

## STUDY OF THE FREQUENCY RESPONSE AND PHASE RELATION IN A SERIES LCR CIRCUIT

OMEGA TYPE ETB-279



**OMEGA TYPE ETB-279** Experimental Training Board has been designed specifically to study LCR Circuits with an A.C. Source. 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

- 01 Study Of The Frequency Response and Phase Relation in a Series LCR Circuit.
- 02 To study the phase relationship Voltage & Current in a series LCR circuit.

### SPECIFICATION

The board consists of the following built-in parts :

- 01 Transformer having secondary tapings of 10V, 20V and 30V A.C. at 100mA.

- 02 50 Hz to 1KHz Sine wave Oscillator
- 03 Digital AC Voltmeter  $3\frac{1}{2}$  Digit range 200V to read AC Voltages
- 04 Digital AC Current meter  $3\frac{1}{2}$  Digit range 200uA to read AC Current
- 05 Adequate no. of other electronic components.
- 06 Mains ON/OFF switch, Fuse and Jewel light.
- 07 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.
- 08 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length  $\frac{1}{2}$  meter.
- 09 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 10 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 11 Weight : 5.700 Kg. (Approx.)
- 12 Dimension : W 340 x H125 x D210

### LIST OF ACCESSORIES:

- 01 Patch cord 4mm length 50 cm Red & Black..06

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**

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