

**DIFFERENTIAL AMPLIFIER  
OMEGA TYPE ETB-39**

**REGENERATIVE AMPLIFIER  
(VALVE VERSION)  
OMEGA TYPE ETB-38**



**OMEGA TYPE ETB-38** Experimental Training Board has been designed specifically for the study of the Regenerative Amplifier.

**OBJECT**

Study of Regenerative Amplifier with different values of positive feed back factors :

- 01 To compute the gain of the amplifier without feed back.
- 02 To compute the gain of the Amplifier with different values of feed back.
- 03 To draw the frequency response of the amplifier with and without feed back.

**FEATURES**

The board consists of the following built-in parts :

- 01 A valve with base fixed on the panel and wired internally.
- 02 Two band switches for selecting the different values of resistance.
- 03 Adequate no. of other electronic components.
- 04 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 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 Practical experience on these boards carries great educative value for Science and Engineering Students.

- 08 Weight : 2 Kg. (Approx.)  
09 Dimension : W 340 x H 125 x D 210

**OTHER APPARATUS REQUIRED**

- 01 AF Generator OMEGA TYPE AO-300
- 02 V.T.V.M. OMEGA TYPE VTV-10
- 03 Power Supply 300V at 100mA OMEGA TYPE ICV-300/01
- 04 Decade Resistance Box OMEGA TYPE DRBC-115L

**OMEGA TYPE ETB-39** Experimental Training Board has been designed specifically for the study of Differential Amplifier in solid state version. A Differential Amplifier is also called a Differential Amplifier and it is essential part of operational amplifier. As operational amplifiers are now a days being used quite extensively in instrumentation control and entertainment electronics, this Training Board has great educational value.

**OBJECT**

- 01 To study the operation of a Differential Amplifier.
- 02 To measure the Common Mode Gain and Differential Mode Gain of the Differential Amplifier and determine its Common Mode Rejection Ratio(CMRR).

**FEATURES**

The board consists of the following built-in parts:

- 01  $\pm 9V$  D.C. at 100mA, IC regulated Power Supply internally connected.
- 02 Three NPN transistors.
- 03 Adequate no. of other electronic components.
- 04 Mains ON/OFF switch, Fuse and Jewel light.
- 05 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- 06 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 07 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 09 Practical experience on these boards carries great educative value for Science and Engineering Students.

- 10 Weight : 2 Kg. (Approx.)  
11 Dimension : W 340 x H 125 x D 210

**OTHER APPARATUS REQUIRED**

- 01 AF Generator OMEGA TYPE AO-300
- 02 A.C. Millivoltmeter OMEGA TYPE ACV-25
- 03 Dual trace CRO 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**