



OMEGA TYPE ETB-146 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 To determine the equivalent power loss resistance of an inductor.
- 02 To analyse a complex LR circuit by drawing vector diagrams.
- 03 To analyse a complex RC circuit.
- 04 To study a circuit with two inductors in series.
- 05 To study a circuit with two capacitors in series.
- 06 To study if VL and VC are always in the opposite phase.
- 07 To study the impedance of an LCR circuit.
- 08 To study the phase relationship in a series LCR circuit.

SPECIFICATION

The board consists of the following built-in parts :

- 01 Transformer having secondary windings of 10V, 20V, 30V, 40V, 50V and 100V A.C. at 100mA.
- 02 Digital AC Voltmeter 3 1/2 Digit Dual range 20V/200V to read AC Voltages
- 03 Mains ON/OFF switch, Fuse and Jewel light.
- 04 The unit is operative on 230VAC $\pm 10\%$ at 50Hz.
- 05 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 07 Weight : 5.700 Kg. (Approx.)
- 08 Dimension : W 340 x H125 x D210

LIST OF ACCESSORIES:

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

OTHER APPARATUS REQUIRED:

- 01 AF Oscillator with Power Amplifier
OMEGA TYPE AOP-307

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

OMEGA ELECTRONICS