

## **DSB / SSB AM RECEIVER TRAINER**

**OMEGA TYPE ETB-234** 



#### OMEGA TYPE ETB -234 DSB / SSB AM

Receiver trainer this trainer has been designed with a view to provide practical and experimental knowledge of DSB / SSB AM Receiver technique as practically implemented in Analog Communication system on a signal P.C.B. of size 300x400mm

#### **OBJECT**

- 01 Study of DSB & SSB AM reception & detection by diode / product detectors.
- 02 Study of AGC.
- 03 Study of receiver tuned circuits.
- 04 Study of Sensitivity, Selectivity & Fidelity of Receiver.

# **OBJECTS:**

- 01 Study of double sideband AM reception using envelope detector via cable.
- 02 Study of double sideband AM reception using envelope detector via Antenna.
- 03 Study of sensitivity, selectivity, of a radio receiver.
- 04 Study of single sideband AM reception using product detector. A SIGN
- 05 Study of Image frequencies.
- 06 Voice transmission with DSB AM transmission / reception.

# **FEATURE**

The board consists of the following built-in parts:

01 POWER SUPPLY : ± 12DC and +5V DC IC

Regulated power supply.

02 Detectors/

: 1 Diode Detector Demodulator

(For DSB)

: 2 Product Detector

(For SSB)

03 Frequency Range : 980KHz to 1650 KHz. 04 Intermediate frequency

05 Input Circuits

: 455 KHz. : 1. RF Amplifier

: 2 Mixer

: 3 1st Amplifier : 4 2nd Amplifie

: 5 Local oscillator

: 6 Envelope Detector

(AGC)

: 7 Switch Fault

: 8 Product Detector

: 9 IC Regulated Power

Supply

: 10. Beat frequency

oscillator / 455 KHz Crystal

oscillator

: 11. Output Audio Amplifier

06 Receiving media: Telescopic Antenna / cable.

: with variable capacitor. 07 Tunina

08 Switched faults : 8Nos. 09 Test points : 14.

10 Power supply requirement: 230V AC, 50 Hz.

11 Mains ON/OFF switch, fuse and LED.

12 Audio Output amplifier with Volume Control.

13 Loud Speaker with baffle fitted in a box with two metre wire and 2mm Banana pins for connections.

14 Adequate no. of patch cords stackable from rear both ends 2mm spring loaded plug length 50cm.

15 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.

16 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design Procedures, Report Suggestions and Book References.

17 Weight : 4.800 Kg. (Approx.) 18 Dimension: W 415 x H 165 x D 315

## OTHER APPARATUS REQUIRED:

01 Dual trace CRO 20MHz OMEGATYPE CRO-20

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

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