



OMEGA TYPE ETB-90 Experimental Training Board has been designed specifically for the study of Phase Locked Loop (PLL) IC 565. This training board covers most of the important parameters, characteristics and applications on Phase-locked Loop (PLL) IC 565.

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

OBJECT

To measure important parameters of Phase Locked Loop (PLL) IC 565 :

- 01 VCO Characteristics
 - 1.1 To study and measure the free running frequency or centre frequency of VCO.
 - 1.2 To study the VCO sensitivity
 - 1.3 To study the VCO linearity
- 02 PLL Characteristics
 - 2.1 To study and measure the capture range and lock range.
- 03 PLL Applications
 - 3.1 Frequency synthesis
 - 3.2 F.M. De-modulation
 - 3.3 A.M. De-modulation

FEATURES

The board consists of following built-in parts:

- 01 $\pm 6V$ D.C. at 100mA, IC regulated Power Supply.
- 02 Digital Voltmeter DC $3\frac{1}{2}$ Digit range 0-20V.
- 03 Phase locked loop IC-565
- 04 Two sets of three inter connected sockets for multi-connections wherever required.
- 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 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 10 Weight : 2.500 Kg. (Approx.)
- 11 Dimension : W 340 x H125 x D 210

LIST OF ACCESSORIES:

- 01 Patch cords 4mm length 50cm Red.....08
- 02 Patch cords 4mm length 50cm Black.....08

OTHER APPARATUS REQUIRED :

- 01 Sine Square Wave Generator
OMEGA TYPE SS-305
- 02 Digital frequency counter,
OMEGA TYPE DFC-20M
- 03 Dual trace CRO 20MHz OMEGA TYPE CRO-20

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

OMEGA ELECTRONICS