, 50V and 60V A.C. at 500mA
  2. Two A.C. Voltmeters, 65 mm round dial to read 0-75V.
  3. A.C. Voltmeter, 65 mm round dial to read 0-50V.
  4. A.C. Milliammeter, 65 mm round dial to read 0-500mA.
  5. High wattage resistance, capacitor and inductor.
  6. Mains ON/OFF switch, Fuse and Jewel light.
- \* The unit is operative on 230V  $\pm$  10% at 50Hz A.C. Mains.
  - \* Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 1/2 metre.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
  - \* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**

305, Taru Chhaya Nagar, Tonk Road, Jaipur-302029, India  
Tel: +91-141-2724326, Mob: +91-9413330765  
Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in